

# AV SURROUND RECEIVER

# **AVR-2808CI**

**Owner's Manual** 

### □ SAFETY PRECAUTIONS



### **CAUTION:**

### TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. **REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



T

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

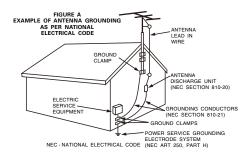
### WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- before the product is operated
- 2. Retain Instructions The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.
- 4 Follow Instructions - All operating and use instructions should be followed.
- 5. Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- 6. Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7. Water and Moisture – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement: or near a swimming pool; and the like.
- 8. Accessories – Do not place this product on an unstable cart, stand, tripod. bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should

follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

- 9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- 10. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in or the manufacturer's instructions have been adhered to.
- 11. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12. Grounding or Polarization This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



- 1. Read Instructions All the safety and operating instructions should be read 13. Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
  - 15. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
  - 16. Lightning For added protection for this product during a lightning storm. or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
  - Power Lines An outside antenna system should not be located in the 17. vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
  - 18. Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
  - 19 Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
  - 20. Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
  - installation such as a bookcase or rack unless proper ventilation is provided 21. Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    - a) When the power-supply cord or plug is damaged,
    - b) If liquid has been spilled, or objects have fallen into the product,
    - c) If the product has been exposed to rain or water.
    - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
    - e) If the product has been dropped or damaged in any way, and
    - f) When the product exhibits a distinct change in performance this indicates a need for service.
    - 22. Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
    - 23. Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
    - 24. Wall or Ceiling Mounting The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
    - Heat The product should be situated away from heat sources such as 25. radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.





### FCC INFORMATION (For US customers)

### 1. PRODUCT

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

### 2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product.

### 3. NOTE

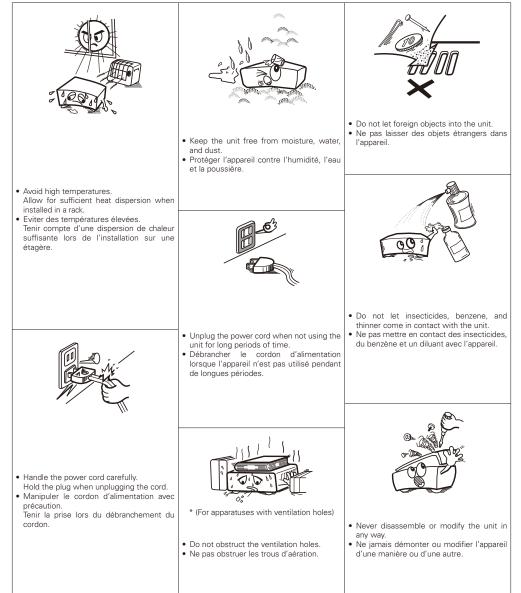
This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

# NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION



# Contents

Getting Started
Accessories 2
Cautions on Handling 3
Cautions on Installation 3
About the Remote Control Unit
Inserting the Batteries
Operating Range of the Remote Control Unit3
Part Names and Functions
Front Panel4
Display4
Rear Panel5
Remote Control Unit

### Connections Preparations

Preparations 7
Cables Used for Connections7
Video Conversion Function-8
On-Screen Display for Component Video Outputs and
HDMI Output ·····8
Speaker Connections 9
Speaker Installation9
Speaker Connections9, 10
Connecting Equipment with HDMI connectors 11
Connecting the Monitor 12
Connecting the Playback Components 12
DVD Player 12
Record Player 13
CD Player
iPod® 14
TV/CABLE Tuner ····· 14
Satellite Receiver
Connecting the Recording Components 15
Digital Video Recorder 15
Video Cassette Recorder 16
CD Recorder / MD Recorder / Tape Deck 16
Connections to Other Devices 17
Video Camera / Game Console 17
Component with Multi-channel Output connectors 17
External Power Amplifier 17
XM connector ·····18
Antenna terminals
Multi-zone 19
External Controller
Connecting the Power Cord
Once Connections are Completed20

# Menu Operations 20 Operations 20 Example of Display of Default Values 21 Examples of On-screen Display and Front Display 21 Menu Map 22

### Auto Setup

Auto Detup
Preparations 23
Auto Setup 24
1 Start Menu24
Error Messages25
2 Option
3 Parameter Check25

### Manual Setup

Manual Setup
Speaker Setup
Speaker Configuration 26
2 Subwoofer Setup26
3 Distance26, 27
4 Channel Level27
5 Crossover Frequency27
HDMI Setup 27
1 HDMI Audio Setup27
2 HDMI Video Setup
Audio Setup
EXT. IN Subwoofer Level······28
2 2ch Direct/Stereo
3 Dolby Digital Setup
4 Auto Surround Mode
5 Manual EQ
Zone Setup
1 ZONE2 Setup
2 ZONE3 Setup
Option Setup
1 Amp Assign
2 Volume Control
3 Source Delete 31
<ul> <li>4 On-Screen Display</li></ul>
6 Trigger Out32
7 Remote ID Setup
2 Remote iD Setup       32         8 2Way Remote       32
Image: Second
Display         32           10         Setup Lock         33
Deruh FOOK

# Input SetupSettings Related to Playing Input Sources34Auto Preset34Preset Skip34Preset Name34Input Mode34Rename34Assign35iPod35, 36Other36Antenna Aiming36

Surround Modes
Standard Playback 36
Surround Playback of 2-channel Sources
Playing Multi-channel Sources (Dolby Digital, DTS, etc.)37
DSP Simulation Playback 37
Stereo Playback
Direct Playback
Playback in the PURE DIRECT Mode

### Parameter

Falalletei
Surround Parameter
2 Tone Control40
<b>3</b> Room EQ40
4 RESTORER41
5 Night Mode41
6 Audio Delay ·····41

Information
Status41
1 Main zone41
2 ZONE2 / ZONE3
Audio Input Signal 42
HDMI Information 42
1 HDMI Signal Information42
2 HDMI Monitor Information42
Auto Surround Mode 42
Quick Select 42
Preset Station 42

Playback
Preparations 43
Turning the Power On43
Selecting the input source43
Operations During Playback43
Playing Video and Audio Equipment
Basic Operation44
Listening to FM/AM Broadcasts44
Basic Operation44
Presetting Radio Stations (Preset Memory)44
Listening to Preset Stations
Listening to XM Satellite Radio Programs45
Basic Operation45
Checking the XM Signal Strength and Radio ID46
Searching Categories46
Accessing XM Radio Stations Directly
iPod <sup>®</sup> Playback47
Basic Operation 47
Listening to Music47, 48
Viewing Still Pictures or Videos on the iPod48

### **Other Operations and Functions**

Other Operations 48
Playing Super Audio CD
Recording on an External Device (REC OUT mode)49
Convenient Functions50
Channel Level50
Fader Function50
Quick Select Function50
Personal Memory Plus Function50
Last Function Memory50
Backup Memory50
Resetting the Microprocessor50

Remote Control Unit Operations
Main Remote Control Unit
Operating DENON Audio Components51
Presetting51
Operating Preset Components51 ~ 53
Setting the Remote ID54
Learning Function54
System Call Function55
Punch Through Function55
Setting the Time the Backlight Stays Lit55
Adjusting the Backlight's Brightness
Resetting the Main Remote Control Unit56
Sub Remote Control Unit

Amp Assign / Multi-zone Connections and Operations
Multi-zone Settings with the Amp Assign Function $\cdots\cdots\cdots57 \sim 59$
Multi-zone Settings and Operations with Zone Pre-out Output $\cdots 59$
Multi-zone Operations60
Turning the Power On and Off60
Selecting the Input Source60
Adjusting the Volume60
Turning off the Sound Temporarily60

<b>Other Information</b>
<b>Troubleshooting</b>
Specifications 73

List of preset codes ..... End of this manual

# **Getting Started**

Thank you for purchasing this DENON product. To ensure proper operation, please read these owner's manual carefully before using the product.

After reading them, be sure to keep them for future reference.

# Accessories

Check that the following parts are supplied with the product.

① Owner's manual					
(2) Warranty (for North America model only)1					
(3) Service station list					
(4) Power cord (Cord length:					
(5) Main remote control (RC-					
6 LR6/AA batteries (for RC-					
<ul> <li>(7) Sub remote control (RC-1</li> <li>(8) R03/AAA batteries (for R0</li> </ul>					
9 FM indoor antenna					
10 AM loop antenna					
1 Setup microphone (Cord					
(4)	5	$\overline{\mathcal{I}}$			
		<b>1</b>			
9	10	1			
AL		ñ			
<u>i</u>					
		9			

# **Cautions on Handling**

### • Before turning the power switch on

Check once again that all connections are correct and that there are no problems with the connection cables.

 Power is supplied to some of the circuitry even when the unit is set to the standby mode. When traveling or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.

### • About condensation

If there is a major difference in temperature between the inside of the unit and the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly.

If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit.

### • Cautions on using mobile phones

Using a mobile phone near this unit may result in noise. If so, move the mobile phone away from this unit when it is in use.

### • Moving the unit

Turn off the power and unplug the power cord from the power outlet.

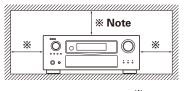
Next, disconnect the connection cables to other system units before moving the unit.

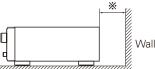
 Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.

# **Cautions on Installation**

### Note:

For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.





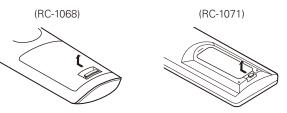
# **About the Remote Control Unit**

In addition to the AVR-2808CI, the included main remote control unit (RC-1068) can also be used to operate the equipment listed below. ① DENON system components

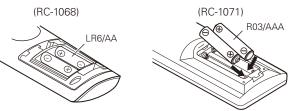
- Non-DENON system components
  - By setting the preset memory (12 page 51 ~ 53)
  - By using the learn function (12) page 54)

# **Inserting the Batteries**

① Lift the clasp and remove the rear lid.



② Load the two batteries properly as indicated by the marks in the battery compartment.



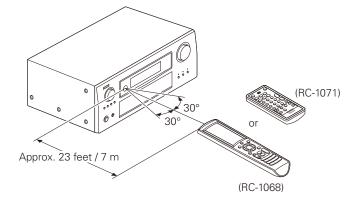
3 Put the rear cover back on.

### NOTE

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit.
- The supplied batteries are only for verifying operation.
- When inserting the batteries, be sure to do so in the proper direction, following the " $\Theta$ " and " $\Theta$ " marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
- Do not use a new battery together with an old one.
- Do not use two different types of batteries.
- Do not attempt to charge dry batteries.
- Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

### **Operating Range of the Remote Control Unit**

Point the remote control unit at the remote sensor when operating it.



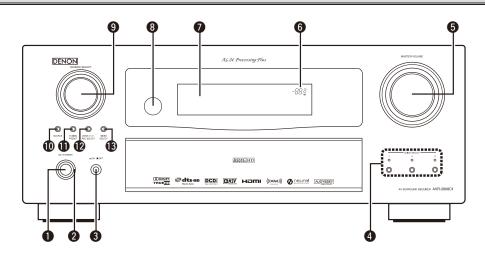
### NOTE

The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light.

# **Part Names and Functions**

For buttons not explained here, see the page indicated in parentheses ( )

### **Front Panel**



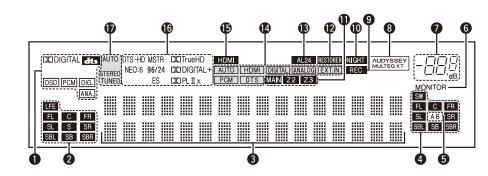
### [With the door open]

<b>(</b> ) ()	<b>P I</b>	<b>@ @</b>		<b>Ø</b>	<b>P</b> Ø	@ @	<b>P B</b>
				STATUS SUB2	NO SPEAKER		H
	2016.0.1 S. 104				) ()	00	
		= 10 (13	(D) (	= - ∞ 20	V.8101	<b>6</b> 2	*****

Power operation button
(ON/STANDBY)(43)
<b>2</b> Power indicator (43)
<b>3</b> Power switch (ONOFF)(43)
<b>4</b> QUICK SELECT buttons / indicators (50)
MASTER VOLUME control knob
6 Master volume indicator
🕖 Display
8 Remote control sensor (3)
SOURCE SELECT knob (43)
<b>(</b> 43)
<b>UNING PRESET button</b> (44)
<b>(2)</b> ZONE2/3 / REC SELECT button
(35) VIDEO SELECT button

Headphones jack (PHONES)
CONCEPTION (60)
<b>(</b> 60) <b>CONE3 ON/OFF button</b>
<b>INPUT MODE button</b> (34)
(20) <b>IDENTIFY OF CONTRACT OF CONTRACT. (20)</b>
(20) Cursor buttons ( $\triangle \nabla \triangleleft \triangleright$ )
O CH SEL / ENTER button
<b>② RETURN button</b>
<b>WAUX INPUT connectors</b> (17)
<b>3 SETUP MIC jack</b>
<b>29 ROOM EQ button</b> (40)
DIMMER button (32)
SPEAKER button     (43)
SURROUND BACK button
③ STATUS button
AUDIO DELAY button
RESTORER button
DIRECT/STEREO button     (37)
PURE DIRECT button     (38)
DSP SIMULATION button
STANDARD button (36)

### Display



### Input signal indicators

**2** Input signal channel indicators These light when digital signals are input.

### **③** Information display

The input source name, surround mode, setting values and other information are displayed here.

### **4** Output signal channel indicators

**5** Front speaker indicator These light according to the settings of the front A and B speakers.

### **6 HDMI monitor indicator** This lights when an HDMI monitor is detected.

Master volume indicator

### O AUDYSSEY MULTEQ XT indicator

This lights when the room equalizer is selected.

### Becording output source indicator

This lights when the REC OUT mode is selected.

### INIGHT indicator

This lights when the night mode is selected.

### **(1)** Multi-zone indicators

These light when the power for the respective zone is turned on.

### RESTORER indicator

This lights when the RESTORER mode is selected.

### B AL24 indicator

This lights when AL24 Processing Plus is activated (127 page 63).

### Input mode indicators

### HDMI indicator

This lights when playing using HDMI connections.

### Decoder indicators

These light when the respective decoders are operating.

### Tuner reception mode indicators

These light according to the reception conditions when the input source is set to "TUNER".

### • AUTO

This lights when in the auto tuning mode.

### • STEREO

In the FM mode, this lights when receiving analog stereo broadcasts.

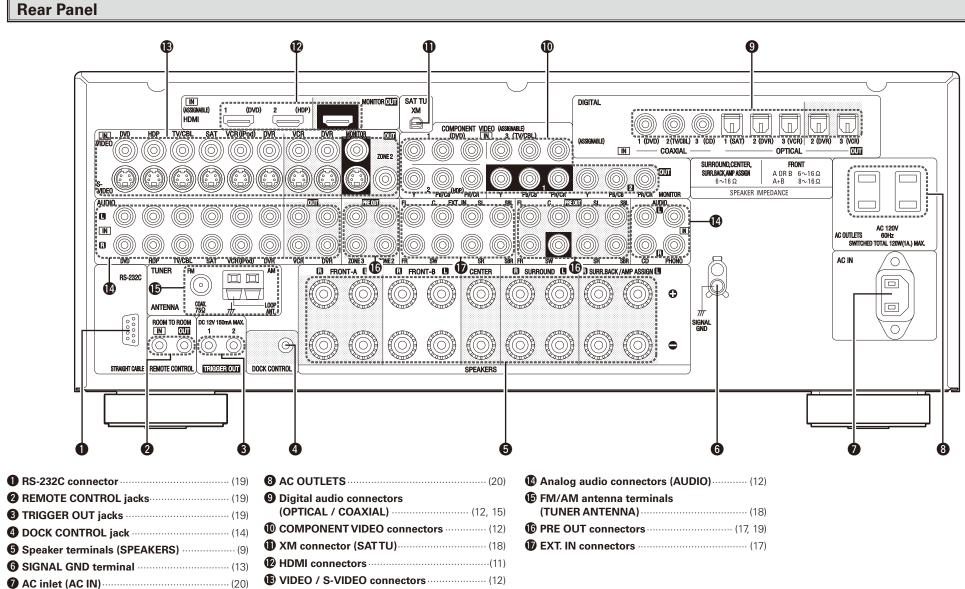
### • TUNED

This lights when the broadcast is properly tuned in.

Multi-Zone

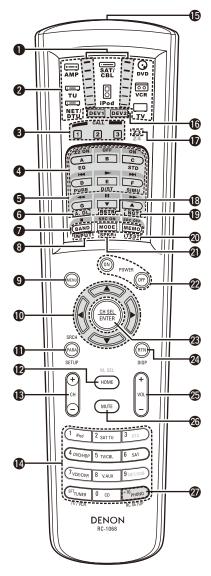
Information

Troubleshooting



# **Remote Control Unit**

### □ Main remote control unit (RC-1068)



0	Signal transmission indicator(51)
2	Mode select buttons(51)
3	Quick select / System call buttons ····· (50, 55)
4	Surround mode buttons(36 ~ 38)
6	<b>System buttons</b>
6	Audio delay button (A. DL)(41)
1	Tuner system buttons(44)
8	Input mode button (INPUT)
9	MENU button (20)
0	<b>Cursor buttons (</b> △▽⊲ ▷ <b>)</b> (20)
Ð	Parameter / Search button
_	(PARA / SRCH) (38, 46, 48)
-	HOME button
-	Channel buttons (CH) (44)
14	Input source select / Number buttons ·· (43, 44)
Ð	Remote control signal transmitter (3)
16	Device select indicators (DEV1 / DEV2) ··· (51)
	ZONE3 select indicators (Z3) (51)
	RESTORER button (RSTR) (41)
	Night button (NGT) ······(41)
20	Test tone button (TEST) (27)
	Front speaker select button (SPKR) (43)
22	POWER buttons (43)
23	Channel select (CH SEL) /
-	<b>ENTER button</b> (20, 50)
-	Return button (RTN)
-	Master volume control buttons (VOL) (43)
-	Muting button (MUTE)(43, 60)
27	Main remote control unit setup button (RC SETUP)

### □ Sub remote control unit (RC-1071)

The time for which the backlight stays on can be changed (12) page 55 "Setting the Time the

• The M. SEL. DTU. NET/USB buttons cannot be

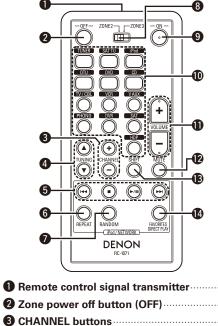
• The NET/DTU and ZONE2 mode **QUICK SELECT (1** 

surround mode buttons cannot be used.The ZONE4 mode cannot be used.

~ 3), A. DL, RSTR, NGT, INPUT, SPKR, TEST and

Backlight Stays Lit").

used.



**(3)** SHIFT button (56)

**FAVORITES DIRECT PLAY button** (56)

REPEAT BANDOM FAVORITES GIPGOT/NETWORK DIRECT PLAY	
DENON RC-1071	
Remote control signal transmitter     (3)	
<b>2</b> Zone power off button (OFF)	_
<b>3</b> CHANNEL buttons	
<b>4</b> TUNING buttons	
<b>5</b> System buttons	
<b>6</b> REPEAT button	
RANDOM button	
<b>3</b> ZONE2/ZONE3 select switch (56)	
<b>9</b> Zone power on button (ON)(60)	
Dinput source select buttons	
<b>Wolume control buttons (VOLUME)</b>	
Wuting button (MUTE) (60)	

Getting Started

Connections

Setup Playback

# Connections

Connections for all compatible audio and video signal formats are described in these operating instructions. Please select the types of connections suited for the equipment you are connecting. With some types of connections, certain settings must be made on the AVR-2808CI. For details, refer to the instructions for the respective connection items below.

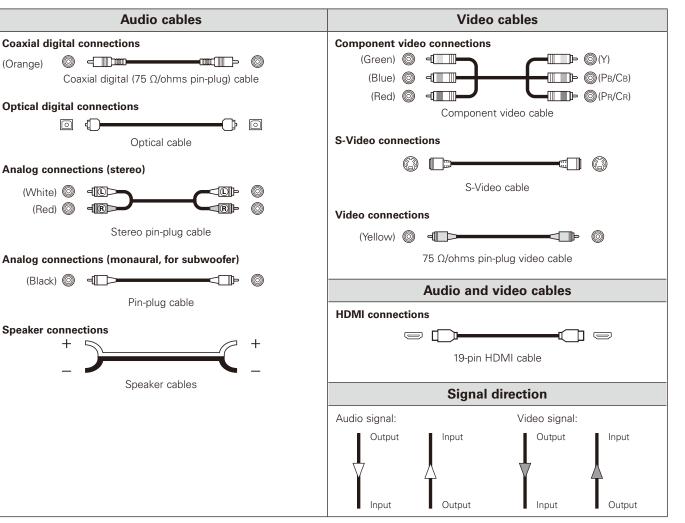
### NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

# **Preparations**

### **Cables Used for Connections**

Select the cables according to the equipment being connected.



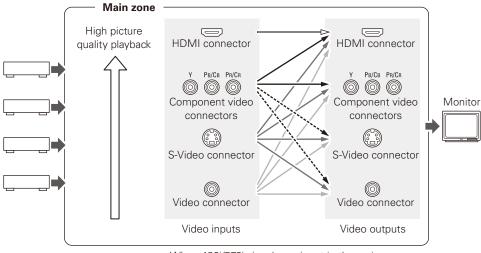
### **Video Conversion Function**

- This function automatically converts various formats of video signals input to the AVR-2808CI into the format used to output the video signals from the AVR-2808CI to a monitor.
- The AVR-2808CI's video input/output circuitry is compatible with the following four types of video signals:

### Digital video signals: HDMI

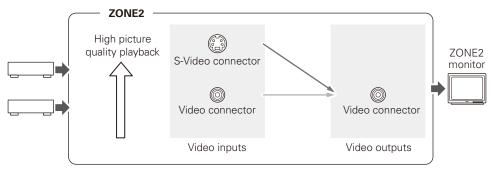
Analog video signals: Component video, S-Video and Video

### [Flow of video signals inside the AVR-2808CI]



----: When 480i/576i signals are input in the main zone

### [Flow of video signals for ZONE2]



- When not using this function, connect a monitor output with the same type of connector as the video input connector.
- The resolution of the HDMI input-compatible monitor connected to the AVR-2808CI can be checked at menu "Information" "HDMI Signal Information" "HDMI Monitor Information" (127) page 42).

### NOTE

- HDMI signals cannot be converted into analog signals.
- 1080p component input video signals cannot be output to anything other than component video connectors.
- 480p/576p, 1080i and 720p component video input signals cannot be converted into S-Video or Video format.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate.

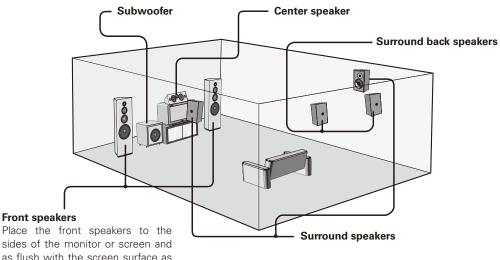
# On-Screen Display for Component Video Outputs and HDMI Output

- When viewing HDMI or component video signals via the AVR-2808CI, the on-screen display appears when the **MENU** button or the main remote control unit's **PARA** button is operated.
- When only HDMI or component video signals are input to the AVR-2808CI, the characters of the onscreen display are not displayed over the picture.

# **Speaker Connections**

### **Speaker Installation**

The illustration below shows a basic example of installation of the amplifier combined with 8 speakers and a monitor.



### Front speakers

sides of the monitor or screen and as flush with the screen surface as possible.

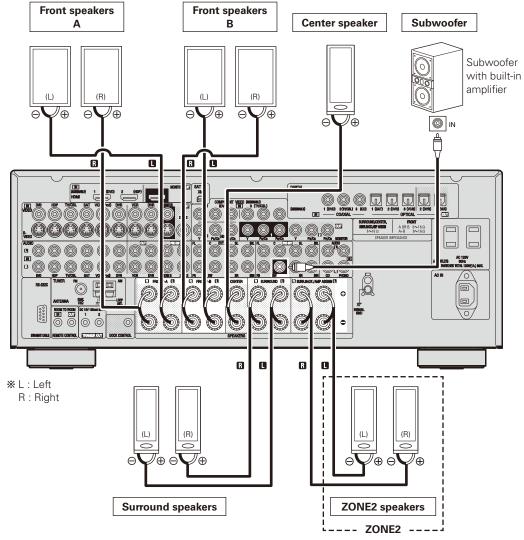
Troubleshooting

The table below shows a typical speaker configuration for the AVR-2808CI.

	FRONT		CENTER	SURROUND		SURROUND BACK			SUBWOOFER
	L	R	CENTER	L	R	L	R	1 only	SUBWUUFEN
7.1-channels (FRONT A+B)	0	0	0	0	0	0	0	-	0
7.1-channels	0	0	0	0	0	0	0	-	0
6.1-channels	0	0	0	0	0	-	-	0	0
5.1-channels	$\bigcirc$	0	0	$\bigcirc$	0	-	-	-	0
3.1-channels	0	0	0	-	-	-	-	-	0
2.1-channels	0	0	-	-	-	-	-	-	0
2-channels	0	0	-	-	-	-	_	-	-

### **Speaker Connections**

**Example:** 5.1-channels (FRONT A+B) and ZONE2 use



When using just one surround back speaker, connect it to the left channel (SBL).

### NOTE

By default, the AVR-2808Cl's "Amp Assign" setting is set to "ZONE2". To use as the surround back speaker for the main zone, change the "Amp Assign" setting (1) page 31).

### **Connecting the Speaker Cables**

Carefully check the left (L) and right (R) channels and + (red) and -(black) polarities on the speakers being connected to the AVR-2808Cl, and be sure to interconnect the channels and polarities correctly.

Peel off about 0.03 ft/10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.

Turn the speaker **C** counterclockwise to loosen it.



رے

**•** Insert the speaker cable's core wire to **3** the hilt into the speaker terminal.

Turn the speaker terminal clockwise to **tighten it.** 



### When using a banana plug

Tighten the speaker terminal firmly before inserting the banana plug.

### 

- Use speakers with an impedance of 6 to 16  $\Omega$ /ohms. When using front A and B speakers simultaneously, use speakers with an impedance of 8 to 16  $\Omega$ /ohms.
- Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and - sides touch each other (@ "Protection circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

### **Protection circuit**

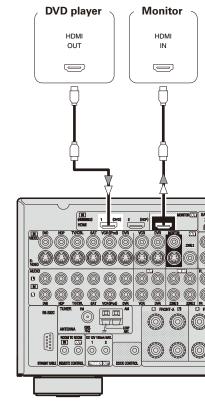
If speakers with an impedance lower than specified (for example 4 Ω/ohms speakers) are used for an extended period of time with the volume turned up high, the temperature may rise, activating the protection circuit.

When the protection circuit is activated, the speaker output is shut off and the power indicator flashes red. If this happens, unplug the power cord, then check the speaker cable and input cable connections. If the set is extremely hot, wait for it to cool off and improve ventilation around it. Once this is done, plug the power cord back in and turn the set's power back on.

If the protection circuit is activated again even though there are no problems in the ventilation around the set nor in the connections, the set may be damaged. Turn the power off, then contact a DENON service center.

# **Connecting Equipment with HDMI connectors**

With HDMI connections, the video and audio signals can be transferred with a single cable.



\* The AVR-2808CI is equipped for HDMI version 1.3a. This version is compatible with other versions, allowing connection to all components equipped with an HDMI connector.

\* The AVR-2808Cl is compatible with 30- and 36-bit Deep Color.

Compatible audio format	Details	Discs (examples)	
2-channel linear PCM	2ch 32-192 kHz 16/20/24 bits	CD, DVD-Video, DVD-Audio	
Multi-channel linear PCM	8ch 32-192 kHz 16/20/24 bits	DVD-Audio	
Dolby Digital, DTS	Bitstream	DVD-Video	
DSD	2/5.1ch 2.8224 MHz 1 bit	SACD	
Dolby Digital Plus, Dolby TrueHD, DTS-HD	Bitstream	HD DVD, Blu-ray Disc	

### Copyright protection system (HDCP)

In order to play the digital video and audio signals of a DVD-Video or DVD-Audio disc using HDMI/DVI connections, both the connected DVD player and monitor must be equipped for a copyright protection system called "HDCP" (Highbandwidth Digital Content Protection).

HDCP is a copy protection technology consisting of data encoding and mutual identification of the devices. The AVR-2808CI is HDCP-compatible. For details on the

DVD player or monitor you are using, refer to its operating instructions.

- By default, the HDMI audio signals are output from the speakers connected to the AVR-2808CI.
- To output the sound from the TV, make the settings at menu "Manual Setup" "HDMI Setup" "HDMI Audio Setup" "TV" (@page 27).

### NOTE

• Use a CPPM-compatible DVD player to play DVD-Audio discs that are copyright-protected by CPPM.

- The AVR-2808CI cannot be controlled from another device via the HDMI cable.
- The audio signals output from the HDMI connector (sampling frequency, bit rate, etc.) may be restricted by the connected device.
- Video signals are not output properly when using devices that are not HDCP-compatible.
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the DVD player's resolution to a resolution with which the monitor is compatible.
- If the menu "Manual Setup" "HDMI Setup" "HDMI Audio Setup" setting (12) page 27) is set to "AMP", the sound may be interrupted when the monitor's power is turned off.
- Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).
- If the monitor or DVD player does not support deep color, deep color signal transfer is not possible.
- If the monitor or DVD player does not support xvYCC, xvYCC signal transfer is not possible.
- If the monitor does not support "Auto Lipsync Correction" function, this function will not work.

- When the AVR-2808CI and DVD player are connected using an HDMI cable, also connect the AVR-2808CI and monitor using an HDMI cable.
- If the connected monitor or DVD player only has a DVI-D connector, use an HDMI/DVI converter cable. When using a DVI cable, no audio signals are transmitted.
- Use a Deep Color compatible cable for connection to Deep Color compatible devices.

### When connecting with an HDMI/DVI converter cable (adapter)

• HDMI video signals are theoretically compatible with the DVI format.

When connecting to a monitor, etc., equipped with a DVI-D connector, connection is possible using an HDMI/DVI converter cable, but depending on the combination of components in some cases the video signals will not be output.

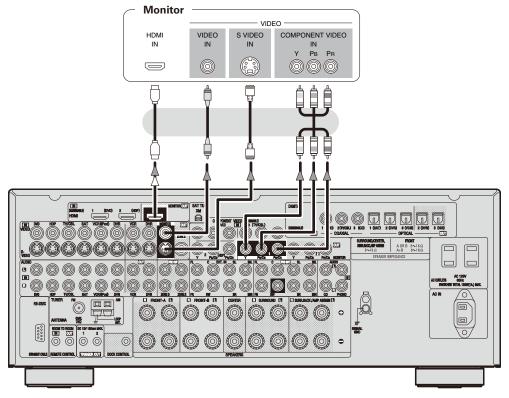
• When connecting using an HDMI/DVI converter adapter, the video signals may not be output properly due to poor connections with the connected cable, etc.

**Getting Started** 

Connections

# **Connecting the Monitor**

- Connect the cables to be used (127 page 8 "Video Conversion Function").
- With HDMI connections, the video and audio signals can be transferred with a single cable.
- To output the audio signals to the monitor with HDMI connections, set menu "Manual Setup" "HDMI Setup" "HDMI Audio Setup" to "TV" (27) page 27).



### NOTE

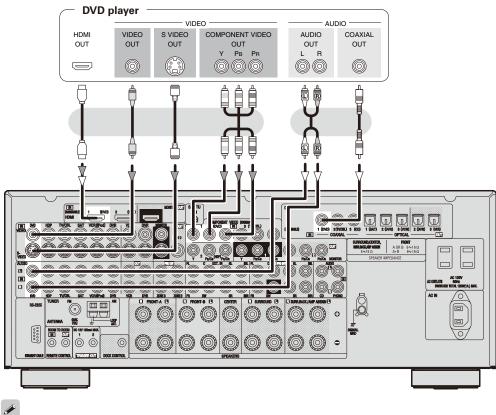
- The component video connectors may be indicated differently on your monitor. For details, see the monitor's operating instructions.
- The audio signals output from the HDMI connectors are only the HDMI input signals.

# **Connecting the Playback Components**

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

# **DVD Player**

- Connect the cables to be used.
- With HDMI connections, the video and audio signals can be transferred with a single cable.



• Connect an HDP (High-Definition Player) in the same way.

- When using an optical cable for the digital audio connection, make the settings at menu "Input Setup"
- "Assign" "Digital In" (😰 page 35).

### **Record Player**

**Getting Started** 

Connections

Setup

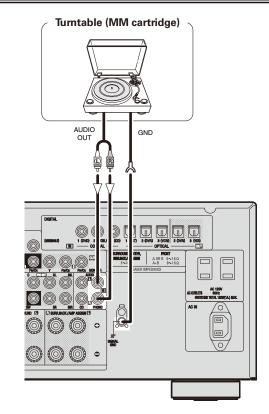
Playback

Remote Control

Multi-Zone

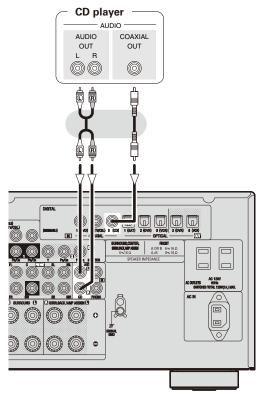
Information

Troubleshooting



# **CD Player**

Connect the cables to be used.



# 

- When connecting a record player with an MC cartridge, use a commercially available MC head amplifier or a step-up transformer.
- Induction humming (a booming sound) may be produced from the speakers if the volume is raised with no record player connected.
- With some record players, noise may be generated when the ground wire is connected. If so, disconnect the ground wire.

### NOTE

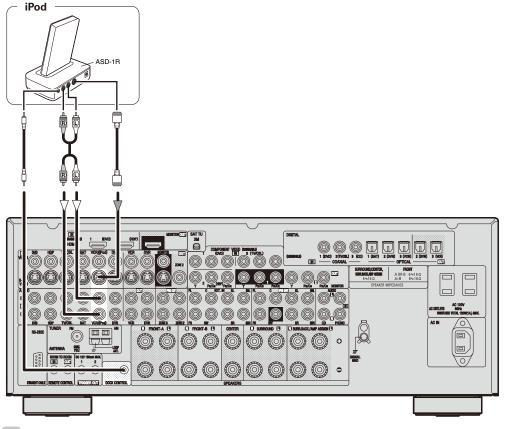
The AVR-2808CI's SIGNAL GND terminal is meant to reduce noise when a record player is connected. This is not a safety ground terminal.

# 

When using an optical cable for the digital audio connection, make the settings at menu "Input Setup" – "Assign" – "Digital In" (P page 35).

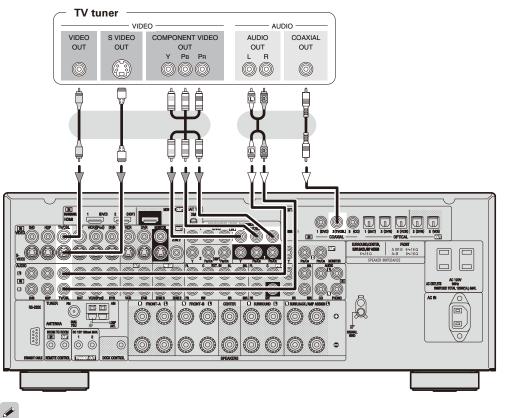
### iPod®

Use a DENON Control Dock for iPod (ASD-1R, sold separately) to connect the iPod to the AVR-2808CI. For instructions on the Control Dock for iPod settings, refer to the Control Dock for iPod's operating instructions.



# TV/CABLE Tuner

Connect the cables to be used.



When using an optical cable for the digital audio connection, make the settings at menu "Input Setup" – "Assign" – "Digital In" (1) page 35).

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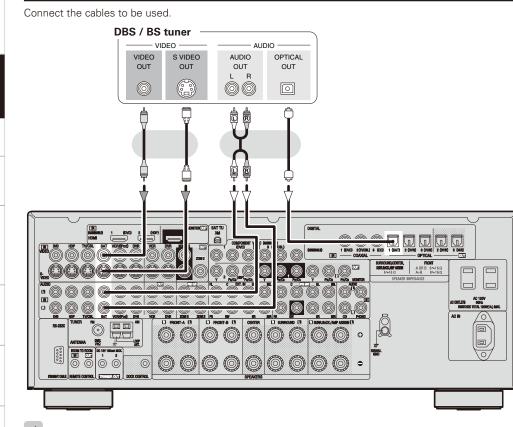
- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- To assign the iPod to a connector other than VCR (iPod), make the settings at menu "Input Setup" "(input source to which iPod dock assigned)" "Assign" "iPod dock" (127) page 36).

Getting Started

Connections

Setup Playback

### **Satellite Receiver**



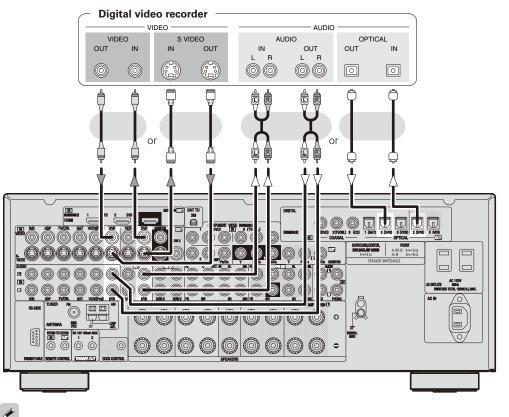
- When using a coaxial digital cable for the digital audio connection, make the settings at menu "Input Setup" "Assign" "Digital In" (1297 page 35).
- When using a component video cable for the video connection, make the settings at menu "Input Setup" – "Assign" – "Component In" (@ page 36).

# **Connecting the Recording Components**

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

### **Digital Video Recorder**

Connect the cables to be used.



- Make analog connections if you wish to record analog audio signals.
- When recording via the AVR-2808CI, the playback device's cable must be of the same type as the cable used to connect the AVR-2808CI's DVR OUT connector.

**Example:** TV IN  $\rightarrow$  S-Video cable : DVR OUT  $\rightarrow$  S-Video cable

TV IN  $\rightarrow$  Video cable : DVR OUT  $\rightarrow$  Video cable

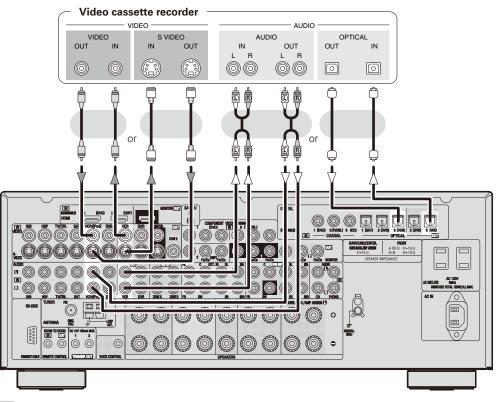
When using a component video cable for the video connection, make the settings at menu "Input Setup"
 – "Assign" – "Component In" (@ page 36).

### NOTE

Do not connect the output of the component connected to the AVR-2808CI's OPTICAL2 output connector to any input connector other than OPTICAL2.

### Video Cassette Recorder

Connect the cables to be used.



### 

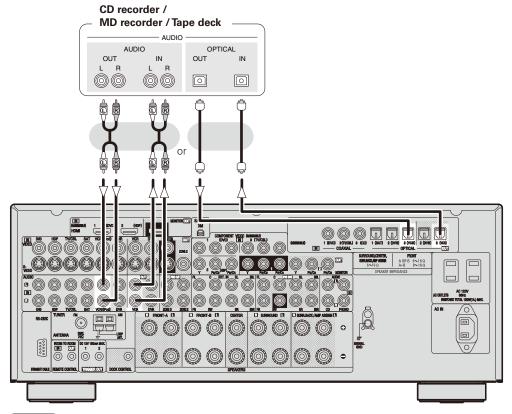
- When recording via the AVR-2808CI, the playback device's cable must be of the same type as the cable used to connect the AVR-2808CI's VCR OUT connector.
- **Example:** TV IN  $\rightarrow$  S-Video cable : VCR OUT  $\rightarrow$  S-Video cable
  - $\mathsf{TV}\:\mathsf{IN}\to\mathsf{Video}\:\mathsf{cable}:\mathsf{VCR}\:\mathsf{OUT}\to\mathsf{Video}\:\mathsf{cable}$
- When using a component video cable for the video connection, make the settings at menu "Input Setup" – "Assign" – "Component In" (12) page 36).

### NOTE

Do not connect the output of the component connected to the AVR-2808CI's OPTICAL3 output connector to any input connector other than OPTICAL3.

# CD Recorder / MD Recorder / Tape Deck

Make analog connections if you wish to record analog audio signals, or digital connections if you wish to record digital audio signals, depending on the types of connectors on the components being used.



### NOTE

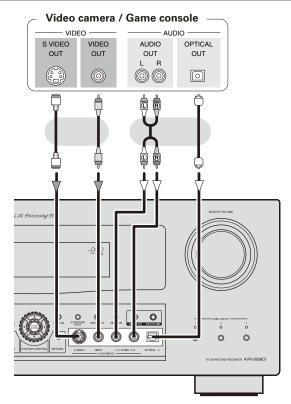
Do not connect the output of the component connected to the AVR-2808CI's OPTICAL3 output connector to any input connector other than OPTICAL3.

Troubleshooting

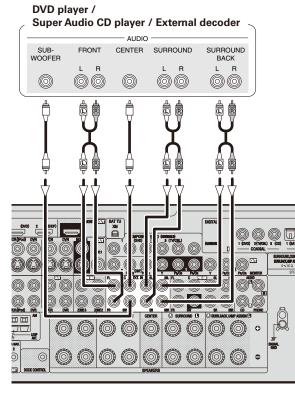
# **Connections to Other Devices**

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

# Video Camera / Game Console

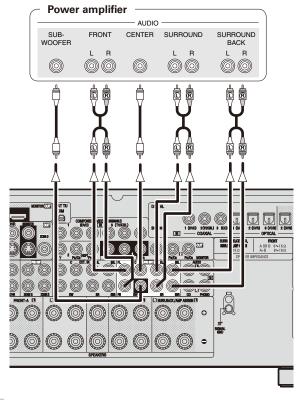


# Component with Multi-channel Output connectors



- To play the analog input signals input to the EXT. IN connectors, press the **INPUT MODE** button on the main unit or **INPUT** button on the main remote control unit and select "EXT. IN" or make the settings at menu "Input Setup" "Input Mode" "Input Mode" "EXT. IN" (127) page 34).
- The video signal can be connected in the same way as a DVD player (127 page 12).
- To play copyright-protected discs, connect the AVR-2808CI's EXT. IN connector with the DVD player's analog multi-channel output connector.

### **External Power Amplifier**



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When using just one surround back speaker, connect it to the left channel (SBL).

Information

Troubleshooting

### XM connector

### Antenna terminals

• The AVR-2808CI is an XM Ready<sup>®</sup> receiver. You can receive XM<sup>®</sup> An F-type FM antenna cable plug can be connected directly. Satellite Radio by connecting to the XM Mini-Tuner and Home Dock

Direction of broadcasting station

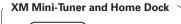


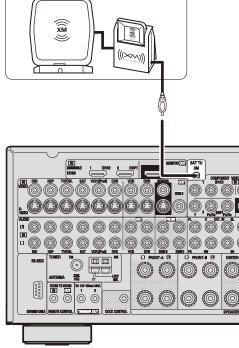
(includes home antenna, sold separately) and subscribing to the XM

• Position the Home Dock antenna near a south-facing window to receive the best signal.

For details, see "Listening to XM Satellite Radio Programs" (Programs 45, 46).

When making connections, also refer to the operating instructions of the XM Mini-Tuner and Home Dock.

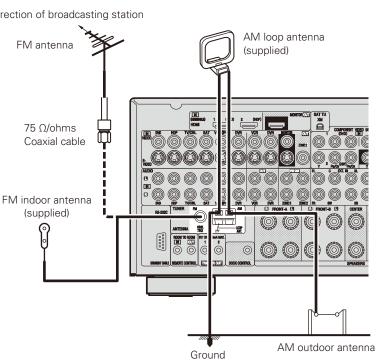




### NOTE

Keep the power cord unplugged until the XM Mini-Tuner and Home Dock connection have been completed.

- The XM name and related logo are registered trademarks of XM Satellite Radio Inc. All rights reserved.
- XM Ready is a registered trademark of XM Satellite Radio Inc. All rights reserved.



### AM loop antenna assembly

Remove the vinyl tie and take

any stable surface.

a. With the antenna on top of

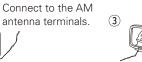
out the connection line.

(2)



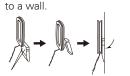
(4)

Mount

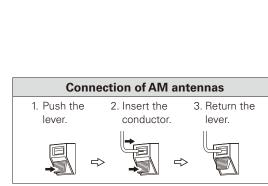


Bend in the reverse direction.

b. With the antenna attached



Installation hole Mount on wall, etc.



### NOTE

- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.

### Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

**Getting Started** 

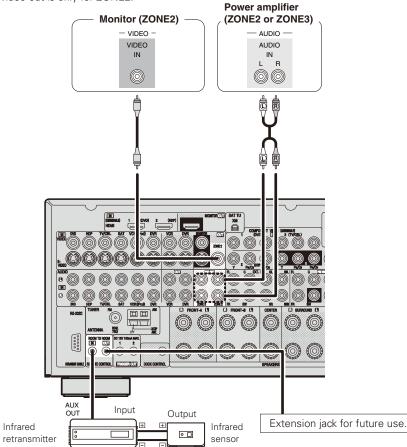
Connections

Setup Playback

### Multi-zone

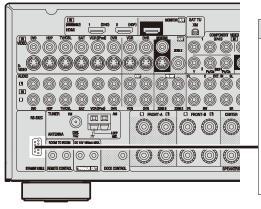
### ZONE2 or ZONE3 Pre-out Connections

- If another power amplifier or pre-main (integrated) amplifier is connected, the ZONE2 or ZONE3 pre-out (variable or fixed level) connectors can be used to play a different program source in ZONE2 or ZONE3 the same time (12) page 57 ~ 60).
- When using an S-Video cable or a video cable for connection between the AVR-2808CI and an input device, connect to the video connectors.
- The ZONE2 video out is only for ZONE2.



### NOTE

- For the audio output, use high quality pin-plug cords so that no induction humming or noise is produced.
- For instructions on installing and operating separately sold devices, refer to the respective devices' operating instructions.
- To conduct multi-zone playback, see "Amp Assign / Multi-zone Connections and Operations" (1277) page 57 ~ 60).



**External Controller** 

### **RS-232C connector**

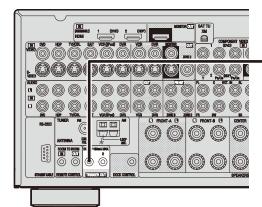
### This connector is used for an external controller.

- If you wish to control the AVR-2808CI from an external controller using the RS-232C connector, perform the operation below beforehand.
- ① Turn om the AVR-2808CI's power.
- ② Turn off the AVR-2808Cl's power from the external controller.
- (3) Check that the AVR-2808CI is in the standby mode.

• When using in combination with an RF Remote Controller (RC-7000Cl, sold separately) or RF Remote Receiver (RC-7001RCl, sold separately) two-way communication with an RF Remote Controller is possible.

The AVR-2808Cl's status information as well as iPod can be browsed watching the RF Remote Controller's display. For details, refer to the operating instructions of the respective devices.

• When used in combination with an RF Remote Controller or RF Remote Receiver, make the settings at menu "Manual Setup" – "Option Setup" – "2Way Remote" – "Used" (127 page 32).



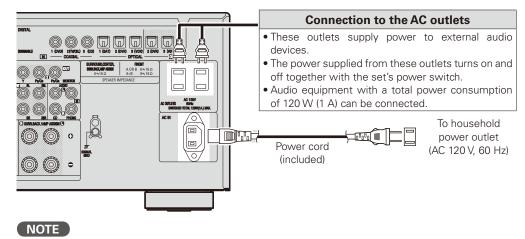
### Trigger output jacks

The power of an external device equipped with a trigger input jack can be turned on and off in association with operations on the AVR-2808CI.
For details, see menu "Manual Setup" – "Option Setup" – "Trigger Out" (127 page 32).
Output: DC 12 V 150 mA MAX.
Check the trigger input conditions of the connected device.

19

# **Connecting the Power Cord**

Wait until all connections have been completed before connecting the power cord.



- Insert the AC plugs securely. Incomplete connections could cause noise.
- Only use the AC outlets to plug in audio devices. Do not use them as power supplies for hairdryers or anything other than audio equipment.

# **Once Connections are Completed**

Turning the Power On (page 43)

# **Menu Operations**

With the AVR-2808CI, settings and operations for most functions can be performed by operating while looking at the menus displayed on the monitor screen.

# Operations

The same operation is possible on the main unit or remote control unit.

### Press MENU.

- The menu is displayed.
- \* To operate from the main remote control unit, be sure to set the remote control unit to the AMP mode.

**2** Press  $\triangle \nabla$  to select the item you want to set, then press ENTER.

**3** Press  $\triangle \nabla$  again to select the item you want to set, then press ENTER.

# To change the setting:

**4** Press  $\triangle \nabla$  to select the item you want to change, then press  $\triangleleft \triangleright$  to change the setting.

\* To return to the previous item, press **RETURN**.

**5** Press ENTER to enter the setting.

6 Press MENU to finish.

# About the button names in these explanations

< > : Buttons on the main unit

ENTER

 $\Delta \nabla \Delta \triangleright$ 

RETURN

[ ] : Buttons on the remote control unit

### Button name only:

[⊡ AMP]

MENU

Buttons on the main unit and remote control unit

When **MENU** is pressed, the settings made up to that point are entered and the setting menu is cleared.

# note control unit, ontrol unit to the item you want R. ct the item you ENTER.



**Getting Started** 

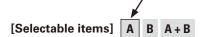
Connections

Setup

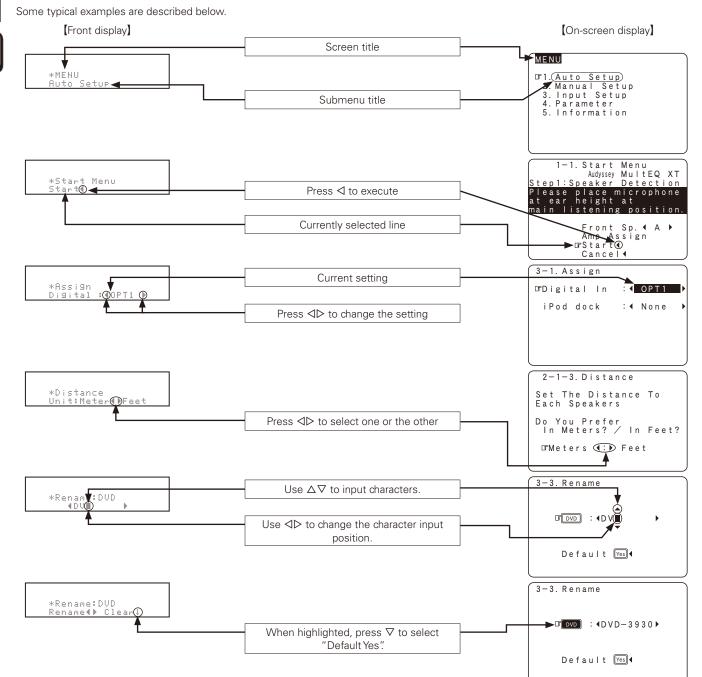
Playback

# Example of Display of Default Values

In lists of selectable items or adjustable ranges, the item surrounded by a border is the default value.



# Examples of On-screen Display and Front Display

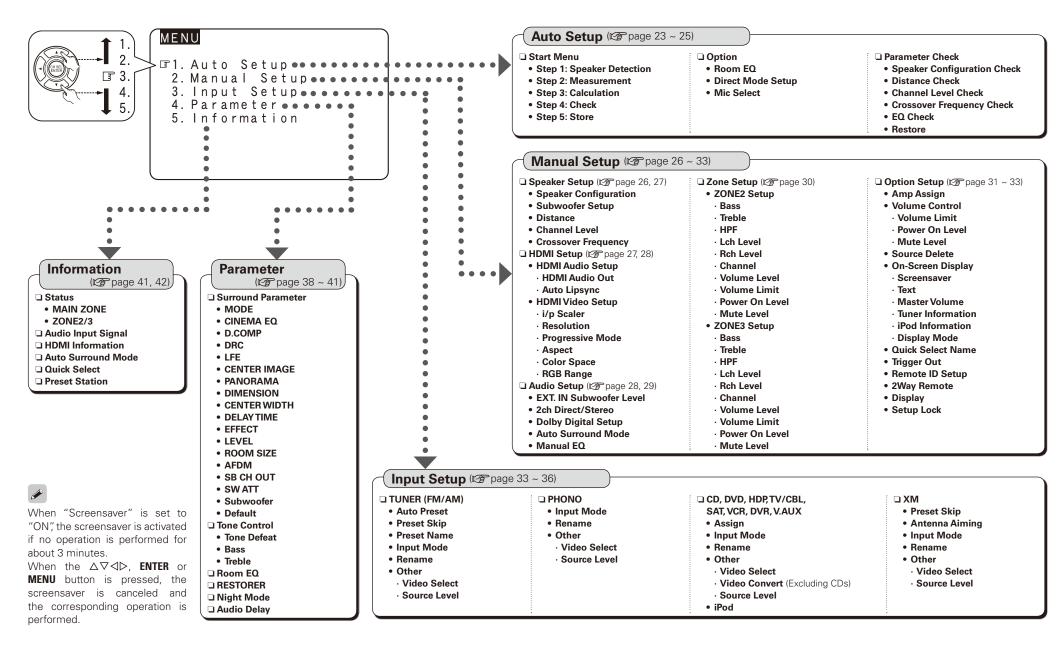


**Getting Started** 

Connections

Setup

# Menu Map



Multi-Zone Information Troubleshooting

**Getting Started** 

Connections

Setup

Playback

**Remote Control** 

# Auto Setup

**Getting Started** 

Connections

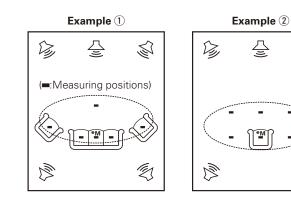
Setup

Playback

- Audyssey MultEQ<sup>®</sup> XT automatically measures the acoustical problems in the listening environment to create the best audio experience for your home theater.
- It optimizes a large listening area where one or more listeners are seated.

Measurements are performed by placing the calibrated microphone (DM-A405) successively at multiple positions throughout the listening area as shown in **Example** ①. For best results, it is strongly recommended to measure 6 or more positions so that the measurements have the proper spatial weighting.

Even if the listening environment is small as shown in **Example** (2), measuring at multiple points throughout the listening environment results in more effective correction.



### About the main listening position (\*M)

The main listening position refers to the most central position where one would normally sit within the listening environment. MultEQ XT uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.

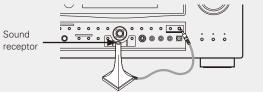
# ø

To make manual adjustments to the settings, see pages 26, 27.

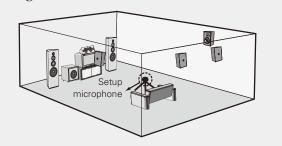
# Preparations

**1** Connect the included calibrated setup microphone to the **SETUP MIC** jack on the main unit.

The auto setup screen appears automatically.



**2** Place the microphone at ear height on a tripod or stand with the microphone pointing directly up towards the ceiling.



It is not recommended to hold it in your hand. Be sure that the path from microphone to the speakers is not blocked by objects. Avoid placing the microphone close to a seat back or wall as sound reflections may give inaccurate results.

When using a subwoofer, make the following settings before starting the auto setup procedure:

- Defeat the volume and crossover controls if possible
- If this is not possible then set
- Volume: "12 o'clock" position
- Crossover frequency: "Maximum/Highest Frequency"
- · Low pass filter: "Off"
- Standby mode: "Off"



G)

2

- Do not disconnect the setup microphone until the auto setup procedure is completed.
- When using headphones, unplug the headphones before starting the auto setup procedure.

# Auto Setup

Optimize settings for speakers in use.



### 1 Start Menu

The settings are performed automatically.

### Start

### Start Auto Setup.

The Audyssev MultEQ XT Auto Setup process automatically calculates the size, level, distance, bass management crossover frequency, and optimal settings for each speaker and subwoofer. Audyssey MultEQ XT corrects acoustical distortions within the listening area.

Before starting, connect and position all your speakers. Once started, MultEQ XT will play a series of test tones through each

speaker.

# (

If an error message appears during the measurements, check "Error Messages", take the advised action, then start the measurements again (12 page 25).

### Front Speaker

The front speaker to be measured can be selected ahead of time here.

### [Selectable items]



Output test tone from front speakers A.



: Output test tone from front speakers B.



**A + B** : Output test tone from front speakers A and B.

### Amp Assign

Advanced setting : changes power amplifier assignment. For details, refer to "Amp Assign" (P page 31).

### **Step 1 : Speaker Detection**

The speaker connection and polarity are detected at the first measurement position. The following attributes are also determined at this time: "Speaker Size", "Speaker Distance", "Channel Level", "Crossover Frequency".

Once the measurements are completed, the results are displayed.

### 

- Loud test tone may be played during Audyssey MultEQ XT Automatic Speaker Setup. This is part of normal operation. If there is background noise in room, these test tones will increase in volume.
- Do not stand between the speakers and setup microphone or allow obstacles in the path while the measurements are being made. This will cause inaccurate readings.
- Quiet the listening environment before beginning measurements and refrain from talking. Turn off air conditioning units or other devices that emit noise if at all possible as measurements may be affected by these sounds.
- Operating the **MASTER VOLUME** knob on the main unit or the **VOL** +/- buttons on the remote control unit during the measurements will cancel the measurements.
- Do not change the speaker connections or subwoofer volume after "Step 1"

### Step 2 : Measurement

After completing a measurement position, move the microphone to the next position.



Measure at least 6 positions (main listening position and at least 5 other surrounding positions). For best results it is recommend measuring 6 or more positions (with a maximum of 8 positions).

### Step 3 : Calculation

When "Calculate" is selected at "Step 2" the measurements taken are analyzed automatically to determine how the speaker system interacts with the room.

### <u>e</u>

The time required for this analysis depends on the number of speakers connected. The higher the number of speakers, the longer the time required for analysis.

### Step 4 : Check

Once the auto setup procedure is complete, a measuring result check screen appears.

Select any item whose results you want to check to review the results.

P

Values that are different from the actual distance may be set for speakers with built-in filters (subwoofers, etc.). This is because filters add electrical delay to the signal that should be compensated.

### Step 5 : Store

The auto setup measurement results are stored in the AVR-2808CI.



Do not turn the power off while the settings are being stored.

**Getting Started** 

Connections

### **Error Messages**

If the auto setup procedure could not be completed due to speaker installation, the measuring environment, etc., an error message is displayed. If this happens, check the relevant items, be sure to take the necessary measures, then perform the auto setup procedure over again.

# 2 Option

Select settings for room EQ, mic, etc.

### Room EQ

Select room EQ setting method.

### [Selectable items]

All : Apply settings to all surround modes.

Assign : Make settings for each surround mode separately.

### Direct Mode Setup

Select room EQ use for DIRECT or PURE DIRECT mode.

### [Selectable items]

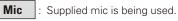
**ON** : Use room EQ.

**OFF** : Do not use room EQ.

### Mic Select

Select the microphone type if not using supplied mic. The microphone connected to V.AUX Lch is used.

### [Selectable items]



V.AUX L : Other mic connected to V.AUX is used.

# 

Only a professionally certified installer should ever connect a professionally-calibrated microphone to the V.AUX L input on the front panel.

### **3** Parameter Check

Check auto setup measurement results. This is displayed after the auto setup procedure is completed.

### [Items to be checked]

Speaker Config. Check	Distance Check
Channel Level Check	Crossover Freq. Check
EQ Check	

### ø

The auto setup results can be reset to what was originally calculated by MultEQ XT when "Restore" is selected.

Error messages (examples)	Cause	Measures
Auto Setup Audyssey MultEQ XT Caution! GMicrophone:None or Speaker :None	<ul> <li>Included setup microphone is not connected.</li> <li>Not all speakers could be detected.</li> </ul>	<ul> <li>Connect the included setup microphone to the SETUP MIC jack on the main unit.</li> <li>Check the speaker connections.</li> </ul>
Retry 4 Cancel 4 Auto Setup Audyssey MultEQ XT Caution!	<ul> <li>Too much noise in the room for accurate measurements to be made.</li> </ul>	<ul> <li>Either turn off any device generating noise or move it away.</li> <li>Try again when the surroundings are quieter.</li> </ul>
too high or Level is too low. Retry↓ Cancel↓	<ul> <li>Speaker or subwoofer sound is too low for accurate measurements to be made.</li> </ul>	<ul> <li>Check the speaker installation and the direction in which the speakers are facing.</li> <li>Adjust the subwoofer's volume.</li> </ul>
Auto Setup Audyssey MultEQ XT Caution! Cauce!	<ul> <li>Displayed speaker could not be detected.</li> <li>The front L and front R speakers were not properly detected.</li> <li>Only one channel of the surround speakers was detected.</li> <li>Sound was output from the R channel when only one surround back speaker was connected.</li> <li>The surround back speaker was detected, but the surround speaker was not detected.</li> </ul>	
Auto Setup Audyssey MultEQ XT Caution! Cautio! Cautio	<ul> <li>Displayed speaker connected with the polarities reversed.</li> </ul>	<ul> <li>Check the polarities of the displayed speaker.</li> <li>For some speakers, this error message may be displayed even if the speaker is properly connected. If you are sure that the wiring is correct, select "Skip".</li> </ul>

Select "Retry" to make the measurements again.

**NOTE** Be sure to turn the power off before checking the speaker connections.

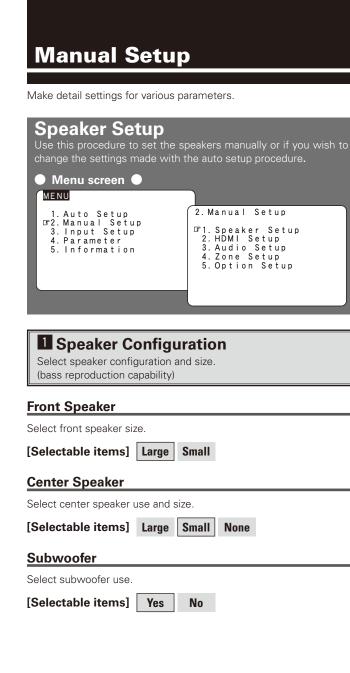
Information

Troubleshooting

**Getting Started** 

Connections

Setup



### Surround Speaker

Select surround speakers use and size.

[Selectable items] Large Small None

### Surround Back Speaker

Select surround back speaker use and size.



### NOTE

By default, the AVR-2808CI's "Amp Assign" setting is set to "ZONE2". To use as the surround back speaker for the main zone, change the "Amp Assign" setting (27 page 31).

- Large :Select this when using large speakers with ample low frequency reproduction capabilities.
- **Small** :Select this when using small speakers without ample low frequency reproduction capabilities.
- None :Select this when no speaker is connected.
- Yes :Select this when a subwoofer is connected.
- No :Select this when no subwoofer is connected.

### 2spkrs 1spkr

Select the number of surround back speakers.

# ø

- Select "Large" or "Small" not according to the physical size of the speaker but according to the low frequency reproduction capabilities based on the frequency set at "Crossover Frequency" (12) page 27).
- When "Front Speaker" is set to "Small", "Subwoofer" is automatically set to "Yes".
- If "Subwoofer" is set to "No", "Front Speaker" is automatically set to "Large".
- If "Surround Speaker" is set to "None", "Surround Back Speaker" are automatically set to "None".
- When using just one surround back speaker, connect it to the left channel (SBL).

# 2 Subwoofer Setup

Select low range signal to be reproduced by subwoofer.

### [Selectable items]

LFE : Play low range and LFE signal of channels set to "Small".

**LFE+Main** : Play low range and LFE signal of all channels.

# 

- This can be set when menu "Speaker Configuration" "Subwoofer" is set to "Yes".
- Play music or a movie source and select the mode offering the strongest bass.
- Select "LFE+Main" if you want the bass signals to always be produced from the subwoofer.

# **3** Distance

Set distance from listening position to speakers. Before making the settings, measure the distance from the listening position to the different speakers.

### Feet / Meters

Select unit for distance.

### Step

Select step. (smallest distance)

### [Selectable items]

1ft	0.1ft	: Can be selected when "Feet" is set.
1		

**0.1m 0.01m** : Can be selected when "Meters" is set.

### Default

Resets the settings to the default values.

### **Distance measurement**

Select the speaker you want to set, then set the distance. Set the value closest to the measured distance.

### [Variable range]

0.0ft ~ 60.0ft : Display when "Feet" is set.

0.00m ~ 18.00m : Display when "Meters" is set.

# NOTE

Set the distance between the listening position and the various speakers to no more than 20.0 ft (6.00 meters).

# 4 Channel Level

Adjust channel levels to obtain equal volume from all speakers.

### Test Tone

Select test tone playback method.

### [Selectable items]

- Auto : Automatically switch speaker from which test tone is output.
- **Manual** : Manually switch speaker from which test tone is output.

# Test Tone Start

Output test tone.

[Variable range] -12dB ~ OdB

### Default

Resets the settings to the default values.

# **Operating from the main remote control unit**

+12dB

Adjusting with the main remote control unit using the test tones is only possible in the "Auto" mode and only effective in the STANDARD mode. The adjusted levels for the different modes are automatically stored in the memory.

### [Adjusting using test tones]

- ① Press the **TEST** button.
- Test tones are output from the various speakers.
- ② Use the ⊲ ▷ button to adjust so that the volume is equal for all speakers.
- ③ When the adjustments are completed, press the **TEST** button again.

- When the menu "Speaker Configuration" "Surround Back Speaker" setting (1277 page 26) is set to "1spkr", the surround back speaker display is set to "Surround Back Sp.".
- Speakers set to "None" in the "Speaker Configuration" settings are not displayed.
- When "Channel Level" is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see page 48.

# **5** Crossover Frequency

Select crossover frequency from which subwoofer handles low range signal.

### [Selectable items]

40Hz	60Hz	80Hz	90Hz	100Hz	110Hz	120Hz	150Hz
	07011						

### 200Hz 250Hz

Only the portion of the bass sound of the various speakers output from the subwoofer that has a frequency below the frequency set here is output.

Set this according to the low frequency reproduction capabilities of the speakers you are using.

### Advanced

Set the crossover frequency separately for the different speakers.

# ø

- The "Crossover Frequency" can be set when there are speakers that have been set to "Small" at menu "Speaker Configuration" or when "Subwoofer" is set to "Yes" (127) page 26).
- If in the "Advanced" settings, "Subwoofer Setup" in the menu is set to "LFE", it is possible to make this setting for speakers set to "Small" at "Speaker Configuration". If set to "LFE+Main", this setting can be made regardless of the speaker size.
- For speakers set to "Small", sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers.
- Always set the crossover frequency to "80 Hz". When using small speakers, however, we recommend setting the crossover frequency to a higher frequency.

# HDMI Setup

Make settings for HDMI video/audio output.

### Menu screen

2.Manual Setup	
1. Speaker Setup IP2. HDMI Setup 3. Audio Setup 4. Zone Setup 5. Option Setup	2-2.HDMI Setup GP1.HDMI Audio Setup 2.HDMI Video Setup

# 1 HDMI Audio Setup

Make settings for HDMI audio output.

### HDMI Audio Out

Select HDMI audio output device.

### [Selectable items]

AMP : Use speakers connected to receiver for audio playback.

TV : Use speakers of monitor for audio playback.

### Auto Lipsync

Automatic compensation for timing shift in audio and video output.

### [Selectable items]



**OFF** : Do not use automatic compensation.

27

**Getting Started** 

Connections

Setup

Playback

# **2 HDMI Video Setup**

Make settings for HDMI video output.

### i/p Scaler

Make settings for i/p scaler function.

### [Selectable items]

**A to H** : Use i/p scaler function for analog video signal.

: Do not use i/p scaler function.

### Resolution

OFF

Make settings for resolution of HDMI video output signal.

### [Selectable items]

Auto

Detect monitor panel resolution and automatically set output resolution.

480p/576p : Output at 480p/576p resolution.

1080i Output at 1080i resolution.

Output at 720p resolution. 720p

1080p : Output at 1080p resolution.

This can be set when "i/p Scaler" is set to "A to H".

### 

- It is not possible to convert "1080i" signals into "720p" format.
- It is not possible to convert "720p" signals into "1080i" format.

### **Progressive Mode**

Select optimum progressive mode for video material.

### [Selectable items]



Automatically detect video material type. Video1 : Select mode suitable for video playback.

Video2 : Select mode suitable for video and 30-frame film material playback.

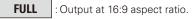
### Ó

This can be set when "i/p Scaler" is set to "A to H".

### Aspect

### This sets the aspect ratio when outputting 480i/576i or 480p/576p input signals from the HDMI output connector.

### [Selectable items]



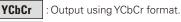
**NORMAL** : Output at 4:3 aspect ratio.

This can be set when "i/p Scaler" is set to "A to H".

### **Color Space**

Make settings for output color space.

### [Selectable items]



RGB : Output using RGB format.

When connected to a monitor with a DVI-D connector (HDCP compatible) using an HDMI/DVI converter cable, the signals are output in RGB format, regardless of this setting.

### **RGB** Range

Make settings for RGB output range.

### [Selectable items]

Normal Use video range from 16 (black) to 235 (white).

**Enhanced**: Video range from 0 (black) to 255 (white). Use this setting to avoid black washout.

# Audio Setup

С

Make settings for audio playback

Menu screen 🕒	
2.Manual Setup	
1. Speaker Setup 2. HDMI Setup ⊡73. Audio Setup 4. Zone Setup 5. Option Setup	2-3. Audio Setup IT1. EXT. IN SW Let 2. 2ch Direct/S 3. Dolby Digita 4. Auto Surround 5. Manual EQ

# **1** EXT. IN Subwoofer Level

Set the subwoofer level for playback.

### [Selectable items]

0dB	+5dB	+10dB

Select according to the player in use.

+15dB

This is the recommended level.

# 2 2ch Direct/Stereo

Make speaker settings for 2-channel mode playback.

### Setting

To change the settings, select "Custom".

### [Selectable items]

Basic Use the same settings as in "Speaker Setup".

**Custom** : Make separate settings for 2-channel mode.

Level t/Stereo ital Setup ound Mode

**Getting Started** 

Connections

Setup

Playback

### Front

**Getting Started** 

Connections

Setup

Playback

Select front speaker size.

### [Selectable items]

Large Small : Select front speaker size.

### Subwoofer

Select subwoofer use.

### [Selectable items]

|--|

No : Select subwoofer use.

### Subwoofer Mode

Select low range signal to be reproduced by subwoofer.

### [Selectable items]

LFE LFE+Main : Select subwoofer signal.

### Crossover

Select crossover frequency from which subwoofer handles low range signal.

### [Selectable items]

 40Hz
 60Hz
 80Hz
 90Hz
 100Hz
 110Hz
 120Hz
 150Hz

200Hz 250Hz : Select crossover frequency.

### Distance FL

Set distance from listening position to front left speaker.

[Variable range] 0.0ft ~ 60.0ft

### **Distance FR**

Set distance from listening position to front right speaker.

[Variable range] 0.0ft ~ 60.0ft

### **3** Dolby Digital Setup

Set dynamic range for downmix playback of Dolby Digital sources.

### [Selectable items]



: Compression is used. Select this if sound from front speakers is distorted.

**OFF** : Do not use compression. This is the recommended setting.

- Set this to "ON" if the sound from the front speakers seems distorted.
- When not using the center speaker or surround speakers, the playback sound is down-mixed and output from the front speakers.

# 4 Auto Surround Mode

Make setting for memorizing surround mode setting for each input signal type.

### [Selectable items]

- **ON** : Memorize settings. Most recently stored surround mode is automatically selected.
- **OFF** : Do not memorize settings. Surround mode does not change according to input signal.

### ø

- The auto surround mode function lets you store in the memory the surround mode last used for playing the four types of input signals listed below.
- 1 Analog and PCM 2-channel signals
- (2) Dolby Digital and DTS 2-channel signals
- (3) Dolby Digital and DTS multi-channel signals
- ④ Multi-channel signals other than Dolby Digital and DTS (PCM, DSD, etc.)
- When playing in the PURE DIRECT mode, the surround mode does not change even if the input signal is changed.

### 5 Manual EQ

Adjust tonal quality for each speaker using graphic equalizer.

### Base Curve Copy

Copy the Room EQ's "Audyssey Flat" correction curve.

### [Selectable items] Yes

### 

"Base Curve Copy" is displayed after the auto setup procedure has been performed.

### Adjust CH

Select speaker adjustment method.

### [Selectable items]

Each CH	: Adjust tonal	quality for	each speaker	separately.
---------	----------------	-------------	--------------	-------------

- L/R CH : Adjust tonal quality for each L/R speaker pair.
- ALL CH : Adjust tonal quality for all speakers together.

### Manual EQ

Select the speaker and frequency band and adjust the level.

Selectable items]	63Hz	125Hz	250Hz	500Hz	1kHz
	2kHz	4kHz	8kHz	16kHz	
Variable range]	-20dB	~ 00	iB ~	+6dB	

### Default

Resets the settings to the default values.

### **Zone Setup** Make settings for audio playback in a multi-zone system. Menu screen 2. Manual Setup 2-4. Zone Setup 1. Speaker Setup 2. HDMI Setup 3. Audio Setup IT1. ZONE2 Setup **G**4. Zone Setup 2. ZONE3 Setup 5. Option Setup **1** ZONE2 Setup Make settings for audio playback in a ZONE2 system. **2** ZONE3 Setup Make settings for audio playback in a ZONE3 system. Bass Adjust low frequency range (bass). [Variable range] -10dB ~ 0dB +10dB ~ Treble Adjust high frequency range (treble). [Variable range] -10dB ~ 0dB +10dB HPF When using speakers that cannot satisfactorily play low frequencies, distortion of the bass sound can be reduced by setting "HPF" to "ON".

### [Selectable items]



: The low range is not attenuated.



: The low range is attenuated.

### Lch Level

Adjust the	left channel	output level.

[Variable range]	-12dB	~	0dB	~	+12dB
------------------	-------	---	-----	---	-------

### Rch Level

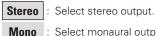
Adjust the right channel output level.

[Variable range] -12dB 0dB

### Channel

Switch between stereo and mono output.

### [Selectable items]



: Select monaural output.

### 

When menu "Manual Setup" - "Option Setup" - "Amp Assign" (CP page 31) is set to ZONE2/3-MONO," the "Channel" setting is automatically set to "Mono".

~

+12dB

### Volume Level

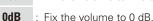
Adjust the main volume level.

### [Selectable items]

VAR Allow volume adjustment by remote control.



: Fix the volume to -40 dB.



( )

"VAR" is displayed when a power amplifier is assigned to the ZONE2 output channel at menu "Manual Setup" - "Option Setup" - "Amp Assign" (B page 31).

### Volume Limit

Make a setting for maximum volume.

### [Selectable items]

- OFF Do not set a maximum volume.
- -20dB Set the maximum volume to -20 dB.
- -10dB Set the maximum volume to -10 dB.
- 0dB : Set the maximum volume to 0 dB.

### **Power On Level**

Define the volume setting that is active when the power is turned on.

### [Selectable items]

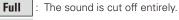
Last Use the memorized setting from the last session. Always use the muting on condition when power \_\_\_ is turned on.

-70dB ~ +18dB Set the volume level when the power is turned on in units of 1 dB.

### Mute Level

Set the amount of attenuation when muting is on.

### [Selectable items]



- -40dB : The sound is attenuated by 40 dB.
- -20dB : The sound is attenuated by 20 dB.

**Getting Started** 

# 30

### **Option Setup**

Make various other settings.

● Menu screen ●	
2. Manual Setup	
1. Speaker Setup 2. HDM1 Setup 3. Audio Setup 4. Zone Setup ☞5. Option Setup	2-5. Option Setup P1. Amp Assign 2. Vol. Control 3. Source Delete 4. On Screen Display 5. Quick Select Name 6. Trigger Out 7. Remote ID Setup 8. 2Way Remote 9. Display 10. Setup Lock

# 1 Amp Assign

Define how the amplifier for the surround back speaker channels is used.

The places where the surround back amplifier are used can be set freely according to the usage environment. This makes it possible to output sound to rooms other than the room (the main zone) where surround playback is performed (multi-zone playback) or play the sound with high quality using the front speakers (bi-amp connections).

### [Selectable items]

7.1ch	ZONE2	ZONE3	ZONE2/3-MONO	FrontA Bi-Amp
FrontB E	Bi-Amp	2ch		

# P

For details, see "Amp Assign / Multi-zone Connections and Operations" (CP page 57 ~ 59).

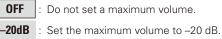
### **2** Volume Control

Set the main zone volume setting.

### Volume Limit

Make a setting for maximum volume.

### [Selectable items]



- -10dB : Set the maximum volume to -10 dB.
- **0dB** : Set the maximum volume to 0 dB.

### Power On Level

This sets the volume set when the main zone's power is turned on.

### [Selectable items]



- Use the memorized setting from the last session.
- Always use the muting on condition when power is turned on.
- -80dB ~ +18dB Set the volume level when the power is turned on in units of 1 dB.

### Mute Level

This sets the amount of attenuation of the volume when the mute mode is set in the main zone

### [Selectable items]



- **Full** : The sound is cut off entirely.
- -40dB : The sound is attenuated by 40 dB.
- -20dB : The sound is attenuated by 20 dB.

### **3** Source Delete

Remove input sources that are not used from the display.

### [Selectable items]

**ON** : Use this source.

**Delete** : Do not use this source.

### 

- Input sources being used in the various zones cannot be deleted.
- Input sources set to "Delete" cannot be selected using the SOURCE SELECT knob on the main unit or SOURCE SELECT button on the remote control unit.

# **4** On-Screen Display

Make on-screen display related settings.

### Screensaver

Make screensaver settings.

Use the screensaver to prevent burn-in on the monitor screen. When set to "ON" the screensaver is activated if there is no activity for about 3 minutes.

### [Selectable items]

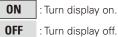
ON : Activate the screensaver if there is no activity for about 3 minutes.

OFF : Turn the screensaver function off.

### Text

Input source and mode display.

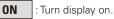
### [Selectable items]



### Master Volume

Master volume display during adjustment.

### [Selectable items]



**OFF** : Turn display off.

31



Multi-Zone

Information

Troubleshooting

### **Tuner Information**

This sets the time the on-screen display is displayed when an operation is performed.

### [Selectable items]

Always : Show display continuously.

Show display for 30 seconds after operation. 30sec

10sec : Show display for 10 seconds after operation.

OFF : Turn display off.

### iPod Information

This sets the time the on-screen display is displayed when an operation is performed.

### [Selectable items]

Always : Show display continuously.

30sec

Show display for 30 seconds after operation.

10sec : Show display for 10 seconds after operation.

OFF : Turn display off.

### **Display Mode**

Select the on-screen display's display mode.

### [Selectable items]

|--|

: If there is no video signal, flickering of the on-screen display is not prevented.

**Mode2** : Prevents flickering of the on-screen display when there is no video signal. Use this mode if the on-screen display does not appear

in the Mode 1, as may happen according to the TV being used.

# 5 Quick Select Name

Change the Quick Select name. Up to 16 characters can be input.

### [Input characters]

A~Z a~z 0~9 !#%&'()\*+,-./:;="?@[\](space)

# 6 Trigger Out

Select the conditions to turn on the trigger out with respect to the zone, input source, surround mode. For details about the trigger out function, see page 19.

Select "Trigger Out 1" or "Trigger Out 2" and make the settings below respectively.

### Selecting the Zone

Select the zone for which the trigger out is set.

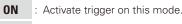
### Setting with Respect to the Input Source

When the input source set to on is selected, the trigger out turns on.

### Setting with Respect to the Surround Mode

- When the surround mode set to on is selected, the triager out turns on.
- Associated with respect to surround modes that are set to "ON".
- This can be set if the "MAIN ZONE" is selected at "Selecting the Zone".
- Associated when an input source for which "Setting with Respect to the Input Source" is set to "ON" is selected.

### [Selectable items]



--- : Do not activate trigger on this mode.

# 7 Remote ID Setup

Set remote control ID. Match the ID setting of the remote control unit and the receiver.

### [Selectable items]



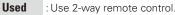
Match the ID setting of the remote control and the receiver.

When changing the remote ID, also change the AMP, iPod and TU modes of the main remote control unit at the same time (rappage 54).

# 8 2Way Remote

Make setting for 2-way remote control unit.

### [Selectable items]





**Not Used** : Do not use 2-way remote control

When using a 2-way remote control unit (RC-7000Cl and RC-7001RCl, sold separately), set this to "Used".

# <sup>9</sup> Display

Adjust display brightness of the receiver.

### [Selectable items]

- **Bright** : Normal display brightness.
- Reduced display brightness. Dim
- Dark : Very low display brightness.
- OFF : Display is off unless controls are operated.

### Operating from the main unit

Press the **DIMMER** button.



# D Setup Lock

Protect settings from inadvertent change.

### [Selectable items]

ON	: Turn protection on.

**OFF** : Turn protection off.

• When "Setup Lock" is set to "ON", the settings listed below can no longer be changed. Also, "SETUP LOCKED!" is displayed if you attempt to operate related buttons.

- $\cdot\,$  Menu operations
- $\cdot$  RESTORER

A

- · Night Mode
- · Parameter
- · Room EQ
- · Channel Level
- $\cdot\,$  Audio Delay
- To cancel the setting, press the **MENU** button to re-display the "Setup Lock" screen, then change the setting to "OFF".

# **Input Setup**

Use this procedure to select the input source and make the settings related to playing input sources.

### □ TUNER (AM/FM)

This menu is for "TUNER".

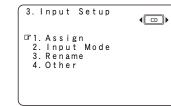
### Menu screen ●

_						
	3. I	npu	t	Sε	tup	
	2. 3. 4. 5.	Pre Pre	s e s e u t an	et et : N ne	etup Skip Name Iode	

### □ CD, DVD, HDP, TV/CBL, SAT, VCR, DVR, V.AUX

This menu is for "CD", "DVD", "HDP", "TV/CBL", "SAT", "VCR", "DVR", "V.AUX".

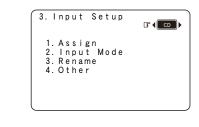
### Menu screen ●



\* The menu settings below can be made for these input sources when "iPod dock" is set to "Assign".

3. Input Setup	<b>√</b> VCR <b>→</b> 3-5. i P o d	
1. Assign 2. Input Mode 3. Rename 4. Other	<b> ⊡ R</b> e p e a t	: ( OFF )
☞5. iPod	Shuffle	: • OFF •

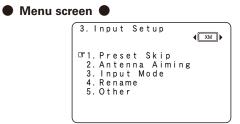
### Changing the input source within Input Setup



The input source currently selected in the main zone is not changed even when the input source within Input Setup is changed.



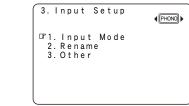
This menu is for "XM".



### PHONO

This menu is for "PHONO".

### Menu screen ●



**Getting Started** 

Connections

Setup

# Settings Related to Playing Input Sources

# **Auto Preset**

Use the auto preset function to program radio stations.

# [Input source] TUNER

# [Selectable items]

**Start** : Start the auto preset process.

# **~**

If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.

# Preset Skip

Set the preset memories that you do not want to display when tuning.

# <u>A ~ G</u>

Select the preset channel(s) you do not want to display.

[Input source] | TUNER | XM

Display this number.

# [Selectable items]

ON

Skip : Skip this number.

# **Preset Name**

Assign name to a preset memory. Names containing up to 8 characters can be input.

# <u>A1 ~ G8</u>

Select the preset memory number.

[Input source] TUNER

# [Characters that can be input]

A~Z a~z 0~9 !#%&'()\*+,-./:;="?@[\](space)

# Input Mode

Make input mode and decode mode settings for this source. The selectable input modes depend on the input source and "Assign" setting (@page 35).

# Input Mode

Set the input mode for this source.

[Input source] TUNER PHONO

# [Selectable items]

- **Analog** : Play only signals from analog input.
- $\ensuremath{\textbf{EXT. IN}}$  : Play only signals from EXT. IN input.

# [Input source] XM

# [Selectable items]

- Auto : Automatically detect input signal and perform playback.
- **EXT. IN** : Play only signals from EXT. IN input.

nput source]	CD DVD	HDP	TV/CBL	SAT	VCR	DVR	
	V.AUX						

# [Selectable items]

- Auto : Automatically detect input signal and perform playback.
- **HDMI** : Play only signals from HDMI input. Excluding CD.
- **Digital** : Play only signals from digital input.
- **Analog** : Play only signals from analog input.
- **EXT. IN** : Play only signals from EXT. IN input.

# *.*

[In

• When a digital signal is properly input, the "DIG." indicator lights on the display. If the "DIG." indicator does not light, check the digital input connector assignment and the connections.

 $\bullet$  The surround mode cannot be set if the input mode is set to "EXT. IN".

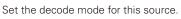
# Operating from the main unit or main remote control unit

Press the **INPUT MODE** button on the main unit or the **INPUT** button on the main remote control unit.



- \*1: This can be selected for input sources for which the menu "Assign" setting is set to "HDMI" (127 page 35). Excluding CD.
- \*2: This can be selected for input sources for which the menu "Assign" setting is set to "Digital" (12) page 35).

# Decode Mode





# [Selectable items]

Auto	: Detect	type c	f digital	input	signal	and	decode	and	play
	automa	itically.							

- **PCM** : Decode and play only PCM input signals.
- **DTS** : Decode and play only DTS input signals.

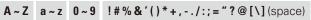
# 6

- This can be selected for input sources for which the menu "Assign" setting is set to "HDMI" or "Digital" (@ page 35).
- Only set "PCM" and "DTS" when playing the respective signals.

# Rename

Change the display name for this source. Names containing up to 8 characters can be input.

# [Characters that can be input]



on	tting Started
enu ).	Connections
enu	Setup
_	Playback
8	Remote Con
olay	ontrol
	Multi-Zone
gn"	Information
	Troubleshooting

# Assign

Assign input sources to input connectors.

# HDMI

Select HDMI connector to assign to this source.



# 1 : Assign HDMI1 input connector.

2 : Assign HDMI2 input connector.

**None** : No HDMI input connector assigned.

Input source	DVD	HDP	TV/CBL	SAT	VCR	DVR	V.AUX
Default setting	HDMI1	HDMI2	None	None	None	None	None

# **6**

- With HDMI, the video and audio signals are transferred simultaneously. If you want to play the video signal assigned at "HDMI In" together with the audio signal assigned at "Digital In", set "Input Mode" on the menu to "DIGITAL" (127 page 34).
- When the AVR-2808CI and monitor are connected with an HDMI cable, if the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor.
- The audio signals input from the analog, digital and EXT. IN connectors are not output to the monitor.

# **Digital In**

Select digital input connector to assign to this source.



# [Selectable items]

- **COAX1** : Assign COAXIAL 1 input connector.
- **COAX2** : Assign COAXIAL 2 input connector.
- **COAX3** : Assign COAXIAL 3 input connector.
- **OPT1** : Assign OPTICAL 1 input connector.
- **OPT2** : Assign OPTICAL 2 input connector.
- **OPT3** : Assign OPTICAL 3 input connector.
- **OPT4** : Assign OPTICAL 4 input connector.
- **None** : No digital input connector assigned.

Input source	CD	DVD	HDP	TV/CBL	SAT	VCR	DVR	V.AUX
Default	COAX	COAX	None	COAX	OPT	OPT	OPT	0PT
setting	3	1		2	1	3	2	4

# **Component In**

# Select component video input to assign to this source.

[Input source]	DVD HDP	TV/CBL	SAT	VCR	DVR
	V.AUX				

# [Selectable items]

- **1-RCA** : Assign component video 1 input connector.
- **2-RCA** : Assign component video 2 input connector.
- **3-RCA** : Assign component video 3 input connector.
- **None** : No component video input connector assigned.

Input source	DVD	HDP	TV/CBL	SAT	VCR	DVR	V.AUX
Default setting	1-RCA	2-RCA	3-RCA	None	None	None	None

# iPod dock

Assign Control Dock for iPod to this source.

[Input source] CD DVD HDP TV/CBL SAT VCR DVR V.AUX

# [Selectable items]

- **Assign** : Assign iPod input.
- **None** : Do not assign iPod input.

# ø

- With the default settings, the Control Dock for iPod can be used connected to the VCR (iPod) connector.
- Even if "iPod dock" is set to "Assign", if the AVR-2808CI is not connected to a Control Dock for iPod, the input source can be used as the normal input source.

# iPod

Make settings for "iPod" playback.

# [Input source] CD DVD HDP TV/CBL SAT VCR DVR V.AUX

# Repeat

Make settings for repeat mode.

# [Selectable items]

- All : Repeat all songs.
- **One** : Repeat the current song.
- **OFF** : Cancel repeat mode.

**Getting Started** 

Connections

# Shuffle

Make settings for shuffle mode.

## [Selectable items]

Songs : Shuffle all songs.

Albums	: Shuffle songs from current album only
--------	---

**OFF** : Cancel shuffle mode.

# ø

This can be selected for input sources for which "Assign" is assigned at the "iPod dock" setting.

# Other

Make various other settings.

# Video Select

Switch video input source while listening to audio signal.

# [Selectable items]

DVD HDP TV/CBL SAT VCR DVR V.AUX :

Select video input source to view.

Source

The video and audio for the same input source are played.

# C Operating from the main unit

Press the **VIDEO SELECT** button, then turn the **SOURCE SELECT** knob until the desired picture appears.

\*\* To cancel, press the main unit's VIDEO SELECT button, then turn the main unit's SOURCE SELECT knob and select "Source".

# NOTE

- It is not possible to select HDMI input signals.
- When playing HDMI video input signals, the analog video signal of another input source cannot be selected for the HDMI video output.
- Input sources for which "Delete" is selected at "Source Delete" cannot be selected.

# Video Convert

Automatically convert video input signal to monitor output format.
[Input source] DVD HDP TV/CBL SAT VCR DVR

# V.AUX

# [Selectable items]



**OFF** : Disable conversion.

# NOTE

When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. If this happens, please set the conversion mode to "OFF".

# Source Level

Corrects the playback level of the selected input source's audio input.

# [Variable range] -12dB ~ 0dB ~ +12dB

For input sources for which "HDMI" or "Digital" are set at the menu "Assign" setting, the analog input level and digital input level can be set separately.

# **Antenna Aiming**

Adjust the XM radio reception sensitivity.

[Input source] XM

# Satellite

Indicate satellite signal strength.

# Terrestrial

Indicate terrestrial signal strength.

Display	Condition		
	Signal strength is strong		
	Signal strength is good		
	Signal strength is marginal		
	Signal strength is weak		
	No signal		

# **Surround Modes**

# **Standard Playback**

This is the standard mode for enjoying surround sound according to the program source.

# **Surround Playback of 2-channel Sources**

To select these surround modes using the buttons on the main unit and main remote control unit, press the **STANDARD** button. The mode switches each time the button is pressed.

 $\hfill\square$  When using a surround back speaker

[Selectable items]	DOLBY PLIIx	DTS NEO:6	neural

# When not using a surround back speaker

[Select	table ite	ms] DOLBY PLII	DTS NEO:6	neural			
DOLBY or DOLE		:The signals are of DOLBY PLII for pla		OLBY PLIIx or			
	Cinema	: This mode is suited for movie sources.					
	Music	: This mode is suite	d for music so	urces.			
	Game	: This mode is suite	d for games.				
L <b>→</b> P	Pro Logic	: This is the Pro Logic playback mode. This can be selected when playing with a DOLBY PLII decoder. When this mode is selected, "DOLBY PL" is displayed.					
DTS M	NEO:6	: The signals are playback.	decoded in D	TS NEO:6 for			
	Cinema	: This mode is suite	d for movie so	urces.			
• Music : This mode is suited for music sources.							
neu	ıral	: It is possible to p PCM (2-channel, 4 mode.	, ,	0			
		This is the optimu	im mode for p	plaving sources			

This is the optimum mode for playing sources recorded in XM HD Surround (127 page 63).

**Getting Started** Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting Multi-Zone

Information

Troubleshooting

Select the "Cinema", "Music", "Game" and "Pro Logic" modes at menu "Parameter" – "Surround Parameter" – "MODE" (1) page 38).

# **Playing Multi-channel Sources** (Dolby Digital, DTS, etc.)

#### [Selectable items]

# **STANDARD**

This mode is for decoding the input signals according to their format and playing surround sound.

The display when the STANDARD mode is selected depends on the input signal and surround back output playback mode.

Inp	out signal	Display
	DOLBY DIGITAL (other than 2ch) /	DOLBY DIGITAL DOLBY DIGITAL EX
Dolby Digital	DOLBY DIGITAL EX	DOLBY DIGITAL+PLIIx CINEMA DOLBY DIGITAL+PLIIx MUSIC
Source	DOLBY DIGITAL Plus	DOLBY DIGITAL +
	DOLBY TrueHD	DOLBY TrueHD
	DTS (5.1ch) /	DTS SURROUND
	DTS-ES Discrete	DTS+PLIIx CINEMA
	6.1 / DTS-ES Matrix 6.1 /	DTS+PLIIx MUSIC
		DTS+NEO:6
DTS		DTS ES MTRX6.1 (*1)
Surround		DTS ES DSCRT6.1 (*2)
Source	DTS 96/24	DTS 96/24 (*3)
	DTS-HD High Resolution Audio	DTS-HD HI RES
	DTS-HD Master Audio	DTS-HD MSTR
DVD-		MULTI CH IN
	PCM (multi ch) /	MULTI IN+PLIIx CINEMA
Audio,	DSD (multi ch)	MULTI IN+PLIIx MUSIC
SACD		MULTI CH IN 7.1

\*1: This is displayed when the input signal is "DTS-ES Matrix 6.1" and the AVR-2808CI's "AFDM" setting is set to "ON".

- \*2: This is displayed when the input signal is "DTS-ES Discrete 61"
- \*3: This is displayed when the input signal is "DTS 96/24".

# For details, see page 66.

# **DSP Simulation Playback**

The desired mode according to the program source and viewing situation can be selected from among 10 DENON original surround

The surround parameters can be adjusted (127 page 64, 65) to achieve an even more realistic, powerful sound field.

## [Selectable items]

Ó

7CH STEREO	: This mode is for enjoying stereo sound from all speakers.
WIDE SCREEN	: This mode is for enjoying the atmosphere of viewing a movie on a large screen.
SUPER STADIUM	: This mode is suited for viewing sports programs.
<b>ROCK ARENA</b>	: This mode is for enjoying the atmosphere of a live concert in an arena.
JAZZ CLUB	: This mode is for enjoying the atmosphere of a live concert in a jazz club.
CLASSIC CONCERT	: This mode is for appreciating classical concert programs.
MONO MOVIE *	: This mode is for playing monaural movie sources with surround sound.
VIDEO GAME	: This mode is suited for achieving surround sound with video games.
MATRIX	: This mode lets you add a sense of expansion to stereo music sources.
VIRTUAL	: This mode is for enjoying surround effects using only the front speakers or headphones.

- \*: When playing sources recorded in monaural in the MONO MOVIE mode, the sound will be off balance with a single channel (left or right), so input to both channels.
- To select these surround modes using the buttons on the main remote control unit, press the **SIMU** button. The mode switches each time the button is pressed.
- Depending on the program source being played, it may not be possible to achieve a satisfactory surround effect. In this case, try other modes to achieve a sound field suited to your tastes.

# **Stereo Playback**

# [Selectable items]

# STEREO :

This is the mode for playing in stereo. The tone can be adjusted. Sound is output from the front left and right speakers and subwoofer.

# **Direct Playback**

# [Selectable items]

## DIRECT

In this mode the signals bypass the tone adjustment circuitry for high quality sound.

The sound is output to the same channels as the input signal. The display when the DIRECT mode is selected depends on the input signal.

For multi-channel sources, the display depends on the surround back output's play mode.

Input signal	Display
Analog signal /	
PCM (2ch) /	
Dolby Digital source /	DIRECT
DTS source /	
Other 2-channel digital signals	
DSD (2ch)	DSD DIRECT (*)
	MULTI CH DIRECT
PCM (multi ch)	M DIRECT + PLIIX CINEMA
	M DIRECT + PLIIX MUSIC
	M DIRECT 7.1
DSD (multi ch)	DSD MULTI DIRECT (*)

\* : When DSD signals are converted to PCM signals as set by the audio parameters and speaker settings, "DIRECT" or "MULTI CH DIRECT" is displayed.

For details, see page 67.

Ó

# **Playback in the PURE DIRECT Mode**

This is the mode that recreates the original sound most faithfully, providing extremely high quality sound.

# Press the **PURE DIRECT** button.

# ø

- When in the PURE DIRECT mode, the menu screen is not displayed and the display on the main unit is turned off.
- If the HDMI input connector is selected, video outputs are output in the PURE DIRECT mode.
- The channel level and surround parameters in the PURE DIRECT mode are the same as in the DIRECT mode.

# Parameter

Parameters can be called out directly by pressing the  $\ensuremath{\textbf{PARA}}$  button on the main remote control unit.

Men	u screen 🔵			
	4. Parame	eter		
		ound Paramet Control	er	
	3. Room 4. RESTO			
	5. Night 6. Audio			
🛛 🖬 Su	rround Parar	neter		
Adjust s	urround sound parai	meters.		
1	stable parameters o	differ for the diffe	erent surround n	nodes
( 🖙 pag	e 64, 65).			
MODE				
Select the	mode according to	the playback so	urce.	
	mode according to OLBY PLIIx mode	the playback so	urce.	
🖵 In the D		the playback so	urce. PLIIx MUSIC	
🖵 In the D	OLBY PLIIx mode			
□ In the D [Select	OLBY PLIIx mode			
□ In the D [Select	OLBY PLIIx mode able items]			
□ In the D [Select	OLBY PLIIx mode cable items] OLBY PLII mode	PLIIX CINEMA PLIIX GAME	PLIIx MUSIC	
<ul> <li>In the D</li> <li>[Select]</li> <li>In the D</li> <li>[Select]</li> </ul>	OLBY PLIIx mode cable items] OLBY PLII mode	PLIIX CINEMA PLIIX GAME PLII CINEMA	PLIIx MUSIC Plii Music	
<ul> <li>In the D</li> <li>[Select</li> <li>In the D</li> <li>[Select</li> <li>In the D</li> </ul>	OLBY PLIIx mode cable items] OLBY PLII mode cable items]	PLIIX CINEMA PLIIX GAME PLII CINEMA	PLIIX MUSIC Plii Music Dolby Pl	
<ul> <li>In the D</li> <li>[Select</li> <li>In the D</li> <li>[Select</li> <li>In the D</li> <li>[Select</li> </ul>	OLBY PLIIx mode able items] OLBY PLII mode able items] TS NEO:6 mode able items]	PLIIX CINEMA PLIIX GAME PLII CINEMA PLII GAME	PLIIX MUSIC PLII MUSIC DOLBY PL	es.
<ul> <li>In the D</li> <li>[Select</li> <li>In the D</li> <li>[Select</li> <li>In the D</li> <li>[Select</li> <li>CINEMA</li> </ul>	OLBY PLIIx mode able items] OLBY PLII mode cable items] TS NEO:6 mode cable items] : Surround sound r	PLIIx CINEMA PLIIx GAME PLII CINEMA PLII GAME CINEMA MU	PLII MUSIC PLII MUSIC DOLBY PL	
<ul> <li>In the D</li> <li>[Select</li> <li>In the D</li> <li>[Select</li> <li>In the D</li> <li>[Select</li> </ul>	OLBY PLIIx mode able items] OLBY PLII mode able items] TS NEO:6 mode able items]	PLIIX CINEMA PLIIX GAME PLII CINEMA PLII GAME CINEMA MU node optimized	PLII MUSIC PLII MUSIC DOLBY PL SIC for movie source	

PL : Dolby Pro Logic playback mode.

# <u> </u>

The MUSIC mode is also effective for movie sources including a lot of stereo music.

# **CINEMA EQ**

Soften the treble range of movie soundtracks for better understanding.

## [Selectable items]

- **ON** : CINEMA EQ is used.
- OFF : CINEMA EQ is not used.

# D.COMP

Compress dynamic range (difference between loud and soft sounds).

## [Selectable items]

- **OFF** : Turn dynamic range compression off.
- LOW : Low setting.

MID : Middle setting.

HIGH : High setting.

# **A**

When playing DTS sources, this is only displayed for compatible software.

# DRC

Compress dynamic range (difference between loud and soft sounds).

# [Selectable items]

AUT0	: Automatic dynamic according to source.	range	compression	on/off	control
LOW	: Low setting.				
MID	: Middle setting.				
шец	· High potting				

**HIGH** : High setting.

**OFF** : Dynamic range compression always off.

# 

This can be set in the Dolby TrueHD mode.

G	LFE	EFFECT	æ
Getting Started	Adjust the low-frequency effects level (LFE). [Variable range] -10dB ~ OdB	Switch effect signal for multi-surround speakers on and off. When "EFFECT" is set to "ON", a surround effect with a strong sense of expansion is achieved.	Some Dolby Digital EX sources do not include EX flags. If the playback mode does not switch automatically even when "AFDM" is set to "ON", set "SB CH OUT" to "MTRX ON" or "PLIIx CINEMA".
	<i>w</i>	[Selectable items] ON OFF	SB CH OUT (for Multi-channel sources)
Connections	For proper playback of the different program sources, we recommend setting to the values below.	LEVEL	Select playback mode for surround back channels.
ction	Dolby Digital sources: "0 dB"	Adjust effect signal level.	[Selectable items]
s Setup	<ul> <li>DTS movie sources: "0 dB"</li> <li>DTS music sources: "-10 dB"</li> </ul>	[Variable range] 1 ~ 10 ~ 15	<b>OFF</b> : No signal is played from the surround back channels.
up Playback	<b>CENTER IMAGE</b> Assign center channel signal to front left and right channels for wider sound.	Set to a lower level if the positioning and sense of phase of the surround signals seems unnatural.	NON MTRX       :       The same signals as those of the surround channels are output from the surround back channels.         MTRX ON       :       The surround channel signals undergo digital
	[Variable range] 0.0 ~ 0.3 ~ 1.0	ROOM SIZE	matrix processing and are output from the surround back channels.
Remote Control	PANORAMA	Determine size of acoustic environment.	<b>PLIIx CINEMA</b> * <sup>1</sup> : Decoded in Dolby Pro Logic IIx Cinema mode, surround back signal played.
ontrol	Assign front L/R signal also to surround channels, for wider sound. If the surround effect seems weak, set "PANORAMA" to "ON".	[Selectable items] small : Simulate acoustics of a small room.	<b>PLIIx MUSIC</b> *2 : Decoded in Dolby Pro Logic IIx Music mode, surround back signal played.
Multi-Zone	[Selectable items] ON OFF	med. s	<b>ES MTRX</b> * <sup>3</sup> : DTS signal played with digital matrix processing.
-Zone Information	DIMENSION         Shift sound image center to front or rear, to adjust playback balance.         [Variable range]       0       ~       6	medium         med. I         large         : Simulate acoustics of a large room.	<ul> <li><b>ES DSCRT</b></li> <li>*4 : Signal included in DTS-ES Discrete 6.1-channel sources played.</li> <li><b>DSCRT ON</b></li> <li>Mode for discrete playback of surround back signals included in 7.1-channel digital discrete audio signals (DVD, etc.).</li> </ul>
	<b>CENTER WIDTH</b> Assign center channel signal to front left and right channels for wider	<b>NOTE</b> "ROOM SIZE" does not indicate the size of the room in which sources are played.	*1: This can be selected when" Surround Back" is set to" 2spkrs" at the menu" Manual Setup" –" Speaker Setup" –" Speaker Configuration" setting (g page 26).
Troubleshooting	sound. [Variable range] 0 ~ 3 ~ 7	AFDM (Auto Flag Detect Mode)	*2: This can be selected when "Surround Back" is set to "2spkrs" or "1spkr" at the menu "Manual Setup" – "Speaker Setup" –
ng	DELAYTIME	Auto-select surround mode by source. This function only works for software containing a special identification signal.	"Speaker Configuration" setting. *3: This can be selected when playing DTS sources. *4: This can be selected when playing DTS sources including a
	Adjust delay time to control sound stage size.	If the software being played is recorded in Dolby Digital EX or DTS-ES, it is played in 6.1-channels. If not, it is played in 5.1-channels.	discrete 6.1-channel signal identification signal.
	[Variable range] 0 ms ~ 30 ms ~ 300 ms	[Selectable items] ON OFF	

Example : Playing Dolby Digital software (with EX flag) • When "AFDM" is set to "ON", the surround mode is automatically

• To play in the DOLBY DIGITAL EX mode, set "AFDM" to "OFF" and

set to the DOLBY D + PLIIx C mode.

"SB CH OUT" to "MTRX ON".

# SB CH OUT (for 2-channel sources)

Determine whether to use surround back speakers.

# [Selectable items]



: The surround back channel signal is played.





: The surround back channel signal is not played.

This operation can be performed directly pressing the **SURROUND BACK** button on the main unit.

# **SW ATT** (Subwoofer Attenuate)

Attenuate subwoofer level when using EXT. IN mode.

# [Selectable items]



- **ON** : The input from the subwoofer channel is attenuated.
  - : The input from the subwoofer channel is not attenuated. Usually use in this mode.

# 

Set this to "ON" if the subwoofer channel level seems too high when playing Super Audio CD.

# Subwoofer

Turn subwoofer output on and off.

# [Selectable items]

ON : The subwoofer is used.

OFF : The subwoofer is not used.

# Default

Resets the settings to the default values.

# 2 Tone Control Adjust the tonal quality of the sound.

# **Tone Defeat**

Turn tone adjustments off.

# [Selectable items]



- **ON** : Playback without tone adjustment.
- **OFF** : Allow tone adjustment (treble, bass).

# Ó

The tone cannot be adjusted when in the DIRECT mode.

# Bass

Adjust low frequency range (bass).

[Variable range] -6dB ~ +6dB

# Treble

Adjust high frequency range (treble).

[Variable range] -6dB ~ +6dB

"Bass" and "Treble" can be set when "Tone Defeat" is set to "OFF".

# **3** Room EQ

Select room equalizer for current environment.

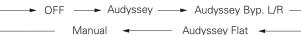
# [Selectable items]

Au

Audyssey	: Optimize frequency response of all speakers.
udyssey Byp. L/R	: Optimize frequency response of speakers except front L and R speakers.
Audyssey Flat	: Optimize frequency response of all speakers to flat response.
Manual	: Apply frequency response set with "Manual EQ" (2) page 29).
OFF	: Turn equalizer off.

# R Operating from the main unit or main remote control unit

Press the **ROOM EQ** button on the main unit or the **EQ** button on the main remote control.



# When "Audyssey" is selected, "MUDYSSEY " lights.

When "Audyssey Byp. L/R" or "Audyssey Flat" is selected, or when the auto setup measuring results have changed, "AUDYSSEY " lights.

ø

- "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" can be selected after the auto setup procedure has been performed.
- If the settings of the speakers for which "None" has been determined at "Auto Setup" are changed, "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" cannot be selected and measurements have to be taken again to include the newly-added speakers.
- When using headphones, "Room EQ" is always set to "OFF".

# **4** RESTORER

This function restores compressed audio signals to how they were before compression and corrects the sense of volume of the bass to obtain richer playback sound.

# [Selectable items]

OFF :

**Getting Started** 

Connections

Setup

Playback

**Remote Control** 

Do not use RESTORER.

# Mode1 (RESTORER 64):

Optimized mode for compressed sources with very weak highs.

# Mode2 (RESTORER 96):

Apply suitable bass and treble boost for all compressed sources.

# Mode3 (RESTORER HQ):

Optimized mode for compressed sources with normal highs.

The default setting for "iPod" is "Mode3". All others are set to "OFF".

# Operating from the main unit or main remote control unit

During playback, press the **RESTORER** button on the main unit or the **RSTR** button on the main remote control unit.

When set to something other than "OFF", "RESTORER" is displayed.



# About the RESTORER function

 Such compressed audio formats as MP3, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The RESTORER function generates the signals eliminated upon compression, restoring the sound to conditions near those of the original sound before compression. It also corrects the sense of volume of the bass to obtain richer sound with compressed audio signals.

 This is displayed on the menu and can be set when the input source is selected to "XM", or analog signals (including AM/FM signals) or PCM signals (fs = 44.1/48 kHz) are input.

# **5** Night Mode

Optimized setting for late-night listening.

# [Selectable items]



- LOW : Low setting.
- MID : Middle setting.
- HIGH : High setting.

# Provide the main remote control unit

# Press the **NGT** button.

The "  $\ensuremath{\text{NIGHT}}$  " indicator lights when "LOW", "MID" or "HIGH" is selected.

→ OFF -----> LOW ----> MID ----HIGH 🚽

# 6 Audio Delay

Compensate for mismatched timing between video and audio.

## Delay audio.

This sets the delay time for audio signals.

# [Variable range] 0 ms ~ 200 ms

If you wish to adjust the "Audio Delay" while playing HDMI or component video signals, press  $\Delta$  to set "OSD" to "OFF". This way the audio delay can be adjusted while watching the picture. (Press  $\Delta$  again to switch to the on-screen display.)

# Operating from the main unit or main remote control unit

- When set using the procedure below, the on-screen display is not displayed. Adjust while watching the display.
- ① Press the **AUDIO DELAY** button on the main unit or the **A. DL** button on the main remote control unit.

(2) Use the  $\triangleleft \triangleright$  button to set.

• This cannot be adjusted when playing in the EXT. IN, DIRECT or STEREO mode (with "Front Speaker" set to "Large", "Tone Defeat" to "ON" and "Room EQ" to "OFF".)

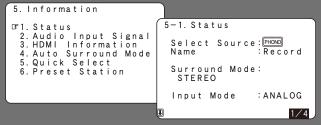
• The adjustment range is 0 to 100 ms when the Auto Lipsync Correction function is activated.

# Information

# Status

Shows information about current settings.

# 🔵 Menu screen 🔵



# 1 Main zone

Shows information about settings for main zone. The items displayed differ according to the input source.

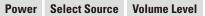
# [Items to be checked]

Select Sour	ce	Name	S	urround Mode	Input Mode
<b>Rec Select</b>	Vie	Video Select		Source Level	Room EQ
Night Mode	R	ESTORE	R	etc.	

# 2 ZONE2 / ZONE3

Shows information about settings for multi-zone.

# [Items to be checked]



# **Audio Input Signal**

Shows information about audio input signals.

#### 🕒 Menu screen 🔵

5. Information	
1. Status	5-2.Audio Input Signal
III 2. Audio Input Signal 3. HDMI Information 4. Auto Surround Mode 5. Quick Select	Surround Mode: DOLBY DIGITAL EX
6.Preset Station	SIGNAL:Dolby Digital fs :48kHz Format:3/2/.1 Offset:-4dB

## [Items to be checked]

Surround Mode	: The currently set surround mode is displayed.					
SIGNAL	: The input signal type is displayed.					
fs	: The input signal's sampling frequency is displayed.					
Format	: The number of channels in the input signal (front, surround, LFE) is displayed.					
Offset	: The dialogue normalization correction value is displayed.					
Flag	: "MATRIX" is displayed if the input signal has undergone matrix processing, "DISCRETE" if the					
	input signal has undergone discrete processing.					

# **Dialogue normalization function**

This is automatically activated when playing Dolby Digital sources. This function automatically corrects the standard signal level for individual program sources.

The correction value can be checked using the  $\ensuremath{\textbf{STATUS}}$  button on the main unit.



The figure is the correction value when the standard level is corrected.

#### **HDMI** Information **Quick Select** Shows information about HDMI input signal and monitor. Shows information about quick select settings. Menu screen 🔵 Menu screen 🔵 5. Information 5. Information 5-3. HDMI Signal Info. 5-5. Quick Select 1. Status 1. Status 2. Audio Input Signal 3. HDMI Information 2. Audio Input Signal 3. HDMI Information Resolution IT. Quick Select 1 480 n 4. Auto Surround Mode 4. Auto Surround Mode 2. Quick Select 2 5. Quick Select 🖙 5. Quick Select Color Space 3. Quick Select 3 6. Preset Station 6. Preset Station RGB 4:4:4 Pixel Depth 8 bits [Items to be checked] **1** HDMI Signal Information Name Input Source Input Mode Volume Level The HDMI input signal information is displayed. Analog/PCM 2CH Multi ch Digital 2CH Digital 5.1CH [Items to be checked] ø **Resolution Color Space Pixel Depth** For instructions on storing settings at Quick Select 1 to 3, see page 50. **2** HDMI Monitor Information **Preset Station** The HDMI monitor information is displayed. [Items to be checked] Menu screen Interface Support Resolution 5. Information 5-6. Preset Station 1. Status 2. Audio Input Signal A 1 FM 87.50 MHz 3. HDMI Information Auto Surround Mode A 2 FM 89.10 MHz 4. Auto Surround Mode A 3 FM 98. 10 MHz 5. Quick Select A 4 FM 1 0 7. 9 0 MHz F6. Preset Station Shows information about auto surround mode settings. A 5 FM 90.10 MHz The surround mode for which the last memory function was used A 6 FM 90. 10 MHz A7FM 90.10MHz for the different input signal types is displayed. \_A8FM 90.10MHz Menu screen 5. Information TUNER || XM [Input source] 5-4. Auto Surround Mode 1. Status 2. Audio Input Signal [Items to be checked] A1 ~ G8 [Analog] [PCM] 2CH: STEREO 3. HDMI Information **I**4. Auto Surround Mode 5. Quick Select ø [Multi ch] 6. Preset Station MULTI CH IN When the **STATUS** button on the main unit is pressed, the set's status [Digital] can be checked on the display. 20H:DOLBY PLIIx Cinema 5. 1CH: DOLBY/DTS SURROUND [Items to be checked]



Remote Control Multi-Zone Information Troubleshooting

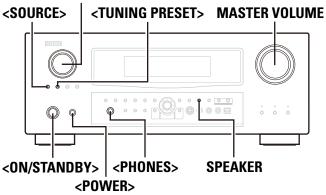
**Getting Started** 

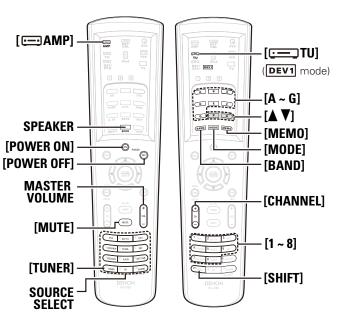
Connections

Setup

Playback

# SOURCE SELECT





## About the button names in these explanations

- < > : Buttons on the main unit
- [ ] : Buttons on the remote control unit

## Button name only:

Buttons on the main unit and remote control unit

# Playback

# **Preparations**

# **Turning the Power On**

# Press <**POWER**>.

The power indicator lights red and the power is set to the standby mode.

# • Press <ON/STANDBY> or [POWER ON].

Let The power indicator flashes green and the power turns on.

# ø

To operate the AVR-2808Cl using the main remote control unit, set the remote control unit to the AMP mode (Page 51 "Remote Control Unit Operations").

# Turning the Power Off

① Press <ON/STANDBY> or [POWER OFF].

The power is set to the standby mode.

2 Press <POWER>.

The power indicator turns off, and so does the power.

# NOTE

Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when traveling, either press **<POWER>** to turn off the power, or unplug the power cord from the power outlet.

# Selecting the input source

# Operation on the main unit

# Turn **<SOURCE SELECT>**.

If "Rec Select" or "Video Select" is selected for the input source, press **<SOURCE>** before turning **<SOURCE SELECT>**.

# Operation on the main remote control unit

**Press [SOURCE SELECT].** The desired input source can be selected directly.

# 

To operate the AVR-2808Cl using the main remote control unit, set the remote control unit to the AMP mode (Page 51 "Remote Control Unit Operations").

# **Operations During Playback**

# Adjusting the Master Volume

Either turn <MASTER VOLUME> or press [MASTER VOLUME].

# Turning Off the Sound Temporarily (Muting)

# Press [MUTE].

# Ø

To cancel, press **[MUTE]** again. Muting can also be canceled by adjusting the master volume.

# Listening with Headphones

# Plug the headphones into **<PHONES>**.

The sound from the speakers and pre-out connectors is automatically cut.

# NOTE

Be careful not to set the volume too high when using headphones.

# Switching the front speakers

# Press SPEAKER.





**Getting Started** 

Connections

Setup

# Playing Video and Audio Equipment

# **Basic Operation**

# Prepare the equipment.

①Load the DVD, CD or other software in the player.

- (2) To play a video device, switch the monitor input.
- (B See the monitor's operating instructions.)

# **2** To operate using the main remote control unit, set the remote control unit to the AMP mode.

(CP page 51 "Remote Control Unit Operations")

# **3** Use **SOURCE SELECT** to select the input source.

Start playback.
(IP) See the operating instructions of the respective devices.)

# Listening to FM/AM Broadcasts

# **Basic Operation**

- **1** Either turn **<SOURCE SELECT>** or press **[TUNER]** (AMP mode) to select "TUNER".
- **2** To operate using the main remote control unit, set the remote control unit to the TUNER ([DEV1]) mode.

**3** Press [BAND] to select "FM" or "AM".

**4** Tune in the desired broadcast station.

# 1 To tune in automatically (Auto Tuning)

Press [MODE] to light the "AUTO" indicator on the display, then use  $[\blacktriangle V]$  to select the station you want to hear.

# 2 To tune in manually (Manual Tuning)

Press [MODE] to turn off the display's "AUTO" indicator, then use  $[\blacktriangle V]$  to select the station you want to hear.

- It is also possible to switch to "FM" or "AM" in step 1 by pressing
- If the desired station cannot be tuned in with auto tuning, tune it in manually.
- $\bullet$  When tuning in stations manually, press and hold  $[\blacktriangle V]$  to change frequencies continuously.
- The time for which the menus are displayed can be set at menu "Manual Setup" "Option Setup" "On-Screen Display" (2) page 31, 32).

# Presetting Radio Stations (Preset Memory)

Your favorite broadcast stations can be preset so that you can tune them in easily. Up to 56 stations can be preset.

Tune in the broadcast station you want to preset.

# **2** Press [MEMO].

- **3** Press [A ~ G] to select the block in which the station is to be preset, then press [CHANNEL] or [1 ~ 8] to select
  - the preset number.
- $\ensuremath{\texttt{\#}}$  The memory block can also be selected by pressing [SHIFT].

# **4** Press [MEM0] again to complete the setting.

•

• To preset other stations, repeat steps 1 to 4.

• Stations can be preset automatically at menu "Input Setup" – "Auto Preset" (1277 page 34).

# NOTE

Preset stations are erased by overwriting them.

# Listening to Preset Stations

# **Operation on the Main Unit**

Press **<TUNING PRESET>**, then turn **<SOURCE SELECT>** to select the preset radio station.

# **Operation on the Main Remote Control Unit**

	Press	<b>[A</b>	~	G]	to	select	the	memory	block.
--	-------	-----------	---	----	----	--------	-----	--------	--------

# **2** Press [CHANNEL] or [1 ~ 8] to select the desired preset channel.

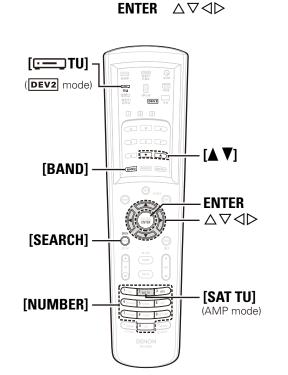
# Default settings

Auto tuner presets						
A1 ~ A8	87.5 / 89.1 / 98.1 / 107.9 / 90.1 / 90.1 / 90.1 / 90.1 MHz					
B1 ~ B8	520 / 600 / 1000 / 1400 / 1500 / 1710 kHz, 90.1 / 90.1 MHz					
C1 ~ C8	90.1 MHz					
D1 ~ D8	90.1 MHz					
E1 ~ E8	90.1 MHz					
F1 ~ F8	90.1 MHz					
G1 ~ G8	90.1 MHz					

# 44

# <SOURCE SELECT> <STATUS>

Ø



#### About the button names in these explanations

- < > : Buttons on the main unit
- [ ] : Buttons on the remote control unit

#### Button name only:

Buttons on the main unit and remote control unit

# Listening to XM Satellite Radio Programs

# ABOUT XM RADIO

XM Radio offers an extraordinary variety of commercial-free music, plus the best in premier sports, news, talk radio, stand-up comedy, children's and entertainment programming. XM is broadcast in superior digital audio from coast to coast. From rock to reggae, from classical to hip hop, XM has something for every music fan. For U.S. customers, information about XM Radio is available online at www.xmradio.com. For Canadian customers, information about XM Canada is online at www.xmradio.ca.

# XM READY<sup>®</sup> LEGAL

XM monthly service subscription sold separately. XM Mini-Tuner and Home Dock required (each sold separately) to receive XM service. Installation costs and other fees and taxes, including a one-time activation fee may apply. All fees and programming subject to change. Channels with frequent explicit language are indicated with an XL. Channel blocking is available for XM radio receivers by calling 1-800-XMRADIO (US residents) and 1-877-GETXMSR (Canadian residents). For a full listing of the XM commercial- free channels and advertisingsupported channels, visit lineup.xmradio.com (US residents) or xmradio.ca (Canadian residents). Subscriptions subject to Customer Agreement available at xmradio.com (US residents) and xmradio.ca (Canadian residents). Only available in the 48 contiguous United States and Canada. ©2007 XM Satellite Radio Inc. All rights reserved. All other trademarks are the property of their respective owners.

# XM READY<sup>®</sup> SUBSCRIPTIONS

Once you have installed the XM Mini-Tuner Dock, inserted the XM Mini-Tuner, connected the XM Dock to your XM Ready<sup>®</sup> home audio system, and installed the antenna, you are ready to subscribe and begin receiving XM programming. There are three places to find your eight character XM Radio ID: On the XM Mini-Tuner, on the XM Mini-Tuner package, and on XM Channel 0. Record the Radio ID in the following eight squares for reference.



**Note:** The XM Radio ID does not use the letters "I," "O," "S" or "F". Activate your XM Satellite Radio service in the U.S. online at http:// activate.xmradio.com or call 1-800-XM-RADIO (1-800-967-2346). Activate your XM Satellite Radio service in Canada online at https:// activate.xmradio.ca or call 1-877-GET-XMSR (1-877-438-9677). You will need a major credit card. XM will send a signal from the satellites to activate the full channel lineup. Activation normally takes 10 to 15 minutes, but during peak busy periods you may need to keep your XM Ready home audio system on for up to an hour. When you can access the full lineup on your XM Ready home audio system you are done.

# **Basic Operation**

- **1** Either turn <**SOURCE SELECT**> or press [**SAT TU**] (AMP mode) to select "XM".
- **2** To operate using the main remote control unit, set the remote control unit to the TUNER (DEV2) mode. (The page 51 "Remote Control Unit Operations")
  - Le page 51 Remote Control Unit Operatio

# **9** Use $[\blacktriangle V]$ to select the station.

When the station is tuned in, the name of the track and artist are displayed.

¢

- The channel switches continuously when  $[\blacktriangle V]$  is pressed and held.
- XM Radio stations can be preset using the same procedure as for FM/AM stations (IPpage 44 "Presetting Radio Stations (Preset Memory)" and "Listening to Preset Stations").
- The artist name, track name, category and reception level can be checked by pressing **<STATUS>**.
- The time for which the menus are displayed can be set at menu "Manual Setup" – "Option Setup" – "On-Screen Display" – "TUNER Information" (12) page 31, 32).

Playback

Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting

Checking the XM Signal Strength and Radio ID

**1** Either turn **<SOURCE SELECT>** or press **[SAT TU]** (AMP mode) to select "XM".

**2** Press **<STATUS>** until "SIGNAL" appears on the display.

The display will switch as shown below, depending on the reception conditions.

Display	Status					
GOOD	GOOD Signal strength is good					
MARGINAL	_ Signal strength is marginal					
WEAK	Signal strength is weak					
NO	No signal					

**3** Adjust the position of the antenna until "SIGNAL: GOOD" is shown on the display.

**4** Press **<STATUS>** until the station you want to check (example: "XM001") is displayed.

# **5** Press [**X**] and select channel 0 (XM000). The radio ID is shown on the display.

XM000 RADIO ID \*\*\*\*\*\*\*

# 

The strength of both the XM satellite and terrestrial signals can be checked at menu "Input Setup" – "Antenna Aiming" (127) page 36).

# Searching Categories **1** Press < ▷. XM040 DeepTrks CAT: Rock ← Channel category

**2** Use  $\triangleleft \triangleright$  to select the category, then use  $\triangle \bigtriangledown$  to select the desired station.

# Accessing XM Radio Stations Directly

**1** Press [SEARCH].

# **2** Press [NUMBER] then input the station's channel.

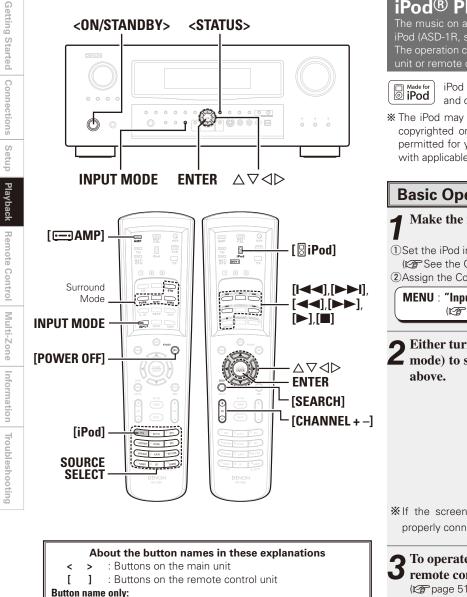
- **Example:** Accessing station "XM123": [1]  $\rightarrow$  [2]  $\rightarrow$  [3]
- % If no button is pressed within several seconds, the station automatically switches to the one whose number has been input.

# **?** Press **ENTER** to set that station.

**3** Reception switches to the selected station.

- "LOADING" is displayed while stations or data are being received.
- "UPDATING" is displayed while the encoding code is being updated.
- "XM - -" is displayed if the selected channel cannot be used.

46



Buttons on the main unit and remote control unit

# iPod<sup>®</sup> Plavback

The music on an iPod can be played by using the Control Dock for iPod (ASD-1R, sold separately)

The operation can also be performed using the buttons on the main unit or remote control unit while watching the menus.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

\* The iPod may only be used to copy or play contents that are not copyrighted or contents for which copying or playback is legally permitted for your private use as an individual. Be sure to comply with applicable copyright legislation.

# **Basic Operation**



(1)Set the iPod in the DENON Control Dock for iPod. (C See the Control Dock for iPod's operating instructions.) 2 Assign the Control Dock for iPod's input.

MENU : "Input Setup" – "Assign" – "iPod dock" (CP page 36)

Either turn <SOURCE SELECT> or press [iPod] (AMP)  $\checkmark$  mode) to select the input source assigned in step 1-(2)

> i Pod 4

DENON

OK to disconnect

(iPod screen)

\*If the screens above are not displayed, the iPod may not be properly connected. Try connecting again.

# **T**o operate using the main remote control unit, set the **5** remote control unit to the iPod mode.

(C page 51 "Remote Control Unit Operations")

- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- Use the RESTORER mode to expand the low and high frequency components of compressed audio files and achieve a richer sound. The default setting is "Mode3".
- Press <0N/STANDBY> or [POWER OFF] and set the AVR-2808CI's power to the standby mode before disconnecting the iPod. Also switch the input source to one to which the menu "iPod dock" is not assigned before disconnecting the iPod.

# 

- Depending on the type of iPod and the software version, some functions may not operate.
- DENON will accept no responsibility whatsoever for any loss of iPod data.

# Listening to Music

Use  $\Delta \nabla$  to select the menu, then press **ENTER** or  $\triangleright$ to select the music file to be played.

 $\frown$  Press ENTER or  $\triangleright$ . Playback starts.

Stopping playback temporarily During playback, press ENTER or [>]. Press again to resume playback.

#### Fast-forwarding or fast-reversing During playback, either press and hold $\Delta$ (to fast-reverse) or $\nabla$ (to

fast-forward), or press [

# To cue to the beginning of a track

During playback, either press  $\Delta$  (to cue to the previous track) or  $\nabla$  (to cue to the next track), or press [I

# To stop

During playback, either press and hold **ENTER** or press **[**].

## Playing repeatedly Press [CHANNEL -].

[Selectable items] All One Off

MENU : "Input Setup" - "iPod" - "Repeat" (repage 35)

# Shuffling playback

Press [CHANNEL +].

[Selectable items] Albums Songs OFF

MENU : "Input Setup" - "iPod" - "Shuffle" (Page 36)

# Searching up or down pages

Press **[SEARCH]**, then press  $\triangleleft$  (down) or  $\triangleright$  (up). To cancel, press  $\Delta \nabla$  or **[SEARCH]**.

To switch between the Browse and Remote modes Either press and hold [SEARCH].

# *C*

- The title name, artist name and album name can be checked by pressing **<STATUS>** during playback.
- On the AVR-2808CI, folder and file names can be displayed as titles. Any characters that cannot be displayed are replaced with ". (period)".
- The time for which the menus are displayed can be set at menu "Manual Setup" - "Option Setup" - "On-Screen Display" - "iPod Information" (Pr page 32).

# **Viewing Still Pictures or Videos on the** iPod

Photo and video data on the iPod can be viewed on the monitor. Only for iPod equipped with slideshow or video functions. (When using an ASD-1R)

Press and hold [SEARCH] to set the Remote mode. "Remote iPod" is displayed on the AVR-2808CI's display.

Watching the iPod's screen, use  $\Delta \nabla$  to select "Photos" or "Video".

**3** Press ENTER until the image you want to view is displayed. displayed.

"TV Out" at the iPod's "Slideshow Settings" or "Video Settings" must be set to "On" in order to display the iPod's photo data or videos on the monitor. For details, see the iPod's operating instructions.

# **Other Operations and** Functions

# **Other Operations**

# **Playing Super Audio CD**

- Assign the HDMI input connector at the "HDMI In" setting (12 page 35).
- ▶ Either turn <SOURCE SELECT> or press [SOURCE **Z** SELECT] to select the input source assigned in step 1. The "HDMI " indicator lights on the display.

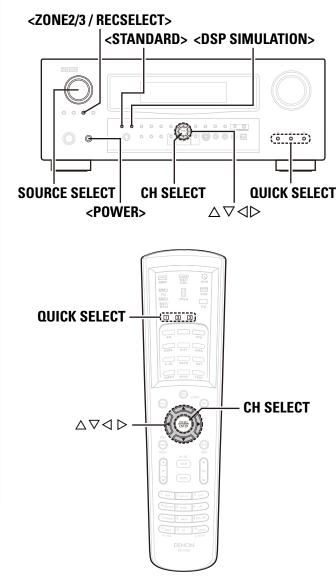
**3** Use INPUT MODE to select "Auto" ( page 34). Select the input mode according to the program source to be played.

Select the surround mode (P page 36 ~ 38). We recommend playing in the DIRECT mode.

# **5** Start playing the Super Audio CD. The "DSD" indicator lights on the display.

For operating instructions, refer to the respective equipment's operating instructions.

- When playing DSD signals in the DIRECT or PURE DIRECT mode, the DSD signals are converted as such into analog signals. When plaving in other surround modes, the DSD signals are first converted into PCM format, then into analog signals.
- "DSD DIRECT" is shown on the display when playing DSD 2-channel signals in the DIRECT mode. "DSD MULTI DIRECT" is shown on the display when playing DSD multi--channel signals in the DIRECT mode.



# **Recording on an External Device** (REC OUT mode) You can listen to one program source while recording a different program source. Press <ZONE2/3 / REC SELECT>. "ZONE2 SOURCE" is shown on the display.

ZONE2 SOURCE - ZONE2 TUNER - ZONE2 XM RECOUT XM -> ····· -> RECOUT TUNER -> RECOUT SOURCE

→ Turn <SOURCE SELECT> until "RECOUT SOURCE" is displayed.

The " REC " indicator lights.

**Turn <SOURCE SELECT>** to choose the input source 5 to be recorded.

# Play the program source.

For operating instructions, refer to the respective equipment's operating instructions.

To record FM or AM broadcasts, select the broadcast (12) page 44).

5 Start recording. For operating instructions, refer to the respective equipment's operating instructions.

# • To cancel, press <ZONE2/3 / REC SELECT>, then turn <SOURCE SELECT> until "ZONE2 SOURCE" is displayed.

- Make a test recording before starting the actual recording.
- Signals are only output to the analog REC OUT connectors when the digital signals input to the digital input connectors (OPTICAL/ COAXIAL) are PCM (2-channel) signals.
- Digital audio signals input to the HDMI connectors are not output to the REC OUT connectors, so connect using the OPTICAL or COAXIAL connectors.
- Sources selected with the REC OUT mode are output from ZONE2 as well.
- In the REC OUT mode, the remote control unit's ZONE2 mode buttons cannot be operated.
- The "XM" digital audio output signals are not output from the OPTICAL2 or OPTICAL3 output connectors.

# 

- Recordings you make are for your personal enjoyment and should not be used for other purposes without permission of the copyright holder.
- Input sources for which "Delete" is selected at "Source Delete" cannot be selected.

**Getting Started** 

Connections

- : Buttons on the main unit < >
- [ ] : Buttons on the remote control unit

## Button name only:

Buttons on the main unit and remote control unit

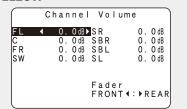
50

# **Convenient Functions**

# **Channel Level**

You can adjust the channel level either according to the playback sources or to suit your taste, as described below.

# Press CH SELECT.



# **O** Use $\triangle \nabla$ or CH SELECT to select the speaker.

The speaker that can be set switches each time one of the buttons is pressed.

**3** Use  $\triangleleft \triangleright$  to adjust the volume.

※ "OFF" can be set by pressing < when the subwoofer's volume is set to −12 dB.

# **Fader Function**

This function lets you adjust (fade) the sound from all the front or rear speakers at once.

# Press CH SELECT.

**2** Press  $\triangle \nabla$  or CH SELECT to select "Fader".

**3** Use  $\triangleleft \triangleright$  to adjust the volume of the speakers. ( $\triangleleft$ : front,  $\triangleright$ : rear)

# *.*

- The fader function does not affect the subwoofer.
- The fader can be adjusted until the volume of the speaker adjusted to the lowest value is -12 dB.

# **Quick Select Function**

With this function, the currently playing input source, input mode, surround mode, room EQ settings and volume can be stored in the memory.

**1** Set the input source, input mode, surround mode,

room EQ settings and volume to the conditions you want to store.

# **Press and hold the desired QUICK SELECT.**

Keep pressing the button until the quick select indicator lights.

# [Quick Select Defaults]

	Input Source	Volume
Quick Select 1	DVD	-40 dB
Quick Select 2	TV/CBL	-40 dB
Quick Select 3	VCR	-40 dB

# • To call out the settings, press **QUICK SELECT** at which the desired settings were stored.

• The Quick Select name can be changed (P page 32).

# NOTE

Input sources stored with the quick select function cannot be selected if they have been deleted at menu "Manual Setup" – "Option Setup"

- "Source Delete" (P page 31). In this case, store them again.

# **Personal Memory Plus Function**

This function sets the settings (input mode, surround mode, etc.) last selected for the individual input sources.

When you switch to an input source, the settings are automatically set to the ones that were set the last time that input source was used.

The surround parameters, tone control, room EQ settings and the volumes of the different speakers are stored for the individual surround modes.

# Last Function Memory

This stores the settings as they were directly before the standby mode was set.

When the power is turned back on, the settings are restored to as they were directly before the standby mode was set.

# **Backup Memory**

The various settings are backed up for about 1 week, even if the power is turned off or the power cord is disconnected.

# **Resetting the Microprocessor**

Perform this procedure if the display is abnormal or if operations cannot be performed.

When the microprocessor is reset, all the settings are reset to their default values.

**Turn off the power using <POWER>.** 

# **2** Press **<POWER>** while simultaneously pressing **<STANDARD>** and **<DSP SIMULATION>**.

**3** Once the display starts flashing at intervals of about 1 second, release the two buttons.

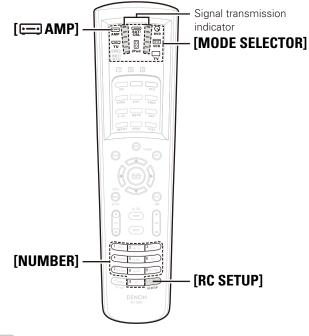
# ø

If in step 3 the display does not flash at intervals of about 1 second, start over from step 1.

# **Remote Control Unit Operations**

# **Main Remote Control Unit**

- On the main remote control unit, the display switches according to the device being operated and the mode.
  In modes other than iPod, the mode switches between "DEV1"
- and "**DEV2**]" each time the **[MODE SELECTOR]** is pressed.
- In the AMP, TUNER and iPod modes, when the remote ID is set, the AVR-2808CI can be used independently even in an environment containing multiple DENON amplifiers.



Depending on the model and year of manufacture of your equipment, some buttons may not operate.

# NOTE

The device mode ("**DEV1**" or "**DEV2**") cannot be changed while the setting is being made.

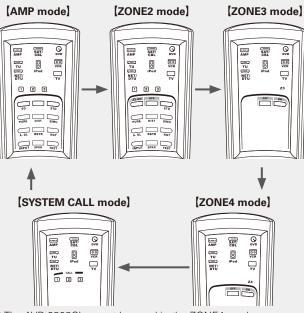
# **Operating DENON Audio Components**

# Press [MODE SELECTOR] for the component to be operated.

The indicator for the component to be operated flashes.

- : AMP / ZONE2 / ZONE3 / iPod AMP ZONE4 / SYSTEM CALL iPod • DVD player (Recorder) / TUNER (FM/AM) / XM DVD CD player (Recorder) : NET/USB / : VCR / TAPE NET/ DIGITAL TUNER : TV SAT/ : Satellite Receiver / Cable TV
- \*\* The NET/DTU (DEV1 and DEV2) mode is not used on the AVR-2808CI, so use the learn function to store the signals (CP page 54).

# \* The mode switches each time [AMP] is pressed.



# \* The AVR-2808CI cannot be used in the ZONE4 mode.

# **9** Operate the component.

\* For details, refer to the component's operating instructions.

**[HOME]** is used to return to the AMP mode (AMP, ZONE2, ZONE3, ZONE4 or SYSTEM CALL) when in any mode other than AMP.

# Presetting

The included main remote control unit can be preset to operate devices of various brands.

**1** Press [MODE SELECTOR] for the device you want to preset.

- **2** Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.
- **3** Press [NUMBER] and input the 5-digit number of the brand of the component to be preset. The numbers are shown in the Preset Code Table (FF End of this manual).

When the code is registered, the signal transmission indicator flashes twice.

When the preset code is transmitted, the mode indicator for the component to which that code belongs flashes.

\* The input mode is canceled if no button is operated for 10 seconds.

Some brands have more than one preset code. If the component does not operate, try inputting a different code.

C	<b>Operating Preset Components</b>								
1	Press [MODE SELECTOR] for the component to be operated. The mode indicator of the device to be operated flashes.								
2	Operate the component.								
* F	For details, refer to the component's operating instructions.								

Getting Started

Connections

Setup

Playback

Remote Control

EL Display	[▶], [I◀◀ ▶▶I], [◀◀ ▶▶], [II], [■], — [SOURCE ON], [SOURCE OFF]
[MENU] — [SETUP/ SEARCH] — [CH + / — SHUFFLE], [CH – / REPEAT] Buttons	— [ENTER] — [△▽⊲▷] — [RETURN] — [0 ~ 9, +10]

			EL Dis	play			
MODE SELECTOR		D	VD		V	R	iPod
Device Mode	DE	V1	DE	V2	DEV1	DEV2	DEV1
Device operated	evice operated DVD (Default setting) DVD Recorder (Default setting)		<b>CD</b> (Default setting)	CD Recorder	VCR	ТАРЕ	iPod
•	Playback	Playback	Playback	Playback	Playback	Playback	Playback/Paus
	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)
<b>44 &gt;&gt;</b>	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual searc (fast-reverse fast-forward
н	Pause	Pause	Pause	Pause	Pause	Pause	-
	Stop	Stop	Stop	Stop	Stop	Stop	Stop
SOURCE ON	Power on	Power on	-	-	Power on	-	-
SOURCE OFF	Power off	Power off	-	-	Power off	-	-
			Butte	ons			
MENU	Menu/guide	Menu/guide	-		Menu/guide	_	Menu
$\bigtriangleup \ \bigtriangledown \ \bigtriangleup \ \vartriangleright$	Cursor	Cursor	-	-	Cursor	-	Cursor
ENTER	Enter setting	Enter setting	-	-	Enter setting	-	Enter
SETUP/SEARCH         Set up         Set up		_			-	Page forwar screen / Brow Remote mod switching (Pre and hold)	
RETURN	Return	Return	-	-	Cancel	-	Return
CH + / SHUFFLE	_	_	_	_	Switch channels	_	1-track/albu shuffle play
CH - / REPEAT	_	_	_			_	1-track/All-tra repeat play
0 ~ 9, +10	Select track	Select track	Select track	Select track	_	_	-
Special Remarks	1,	2	(	D	1	1	-

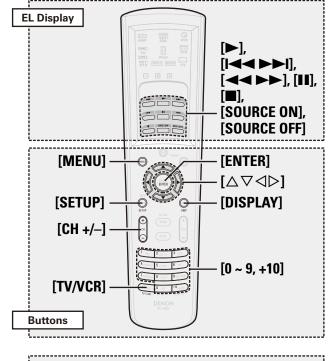
# [Special Remarks]

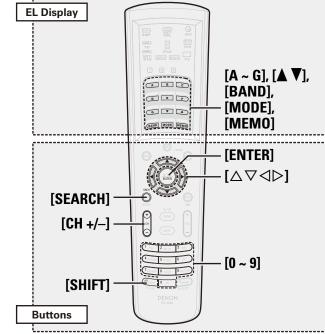
① Only one component can be preset for each mode. If a new code is preset, the previous code is automatically cleared.
 ② The names of the functions for the DVD remote control buttons differ from brand to brand. Check beforehand.

# NOTE

• Preset a DVD player or DVD recorder for the DVD (**DEV1**) mode. Preset a CD player or CD recorder for the DVD (**DEV2**) mode.

• Preset a VCR for the VCR (**DEV1**) mode. Preset a tape deck for the VCR (**DEV2**) mode.





		EL Display	1			
MODE SELECTOR	Т	V	Satellite Receiver / Cable TV			
Device Mode	DEV1	DEV2	DEV1	DEV2		
Device operated	TV (HITACHI)	TV (SONY)	SAT	SAT		
•						
	Punch through	Punch through	Punch through	Punch through		
11						
SOURCE ON	Power on	Power on	Power on	Power on		
SOURCE OFF	Power off	Power off	Power off	Power off		
		Buttons				
MENU	Menu/guide	Menu/guide	Menu/guide	Menu/guide		
$\bigtriangleup \ \lor \ \bigtriangleup \ \trianglerighteq$	Cursor	Cursor	Cursor	Cursor		
ENTER	Enter setting	Enter setting	Enter setting	Enter setting		
SETUP	Set up	Set up	Set up	Set up		
DISPLAY	Display	Display	Display	Display		
CH + / -	Switch channels	Switch channels	Switch channels	Switch channels		
0 ~ 9, +10	Channel selection	Channel selection	Channel selection	Channel selection		
TV/VCR	Switch inputs	Switch inputs	-	-		
Special Remarks	1,3	1,3	1,3	1,3		

## [Special Remarks]

① Only one component can be preset for each mode. If a new code is preset, the previous code is automatically cleared.

(3) The CD, VCR or DVD buttons (one only set) can be assigned to the monitor, satellite receiver and cable TV (127 page 55 "Punch Through Function").

	EL Display							
MODE SELECTOR	Т	U						
Device Mode	DEV1	DEV2						
Device operated	Analog tuner	XM						
A ~ G	Preset memory block selection	Preset memory block selection						
A V	Tuning + / -	Channel selection						
BAND	AM/FM switching	-						
MODE	Switch search modes	-						
MEMO	Preset memory registration Preset memory regist							
	Buttons							
$\vartriangle \ \lor \ \lor \ \lor$	-	Category search						
ENTER	-	-						
SEARCH	-	Direct search						
CH + / -	Preset channel selection	Preset channel selection						
0 ~ 9	Preset channel selection (1 ~ 8)	Preset channel selection (1 ~ 8) / Direct channel search (0 ~ 9)						
SHIFT	Switch memory block	Switch memory block						

**Getting Started** 

Connections

Setup

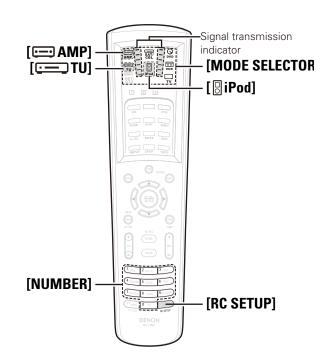
Playback

**Remote Control** 

Multi-Zone

Information

Troubleshooting



# Setting the Remote ID

When using multiple DENON AV receivers in the same room. make this setting so that only the desired AV receiver operates.

• Press [AMP] to set the main remote control unit to the AMP mode.

Press and hold in [RC SETUP] for at least 3 seconds. Z The signal transmission indicator flashes twice.

• Refer to the table at the right, and use [NUMBER] to **J** input the 5-digit number corresponding to the remote ID to be changed.

The signal transmission indicator flashes twice.

Press [TU] or [iPod] to select the mode to be set.

**E** Repeat steps 2 to 4 to set the remote IDs for all **D** modes.

MODE SELECTOR		TUT			
Remote ID	AMP (MAIN)	DEV1 (Analog TUNER)	DEV2 (XM)	iPod	
1 (Default)	81001	52863	52864	72815	
2	82001	52795	52812	72816	
3	83001	52800	52813	72817	
4	84001	52805	52814	72818	

# 

- When changing a setting, be sure to set the same remote ID as the AVR-2808CI's (2 page 32).
- When changing the AMP mode's remote ID, also change the "TUNER" and "iPod" remote ID at the same time
- Set the remote ID of an analog tuner for TUNER (DEV1), the XM remote ID for "DEV2 ".

# **Learning Function**

If your AV devices are of a brand other than DENON or if they cannot be operated with the preset memory function, their remote control signals can be transfered to stored in the AVR-2808Cl's main remote control unit.

Press [MODE SELECTOR] for the device you want to set.

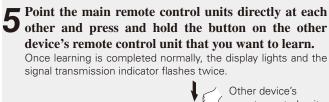
**2** Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.

# **3** Press [9], [7] and [5], in that order. The signal transmission indicator float

The signal transmission indicator flashes twice and the learning mode is set.

**Press the button to be set.** The main remote control unit's display turns off.

\* If a button that cannot be learned is pressed, the signal transmission indicator lights but the signal is not learned.





control unit (RC-1068)

- \* If you want to learn other buttons, repeat steps 4 and 5. \* The mode can be switched by pressing [MODE SELECTOR].
- \* The signal transmission indicator lights once for a long time if learning was not possible

# Press and hold in [RC SETUP] for at least 3 seconds.

D The signal transmission indicator flashes twice and the setting is completed.

P

- With some remote control units, the signals cannot be learned or the device will not operate properly even when the signals have been learned. In this case, use the device's own remote control unit.
- Learned buttons have priority over the preset memory. If you no longer need the learned setting, reset the learning function (1) page 56).

# NOTE

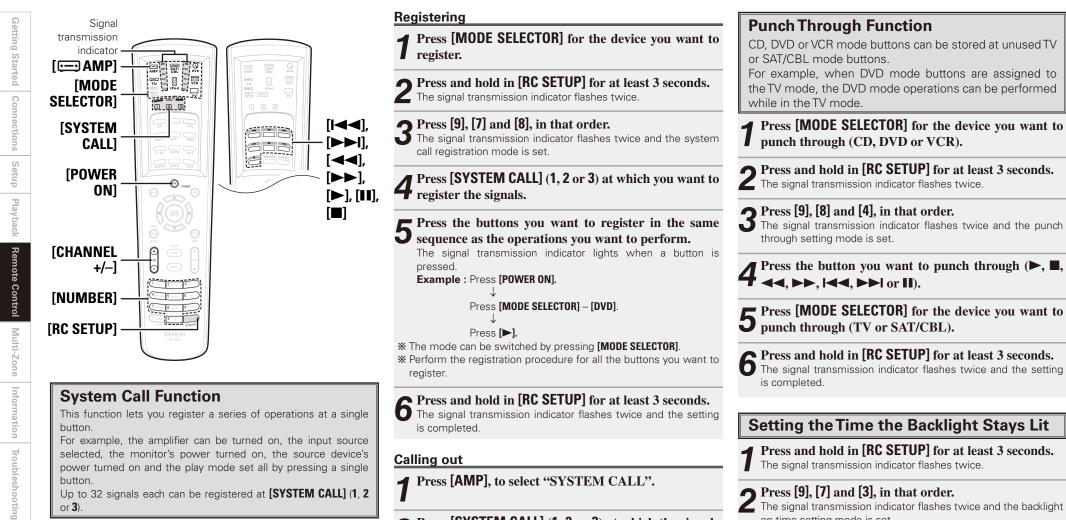
- [HOME] cannot be learned.
- Do not learn any remote control signals at [RC SETUP].
- The AMP, ZONE2, ZONE3, ZONE4 and SYSTEM CALL modes cannot be learned.

**Getting Started** 

Connections

Setup

Playback



button. Up to 32 signals each can be registered at [SYSTEM CALL] (1, 2 or **3**).

- ✓ Press [AMP], to select "SYSTEM CALL".
- Press [SYSTEM CALL] (1, 2 or 3) at which the signals **C** were registered.

The registered signals are transmitted in the registered sequence.

# Setting the Time the Backlight Stays Lit

Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.

- Press [9], [7] and [3], in that order.
- The signal transmission indicator flashes twice and the backlight on time setting mode is set.

**3** Set the light on time. The signal transmission indicator flashes twice. [Settable times] : [1] : 5 sec.

- [2]: 10 sec. (Default)
- [3]: 15 sec.
- [4]: 20 sec.
- [5]: 25 sec.

Adjusting the Backlight's Brightness The display's brightness can be adjusted in 5 steps. (Default: Step 3)

**Press and hold in [RC SETUP] for at least 3 seconds.** The signal transmission indicator flashes twice.

**Press [CHANNEL +] or [CHANNEL –].** The display gets one step brighter when **[+]** is pressed. The display gets one step darker when **[-]** is pressed.

**3** Press [**RC SETUP**] to complete the setting.

# Resetting the Main Remote Control Unit

Learning Function

[Resetting button by button]

**1** Press [MODE SELECTOR] for the device you want to reset.

**2** Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.

**3** Press [9], [7] and [6], in that order. The signal transmission indicator flashes twice.

**Press the button you want to reset twice.** The signal transmission indicator flashes twice.

[Resetting by device mode]

**1** Press [MODE SELECTOR] for the device you want to reset.

**Press and hold in [RC SETUP] for at least 3 seconds.** The signal transmission indicator flashes twice.

# **>** Press [9], [7] and [6], in that order.

The signal transmission indicator flashes twice.

**4** Press [MODE SELECTOR] for the device you want to reset twice.

The signal transmission indicator flashes twice.

# System call function

**1 Press and hold in [RC SETUP] for at least 3 seconds.** The signal transmission indicator flashes twice.

**Press** [9], [7] and [8], in that order. The signal transmission indicator flashes twice.

**3** Press [SYSTEM CALL] (1, 2 or 3) you want to reset.

**Press and hold in [RC SETUP] for at least 3 seconds.** The signal transmission indicator flashes twice.

# Punch-through function

**1** Press [MODE SELECTOR] for the device you want to reset (TV or SAT/CBL).

**2** Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.

**3** Press [9], [8] and [4], in that order. The signal transmission indicator flashes twice.

**Press and hold in [RC SETUP] for at least 3 seconds.** The signal transmission indicator flashes twice.

# All settings

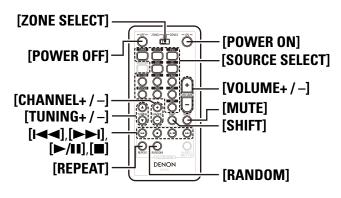
**1 Press and hold in [RC SETUP] for at least 3 seconds.** The signal transmission indicator flashes twice.

**Press [9], [8] and [1], in that order.** The signal transmission indicator flashes 4 times. All the settings are restored to their defaults.

# Sub Remote Control Unit

The sub remote control unit (RC-1071) included with the AVR-2808CI can be used as the exclusive multi-zone remote control unit.

- \* The following describes operation for the selected zone. (Use [ZONE SELECT] to switch zones.)
- Turning the multi-zone power on and off
- Selecting the input source to be played
- Adjusting and temporarily muting the multi-zone volume
  Listening to the tuner



ZONE SELECT	Switching the zone to be operated
POWER OFF	Power off
POWER ON	Power on
SOURCE SELECT	Switching the input zone
VOLUME + / -	Volume control
CHANNEL + / -	Channel + / -
TUNING + / -	Tuning + / -
MUTE	Muting
SHIFT	Switching the memory block
	Auto search (cue)
	Stop
►/II	Play / Pause
REPEAT	1-track / All -track repeat play
RANDOM	1-track / album shuffle play

When using a Control Dock for iPod (ASD-1R), [FAVORITES DIRECT PLAY] cannot be used. **Getting Started** 

Connections Setup

Playback

**Remote Control** 

# Amp Assign / Multi-zone Connections and Operations

The AVR-2808CI is compatible with the following types of playback:

- Multi-zone playback (ZONE2 & ZONE3)
- Bi-amp playback (front speakers)

# NOTE

- For bi-amp playback, use speakers compatible with that type of connection.
- When conducting bi-amp playback, remove the short-circuiting boards (or wires) from the speaker terminals.

# Multi-zone Settings with the Amp Assign Function

The amp assign function lets you assign the amplifiers for the different channels built into the AVR-2808CI to the speaker outputs for the different zones.

Select the desired playback environment from among "Setting 1" to "Setting 4" then set the corresponding "Amp Assign" mode at menu "Manual Setup" – "Option Setup" – "Amp Assign" (1277) page 31).

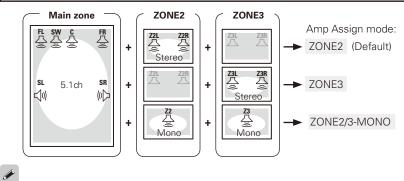
Connect the speakers as described at "Amp Assign mode settings and speakers connected to the various speaker terminals".

"Setting 3" is possible to switch the Amp Assign mode between the 5.1-channel mode and 2-channel mode without changing the speaker connections.

# Setting 1 :

# Multi-zone playback

- 5.1-channel playback + ZONE2 or ZONE3 stereo playback
- 5.1-channel playback + ZONE2 + ZONE3 monaural playback

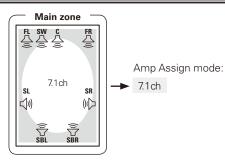


"STEREO" or "MONO" depends on the setting at menu "Manual Setup" – "(select the zone)" – "Zone Setup" – "Channel" (@ page 30).

# □ Amp Assign mode setting and speakers connected to the various speaker terminals

Speaker terminal	FRONT		CENTER	SURR		SURR. BACK / AMP ASSIGN	
Amp Assign mode	R	L	-	R	L	R	L
ZONE2	FB	FL				Z2R	Z2L
ZONE3			FI	C	SR	SL	Z3R
ZONE2/3-MONO			, , , , , , , , , , , , , , , , , , ,	311	JL	Z3 (MONO)	Z2 (MONO)

# Setting 2 : •7.1-channel playback



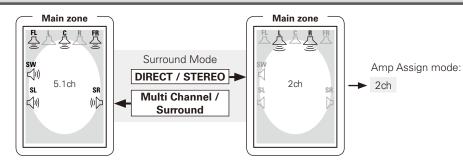
# **D** Amp Assign mode setting and speakers connected to the various speaker terminals

Speaker terminal	FRONT		CENTER	SU	RR	SURR. BACK / AMP ASSIGN	
Amp Assign mode	R	L		R	L	R	L
7.1ch	FR	FL	С	SR	SL	SBR	SBL

# Setting 3 : With this setting it is possible to switch between the following two playback modes. •5.1-channel playback

# •2-channel playback

Switching ......Surround Mode switching



□ Amp Assign mode setting and speakers connected to the various speaker terminals

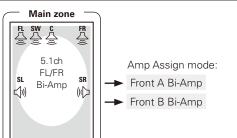
Speaker terminal	FRONT		CENTER	SU	RR	SURR. BACK / AMP ASSIGN	
Amp Assign mode	R	L		R	L	R	L
2ch	FR	FL	С	SR	SL	FR	FL

# Setting 4 :

•Making bi-amp connections for the FL and FR channels in the main zone

# and conducting 5.1-channel playback

(switching with other modes not possible)



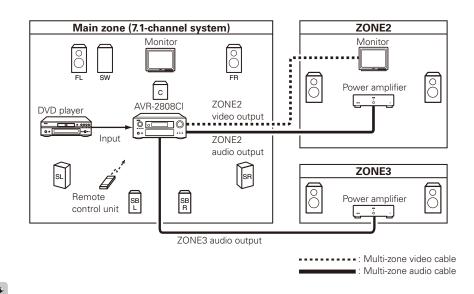
# □ Amp Assign mode setting and speakers connected to the various speaker terminals

Speaker terminal	FRONT-A		FRONT-B		CENTER	SURR		SURR. BACK / AMP ASSIGN	
Amp Assign mode	R	L	R	L		R	L	R	L
Front A Bi-Amp	FR-A	FL-A	FR-B	FL-B	C	<b>CD</b>	SL	FR FL-A/FR-/ conne	FL A Bi-Amp ection
Front B Bi-Amp	гп-А	ΓĿΑ	FN-D	ГĿЪ	С	SR			FL 3 Bi-Amp ection

# Multi-zone Settings and Operations with Zone Pre-out Output

Prepare power amplifiers for ZONE2 and ZONE3.

$\backslash$	Connectors for audio output	Audio signals	Connectors for video output				
ZONE2	ZONE2 PRE OUT	Stereo	ZONE2 VIDEO OUT				
ZONE3	ZONE3 PRE OUT	Stereo	_				

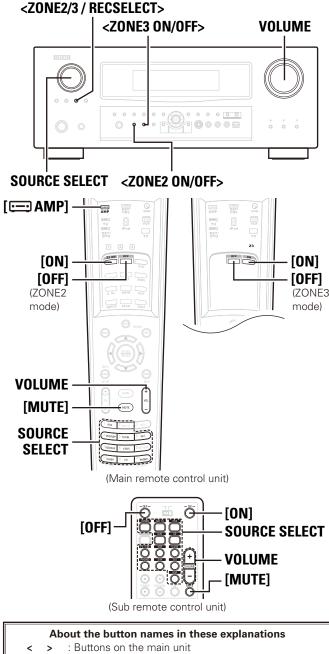


When only using one speaker for ZONE2 or ZONE3, set to "Mono". In this case, the ZONE2 (ZONE3) monaural output is output from the ZONE2 (ZONE3) pre-out L and R connectors, so connect as desired.
 Separate power amplifiers are needed for ZONE2 and ZONE3.

**Getting Started** 

Connections

Setup



[ 1 : Buttons on the remote control unit

#### Button name only:

Buttons on the main unit and remote control unit

# Multi-zone Operations

# **Turning the Power On and Off**

# [Operation on the main unit]

Press <ZONE2 ON/OFF> or <ZONE3 ON/OFF> for the zone to be operated. When the power turns on, the multi-zone indicator (Z2 or Z3) lights on the display.

# [Operation on the remote control unit]

In the zone mode you want to operate, press [ON] or [OFF].

# **Selecting the Input Source**

# [Operation on the main unit]

(1) Press <**ZONE2/3 / REC SELECT>** and select the zone to be adjusted. (2) Turn <SOURCE SELECT>.

# [Operation on the remote control unit]

In the zone mode you want to operate, press [SOURCE SELECT].

# Adjusting the Volume

# [Operation on the main unit]

1) Press <ZONE2/3 / REC SELECT> and select the zone to be adjusted. 2 Turn **<VOLUME>** to adjust.

# [Operation on the remote control unit]

In the zone mode whose volume you want to adjust, press [VOLUME].

~ +18dB

[Variable range] --- -70dB ~ -40dB

# ¢°

The volume can be adjusted when menu "Manual Setup" - "Zone Setup" - "(select the zone)" - "Volume Level" is set to "VAR". The volume can be increased up to the value set at menu "Manual Setup" - "Zone Setup" - "(select the zone)" - "Volume Limit" (@ page 30).

# **Turning off the Sound Temporarily**

In the zone mode for which you want to mute the sound, press

The sound is reduced to the level set at menu "Manual Setup" - "Zone Setup" - "(select the zone)" - "Mute Level" (B page 30). To cancel, either adjust the volume or press [MUTE] again. The setting is canceled when the zone's power is turned off.

The source selected for ZONE2 is also output from the recording output connectors.

# 

- When the input source to which the digital input connectors (OPTICAL/COAXIAL) are assigned is selected in ZONE2 or ZONE3, playback is only possible if the digital signal being input is in PCM (2-channel) format.
- Digital audio signals input from the HDMI connectors cannot be played in multi-zone.
- When certain digital signals are being input, noise may be output from the ZONE2 and ZONE3 audio output connectors.

**Getting Started** 

Connections

Setup

Playback

# [MUTE].

# **Getting Started**

# **Other Information**

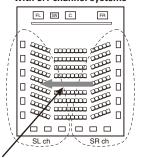
# **About Speaker Installation**

# **Surround back speakers**

Sound positioning directly to the rear can be achieved easily by adding a surround back speaker to a 5.1-channel system.

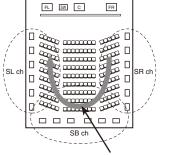
In addition, the acoustic image extending between the sides and the rear is narrowed, thus greatly improving the expression of the surround signals for sounds moving from the sides to the back and from the front to the point directly behind the listening position.

Change of positioning and acoustic image with 5.1-channel systems



Movement of acoustic image from SR to SL

Change of positioning and acoustic image with 6.1-channel systems



Movement of acoustic image from SR to SB to SL

In addition to sources recorded in 6.1-channels, the surround effect of conventional 2- to 5 1-channel sources can also be enhanced

# Number of surround back speakers

We recommend using 2 speakers. When using dipolar speakers in particular, be sure to use 2 speakers.

# Placement of the surround left and right channels when using surround back speakers

We recommend installing the speakers for the surround "L" and "R" channels a bit forward.

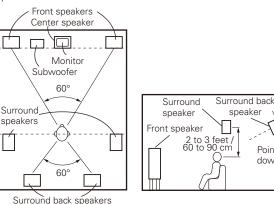
# **Examples of speaker layouts**

Below we introduce examples of speaker layouts. Refer to these to arrange your speakers according to their type and how you want to use them.

# [1] Using surround back speaker(s)

## **(1)** When mainly playing movies

Recommended when your surround speakers are single or 2-way speakers.



[As seen from above]

# [As seen from the side]

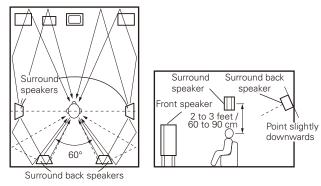
Point slightly

downwards

## (2) Setting for primarily watching movies using diffusion type speakers for the surround speakers

For the greatest sense of surround sound envelopment, diffuse radiation speakers such as bipolar types, or dipolar types, provide a wider dispersion than is possible to obtain from a direct radiating speaker (monopolar). Place these speakers at either side of the prime listening position, mounted above ear level.

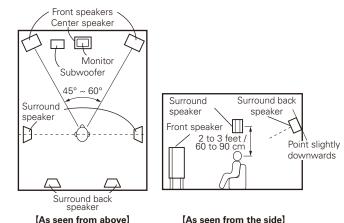
#### Path of the surround sound from the speakers to the listening position



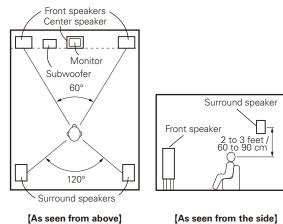
[As seen from above]

#### [As seen from the side]

## ③ When playing movies and music



# [2] When not using surround back speakers



# Surround

The AVR-2808Cl is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

# **Dolby Surround**

# **Dolby Digital**

Dolby Digital is a multichannel digital signal format developed by Dolby Laboratories.

A total of 5.1-channels are played: 3 front channels ("FL", "FR" and "C"), 2 surround channels ("SL" and "SR") and the "LFE" channel for low frequencies.

Because of this, there is no crosstalk between channels and a realistic sound field with a "three-dimensional" feeling (sense of distance, movement and positioning) is achieved.

A real, overpowering sense of presence is achieved when playing movie sources in AV rooms as well.

# **Dolby Digital Plus**

Dolby Digital Plus is an improved Dolby Digital signal format that is compatible with up to 7.1-channels of discrete digital sound and also improves sound quality thanks to extra data bit rate performance. It is upwardly compatible with conventional Dolby Digital, so it offers greater flexibility in response to the source signal and the conditions of the playback equipment.

# **Dolby TrueHD**

Dolby TrueHD is a high definition audio technology developed by Dolby Laboratories, using lossless coding technology to faithfully reproduce the sound of the studio master.

This format is compatible with a maximum sampling frequency of 96 kHz and up to 7.1-channels, so it is used for applications particularly prioritizing sound quality.

# Dolby Pro Logic II

Dolby Pro Logic  $\ensuremath{I\!I}$  is a matrix decoding technology developed by Dolby Laboratories.

Regular music such as that on CDs is encoded into 5-channels to achieve an excellent surround effect.

The surround channel signals are converted into stereo and full band signals (with a frequency response of 20 Hz to 20 kHz or greater) to create a "three-dimensional" sound image offering a rich sense of presence for all stereo sources.

# Dolby Pro Logic IIx

Dolby Pro Logic  $I\!Ix$  is a further improved version of the Dolby Pro Logic  $I\!I$  matrix decoding technology.

Audio signals recorded in 2-channels are decoded to achieve a natural sound with up to 7.1-channels.

There are 3 modes: "Music" suited for playing music, "Cinema" suited for playing movies, and "Game" which is optimized for playing games.

# **※ Sources recorded in Dolby Surround**

Sources recorded in Dolby Surround are indicated with the following logo marks.

Dolby Surround support mark : DC DOLBY SURROUND

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

# **DTS Surround**

# DTS Digital Surround

DTS Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1-channels of digital discrete surround sound.

# DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is an improved version of the conventional DTS, DTS-ES and DTS 96/24 signals formats, compatible with sampling frequencies of 96 or 48 kHz and up to 7.1-channels of discrete digital sound. High data bit rate performance provides high quality sound. This format is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

# DTS-HD Master Audio

DTS-HD Master Audio is DTS, Inc's lossless audio format compatible with up to 96 kHz/7.1-channels. The lossless audio coding technology faithfully reproduces the sound of the studio master. It is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

# DTS-ES<sup>™</sup> Discrete 6.1

DTS-ES<sup>™</sup> Discrete 6.1 is a 6.1-channel discrete digital audio format adding a surround back (SB) channel to the DTS digital surround sound. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

# DTS-ES<sup>™</sup> Matrix 6.1

DTS-ES<sup>TM</sup> Matrix 6.1 is a 6.1-channel discrete digital audio format inserting a surround back (SB) channel to the DTS digital surround sound through matrix encoding. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

# DTS NEO:6<sup>™</sup> Surround

DTS NEO:6<sup>TM</sup> is a matrix decoding technology for achieving 6.1channel surround playback with 2-channel sources. It includes "DTS NEO:6 CINEMA" suited for playing movies and "DTS NEO:6 MUSIC" suited for playing music. **Getting Started** 

# DTS 96/24

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1-channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio are trademarks of DTS, Inc.<sup>©</sup> 1996-2007 DTS, Inc. All Rights Reserved.

Neural Surround<sup>™</sup>, a breakthrough in audio technology, will bring the

excitement of surround music to more of America's listening audience.

It provides the rich envelopment and discrete image detail of surround

sound in a format 100 % compatible with stereo. With superior

spectral resolution and channel separation, Neural Surround<sup>™</sup> draws the brain's attention to sonic details in musical instruments, vocals,

and ambience that are typically masked by other playback systems.

This allows the listener to fully experience the richness and subtleties

in recorded performance as never before. As the chosen format for XM

Satellite Radio's new XM HD surround programming, Neural Surround

will help deliver more surround music to more listeners than any other

broadcast format, XM Satellite Radio will be the first radio company to

broadcast surround sound on the radio 24 hours a day and will offer

three channels fully dedicated to Neural Surround™ music. This alone

will amount to more than 25.000 hours of Neural Surround™ music

# Audyssey MultEQ<sup>®</sup> XT

Audyssey MultEQ<sup>®</sup> XT is the first technology to properly measure sound information throughout a listening area, then combine this information to accurately represent the acoustical problems in the room. Based on these measurements, MultEQ XT calculates an equalization solution that corrects for both time and frequency response problems in every seat.

Audyssey MultEQ XT not only corrects frequency response problem in a large listening area, it also performs a fully automated surround system setup.

For a detailed description, see page 23.

# 

Audyssey MultEQ<sup>®</sup> XT is a trademark of Audyssey Laboratories. It is licensed under US and National Patent Applications 20030235318 and 10/700,220. Additional U.S. and Foreign Patents pending. MultEQ XT and the Audyssey MultEQ XT logo are trademarks of Audyssey Laboratories, Inc. All rights reserved.

# **AL24 Processing Plus**

# AL24 Processing for All Channels

DENON has further developed its proprietary AL24 Processing, an analog waveform reproduction technology, to support the 192-kHz sampling frequency of DVD-Audio. AL24 Processing Plus, thoroughly suppresses quantization noise associated with D/A conversion of LPCM signals to reproduce the low-level signals with optimum clarity that will bring out all the delicate nuances of the music.

Equipped foe not only front left and right channels but also for the surround left and right, center and subwoofer channels.

# HDMI (High-Definition Multimedia Interface)

HDMI is a digital interface standard for next generation TVs based on DVI (Digital Visual Interface) standards and optimized for use in consumer equipment.

Non-compressed digital video and multi-channel audio signals are transmitted with a single connection.

HDMI is also compatible with HDCP (High-bandwidth Digital Contents Protection), a technology for protecting copyrights that encrypts digital video signals in the same was as with DVI.

# Deep Color

Eliminates on-screen color banding, for smooth tonal transitions and subtle gradations between colors.

Enables increased contrast ratio.

Can represent many times more shades of gray between black and white.

At 30-bit pixel depth, a four times improvement would be the minimum, and the typical improvement would be eight times or more.

# xvYCC

Next-generation "xvYCC" color space supports 1.8 times as many colors as existing HDTV signals.

Lets HDTVs display colors more accurately.

Enables displays with natural, vivid colors.

# Lip Sync

Because consumer electronics devices are using increasingly complex digital signal processing to enhance the clarity and detail of the content, synchronization of video and audio in user devices has become a greater challenge and could potentially require complex enduser adjustments. HDMI 1.3 incorporates an automatic video/audio synching capability that allows devices to perform this synchronization automatically with total accuracy.

"HDMI," "HDMI logo" and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC.

**Getting Started** 

# 

each year.

**Neural Surround** 

This product is manufactured under license from Neural Audio Corporation.

D&M Holdings Inc. hereby grants the user a non-exclusive, nontransferable, limited license right exercisable to use the NA SURROUND Technology and other US and World Wide Patents Pending technology.

"Neural" and "Neural Audio" and "Neural Surround" are trademarks of Neural Audio Corporation. All Rights Reserved.

# **Surround Modes and Parameters**

				Signals ar	nd adjustability	/ in the differe	nt modes			
Surround mode		(	Channel outpu	t		Param	neter (default v	alues are sho	own in parenth	neses)
Surround mode	Front L/R	Center	Surround L/R	Surround Back L/R	Subwoofer	D. COMP *1	LFE *2	AFDM *1	SB CH OUT	CINEMA EQ.
PURE DIRECT, DIRECT	0	×	×	×	0	(OFF)	( 0 dB)	×	×	×
DSD DIRECT	0	×	×	×	×	×	×	×	×	×
DSD MULTI DIRECT	0	$\bigcirc$	0	O	0	×	○ ( 0 dB)	×	0	×
MULTI CH DIRECT	0	$\bigcirc$	0	O	O	×	○ ( 0 dB)	(ON)	0	×
STEREO	0	×	×	×	O	$\bigcirc$ (OFF)	○ ( 0 dB)	×	×	×
EXT. IN	0	$\bigcirc$	0	O	0	×	×	×	×	×
MULTI CH IN	0	$\bigcirc$	0	O	0	×	○ ( 0 dB)	(ON)	0	×
WIDE SCREEN	0	O	0	O	0	(OFF)	○ ( 0 dB)	×	0	O (OFF)
DOLBY PRO LOGIC IIx	0	O	0	O	0	O (OFF)	×	×	0	O (NOTE1)
DOLBY PRO LOGIC II	0	O	0	×	O	(OFF)	×	×	0	O (NOTE2)
DTS NEO:6	0	$\bigcirc$	0	O	0	(OFF)	×	×	0	O (NOTE1)
DOLBY DIGITAL	0	$\bigcirc$	0	O	0	(OFF)	○ ( 0 dB)	(ON)	0	O (OFF)
DTS SURROUND	0	$\bigcirc$	0	O	0	(OFF)	○ ( 0 dB)	(ON)	0	O (OFF)
neural	0	$\bigcirc$	0	O	0	×	×	×	0	×
7CH STEREO	0	$\bigcirc$	0	O	0	(OFF)	○ ( 0 dB)	×	0	×
SUPER STADIUM	0	O	0	O	0	(OFF)	○ ( 0 dB)	×	0	×
ROCK ARENA	0	O	0	O	0	$\bigcirc$ (OFF)	○ ( 0 dB)	×	0	×
JAZZ CLUB	0	O	0	O	0	O (OFF)	○ ( 0 dB)	×	0	×
CLASSIC CONCERT	0	O	0	O	0	O (OFF)	○ ( 0 dB)	×	0	×
MONO MOVIE	0	O	0	O	0	(OFF)	( 0 dB)	×	0	×
VIDEO GAME	0	O	0	O	0	(OFF)	○ ( 0 dB)	×	0	×
MATRIX	0	O	0	O	O	O (OFF)	○ ( 0 dB)	×	0	×
VIRTUAL	0	×	×	×	O	O (OFF)	○ ( 0 dB)	×	×	×

| ○ : Signal / Adjustable

imes : No signal / Not adjustable

 $\bigcirc$  : Turned on or off by speaker configuration setting

NOTE1 : This parameter is availabe when the menu "Parameter" – "Surround Parameter" – "MODE" is set to "CINEMA" (@ page 38). NOTE2 : This parameter is availabe when the menu "Parameter" – "Surround Parameter" – "MODE" is set to "CINEMA" or "PL" (@ page

DTE2 : This parameter is availabe when the menu "Parameter" – "Surround Parameter" – "MODE" is set to "CINEMA" or "PL" (1) page 38).

#### NOTE:

\*1: When playing Dolby Digital and DTS signals.

\*2 : When playing Dolby Digital, DTS, DVD-Audio and Super Audio CD.

G							Signal	s and adjustabili	ty in the differe	ent modes					
etti	Surround mode						Paramete	er (default values	are shown in	parentheses)					
Getting Started		MODE	D00140175	LEVEL	DELAYTIME	Culture for	PRO LOG	IC II/IIx MUSIC	mode only	NEO:6 MUSIC mode only	EXT. IN only	Tana Cantral	Ni olet NA e ele	Da	RESTORER
arted		MODE	ROOM SIZE	LEVEL	DELAT HIVE	Subwoofer	PANORAMA	DIMENSION	CENTER WIDTH	CENTER IMAGE	SUBWOOFER ATT.	Tone Control	Night Mode	Room EQ	RESTORER
Co	PURE DIRECT, DIRECT	×	×	×	×	0	×	×	Х	×	×	×	O (OFF)	O (NOTE5)	0
Connections	DSD DIRECT	×	×	×	×	0	×	×	×	×	×	×	×	×	×
ctio	DSD MULTI DIRECT	×	×	×	×	×	×	×	×	×	×	×	×	×	×
suc	MULTI CH DIRECT	×	×	×	×	×	×	×	×	×	×	×	O (OFF)	O (NOTE5)	×
S	STEREO	×	×	×	×	×	×	×	×	×	×	(0 dB)	O (OFF)	O (OFF)	0
Setup	EXT. IN	×	×	×	×	×	×	×	×	×	0	×	×	×	×
	MULTI CH IN	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	×
Playback	WIDE SCREEN	×	×	(ON, 10)	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
yba	DOLBY PRO LOGIC IIx	O (CINEMA)	×	×	×	×	O (OFF)	(3)	(3)	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
c.k	DOLBY PRO LOGIC II	O (CINEMA)	×	×	×	×	O (OFF)	(3)	(3)	×	×	(0 dB)	O (OFF)	O (OFF)	0
Re	DTS NEO:6	O (CINEMA)	×	×	×	×	×	×	×	(0.3)	×	○ (0 dB)	O (OFF)	O (OFF)	0
mo	DOLBY DIGITAL	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	×
Remote Control	DTS SURROUND	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	×
Con	neural	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
tro	7CH STEREO	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
	SUPER STADIUM	×	O (medium)	(10)	×	×	×	×	×	×	×	O (NOTE3)	O (OFF)	O (OFF)	0
Multi-Zone	ROCK ARENA	×	(medium)	(10)	×	×	×	×	×	×	×	(NOTE4)	O (OFF)	O (OFF)	0
ti-Z	JAZZ CLUB	×	O (medium)	(10)	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
one	CLASSIC CONCERT	×	O (medium)	(10)	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
	MONO MOVIE	×	O (medium)	(10)	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
nfoi	VIDEO GAME	×	O (medium)	(10)	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
rma	MATRIX	×	×	×	(30 ms)	×	×	×	×	×	×	(0 dB)	O (OFF)	O (OFF)	0
Information	VIRTUAL	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	(OFF)	O (OFF)	0
Troubleshooting		NOTE3 : BASS NOTE4 : BASS	djustable / Not adjustable 5 +6 dB, TREBLE 5 +6 dB, TREBLE be used accordir	0 dB +4 dB	t Mode" setting						<u>.</u>				

# Differences in Surround Mode Names Depending on the Input Signals

Button								Inp	ut signals							
					DTS				DOLB	Y DIGITAL			DVD-A	UDIO	Super A	udio CD
Surround mode	Note	ANALOG	LINEAR PCM	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audio (2ch)	DSD (multi ch)	DSD (2ch)
STANDARD																
DTS SURROUND																
DTS ES DSCRT6.1	* 1	×	×		×	×	×	×	×	×	×	×	×	×	×	×
DTS ES MTRX6.1	* 1	×	×	×		×	×	×	×	×	×	×	×	×	×	×
DTS SURROUND		×	×	0	0		×	×	×	×	×	×	×	×	×	×
DTS 96/24		×	×	×	×	×		×	×	×	×	×	×	×	×	×
DTS + PLIIx CINEMA	*2	×	×	0	0	0	0	×	×	×	×	×	×	×	×	×
DTS + PLIIx MUSIC	* 1	×	×	0	0	0	0	×	×	×	×	×	×	×	×	×
DTS + NEO:6	*1	×	×	×	0	0	0	×	×	×	×	×	×	×	×	×
DTS NEO:6 CINEMA		0	0	×	×	×	×	×	×	×	×	0	×	0	×	0
DTS NEO:6 MUSIC		0	0	×	×	×	×	×	×	×	×	0	×	0	×	0
DOLBY SURROUND																
DOLBY DIGITAL EX	*1	×	×	×	×	×	×	0	0	0	0	×	×	×	×	×
DOLBY DIGITAL		×	×	×	×	×	×	0	•		•	×	×	×	×	×
DOLBY DIGITAL + PLIIx CINEMA	*2	×	×	×	×	×	×		0	0	0	×	×	×	×	×
DOLBY DIGITAL + PLIIx MUSIC	* 1	×	×	×	×	×	×	0	0	0	0	×	×	×	×	×
DOLBY PRO LOGIC IIx CINEMA		0	0	×	×	×	×	×	×	×	×	•	×	0	×	0
DOLBY PRO LOGIC IIx MUSIC		0	0	×	×	×	×	×	×	×	×	0	×	0	×	0
DOLBY PRO LOGIC IIx GAME		0	0	×	×	×	×	×	×	×	×	0	×	0	×	0
DOLBY PRO LOGIC II CINEMA		0	0	×	×	×	×	×	×	×	×	0	×	0	×	0
DOLBY PRO LOGIC II MUSIC		0	0	×	×	×	×	×	×	×	×	0	×	0	×	0
DOLBY PRO LOGIC II GAME		0	0	×	×	×	×	×	×	×	×	0	×	0	×	0
DOLBY PRO LOGIC		0	0	×	×	×	×	×	×	×	×	0	×	0	×	0
neural		0	0	×	×	×	×	×	×	×	×	×	×	0	×	×
MULTI CH IN																
MULTI CH IN		×	×	×	×	×	×	×	×	×	×	×		×		×
MULTI IN + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	0	×	0	×
MULTI IN + PLIIx MUSIC	* 1	×	×	×	×	×	×	×	×	×	×	×	0	×	0	×
MULTI CH IN 7.1		×	×	×	×	×	×	×	×	×	×	×	• (7.1)	×	×	×

# NOTE:

 $\ast$  1: This mode is not available when the surround back speaker setup is set to "None".

\*2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None".

• : Mode selectable in initial status

 $\mathbb{O}$  : Mode fixed when "AFDM" is "ON"

 $\bigcirc$  : Selectable mode

 $\times$ : Non-selectable mode

Getting Started Connections Setup Playback Remote Control Multi-Zone Information

Troubleshooting

Button								Inpu	ıt signals							
					DTS				-	Y DIGITAL			DVD-A	UDIO	Super A	Audio CD
Surround mode	Note	ANALOG	LINEAR PCM	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DVD- Audio (multi ch)	DVD- Audio (2ch)	DSD (multi ch)	DSD (2ch)
DIRECT																
DIRECT		0	0	0	0	0	0	0	0	0	0	0	×	0	×	0
DSD DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	0
DSD MULTI DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	0	×
MULTI CH DIRECT		×	×	×	×	×	×	×	×	×	×	×	0	×	0	×
M DIRECT + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	0	×	0	×
M DIRECT + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	0	×	0	×
M DIRECT 7.1		×	×	×	×	×	×	×	×	×	×	×	0	×	×	×
PURE DIRECT																
PURE DIRECT		0	0	0	0	0	0	0	0	0	0	0	×	0	×	0
DSD PURE DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	0
DSD MULTI PURE		×	×	×	×	×	×	×	×	×	×	×	×	×	0	×
MULTI CH PURE DIRECT		×	$\times$	×	×	×	×	×	×	×	×	×	0	×	0	×
M PURE D + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	0	×	0	×
M PURE D + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	0	×	0	×
M CH PURE DIRECT 7.1		×	×	×	×	×	×	×	×	×	×	×	0	×	×	×
DSP SIMULATION																
7CH STEREO	*3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WIDE SCREEN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUPER STADIUM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROCK ARENA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAZZ CLUB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLASSIC CONCERT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MONO MOVIE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VIDEO GAME		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MATRIX		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VIRTUAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STEREO																
STEREO			•	0	0	0	0	0	0	0	0	0	0		0	

#### NOTE :

\*1: This mode is not available when the surround back speaker setup is set to "None".

\*2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None".

\*3: If the surround back speaker setup is set to "None", then "5CH STEREO" is displayed.

• : Mode selectable in initial status

○: Selectable mode

 $\times$ : Non-selectable mode

# **Relationship Between Video Signals and Monitor Output**

Video convert		Input signals			MONITOR OUT						
Video convert	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO			
	×	×	×	×	X	×	×	×			
	×	×	×	0	VIDEO	VIDEO	VIDEO	VIDEO			
	×	×	0	×	S-VIDEO	S-VIDEO	S-VIDEO	S-VIDEO			
	×	×	0	0	S-VIDEO	S-VIDEO	S-VIDEO	S-VIDEO			
	×	○ (1080p)	×	×	X	COMPONENT	×	×			
	$\times$	○ (480p ~ 720p)	$\times$	×	COMPONENT	COMPONENT	×	×			
	×	🔘 (480i / 576i)	×	×	COMPONENT	COMPONENT	COMPONENT	COMPONENT			
	×	○ (1080p)	×	0	VIDEO	COMPONENT*1	VIDEO	VIDEO			
	$\times$	(480p ~ 720p)	×	0	COMPONENT*1	COMPONENT*1	×	VIDEO			
	×	🔘 (480i / 576i)	×	0	COMPONENT*1	COMPONENT*1	COMPONENT	VIDEO			
	$\times$	○ (1080p)	0	×	S-VIDEO	COMPONENT*2	S-VIDEO	S-VIDEO			
	×	(480p ~ 720p)	0	×	COMPONENT*2	COMPONENT*2	S-VIDEO	S-VIDEO			
	$\times$	🔾 (480i / 576i)	0	×	COMPONENT*2	COMPONENT*2	S-VIDEO	S-VIDEO			
	$\times$	○ (1080p)	0	0	S-VIDEO	COMPONENT*2	S-VIDEO	S-VIDEO			
ON	×	○ (480p ~ 720p)	0	0	COMPONENT*2	COMPONENT*2	S-VIDEO	S-VIDEO			
	$\times$	🔾 (480i / 576i)	0	0	COMPONENT*2	COMPONENT*2	S-VIDEO	S-VIDEO			
	0	×	×	×	HDMI	×	×	×			
	0	×	×	0	HDMI*1	VIDEO	VIDEO	VIDEO			
	0	×	0	×	HDMI*2	S-VIDEO	S-VIDEO	S-VIDEO			
	0	×	0	0	HDMI*2	S-VIDEO	S-VIDEO	S-VIDEO			
	0	🔘 (Other than 480i / 576i)	×	×	HDMI	COMPONENT	×	×			
	0	🔘 (480i / 576i)	×	×	HDMI	COMPONENT	COMPONENT	COMPONENT			
	0	○ (1080p)	×	0	HDMI*1	COMPONENT*1	VIDEO	VIDEO			
	0	○ (480p ~ 720p)	×	0	HDMI*1	COMPONENT*1	×	VIDEO			
	0	🔘 (480i / 576i)	×	0	HDMI*1	COMPONENT*1	COMPONENT	VIDEO			
	0	🔘 (Other than 480i / 576i)	0	×	HDMI*2	COMPONENT*2	S-VIDEO	S-VIDEO			
	0	🔘 (480i / 576i)	0	×	HDMI*2	COMPONENT*2	S-VIDEO	S-VIDEO			
-	0	🔘 (Other than 480i / 576i)	0	0	HDMI*2	COMPONENT*2	S-VIDEO	S-VIDEO			
	0	🔘 (480i / 576i)	0	0	HDMI*2	COMPONENT*2	S-VIDEO	S-VIDEO			

○: Signal input

× : No signal

480p ~ 720p: 480p / 576p / 1080i / 720p

× : Not output

\*1 : On-screen display superimposed on video signal and output.

\*2 : On-screen display superimposed on S-Video signal and output.

COMPONENT or HDMI :

On-screen display only displayed for **MENU** button and the main remote control unit's **PARA** button.

# ø

• The main zone video conversion function is compatible with the following format: NTSC, PAL, SECAM, NTSC4.43, PAL-N, PAL-M and PAL-60.

• When SECAM signals of video input are up-converted, the signals are output in PAL format from the S-Video connector.

• When the input signal is a component 1080i or 720p signal, the signal upconverted to HDMI is output with that resolution or 1080p.

• When the input signal is a video, S-Video or component 480i, 480p, 576i or 576p signals, the signal up-converted to HDMI is output according to the setting made at "Resolution" under "HDMI Setup" – "HDMI Video Setup" (127 page 28).

• Signals up-converted to HDMI are output to the HDMI monitor with the resolution at which they are input.

Troubleshooting

\C.I	S-VIDEO		Input sig	nals			MONITO	OR OUT					
Video convert	MONITOR OUT	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO				
	_	×	X	×	×	X	X	X	X				
	—	×	X	×	0	X	X	X	VIDEO				
	—	×	×	0	×	×	X	S-VIDEO	X				
	Used	×	×	0	0	×	X	S-VIDEO	VIDEO*2				
	Not used	×	×	0	0	×	X	—	VIDEO				
	_	×	0	×	×	×	COMPONENT	×	X				
	—	×	0	×	0	×	COMPONENT*1	×	VIDEO				
	—	×	0	0	×	×	COMPONENT*2	S-VIDEO	X				
	Used	×	0	0	0	×	COMPONENT*2	S-VIDEO	VIDEO*2				
OFF	Not used	×	0	0	0	×	COMPONENT*1	—	VIDEO				
UFF	_	0	×	×	×	HDMI	X	×	X				
	—	0	×	×	0	HDMI	X	×	VIDEO				
	_	0	×	0	×	HDMI	Х	S-VIDEO	X				
	Used	0	×	0	0	HDMI	X	S-VIDEO	VIDEO*2				
	Not used	0	×	0	0	HDMI	X	—	VIDEO				
	_	0	0	×	$\times$	HDMI	COMPONENT	×	X				
	—	0	0	×	0	HDMI	COMPONENT*1	×	VIDEO				
	—	0	0	Ó	×	HDMI	COMPONENT*2	S-VIDEO	X				
	Used	0	0	Ó	Ó	HDMI	COMPONENT*2	S-VIDEO	VIDEO*2				
	Not used	0	0	Ó	Ó	HDMI	COMPONENT*1	_	VIDEO				

 $\bigcirc$ : Signal input  $\times$ : No signal

× : Not output
 \*1 : On-screen display superimposed on video signal and output.
 \*2 : On-screen display superimposed on S-Video signal and output.

COMPONENT or HDMI :

On-screen display only displayed for MENU button and the main remote control unit's PARA button.

# **ZONE2** monitor out

Inp	out	Monitor out						
S-VIDEO	VIDEO	VIDEO						
×	×	×						
×	0	(VIDEO)						
0	×	○ (S-VIDEO)						
0	0	(S-VIDEO)						
○ : Signal presen × : No signal	t	<ul> <li>○ : Output present</li> <li>× : No output</li> </ul>						

Getting Started Connections Setup Playback Remote Control Multi-Zone Information

# Troubleshooting

If a problem should arise, first check the following:

- 1. Are the connections correct?
- 2. Is the set being operated as described in the owner's manual?
- 3. Are the other components operating properly?

If this unit does not operate properly, check the items listed in the table below. Should the problem persist, there may be a malfunction.

In this case, disconnect the power immediately and contact your store of purchase.

### [General]

Symptom	Cause	Countermeasure	Page
Power does not turn on, or turns off directly after it was turned on.	• Connection of the power cord is faulty.	• Check that the power plugs are securely inserted into the AVR- 2808Cl's AC inlets and the wall power outlet.	20
No sound is produced from speakers.	• Connection with the input devices or connection of the speaker cables is faulty.	Check the connections.	9
	• Device you want to play and set input source do not match.	• Select an appropriate input source.	43
	• Master volume is turned too low.	<ul> <li>Adjust the master volume to an appropriate level.</li> </ul>	43
	• Mute mode is set.	<ul> <li>Cancel the mute mode.</li> </ul>	43
	<ul> <li>Headphones are connected.</li> </ul>	<ul> <li>Disconnect the headphones.</li> </ul>	43
	• No digital signals are being input.	<ul> <li>Select an input source for which the digital input setting has been made.</li> </ul>	35
	• The connectors to which the digital inputs are assigned and the settable input modes do not match.		34
Display is off.	• The "Dimmer" setting is set to "OFF".	• Set to something other than "OFF".	32
	• The PURE DIRECT mode is set.	<ul> <li>Set a surround mode other than the PURE DIRECT mode.</li> </ul>	38
"DOLBY DIGITAL" indicator does not appear on display.	<ul> <li>DVD player's digital audio output setting is not proper.</li> </ul>	• Check the DVD player's audio output setting. For details, read the DVD player's operating instructions.	-

Symptom	Cause	Countermeasure	Page
Power turns off suddenly and power indicator	• Protection circuit activated due to rise of internal temperature.	• Turn off the power, wait for the set to fully cool down, then turn the power back on.	10
flashes red.		• Place the set in a well-ventilated place.	10
	<ul> <li>Core wires of two speakers are touching each other or a core wire is sticking out of the terminal and touching the set's rear panel, activating the protection circuit.</li> </ul>	then twist the core wires tightly or terminate the speaker cables,	10
	• Speakers with an impedance other than specified are being used.		10
	• Set is damaged.	• Turn off the power and contact a DENON service center.	-

### [Remote Control Unit]

Symptom	Cause	Countermeasure	Page
Set does not work	• Batteries are worn.	• Replace with new batteries.	3
properly when	• You are operating outside of the	• Operate within the specified	3
remote control	specified range.	range.	
unit operated.	• Obstacle between main unit and remote control unit.	• Remove the obstacle.	3
	<ul> <li>The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment.</li> </ul>		3
	• The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.).		3
	• The remote ID of the main unit and remote control unit do not match.		54

# Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting

### [Audio]

Symptom	Cause	Countermeasure	Page
No sound is produced from center speaker.	• Monaural source (monitor, AM station, etc.) being played in STANDARD mode.	• The mode is set to something other than "STANDARD".	37
No sound is produced from surround speakers.	• The surround mode is set to "STEREO", "DIRECT" or "PURE DIRECT".	• Set to a surround playback mode.	36, 37
No sound is produced from surround back	• The surround back speaker's power amplifier is assigned to a different channel.	• Check the setting and change it as necessary.	31
speaker.	• Surround back speaker setting is set to "None".	• Set to something other than "None".	26
	• Surround mode not set to a mode for 6.1- or 7.1-channel playback.	<ul> <li>Select a surround playback mode.</li> </ul>	36, 37
No sound is produced from	• Subwoofer's power not turned on.	• Turn on the subwoofer's power.	-
subwoofer.	• The "Subwoofer" setting at "Speaker configuration" is set to "No".	• Set to "Yes".	26
	• The subwoofer is not properly connected.	• Check the connections.	9 50
	• The subwoofer's volume is turned off.	• Adjust the subwoofer's volume to an appropriate level.	
No test tones are produced when main remote control unit's <b>TEST</b> <b>TONE</b> button is pressed.	• Surround mode not set to "STANDARD".	• Set to the STANDARD mode.	37
DTS sound is not output.	• DVD player's audio output setting is not set to bitstream.	• Set the DVD player. For details, refer to the DVD player's operating instructions.	-
	• DVD player is not compatible with DTS sound playback.	• Use a DTS-compatible player.	-
	• The AVR-2808CI's "Decode Mode" setting is set to "PCM".	• Set to the "Auto" or "DTS" mode.	34
HDMI audio signals are not output from speakers.	The "Manual Setup" – "HDMI Setup" – "HDMI Audio Setup" – "HDMI Audio Out" setting is set to "TV".	• Set to "AMP".	27

Symptom	Cause	Countermeasure	Page
No sound is output from the monitor connected with HDMI connections.	The "Manual Setup" – "HDMI Setup" – "HDMI Audio Setup" – "HDMI Audio Out" setting is set to "AMP".		27

## [Video]

Symptom	Cause	Countermeasure	Page
No picture appears.	• The connections between the AVR-2808CI and monitor are faulty.	Check the connections.	11 ~ 20
	• The monitor's input setting is wrong.	• Set properly.	_
	• PURE DIRECT mode is set.	• Cancel the PURE DIRECT mode.	38
	• The player is connected using the component input connectors, the monitor is connected using the video (yellow) or S-Video output connectors.	signals are not down-converted.	_
No picture appears	• The connections to the HDMI connectors are faulty.	Check the connections.	11
with HDMI	• HDMI input setting is improper.	Check the HDMI input setting.	35
connections.	• The monitor is not compatible with copyright protection (HDCP).	• Connect a monitor that is compatible with copyright protection (HDCP).	11
	• The HDMI format of the player and monitor do not match.	<ul> <li>Match the HDMI format of the player and monitor.</li> </ul>	11
Picture cannot be recorded.	Input source does not match recorder's video connection connector (video or S-Video).	• The video conversion function does not work for the REC OUT connectors. Match the input source and recorder connections.	15
DVDs cannot be copied on a VCR.	_	• This is not a malfunction. Most movie software includes copy prevention signals and cannot be copied.	-

### [iPod]

Symptom	Cause	Countermeasure	Page
iPod cannot be played.	• The input source assigned to "iPod dock" is not selected.	<ul> <li>Switch to the input source assigned at "iPod dock".</li> </ul>	36
	• Cable is not properly connected.	Reconnect.	14
		• Plug the Control Dock for iPod's AC adapter into a power outlet.	-

## [XM Satellite Radio]

Symptom	Cause	Countermeasure	Page
"CHECK ANTENNA" is displayed in the XM mode.	AVR-2808Cl's XM connector and the XM Mini-Tuner and Home Dock is not properly connected.	Check that the connections are correct.	18
"NO SIGNAL" is displayed in the XM mode.	• The signal cannot be received.	Reposition your XM Mini-Tuner and Home Dock antenna.	46
"OFF AIR" is displayed in the XM mode.	• The selected channel is not currently broadcasting.	• Select another channel.	45, 46
Receiving only XM channels 0 and 1.	• The XM Tuner is not activated.	Contact XM Radio.	45

# Specifications

Audio section		Tuner section	[FM]	[AM]		
Power amplifier Rated output:	Front (A, B): 110 W + 110 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) 140 W + 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.) Center: 110 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.) Surround: 110 W + 110 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) 140 W + 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)	Receiving Range: Usable Sensitivity: 50 dB Quieting Sensitivity: S/N (IHF-A): Total harmonic Distortion (at 1 kHz):	(note: $\mu$ V at 75 $\Omega$ /ohms, 0 dBf = 1 x 10 <sup>-15</sup> W) 87.5 MHz ~ 107.9 MHz 1.0 $\mu$ V (11.2 dBf) MONO 1.6 $\mu$ V (15.3 dBf) STEREO 23 $\mu$ V (38.5 dBf) MONO 77 dB STEREO 72 dB MONO 0.15 % STEREO 0.3 %	520 kHz ~ 1710 kHz 18 μV		
Dynamic power:	Surround Back: 110 W + 110 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) 140 W + 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.) 120 W × 2ch (8 Ω/ohms)	General Power supply: Power consumption:	AC 120 V, 60 Hz 6.0 A 0.3 W (Standby)			
Output terminals:	170 W x 2ch (4 Ω/ohms) Front: A or B 6 ~ 16 Ω/ohms	Maximum external dimensions: Weight:	434 (W) x 171 (H) x 420 (D) mm (17-3/32" x 6-4 12.8 kg (28 lbs 3.5 oz)	7/64" x 16-17/32")		
• Analog Input sensitivity / Input impedance:	A + B 8 ~ 16 Ω/ohms Center, Surround, Surr. Back: 6 ~ 16 Ω/ohms 200 mV / 47 kΩ/kohms	Main remote control unit (RC Batteries: Maximum external dimensions:	LR6/AA Type (two batteries) 63 (W) x 238 (H) x 31 (D) mm (2-31/64" x 9-3/8	" × 1-7/32")		
Frequency response: S/N: Distortion: Rated output:	10 Hz ~ 100 kHz — +1, -3 dB (DIRECT mode) 102 dB (IHF-A weighted) (DIRECT mode) 0.005 % (20 Hz ~ 20 kHz) (DIRECT mode) 1.2 V	Weight:       190 g (Approx 6.7 oz) (including batteries)         Sub remote control unit (RC-1071)         Batteries:       R03/AAA Type (two batteries)         Maximum external dimensions:       54 (W) × 115 (H) × 23 (D) mm (2-1/8" × 4-17/32")				
• Digital D/A output:	Rated output — 2 V (at 0 dB playback) Total harmonic distortion — 0.008 % (1 kHz, at 0 dB) S/N ratio — 102 dB Dynamic range — 96 dB	Weight: <ul> <li>* For purposes of improvement, specification</li> </ul>	80 g (Approx 2.8 oz) (including batteries) ons and design are subject to change without no			
Digital input: • Phono equalizer (PHONO input – REG Input sensitivity: RIAA deviation: S/N: Rated output: Distortion factor:	Format — Digital audio interface					
<ul> <li>Video section</li> <li>Standard video terminals Input / output level and impedance: Frequency response:</li> <li>S-Video terminals</li> </ul>	1 Vp-p, 75 Ω/ohms 5 Hz ~ 10 MHz — +0, –3 dB (when video convert set to "OFF")					
Input / output level and impedance: Frequency response: • Color component video terminal	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms C (color) signal — 0.286 Vp-p, 75 Ω/ohms 5 Hz ~ 10 MHz — +0, -3 dB (when video convert set to "OFF")					
Input / output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms PB / CB signal — 0.7 Vp-p, 75 Ω/ohms PR / CR signal — 0.7 Vp-p, 75 Ω/ohms					
Frequency response: 73	5 Hz $\sim$ 100 MHz — +0, –3 dB (when video convert set to "OFF")					
10						

### List of preset codes / Liste de codes préréglés

De	enon Amp			Gehua	00476		Sprucer	00144	C	Cairn	40157
D	Denon	81001, 82001, 83001, 84001		General Instrument	00476, 00810, 00276, 00003		Starcom	00003		California Audio Labs	
				Gibralter GNI	00003		StarHub	00276		Cambridge	40157
n.	enon Tuner			-	01466		Sumitomo	01500, 01504		Cambridge Audio Cambridge	40157
_				GoldStar	00144	-	Supercable	00276		Soundworks	40157
D	Denon (Analog)	52863, 52795, 52800, 52805	H	Hitachi	00003, 00008	Т	Taihan	00778		Carver	40157, 4
	Denon (XM Radio)	52864, 52812, 52813, 52814		Hongtian Jiangsu	01462		TCL	01445		CDC	40420
				Hwalin	00303		Telewest	01068		CEC	40420
De	enon iPod		. !	Insight	00476, 00810		Time Warner cable	01877		Copland	40393
_		70045 70040 70047 70040	J	Jerrold	00476, 00810, 00276, 00003		TongKook	00840		Curtis Mathes	40032
U	Denon	72815, 72816, 72817, 72818		Jiuzhou	01445		Torx	00003		Cyrus	40157
			Ķ	KNC	00008		Toshiba	00000, 01509	D	Denon	40873, 4
Ca	able		L	LG	00144		Trans PX	00276, 00303			[42867]*
Α	A-Mark	00008, 00144	Μ	Macab	00817		TS	00003, 00303		DKK	40000
<b>^</b>	ABC	00237, 00003, 00008		Madritel	01230	U	United Cable	00276, 00003	_	DMX Electronics	40157
	Accuphase	00237, 00003, 00008		Maspro	01510		US Electronics	00276, 00003, 00008		Dual	40003
	Accupitase	00003		Matav	01082	V	Videoway	00000		Dynaco	40157
. 1	Action	00237		Memorex	00000		Visiopass	00817		Dynamic Bass	40179
				Mitsubishi	00003	Ζ	Zenith	00000, 00525, 00899	F	Fisher	40000, 4
	Active	00237		Motorola	01376, 00476, 00810, 00276,				G	Garrard	40393, 4
	ADB Aichi Denshi	01230 01512		MS	01187 00303	C	ahla/D\/P_Ca	mbination <b>%</b> 1		Genexxa	40000, 4
			NI				-			Goldmund	40157
1	Americast	00899	Ν	NEC	01496	A	Americast	00899		Grundig	40157
	Amstrad	01222		Noos	00817	D	Digeo	01187	H	Hafler	40173
	Archer	00237		Nova Vision	00008	F	Freebox	01482		Harman/Kardon	40100, 4
	Auna	01230		Novaplex	80000	G	General Instrument			Hitachi	40032
-	Austar	00276	•	NTL	00276, 00003, 01060, 01068	J	Jerrold	00810	_ 1	Inkel	40157
B	BCC	00276	0	Oak	00303	Μ	Motorola	01376, 00810, 01187		Integra	40101
	Bell South	00899		Ono	01068	Ρ	Pace	01877, 00237	J	Jerrold	40003
	Bestlink	00303		Optus	00276, 01060		Pioneer	01877, 00877		JVC	40032, 4
	Birmingham Cable Communications	00276	Ρ	Pace	01877, 00877, 00237, 00008, 01060, 01068, 01577	S	Scientific Atlanta	01877, 00877	К	Kenwood	40681, 4
	British Telecom	00003		Panasonic	00000, 00008, 00144, 01488		Sony	01006	ĸ		40028, 4
C	Cable & Wireless	01068		Paragon	00000, 00008, 00525		Supercable	00276		KLH	41318
U I		00008		Penney	00000	Т	Time Warner cable	01877		Krell	40157
	Century	01462		Philips	01305, 00317, 00817	Ζ	Zenith	00899	L	Linn	40157
n I	Coship			Pioneer	01877, 00877, 00144, 00533,					Loewe	40157
D	Daehan	00778			01500	C	D Player			Luxman	40393
1.1	Daeryung	01877, 00877, 00477, 00008		Pulsar	00000		<b>_</b>			LXI	40179
. 1	Digeo	01187		PVP Stereo Visual Matrix	00003	Α	Acoustic Research	40420	M	0	40157
1	Director	00476	0	Quasar	00000		Advantage	40032		Marantz	40029, 4
<u>, I</u>	DX Antenna	01500	Ř	RadioShack	00303		Aiwa	40157		Matsui	40157
E,	Emerson	00303		Regal	00276		Arcam	40157		MCS	40029
<u>,</u> I	Encon	00008		Runco	00000		Audio Research	40157	_	Memorex	40000, 4
F.,	Fosgate	00276	S	Sagem	00817		Audiolab	40157		Meridian	40468 40157
	Foxtel	01222	3	Salora	00000		Audiomeca	40157		Micromega	40157
	France Telecom				00000, 00000, 00144, 00778,		Audioton	40157		Miro	40157
	Freebox	01482		Samsung	00840, 01060, 01666		AVI	40157		Mission	40000
	Fujitsu	01497		Scientific Atlanta	01877, 00877, 00477, 00237,	В	Balanced Audio	40157			40157
0	Galaxi	00008		Skyworth	00003, 00000, 00008, 01510 01464	-	Technology Burmester	40420		Modulaire	40000, 40
G	GE										

	Musical Fidelity	40393
40303	Myryad	40157
N	NAD	40000, 40721
	Naim	40157
	NSM	40157
40179 <b>O</b>	Onkyo	40868, 40101
10173	Optimus	40000, 40032, 40037, 40087, 40179, 40393, 40420, 40468
	Orion	40393
P	Panasonic	40029, 40303, 40388, 40752
	Parasound	40420
	Penney	40029
40003, 40766, * , 42868	Philips	40157
, 42000	Pioneer	40032, 40101, 40468
	Polk Audio	40157
	Proceed	40420
	Proton	40157
0	QED	40157
40179	Quad	40157
40420	Quasar	40029
40032, 40037, 40179 <b>R</b>	Radiola	40157
40032, 40037, 40179	RadioShack	40000, 40032, 40179, 40420, 40468
	RCA	40032, 40053, 40179, 40420, 40468
40157, 40173	Realistic	40000, 40032, 40087, 40179, 40420, 40468
	Restek	40157
	Revox	40157
	Roksan	40420
	Rotel	40157, 40420
40072	Royal	40420
40000, 40029, 40157, <b>S</b>	SAE	40157
40037, 40036, 40190	Saisho	40000
	Sansui	40000, 40157
	Sanyo	40000, 40087, 40179
	SAST	40157
	Sears	40179
	Sharp	40037
	Siemens	40157
10157	Silsonic	40036
40157	Simaudio	40157
	Sonic Frontiers	40157
40032, 40179, 40420,	Sony	40490, 40000, 40100, 41364, 40185
	Sugden	40157
	Sylvania	40157
Т	TAG McLaren	40157
	Tandy	40032
40032, 40087, 40179,	Tascam	40393, 40420
40032, 40087, 40179, 40468	Теас	40490, 40393, 40420
	Technics	40029, 40303
	Techwood	40303
		PRESET CODE 1

	Thomson	40053
	Thorens	40157
	Thule Audio	40157
	Tokai	40420
U	Universum	40157, 40053
V	Victor	40072
W	Wadia	40393
	Wards	40000, 40032, 40157, 40053, 40087, 40179
Y	Yamaha	40490, 40868, 40032, 40036
	Yorx	40000

### **CD Recorder** D Denon 40766, 42868 J JVC 40072 R RCA 40053, 40420

S Sony 40000, 40100, 41364 T Teac 40420 Thomson 40053

Tá	ape Deck	
Α	Aiwa	20029, 20197, 20200, 21315
	Akai	20283, 20439
	Arcam	20076
	Audiolab	20029
C	Carver	20029
D	Denon	20076, 20371, 21311, <b>[22471]</b> *
F	Fisher	20074
G	Garrard	20308, 20309, 20375, 20439
	Genexxa	20439
	GoldStar	20375
	Grundig	20029, 20375
Н	Harman/Kardon	20182, 20029, 21314
L	Inkel	20070, 20071, 20337
J	JVC	20244, 20273, 20274, 20303 20304, 20310, 21309
K	Kenwood	20070, 20071, 20092, 20233 20234, 21364
L	LG	20375
	Luxman	20308, 20309
Μ	Magnavox	20029
	Marantz	20029, 20009
	Memorex	20099
	Mitsubishi	20283, 20439
	Myryad	20029
0	Onkyo	20135, 20136, 20282
	Optimus	20027, 20220, 20337, 20439
	Orion	20308, 20309
Ρ	Palladium	20375
	Panasonic	20229
	Philips	20029, 20229

	Phonotrend	20337	R
	Pioneer	20027, 20220, 20099, 20109, 21306, 21312	S
	Polk Audio	20029	
R	Radiola	20029	
	RCA	20027, 20220	
	Revox	20029	
si	Sansui	20029, 20009	
	Sanyo	20074	
	Sharp	20231, 20371	-
	Sherwood	20337	Т
	Sonic	20375	
	Sony	20243, 20170, 20291, 20234, 21313	V
٢.	TaeKwang	20439	
	Tandberg	20109	
	Теас	20280, 20283, 20289, 20308, 20309	X Z
	Technics	20229	~
	Technovox	20229	
	Thorens	20029	S
	Universum	20375, 20439	Α
	Victor	20244, 20273, 20274	
	Wards	20027, 20029	
	Wharfedale	20439	
	Yamaha	20097, 20094	
ł	DTV Tuner * ABS	01272	
	Accurian	01653	
	Alienware	01272	
	CyberPower	01272	
)	D-Link	01554	
. 1	Dgtec	01363	
	Epson	01563	
3   1	Gateway	01272	
1	Hewlett Packard	01272, 01267	
	Howard Computers	01272	
		01272, 01267 01272	
e l	Hush iBUYPOWER	01272	
	LG	01272	
-			
Л	Linksys Media Center PC	01272, 01365 01272	
	Microsoft	01272, 01805	
	Mind	01272, 01805	
	Motorola		
J I	Niveus Media	01363	
		01272 01272	
2	Northgate Packard Bell	01272	
-	Packaru Bell Panasonic	01272	
	Pioneer	01010	
	TIONEEL	01010	

R	Ricavision	01272
S	Samsung	01190, 01490
	Sensory Science	01126
	Sharp	01010
	SMC	01456
	Sony	01272, 01324, 01364
	Stack 9	01272
	Sylvania	01563
	Systemax	01272
T	Tagar Systems	01272
	Toshiba	01272
	Touch	01272
V	Viewsonic	01272, 01329
	Vizio	01126
	Voodoo	01272
X	Xbox	01805
Z	ZT Group	01272
S	atellite Recei	vor
Α	@sat	01300
	@Sky	01334
	A-Mark	00345
	ABsat	00123, 00713 00642, 01259, 01367, 01418,
	ADB	01473, 01491
	AGS	00710
	Aiwa	01514
	Akai	00200
	Alba	00455, 00713, 01284, 01659, 01811
	Allsat	00200, 01043
	Alltech	00713
	Allvision	01232, 01334, 01412
	AlphaStar	00772
	Amitronica	00713
	Amstrad	00345, 00713, 00795, 00847, 00863, 00882, 01113, 01175, 01693, 01801
	Anglo	00713
	Ankaro	00713
	AntSat	01083
	Apollo	00455
	Arcon	01043, 01075
	A	00200

00200

01300

00200

01334

00713

00853

00710

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Astro01173 01133Attantic Telephone01333Atsat01300Atsat01301Atsat01672Aurora0642, 00879, 01333, 01433Austar00497, 00642, 00863, 00879, 01176, 01259Axiel00497, 00642, 00863, 00879, 01176, 01259Axiel00497, 00642, 00863, 00879, 01176, 01259Axiel00497, 00642, 00863, 00879, 01176, 01259Axiel00497, 00642, 00863, 00879, 01176, 01259Axiel01457, 01659Axis01111B@ytronic01412Beko00455Bell ExpressVu00775Black Diamond01284Black Diamond0173Black Diamond00710, 01251Brainwave00658, 01672British Sky Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Broadcasting01284, 01645, 01672, 01743, 01811Canal00853, 01339, 01853Canal00853, 01339, 01853Canal00853, 01339, 01853Canal00853, 01339, 01853Canal00853, 01339, 01853Canal00853, 01339, 01853Canal00145Chipenke0123, 00710Chess01672Chasic01672 </th <th></th> <th>00470 00050 04000 04400</th>		00470 00050 04000 04400
Atlantic Telephone01333Atsat01300Atsy01334Audioline01672Aurora00642, 00879, 01333, 01433Austar01477, 01642, 00863, 00879, 01176, 01259Axiel00170Axiel01457, 01659Axis01111B@ytronic01412Beko00455Bell ExpressVu00775Blaupunkt0173Blaupunkt0173Blaupunkt00710, 01251Broadcasting00713, 01232, 01366Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Chanal Lig00853Canal Cig00847, 01175, 01662, 0184Cig0143, 01645, 01672, 01743Cig0143, 01645, 01672, 01745 <td>Astro</td> <td>00173, 00658, 01099, 01100, 01113</td>	Astro	00173, 00658, 01099, 01100, 01113
Atsky01334Audioline01672Aurora00642, 00879, 01333, 01433Austar01477, 01642, 00863, 00879, 01176, 01259Axiel00710Axial01457, 01659Axis01111B@ytronic01412Beko00455Bell ExpressVu00775Big Sat01457Black Diamond01284Blaupunkt00173Boca00713, 01232, 01366Boston00713, 01232, 01366Brainwave00658, 01672British Sky Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Broadcasting00853, 01622Canal Stellite00853, 01339, 01853Canal Stellite00853, 01339, 01853Canal Stellite01413, 01567Chaparal00216Chili01718CityCom </td <td>Atlantic Telephone</td> <td></td>	Atlantic Telephone	
Audioline01672Aurora00642, 00879, 01333, 01433Austar01497, 00642, 00863, 00879, 01176, 01259Axiel00710Axiel01111Raya01457, 01659Axis01111Raya01412Beko00455Bell ExpressVu00775Big Sat01457Black Diamond01284Blaupunkt00173Blos Diamond01232, 01366Boston00710, 01251Brainwave00658, 01672British Sky Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Broadcasting00853, 01339, 01853Canal00853, 01339, 01853Canal00853, 01339, 01853Canal00853, 01339, 01853Canal00216Chaparal00216Chaparal00219, 00341, 00165Chili01718CityCom01232, 01366, 01412, 01413Condor01437Cinal01695Cin	Atsat	01300
Aurora00642, 00879, 01333, 01433Austar01497, 00642, 00863, 00879, 01176, 01259Axiel00710Axial01457, 01659Axis01111B@ytronic01412Beko00455Bell ExpressVu00775Big Sat01457Black Diamond01284Blaupunkt00713, 01232, 01366Boston00710, 01251Brainwave00658, 01672British Sky00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Broadcasting00853, 01622Canal00853, 01339, 01853Canal00853, 01339, 01853Canal-00853, 01339, 01853Canal-00216Chaparal00216Chaparal00219, 00344, 00816, 01412, 01413CityCom01230, 01364, 01412, 01413CityCom01232, 01366, 01412, 01413Cindac01242, 01366, 01412, 01413<	AtSky	01334
Austar00497, 00642, 00863, 00879, 01176, 01259Axiel00710Axiel01457, 01659Axis01111B@ytronic01412Beko00455Bell ExpressVu00775Big Sat01457Black Diamond01284Blaupunkt00713Boca00713, 01232, 01366Boston00710, 01251Brainwave00658, 01672British Sky00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Broadcasting00853, 01622Broadcasting00853, 01622Canal Canal00853, 01339, 01853Canal-Qiptial00853, 01339, 01853Canal-Qiptial00853, 01334, 01626Chipenkee0123, 00710Chess01413, 01567Chili0178Chaparal0129, 00394, 00814, 01076Chili0143Chili01437Chaparat01695Chili01437Chaparat01695Chili <t< td=""><td>Audioline</td><td>01672</td></t<>	Audioline	01672
Austal01176, 01259Axiel00710Axiel00710Axis01111@qytronic01412Beko00455Bell ExpressVu00775Big Sat01457Black Diamond01284Blaupunkt00713Bloca00713, 01232, 01366Boston00710, 01251Brainwave00658, 01672British Sky00847, 01175, 01662, 01847Broca00713, 01232, 01366, 01847Brocadcasting00847, 01175, 01662, 01847Brocadcasting00847, 01175, 01662, 01847Brocadcasting00847, 01175, 01662, 01847Brocadcasting00853, 01622Bubu Sat00713Bush01811Canal00853, 01339, 01853Canal Quital00853, 01339, 01853Canal Satellite00853, 01339, 01853Canal-Liptical00216Cherokee0123, 00710Chess01713, 01085, 01334, 01626Chili01718CityCom01230, 00394, 00818, 01075,CityCom01230, 01384, 01645Charonic0143Condor0143Condor0143Condor0140CityCom01232, 01366, 01412, 01413Condor0140Continental Edison01695Consigiital010284Consodigital01284	Aurora	00642, 00879, 01333, 01433
Axiel         00710           Axiel         00710           Axis         01111           Baytonic         01457, 01659           Beko         00455           Bekn         00455           Bell ExpressVu         00775           Big Sat         01457           Black Diamond         01284           Blaupunkt         00713           Boca         00713, 01232, 01366           Boston         00710, 01251           Brainwave         00658, 01672           British Sky         00847, 01175, 01662, 01847           Broaclassting         00853, 01339, 01853           <	Austar	
Axil01457,01659Axis01111B@ytronic01412Beko00455Bell ExpressVu00775Big Sat0113Black Diamond01284Blaupunkt00173Bloca00713,01232,01366Boston00710,01251Brainwave00658,01672British Sky Broadcasting00847,01175,01662,01847Broadcasting00847,01175,01662,01847Broad00710,01296Bub Sat00847,01175,01662,01847Broad00710,01296Bub Sat00710,01296Bub Sat00853,01622Canal00853,01622Canal Ougto01413,01657,01743,0181Canal Canal00853,01339,01853Canal-00853,01339,01853Canal-00216Cherokee0123,00710Chess00173,01085,01334,01626Chili01718CityCom0123,0034,00818,01075,01572,01743,01752,01743,01752,01743,01753,01622Chaparral00853,01622Chaparral00853,01622Chaparral0123,00710Chess01143,01567Chili01718CityCom0123,00710Chess01672Classic01672Conag0122,01366,01412,01413Condor01232,01366,01412,01413Condor0124,01456,01412,01413Conda01695Contaic01695Contaic01695Contaic01695Contaic01457Contaic<		
Axis         01111           B@ytronic         01412           Beko         00455           Bell ExpressVu         00775           Big Sat         01457           Black Diamond         01284           Blaupunkt         00173           Blue Sky         00713           Bloca         00713, 01232, 01366           Boston         00710, 01251           Brainwave         00658, 01672           British Sky         00847, 01175, 01662, 01847           Broadcasting         00847, 01175, 01662, 01847           Bubu Sat         00710, 01296           Bubu Sat         00713           Bush         01811           Canal         00853, 01339, 01853           Canal         00853, 01339, 01853           Canal Satellite         00853, 01334, 01626           Chili         01413, 01567           Chapararal         00216           C		
B@ytronic01412Beko00455Bell ExpressVu00775Big Sat01457Black Diamond01284Blaupunkt00173Blue Sky00713Boca00713, 01232, 01366Boston00710, 01251Brainwave0658, 01672British Sky Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Bubu Sat00713Bubu Sat00853Canal00853Canal Oigital00853, 01329, 01853Canal-L00853, 01339, 01853Canal-L00216Cherokee0123, 00710Chess0173, 01085, 01334, 01626Chili0178CityCom01232, 01366, 01412, 01413Condor01437Conda01695Contac01394Contac01457Contac01457 </td <td></td> <td></td>		
e00455Bell ExpressVu00775Big Sat01457Black Diamond01284Blaupunkt00173Blue Sky00713Bloca00713, 01232, 01366Boston00710, 01251Brainwave00658, 01672British Sky Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Bubu Sat00713Bubu Sat00713Bush01284, 01645, 01672, 01743, 01811Canal00853, 01622Canal00853, 01622Canal Digital00853, 01622Canal-00853, 01622Canal-00853, 01622Canal-00853, 01622Canal-00853, 01339, 01853Canal-00216Cherokee00123, 00710Chess001178, 01034, 01616Chili01718CityCom01232, 01366, 01412, 01413Condor01407Cinal01695Contac00394Contac01695Contac01695Coship01457Crossdigital01109		
Bell ExpressVu00775Big Sat01457Black Diamond01284Blaupunkt00173Blue Sky00713Boca00713, 01232, 01366Boston00710, 01251Brainwave00658, 01672British Sky Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Bubu Sat00713Bush00853Canal00853Canal Oigtal00853, 01622Canal-00853, 01339, 01853Canal-00853, 01339, 01853Canal-00216Cherokee0123, 00710Chess00713, 01085, 01334, 01626Chili01718CityCom01232, 01364, 00818, 01075,Citaronic01437Condag0122, 01366, 01412, 01413Condor0124, 0143Condag01695Contae00394Contae01695Contae01695Contae01695Contae01457Crossdigital01109Crossdigital01109Crossdigital01109Condor01457	,	
Big Sat01457Black Diamond01284Blaupunkt00173Blue Sky00713Bloca00713, 01232, 01366Boston00710, 01251Brainwave00658, 01672British Sky Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Bub Sat00710, 01296Bubu Sat00713, 01286, 01672, 01743, 01811Canal00853, 01622Canal Oigital00853, 01622Canal-L00853, 01622Canal-L00853, 01622Canal-L00853, 01622Canal-L00853, 01622Canal-L00853, 01622Canal-L00853, 01339, 01853Canal-L00853, 01339, 01853Canal-L00216Cherokee00123, 00710Chess00173, 01085, 01334, 01626Chili01718CityCom01232, 01366, 01412, 01413CityCom01232, 01366, 01412, 01413Cindaci01457Cinal-L01695Contac00394Contac01695Contaci01695Coship01457Crossdigital01109Cinal-L01109Cinal-L01109Cinal-L01109Conosciligi		
Black Diamond01284Blaupunkt00173Blue Sky00713Bloca00713, 01232, 01366Boston00710, 01251Brainwave00658, 01672British Sky Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662Br00847, 01175, 01662Br00710, 01296Bubu Sat00713Bush01284, 01645, 01672, 01743, 01811Canal00853, 01622Canal Oigital00853, 01622Canal-Laite00853, 01622Canal-Laite00216Chaparral00216Chili01713, 01085, 01334, 01626Chili01718CityCom01232, 00394, 00818, 01075, 01367CityCom01232, 01366, 01412, 01413Condor0140Cinal-Laite00394Contaic01695Contaic01695Contaic01695Contaic01695Contaic01695Contaic01695Contaic01695Contaic01695Contaic <td></td> <td></td>		
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Blue Sky00713Boca00713, 01232, 01366Boston00710, 01251Brainwave00658, 01672British Sky Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662, 01847Bub Sat00713Bush01284, 01645, 01672, 01743, 01811Canal00853, 01339, 01853Canal Digital00853, 01339, 01853Canal-00853, 01339, 01853Canal-00216Cherokee0123, 00710Chess01718Chili01718CityCom01232, 01366, 01412, 01413Condor01457Condag01232, 01366, 01412, 01413Condor01695Contec00394Continental Edison01695Coship01457Crossdigital010284		
Boca00713, 01232, 01366Boston00710, 01251Brainwave00658, 01672British Sky Broadcasting00847, 01175, 01662, 01847Broco00713Broco00713Broco00713BukyB00847, 01175, 01662BT00710, 01296Bubu Sat00713Bush01284, 01645, 01672, 01743, 01811Canal00853Canal Digital00853, 01339, 01853Canal-00853, 01339, 01853Canal-00853Corterex01457CGV01413, 01567Cherokee00123, 00710Chess00713, 01085, 01334, 01626Chili01718CityCom01232, 00394, 00818, 01075, 01176, 01232Classic01672Claronic01413Condor01700Conia01695Contec00394Continental Edison01695Cossigital01109Crown01284		
Boston00710, 01251Brainwave00658, 01672British Sky Broadcasting00847, 01175, 01662, 01847Broadcasting00713Broadcasting00847, 01175, 01662, 01847Broadcasting00847, 01175, 01662Broadcasting00847, 01175, 01662Broadcasting00847, 01175, 01662Bubu Sat00710Bush00710, 01296Bush00853Canal00853, 01622Canal Digital00853, 01339, 01853Canal-00853, 01339, 01853Canal-00853Contarex01417CfV01413, 01567Cherokee00216Cherokee00216Cherokee00123, 00710Chess00713, 01085, 01334, 01626Chili01718CityCom01232, 01366, 01412, 01413Cindor01413Cinda01695Condar01695Condar01695Contare00394Continental Edison01457Crossdigital01109Cinown01284		
British Sky Broadcasting00847, 01175, 01662, 01847Broco00713Broco00847, 01175, 01662Br00847, 01175, 01662BT00710, 01296Bubu Sat00713Bush01284, 01645, 01672, 01743, 01811Canal00853Canal Digital00853, 01622Canal Satellite00853, 01339, 01853Canal-00853Canal-00853Canal-00853Canal-00853Canal-00853Canal-00216Chaparral00216Cherokee00123, 00710Chess0713, 01085, 01334, 01626Chili01718CityCom01232, 00394, 00818, 01075, 01716, 01232Classic01672Claronic01413Condor0123, 01366, 01412, 01413Condor01230, 01366, 01412, 01413Condor01230, 01366, 01412, 01413Condor01695Contac00394Contac01695Contac01695Contac01457Crossdigital01109Crown01284	Boston	
Broadcasting         00847, 01775, 01662, 01847           Broco         00713           Broco         00847, 0175, 01662, 01847           Broco         00847, 0175, 01662, 01847           Broco         00713           Bubu Sat         00713           Bush         01284, 01645, 01672, 01743, 01811           Canal         00853, 01622           Canal Digital         00853, 01339, 01853           Canal Satellite         00853, 01339, 01853           Canal Satellite         00853, 01339, 01853           Canal A         00853           Contary         01413, 01567           Cherokee         00216           Cherokee         00213, 00710           Cherokee         00213, 001085, 01334, 01626           Chili         01718           Cherokee         0123, 00394, 00818, 01075, 01342, 01645           Chili         0176, 01232           Classic         01672           Classic         01672           Classic         01672           Comag         01232, 01366, 01412, 01413           Condor         01232, 01366, 01412, 01413           Condac         01695           Contac         00394           Contac	Brainwave	00658, 01672
Display           Broco         00713           Braco         00847, 01175, 01662           BT         00710, 01296           Bubu Sat         00713           Bush         01284, 01645, 01672, 01743, 01813           Bush         01811           Canal         00853           Canal Digital         00853, 01339, 01853           Canal Satellite         00853           Canal-+         00853           Canal-+         00853           Canal-+         00853           Canal-+         00853           Canal-+         00853           Caral-+         00216           Chaparral         00216           Cherokee         00123, 00710           Chess         00713, 01085, 01334, 01626           Chili         01718           CityCom         01279, 00394, 00818, 01075, 01342, 01672, 01743, 01672, 01413           CityCom         01292, 01366, 01412, 01413           CityCom         01672           Classic         01672           CityCom         01232, 01366, 01412, 01413           Condor         01700           Conda         01695           Contac         00394	British Sky	00847 01175 01662 01847
BskyB00847, 01175, 01662BT00710, 01296Bubu Sat00713Bush01284, 01645, 01672, 01743, 01811Canal00853, 01622Canal Digital00853, 01339, 01853Canal Satellite00853, 01339, 01853Canal-00853, 01339, 01853Canal-00853, 01339, 01853Canal-00853, 01339, 01853Canal-00853, 01339, 01853Canal+00853, 01334, 01626Cherke00123, 00710Cherokee00123, 00710Cherokee01718, 01085, 01334, 01626Chili01718CityCom01672Classic01672Clatornic01413Condar01232, 01366, 01412, 01413Condar01695Contac0394Continental Edison01695Cossdigital01109Crown01284	° .	
Br         00710, 01296           Bubu Sat         00713           Bush         01284, 01645, 01672, 01743, 01811           Canal         00853           Canal Digital         00853, 01329, 01853           Canal Satellite         00853, 01339, 01853           Charparral         00216           Cherokee         00123, 00710           Chess         00713, 01085, 01334, 01626           Chili         01718           CityCom         01299, 00394, 00818, 01075, 0175, 0176, 01232           Classic         01672           Clatronic         01413           CNS         01367           Condor         01700           Conia         01695           Continental Edison         01695           Coship         01457           Crossdigital         01109		
Bubu Sat         00713           Bush         01284, 01645, 01672, 01743, 01811           Canal         00853           Canal Digital         00853, 01622           Canal Satellite         00853, 01339, 01853           Canal Satellite         00853           Centrex         01457           CGV         01413, 01567           Chaparral         00216           Cherokee         00123, 00710           Chess         00713, 01085, 01334, 01626           Chili         01718           CityCom         01232, 00394, 00818, 01075,           CityCom         01232, 01366, 01412, 01413           Condor         01413           CNS         01367           Conag         01232, 01366, 01412, 01413           Condor         01700           Conia         01695           Contec         00394           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284 <td>,</td> <td></td>	,	
Bush01284, 01645, 01672, 01743, 01811Canal00853Canal Digital00853, 01622Canal Satellite00853, 01339, 01853Canal-00853, 01339, 01853Canal-00853, 01339, 01853Canal-00853, 01339, 01853Canal-00853, 01339, 01853Canal-00853, 01339, 01853Canal-00143, 01567CGV01413, 01567Chaparral00216Cherokee00123, 00710Chess00713, 01085, 01334, 01626Chili01718CityCom01229, 00394, 00818, 01075, 01176, 01232Classic01672Classic01672Clatronic01413CNS01367Condag01232, 01366, 01412, 01413Condor01700Contac00394Continental Edison01695Coship01457Crossdigital01109Crown01284	51	
Busin         01811           Canal         00853           Canal Digital         00853, 01622           Canal Satellite         00853, 01339, 01853           Canal Satellite         00853           Canal Satellite         00147, 01350           Carperaral         00216           Chaparral         00216           Cherokee         00123, 00710           Chess         00713, 01085, 01334, 01626           Chili         01718           CityCom         01292, 00394, 00818, 01075,           Citassic         01672           Clatronic         01413           CNS         01367           Condag         01232, 01366, 01412, 01413           Condor         01700           Contac         00394           Contac         01695           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284		
Canal Digital         00853, 01622           Canal Satellite         00853, 01339, 01853           Canal-         00853           Centrex         01457           CGV         01413, 01567           Chaparral         00216           Cherokee         00123, 00710           Chess         00713, 01085, 01334, 01626           Chili         01718           CityCom         01672           Clatronic         01413           CNS         01367           Condor         01700           Condor         01700           Contae         00394           Contae         01695           Contae         01695           Contae         01695           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284	Bush	
Canal Satellite         00853, 01339, 01853           Canal+         00853, 01339, 01853           Centrex         01457           CGV         01413, 01567           Chaparal         00216           Cherokee         00123, 00710           Chess         00713, 01085, 01334, 01626           Chili         01718           CityCom         01672           Classic         01413           CNS         01232, 01366, 01412, 01413           Condor         01700           Conda         01295           Contac         0394           Contac         01455           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01494	Canal	00853
Canal+         00853           Centrex         01457           CGV         01413, 01567           Chaparral         00216           Cherokee         00123, 00710           Chess         00713, 01085, 01334, 01626           Chili         01718           CityCom         01672           Classic         01672           Clatronic         01413           CNS         01367           Condag         01232, 01366, 01412, 01413           Condor         01700           Contae         00394           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01232	°	
Centrex         01457           CGV         01413,01567           Chaparral         00216           Cherokee         00123,00710           Chess         00713,01085,01334,01626           Chili         01718           CityCom         00299,00394,00818,01075, 01176,01232           Classic         01672           Clatronic         01413           CNS         01367           Condag         01232,01366,01412,01413           Condor         01700           Contae         00394           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284		
CGV         01413, 01567           Chaparral         00216           Cherokee         00123, 00710           Chess         00713, 01085, 01334, 01626           Chili         01718           CityCom         00299, 00394, 00818, 01075, 01776, 01232           Classic         01672           Clatronic         01413           CNS         01367           Condag         01232, 01366, 01412, 01413           Condor         01700           Contae         00394           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284		
Chaparral         00216           Chaporal         00213, 00710           Chess         00713, 01085, 01334, 01626           Chili         01718           CityCom         00299, 00394, 00818, 01075, 01776, 01232           Classic         01672           Clatronic         01413           CNS         01367           Condag         01232, 01366, 01412, 01413           Condor         01700           Contae         00394           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284		
herokee         00123, 00710           Chess         00713, 01085, 01334, 01626           Chili         01718           CityCom         00299, 00394, 00818, 01075, 01776, 01232           Classic         01672           Clatronic         01413           CNS         01367           Condor         01700           Contac         0394           Contac         01695           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01294		
Chess         00713, 01085, 01334, 01626           Chili         01718           CityCom         00299, 00394, 00818, 01075, 01776, 01232           Classic         01672           Clatronic         01413           CNS         01367           Condar         01232, 01366, 01412, 01413           Condar         01695           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284		
Chili         01718           CityCom         00299, 00394, 00818, 01075, 01176, 01232           Classic         01672           Clatronic         01413           CNS         01367           Conag         01232, 01366, 01412, 01413           Condor         01700           Contac         00394           Contec         00394           Coship         01457           Crossdigital         01109           Crown         01284		
CityCom         00299, 00394, 00818, 01075, 01176, 01232           Classic         01672           Clatronic         01413           CNS         01367           Comag         01232, 01366, 01412, 01413           Condor         01700           Contac         00394           Contec         00394           Coship         01457           Crossdigital         01109           Crown         01284		
Ottycolin         O1176, 01232           Classic         01672           Clatronic         01413           CNS         01367           Comag         01232, 01366, 01412, 01413           Condor         01700           Conia         01695           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284		
Clatronic         01413           CNS         01367           Comag         01232, 01366, 01412, 01413           Condor         01700           Condor         01695           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284	CityCom	
CNS         01367           Comag         01232, 01366, 01412, 01413           Condor         01700           Conia         01695           Contec         00394           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284	Classic	01672
Comag         01232, 01366, 01412, 01413           Condor         01700           Conia         01695           Contec         00394           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284		01413
Condor         01700           Conia         01695           Contec         00394           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284	CNS	01367
Conia         01695           Contec         00394           Continental Ediso         01695           Coship         01457           Crossdigital         01109           Crown         01284	•	
Contec         00394           Continental Edison         01695           Coship         01457           Crossdigital         01109           Crown         01284		
Continental Edison01695Coship01457Crossdigital01109Crown01284		
Coship         01457           Crossdigital         01109           Crown         01284		
Crossdigital 01109 Crown 01284		
Crown 01284		
	°	
UU455, 00795		
	Cryptovision	00455, 00795

Cyfra+	01076
Cyrus	00200
D-box	00723, 00873, 01114
Daewoo	00713, 01111, 01296, 01743
Delfa	00863
Deltasat	01075
Dgtec	01542, 01631, 01242
Digenius	00299
Digiality	01685
Digifusion	01645, 01743
DigiLogic	01284
DigiQuest	00863, 01300, 01457, 01473
DigiSat	01232
Digisky	01457
DigitAll World	01227
Digiturk	01076
Digiwave	01631
Dijam	01296
DiPro	01367, 01543
DIITO	01377, 00392, 00566, 00639,
DirecTV	01639, 01142, 00247, 00749, 01749, 00724, 00819, 01856, 01076, 01108, 00099, 01109, 01414, 01442, 01609, 01392, 01640
Discovery	00710
Dish Network System	01505, 01005, 00775, 01775
Dishpro	01505, 01005, 00775, 01775
Distratel	01283, 01704
DMT	01075
DNT	00200
Dream Multimedia	01237
DSE	01375
DSTV	00642, 00879, 01433
Durabrand	01284
DX Antenna	01530
Echostar	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871, 01086, 01200, 01323, 01409, 01418, 01473, 01775
Einhell	00713
Elap	00713, 01567
Elsat	00713
Elta	00200, 01659
Emme Esse	00871
Energy Sistem	01631
Engel	00713, 01251
EP Sat	00455
Esat	00879
	000.0
Furieult	00882
Eurieult	00882

D

Ε

	Eurocrypt	00455
	EuroLine	01251
	Europa	00863
	Europhon	00299
	Eurosky	00262, 00299
	Eurostar	00818
	Eutelsat	00713
	Expressvu	00775, 01775
F	Fenner	00713
	Ferguson	00455, 01291, 01743
	Finlandia	00455
	Finlux	00455
	Flair Mate	00713
	FMD	01251, 01413, 01457
	Force	01101
	Fortec Star	01083
	Foxtel	00455, 00497, 00795, 00879, 01162, 01176, 01356
	Fracapro Planet	00871
	Fracarro	00125, 00871
	France Telecom	00871
	Freesat	00882
	FTE	00863
	FTEmaximal	00713, 00863
	Fuba	00173, 00262, 00299, 00394, 01214, 01251, 01801
	Fugionkyo	00125
	Funai	01377
G	Galaxis	00853, 00863, 01101, 01111, 01557
	Gardiner	00818
	Garnet	01075
	GbSAT	01214
	GE	00392, 00566
	Gecco	01412
	General Instrument	00869
	General Satellite	01176
	GF Good Friends	01043
	GF Star	01043
	Globo	01251, 01334, 01412, 01429, 01626
	GOD Digital	00200
	GOI	00775, 01775
	Gold Box	00853
	Gold Vision	01631
	Golden Interstar	01283
	GoldStar	00394
	Goodmans	00455, 01284, 01291
	Gradiente	00887
	Granada	00455
	Grundig	00173, 00345, 00847, 00853, 00879, 01291
Н	Handan	01622
	Hanseatic	01099, 01100

	Hauppauge	01672
	HB	01214, 01801
	HDT	01159
	Hills	01232
	Hirschmann	00125, 00173, 00299, 00710, 00882, 01085, 01111, 01232, 01412
	Hisense	01535
	Hitachi	00749, 00819, 00455, 01250, 01284, 01518, 01523, 01525
	Homecast	01214, 01680, 01700
	Hornet	01300
	Houston	00775
	HTS	00775, 01775
	Hughes Network Systems	01142, 00749, 01749, 01442
	Humax	00863, 01176, 01225, 01406, 01427, 01675, 01743, 01790, 01915
	Huth	01075
	Hyundai	01075, 01159
	iCan	01367
	ID Digital	01176
	ILLUSION sat	01557, 01631
	iLo	01535
	Imperial	01334, 01429, 01672
	Indovision	00887
	Ingelen	00882
	Innova	00099
	Interstar	01214
	InVideo	00871
	ISkyB	00887
	Italtel	00871
J	ITT Nokia	00455, 00723, 00873
J	Jadeworld	00642
	Jaeger Jerrold	
	Jiuzhou	00869 01450
	JOK	00710
	JVC	00775, 01507, 01531, 01775
к	K-SAT	00713
ĸ	Kamm	00713
	Kaon	01300
	KaTelco	01111
	nu loioo	00123, 00173, 00200, 00249,
	Kathrein	00394, 00442, 00480, 00504, 00658, 00713, 00818, 01221, 01416, 01561, 01567
	Kennex	00125
	Kenwood	00853
	Klap	00710
	Kocmoc TB	01333
	Koscom	01043
	Kosmos	00442, 01333
	Kreiling	00249, 00658

	Kreiselmeyer	00173	
	Kross	01695	
L	L&S Electronic	01043, 01334	
	Labgear	01296	
	LaSAT	00173, 00299	
	Lava	01631	
	Legend	01718	
	Legrand	01718	IN
	Lemon	01334	
	Lenco	00713	
	Lenoxx	01611	
	LG	01075, 01414	
	Lifesat	00299, 00713, 01043	
	Lodos	01284	
	Logik	01284	
	Logix	01075	
	Lorenzen	00299	
	Luxor	00345, 00873	
м	M Electronic	00818	
	M vision	01557	
	Magnavox	00724, 00722	
	Manata	00710, 00713	0
	Manhattan	00455, 00710, 01083	Ŭ
	Marantz	00200	
	Maspro	00173, 00713, 01530	
	Master's	00394	
	Matsui	00173, 00710, 01284, 01743	
	Maximum	01075, 01334, 01685	
	McIntosh	00869	
	MDS	01225	
	Mediabox	00853	
	Mediacom	01206	
	MediaSa	00853	-
	Medion	00299 00713 01043 01075	Ρ
		01232, 01334, 01412, 01626	
	Medison	00713	
	Mega	00200	
	Memorex	00724	
	Metronic	00713, 00818, 01283, 01334, 01375, 01704	
	Metz	00173	
	MiCO	01811	
	Micro	00713	
	Micro Elektronic	00713	
	Micro Technology	00713	
	Micromaxx	00299	
	Microstar	01075	
	Microtec	00713	
	Mitsubishi	00749, 00455	
	Morgan's	00200, 00713, 01232, 01412	
	Motorola	00200, 00713, 01232, 01412	
	MTEC	01214	
	Muller	01695	
	WUIE	01030	

Multibroadcast	00642, 00879	
Multichoice	00642, 00879, 01333, 01433, 01559, 01560	Ph
Mx Onda	01659	
Myryad	00200	
Mysat	00713	Ph
MySky	01693, 01848, 01850	Pil
NEC	01519	Pir
NEOTION	01334	Pic
Netgem	01322	Pla
Netsat	00099, 00887	Pla
Neuf TV	01322	PN
Neuhaus	00713	Po
Neuling	01232	Po
Neusat	00713	Pre
Nevir	01659	Pre
Next Level	00869	Pri
Nikko	00200, 00713, 00723	Pri
Noda Electronic	01704	Pri
Nokia	00455, 00723, 00751, 00853,	Pro
Nordmende	00873, 01023, 01223, 01723 00455, 01611	Pro
OctaITV	01505	Pro
Okano	00442	Pro
Omega	00887	QN
Opentel	01232, 01412	Qu
Optex	00394, 00713, 01043, 01283,	Qu
•	01611 R	Ra
Optimus	00724	Ra
Optus Orbis	00879	Ra
	01232, 01334, 01412	RC
Orbitech Origo	01099, 01100 00497	110
OSAT	00345	Re
P/Sat	01232	Re
r/odl	00200, 00329, 00455, 00497,	RF
Pace	00795, 00847, 00853, 00887,	Ro
1000	01175, 01323, 01356, 01423, 01693, 01717, 01848, 01850	Ro
Pacific	01284, 01375	Ro
Packard Bell	01111	Ro
Packsat	00710 <b>S</b>	SA
Palcom	00299, 01409	Sa
Panarex	01159	Sa
Panasat	00615, 00879, 01333, 01433	Sa
Panasonic	00247, 00701, 00455, 00847, 01304, 01404, 01508, 01526, 01527	Sa
Panda	00173, 00455	C -
Pansat	01159	Sa Sa
Patriot	00710	Sa SA
Paysat	00724	SA
peeKTon	01457	
		Sa

Philips	01142, 00749, 01749, 00775, 00724, 00819, 01076, 00722, 00099, 00710, 00455, 00818, 00200, 00847, 00853, 00173, 01114, 00133, 01442, 01543, 01572
Phonotrend	01672 00863, 01200
Pilotime	01339
Pino	01334
	01334 01142, 00329, 00853, 01308,
Pioneer	01442
Planet	00871
Plasmatic	00442
PMB	00713, 01611
Polytron	00394
Portland	01296
Preisner	00262, 01101, 01113, 01366
Premier	00723, 00853, 00873, 01429
Prima	00795
Primacom	01111
Primestar	00869
Profile	00710
Promax	00455
Proscan	00392, 00566
Proton	01535
QNS	01367, 01402, 01404
Quadral	00710
Quelle	00299
Radiola	00200
RadioShack	00566, 00775, 00869
Radix	00394, 00882, 01113, 01317
RCA	00392, 00566, 01142, 00775, 00855, 00143, 01291, 01392, 01442
Rebox	01214
Regal	01251
RFT	00200
Roadstar	00713, 00853
Rollmaster	01413
Rover	00713
Rownsonic	01567
SAB	01251
Saba	00710, 00820
Sabre	00455
Sagem	00820, 01114, 01253, 01307, 01690
Samsung	01377, 01142, 01276, 01108, 01109, 00853, 00863, 01206, 01442, 01458, 01570, 01609, 01700, 01916
Sat Control	01300
Sat Team	00713
SAT+	01409
Satec	00713
Satelco	01232
Satplus	01100

Satstation	01083
Schaub Lorenz	01214
Schneider	00710, 01206, 01251
Schwaiger	00394, 00504, 00863, 01075, 01083, 01111, 01317, 01334, 01412, 01457
SCS	00299
Sedea Electronique	00125, 01206, 01283, 01626
SEG	01075, 01087, 01251, 01626
Seleco	00871
Septimo	01375
Serd	01412
Serino	00610
Servimat	01611
ServiSat	00713, 01251
Sharp	01517
Siemens	00173, 01334, 01429
Silva	00299
Skantin	00713
SKR	00713
SKY	00856, 00099, 00847, 00887, 01014, 01175, 01662, 01693, 01847, 01848, 01850
SKY Italia	00853, 01693, 01847, 01848
Sky Television	01014
Sky XL	01251, 01412
Sky+	01175
Skymaster	00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611
Skymax	00200
Skyplus	01232, 01334, 01412
SkySat	00713
Skyvision	01334
SL	00299, 01672
SM Electronic	00713, 01200, 01409
Smart	00713, 00882, 01101, 01113, 01232, 01404, 01413
Sony	00639, 01639, 00455, 00847, 00853, 01524, 01558, 01640
Star	00887
Star Choice	00869
Star Trak	00772, 00869
Starland	00713
Starlite	00200
Stream	01847, 01848
Strong	00125, 00713, 00820, 00853, 00879, 01159, 01284, 01300, 01409, 01626
Sunkai	00123
Sunny	01300
Sunsat	00713
Sunstar	00642
Supernova	00887
SVA	01455
Systec	01334

T	Tantec	00455
	Tarbs	01225
	Tatung	00455
	TBoston	01659
	Теас	01225, 01227, 01251, 01322
	Tecatel	01200
	TechniSat	00262, 00455, 00863, 01099 01100, 01195, 01197, 01322
	Technomate	01283, 01610
	Technosonic	01672
	Technotrend	01429
	Techwood	01284, 01626
	Tele System	
	Electronic	01251, 01409, 01611, 01801
	Teleciel	01043
	TeleClub	01367
	Telefunken	00710
	Teleka	00262, 00442
	Telestar	01099, 01100, 01251, 01334 01610, 01626
	Telesystem	01801
	Televes	00455, 01214, 01300, 01334
	Televisa	00887
	Telewire	01232
	Tevion	00713, 01409, 01622, 01672
	Thomson	00392, 00566, 00455, 00710 00713, 00820, 00847, 00853 01046, 01175, 01291, 01534 01543, 01662
	Thorn	00455
	Tiny	01672
	Tioko	00394
	Tivo	01142, 01442
	Tokai	00200
	Tonna	00455, 00713, 01611
	Topfield	01206, 01208, 01545, 01783
	Toshiba	00749, 01749, 00790, 00819 00455, 01285, 01501, 01516
	TPS	01530 00820, 01253, 01307
	Triax	00200, 00713, 00853, 01113 01227, 01251, 01291, 01296
		01626
	Trio	01075
	TT-micro	01429
	Turnsat	00713
	Twinner	00713, 01611
U	UEC	00879, 01162, 01333, 01356
	UltimateTV	01392, 01640
	Uniden	00724, 00722
	Unisat	00200
	United	01251
	Universum	00173, 00299, 01087, 01099 01251
	US Digital	01535
	USDTV	01535

	V	Variosat	00173
		Ventana	00200
		Vestel	01251
		VH Sat	00299
2		Viasat	01682
		ViewSat	01232
9,		Visionic	00125, 01283
2		VisionNet	01557
		Visiosat	00142, 00710, 00713, 01413, 01457, 01718
		Viva	00856
		Vivid	01162
1		Voom	00869
		VTech	00818
	W	Wavelength	01232, 01413
		Wewa	00455
		Wharfedale	01284
4,		Winbox	01801
',		Wintel	00299
		Wisi	00173, 00299, 00455
4		Worldsat	00123, 00710, 01214, 01251, 01543
	X	Xcom	00123
2		XMS	01075
0,		Xsat	00123, 00713, 00847, 01214, 01323
3,		Xtreme	01323
4,	Y	Yakumo	01413
	- î 1	Yamada	01718
		Yes	00887
	z	Zehnder	00394, 00504, 00818, 01075, 01232, 01251, 01334, 01412,
		Zenith	01413 00856, 01856
		Zeta Technology	00200
3 9,		Zodiac	01801
6,	Sa	atellite Rece	iver/
3, 6,	<b>P</b> ※1	VR Combinat	ion
	A	@sat	01300
		Allvision	01412
		Amstrad	01175
		Atsat	01300
6	B	B@ytronic	01412
0	D	British Sky Broadcasting	01175
		BskyB	01175, 01662
		Bush	01645
	C	Canal Satellite	01339
9,	•	Comag	01412
	D	Digifusion	01645
		DigiQuest	01300
		Digiturk	01076
		3	

	DirecTV	01377, 00392, 00639, 01142, 01076, 00099, 01392, 01442, 01640
	Dish Network System	
	Dishpro	01505, 00775
	DMT	01075
	Dream Multimedia	01237
E	Echostar	01505, 00775, 00610
_	Expressvu	00775
E	Foxtel	01356
G	GbSAT	01214
	Gecco	01412
	Globo	01412
H	HDT	01159
	Hirschmann	01412
	Homecast	01680
	Hughes Network	01142, 01442
	Systems	
	Humax	01176, 01427, 01675
	Huth	01075
	Hyundai	01075, 01159
K	Kaon	01300
. 1	Kathrein	00249, 00658, 01221, 01561
<u>ь</u>	LG	01075
M	Maximum	01334
	Mediacom	01206
	Medion	01412
	Microstar	01075
	Morgan's	01412
	Motorola	00869
	MTEC	01214
	Multichoice	01333, 01559, 01560
	MySky	01693, 01848, 01850
N	NEOTION	01334
	Nokia	01023
0	Opentel	01412
	Orbis	01412
P	Pace	01175, 01356, 01423, 01850
	Panasonic	01304
	Philips	01142, 00099, 01442
	Pilotime	01339
	Proscan	00392
R	Radix	01317
	RCA	01392
	Rebox	01214
S	Sagem	01253, 01307
	Samsung	01206, 01442, 01570, 01609
	Sat Control	01300
	Schneider	01206
	Schwaiger	01075, 01412
	Sedea Electronique	01206
	Serd	01412
	SKY	01175, 01693, 01848, 01850

HHughes Network Systems20739PPhilips20739	
Skymaster01075Skyplus01412Sony00639, 01640Star Choice00869Strong01300Sunny01300TechniSat01195, 01197Thomson01175, 01534, 01TPS01253, 01307XXtremeO13002ehnderHHughes Network SystemsPPhilips20739	
Skyplus         01412           Sony         00639, 01640           Star Choice         00869           Strong         01300           Sunny         01300           TechniSat         01195, 01197           Thomson         01175, 01534, 01           Topfield         01206, 01545, 01           TPS         01253, 01307           X         Xtreme         01300           Zehnder         01075, 01412           W3         Hughes Network Systems         20739           P         Philips         20739	
Sony         00639, 01640           Star Choice         00869           Strong         01300           Sunny         01300           TechniSat         01195, 01197           Thomson         01175, 01534, 01           Topfield         01206, 01545, 01           TPS         01253, 01307           X         Xtreme         01300           Zehnder         01075, 01412           W         Hughes Network Systems         20739           P         Philips         20739	
Star Choice         00969           Strong         01300           Sunny         01300           TechniSat         01195, 01197           Thomson         01175, 01534, 01           Topfield         01206, 01545, 01           TPS         01253, 01307           X         Xtreme         01300           Zehnder         01075, 01412           X3         Hughes Network         20739           P         Philips         20739	
Strong         01300           Sunny         01300           TechniSat         01195, 01197           Thomson         01175, 01534, 01           Topfield         01206, 01545, 01           TPS         01253, 01307           X         Xtreme         01300           Zehnder         01075, 01412           X3         Hughes Network         20739           P         Philips         20739	
Sunny         01300           T         TechniSat         01195, 01197           Thomson         01175, 01534, 01           Topfield         01206, 01545, 01           TPS         01253, 01307           X         Xtreme         01300           Z         Zehnder         01075, 01412           **3         H         Hughes Network Systems         20739           P         Philips         20739	
TechniSat         01195, 01197           Thomson         01175, 01534, 01           Topfield         01206, 01545, 01           TPS         01253, 01307           X         Xtreme         01300           Zehnder         01075, 01412           W3         Hughes Network         20739           P         Philips         20739	
Thomson         01175, 01534, 01           Topfield         01206, 01545, 01           TPS         01253, 01307           X         Xtreme         01300           Z         Zehnder         01075, 01412           **3         H         Hughes Network Systems         20739           P         Philips         20739	
Topfield         01206, 01545, 01           TPS         01253, 01307           X         Xtreme         01300           Z         Zehnder         01075, 01412           **3         H         Hughes Network Systems         20739           P         Philips         20739	
TPS         01253, 01307           X treme         01300           Z         Zehnder         01075, 01412           W3         Hughes Network Systems         20739           P         Philips         20739	662
X         Xtreme         01300           Z         Zehnder         01075, 01412           X3         H         Hughes Network         20739           P         Philips         20739	783
Z         Zehnder         01075, 01412           **3	
H     Hughes Network Systems     20739       P     Philips     20739	
HHughes Network Systems20739PPhilips20739	
HHughes Network Systems20739PPhilips20739	
-	
-	
S Samsung 20739	

Television				
1	888	10264		
A	A-Mark	10047, 10054, 10009		
	A.R. Systems	10037, 10352, 10374, 10455, 10556		
	Accent	10009, 10037		
	Accuscan	10047		
	Accuscreen	10001		
	Acoustic Research	11269		
	Action	10030, 10650		
	Acura	10009		
	Addison	10092, 10108, 10653		
	ADL	11217		
	Admiral	10047, 10054, 10017, 10051, 10093, 10463, 10180, 10163, 10264, 10418		
	Advent	10761, 10783, 10815, 10817, 10842, 10876, 11933		
	Adventuri	10000		
	Adyson	10217		
	AEG	11163, 11556		
	Agashi	10217, 10264		
	Agna	10150		
	Aiko	10092, 10009, 10035, 10037, 10217, 10264, 10361, 10371, 10433		
	Aim	10706, 10037, 10455, 10805		
	Aiwa	10264, 10701, 11904, 11911		
	Akai	10000, 10060, 10812, 10702, 10178, 10030, 10145, 10602, 10606, 10631, 10648, 10672, 10714, 10715, 11207, 11537, 11675, 11676, 11903, 10556, 10548, 10480, 10433, 10371, 10361, 10264, 10218, 10217, 10208, 10163, 10037, 10035, 10009		

Akashi	10009, 10860
Akiba	10037, 10218, 10455
Akira	10418
Akito	10037
Akura	10171, 10009, 10037, 10163, 10218, 10264, 10668, 10714, 11037, 11498, 11556, 11982
Alaron	10170
Alba	10009, 10036, 10037, 10073, 10163, 10218, 10352, 10370, 10371, 10418, 10443, 10487, 10668, 10714, 11037
Albatron	10700, 10843
Alfide	10672
All-Tel	10865, 11269
Alleron	10030, 10170
Allorgan	10217
Allstar	10037
Ambassador	10150
America Action	10180
American High	10000, 10060
Amplivision	10217, 10370
Amstrad	10000, 10171, 10009, 10011, 10037, 10163, 10218, 10264, 10362, 10371, 10433, 10648, 11037, 11982
Amtron	10000, 10180
Anam	10250, 10180, 10009, 10037, 10700, 10861
Anam National	10250, 10037, 10650
Andersson	11149, 11163
Anglo	10009, 10264
Anhua	10051
Anitech	10009, 10037, 10264
Ansonic	10009, 10037, 10163, 10370, 10374, 10668 10451, 10093, 10180, 10060,
AOC	10178, 10030, 10092, 10009, 10108
Aolinpike	10264
Apex Digital	10156, 10748, 10879, 10765, 10767, 11217, 11943
AR	10352, 10556
Arc En Ciel	10109
Arcam	10217
Ardem	10037, 10714
Aristocrat	10163
Aristona	10037, 10556
ART	11037
Arthur Martin	10163
ASA	10070
Asberg	10037
Asora	10009
Astra	10037
Asuka	10217, 10218, 10264
ATD	10698
Atlantic	10001, 10037

Atori	10009
Auchan	10163
Audinac	10180
Audiosonic	10009, 10037, 10109, 10217, 10218, 10264, 10370, 10374, 10486, 10714, 10715, 10820
Audioton	10217, 10264, 10370, 10486
Audiovox	10451, 10180, 10092, 10623, 10802, 10875, 11937, 11951, 11952
Audioworld	10698
Aumark	10060
Autovox	10217
Aventura	10171
AVP	10000
Awa	10451, 10009, 10011, 10036, 10108, 10217, 10264, 10374, 10606
Axion	11937, 11958
Axxent	10009
Baier	10876
Baihe	10009, 10264
Baile	10001, 10009, 10374, 10661
Baird	10037, 10073, 10109, 10208, 10217, 10343, 11196
Bang & Olufsen	10565
Baohuashi	10264
Baosheng	10009, 10817
Barco	10163, 10556
Basic Line	10009, 10037, 10163, 10217, 10218, 10374, 10455, 10556, 10668, 11037, 11163
Bastide	10217
Bauer	10805
Baur	10037, 10195, 10361, 10455, 10512
Baysonic	10180
Bazin	10217
Beaumark	10017, 10178, 10030
Beijing	10812, 10001, 10009, 10208, 10226, 10264, 10374, 10661, 10817, 10821
Beko	10037, 10195, 10370, 10418, 10486, 10606, 10714, 10715, 10808, 11037
Belcor	10030
Bell & Howell	10054, 10017, 10154, 10093
Belson	10698, 11191
Belstar	11037
BenQ	11032, 11756
Beon	10037, 10163, 10218, 10418
Berthen	10668
Best	10370
Bestar	10037, 10370, 10374
Bestar-Daewoo	10374
Binatone	10217
Black Diamond	10614, 10820, 10821, 11037, 11163, 11909

В

Blackway	10218
Blaupunkt	10036, 10170, 10195, 10200, 10327, 10455
Blue Sky	10037, 10218, 10455, 10487, 10499, 10556, 10668, 10714, 10715, 11037, 11191, 11363
Boots	10009, 10217
BPL	10037, 10208
Bradford	10180
Brandt	10109, 10287, 10335, 10560, 10625, 10714
Brinkmann	10037, 10418, 10486, 10668
Brionvega	10037, 10362
Britannia	10217
Brockwood	10178, 10030
Broksonic	10236, 10463, 10180, 11911, 11938
Brother	10264
BSR	10163
BTC	10218
Bush	11900, 11556, 11037, 10778, 10714, 10698, 10668, 10661, 10614, 10556, 10487, 10374, 10371, 10361, 10335, 10264, 10218, 10217, 10208, 10163, 10037, 10036, 10009
Caihong	10009, 10817
Cailing	10748
Candle	10030
Canton	10218
Capehart	10017, 10178, 10030, 10092, 10036
Capetronic	10030
Capsonic	10264
Carad	10610, 10668, 11037
Carena	10037, 10455
Carnivale	10030
Carrefour	10036, 10037, 10070
Carver	10054, 10170
Cascade	10009, 10037
Casio	10037
Cathay	10037, 10218
CCE	10037, 10217
Celebrity	10000
Celera	10765
Celestial	10767, 10819, 10820, 10821
Centrex	10780
Centrum	11037
Centurion	10037
CGE	10074, 10163, 10370, 10418
Changcheng	10051, 10001, 10009, 10264, 10374, 10661, 10817
Changfei	10009, 10374, 10817
Changfeng	10264, 10817
Changhai	10009, 10817

D

С

Changhong	10156, 10765, 10009, 10264, 10508, 10767, 10783, 10817, 10819, 10820, 10821, 11008,
Chonadu	11156
Chengdu Ching Toi	10009, 10817 10092, 10009
Ching Tai	10092, 10009
Chun Yun	10700, 10843
Chunfeng	10009, 10264
Chung Hsin	10180, 10053, 10036, 10108
Chunsun	10009, 10817
Cimline	10009, 10218
Cinema	10672
Cineral	10451, 10092
Cinex	10648, 11556
Citek	10047
Citizen	10054, 10000, 10451, 10463, 10180, 10060, 10030, 10171, 10092, 10001, 10035
City	10009
Clarion	10180
Clarivox	10037, 10070, 10418
Classic	10030, 10092, 10499
Clatronic	10009, 10037, 10217, 10218, 10264, 10370, 10371, 10714
Clayton	11037
CMS Hightec	10217 10047, 10054, 10017, 10060,
Colortyme	10178, 10030
Commercial Solutions	11447, 10047
Concorde	10009
Condor	10009, 10037, 10264, 10370, 10418
Conia	10820, 10821, 11498
Conic	10178
Conrac	10808
Conrowa	10156, 10145, 10009, 10264, 10698, 11156, 11170
Contec	10180, 10009, 10036, 10037
Continental Edison	10109, 10287, 10487
Cosmel	10009, 10037
Craig	10180, 10171
Crosley	10054, 10000, 10180, 10030, 10171, 10074, 10163, 10370
Crown	10093, 10180, 10053, 10009, 10037, 10208, 10370, 10418, 10486, 10487, 10606, 10672, 10712, 10714, 10715, 11037
Crown Mustang	10672
CS Electronics	10218
CTX	11756
Curtis Mathes	10047, 10054, 10154, 10000, 10051, 10451, 10093, 10180, 10060, 10702, 10178, 10030, 10145, 10166, 10037, 10035, 11147, 11347
CXC	10180
Cybertron	10218
Cytronix	11298
D-Vision	10037, 10556, 11982

Daewoo	10154, 10451, 10180, 10178, 10030, 10092, 11661, 10634, 10661, 10672, 10700, 10860, 10865, 10876, 10880, 11755, 11756, 11909, 10623, 10556, 10499, 10374, 10264, 10218, 10217, 10170, 10109, 10108, 10037, 10036, 10009
Dainichi	10218
Dansai	10009, 10035, 10036, 10037, 10208, 10217
Dantax	10370, 10486, 10714, 10715
Datsura	10208
Dawa	10009, 10037
Daytek	10672, 11207
Dayton	10092, 10009, 11207
Daytron	10180, 10178, 10030, 10092, 10009, 10036, 10037, 10374
Dayu	10374, 10661
De Graaf	10163, 10208, 10548
Decca	10037, 10217
Degraff	10163, 10208
Deitron	10374
Dell	11080, 11178
Denko	10264
Denon	10145, 10511
Denver	10037, 10587
Desmet	10009, 10037
Diamant	10037
Diamond	10706, 10009, 10371, 10672, 10698, 10820, 10860
Digatron	10037
Digiline	10037, 10668
Digital Life	10872
Digitex	10820
Digitor	10037
Digix Media	10880
Dixi	10009, 10037, 10217
DL	10587, 10780, 10872
Domeos	10668
Domland	10394
Dongda	10009
Donghai	10009
Dream Vision DSF	11164, 11704
DISE	10698, 10820, 11556 10009
	10037, 10217, 10343, 10352,
Dual	10394, 11037, 11137
Dual Tec	10217
Dumont	10017, 10180, 10178, 10070, 10217
Durabrand	10463, 10180, 10178, 10171, 11034, 11463
Dux	10037
Dwin	10093
Dynatech	10217
Dynatron	10037

E         Easy Living         11248           Eaton         10060           Ecco         10773           ECE         10037           Edison-Minerva         10487           Elbe         10037, 10217, 10218, 10362, 10610           Elcit         10163           Electroband         10000           Electroband         10000, 10463, 10150, 10178, 10030, 10073           Electrohome         10154, 10000, 10463, 10150, 10178, 10037, 10361, 10548           Elin         10009, 10037, 10361, 10548           Elite         10037, 10218           Elta         10009, 10264           Emerald         10178           Moral, 10178, 10171, 10154, 10451, 10236, 10463, 0180, 10150, 10178, 10171, 10154, 10451, 10236, 10463, 0180, 10150, 10178, 10171, 11944, 11931, 10236, 10463, 01080, 10037           Enversion         10030, 10813           Enzer         10860           Erae         11371           Erres         10037, 10217           Ether         10030, 10019           Etron         10030, 10009           Etron         10030, 10009           Etron         10037, 10217, 10264, 10370           Europhon         10037, 10217, 10264, 10370           Europhon         10037, 10217, 10			
Ecco         10773           ECE         10037           Edison-Minerva         10487           Elbe         10037, 10217, 10218, 10362, 10610           Elcit         10163           Electroband         10000           Electroband         10009, 10463, 10150, 10178, 10030, 10073           Electrohome         10154, 10000, 10463, 10150, 10178, 10030, 10073           Electrohome         10037, 10218           Elfunk         11037, 11208           Elac         10037, 10218           Elta         10009, 10264           Enerald         10178, 1017, 10154, 10451, 10236, 10463, 10180, 10150, 10236, 10371, 10370, 10236, 10371, 10370, 10236, 10371, 10370, 10236, 10371, 10370, 10361, 10371, 10370, 10361, 10371, 10370, 10361, 10371, 10370, 10361, 10371, 10370, 10361, 10371, 10370, 10037, 10195, 10170, 10037, 10195, 10170, 10037, 10195, 10170, 10037, 10195, 10170, 10037, 10193, 10820           Errae         11371           Erres         10037, 10217, 11944           ESC         10037, 10217, 11944           ESC         10037, 10217, 11944           ESC         10037, 10217, 10264, 10370           Eurofeel         10217, 10264, 10370           Europhon         10037, 1019, 10217           Ether         10037           Europhon         10037, 1019, 10217	E	Easy Living	11248
ECE         10037           Edison-Minerva         10487           Elbe         10037, 10217, 10218, 10362, 10610           Elcit         10163           Electroband         10000           Electrograph         11755           Electrohome         10154, 10000, 10463, 10150, 10178, 10030, 10073           Elekta         10009, 10264           Elfunk         11037, 11208           Elac         10037, 10218           Elta         10009, 10264           Eline         10037, 10218           Elta         10009, 10264           Emerald         10178, 10171, 10154, 10451, 10236, 10463, 10180, 10150, 10236, 10463, 10180, 10150, 10276, 10371, 10370, 10236, 10371, 10370, 10236, 10371, 10370, 1037, 10195, 10170, 10070, 10073, 10170, 10070, 10073, 10170, 10070, 10073, 10170, 10070, 10073, 10170, 10070, 10073, 10170, 10037, 10195, 10170, 10070, 10037, 10217, 10264, 10370           Errae         11371           Erres         10037, 10217, 11944           ESC         10037, 10217, 10264, 10370           Eurofeel         10217, 10264, 10370           Eurofeel         10217, 10264, 10370           Europhon         10037, 1019, 10217           Evesham Technology         11248           Evolution         11756           Exquisit         10037 <th></th> <td>Eaton</td> <td>10060</td>		Eaton	10060
Edison-Minerva         10487           Elbe         10037, 10217, 10218, 10362, 10610           Elcit         10163           Electroband         10000           Electroband         10000           Electrobame         10154, 10000, 10463, 10150, 10178, 10030, 10073           Electrohome         10178, 10030, 10073           Elekta         10009, 10264           Elfunk         11037, 11208           ELG         10037, 10218           Elta         10009, 10264           Emerald         10178, 10171, 10154, 10451, 10548           Elta         10009, 10264           Emerald         10178           merson         11993, 10714, 1068, 10623, 10180, 10150, 10170, 10154, 10451, 10236, 10037, 10195, 10170, 10361, 10037, 10195, 10170, 10361, 10037, 10195, 10170, 10070, 10073           Envision         10030, 1003, 10813           Enzer         10860           Erae         11371           Erres         10037, 10217, 11944           ESC         10037, 10217           Ether         10037, 10217, 10264, 10370           Eurofeel         10217, 10264, 10370           Eurofeel         10217, 10264, 10370           Europhon         10037, 1019, 10217           Evesham Technology		Ecco	10773
Elbe         10037, 10217, 10218, 10362, 10610           Elcit         10163           Electroband         10000           Electroband         10000           Electrohome         10154, 10000, 10463, 10150, 10178, 10030, 10073           Electrohome         10178, 10030, 10073           Elekta         10009, 10037, 10361, 10548           Elin         10009, 10037, 10361, 10548           Elite         10037, 10218           Elta         10009, 10264           Emerald         10178           Mode3, 0180, 10150, 10178, 10171, 10154, 10451, 10236, 10463, 0180, 10150, 10361, 10037, 10174, 10668, 10623, 10486, 10036, 10371, 10370, 10361, 10037, 10174, 10688, 10623, 10486, 10036, 10371, 0195, 10170, 10070, 10073           Enverson         11999, 10714, 10668, 10623, 10486, 10036, 10371, 0195, 10170, 10070, 10073           Envision         10030, 10031           Enzer         10860           Erae         11371           Erres         10037           Evolution         10037, 10217, 11944           ESC         10037, 10217, 11944           ESC         10037, 10217, 10264, 10370           Eurofeel         10217, 10264, 10370           Europhon         10037, 10109, 10217           Evesham Technology         11248			10037
Libe         10610           Elcit         10163           Electroband         10000           Electrohome         10154, 10000, 10463, 10150, 10178, 10030, 10073           Electrohome         10178, 10030, 10073           Elekta         10009, 10037, 10361, 10548           Elfin         10009, 10037, 10361, 10548           Elite         10037, 10218           Elta         10009, 10264           Emerald         10178           Model, 10178         10047, 10017, 10154, 10451, 10254, 10150, 10170, 10174, 10668, 10623, 10463, 10180, 10150, 10170, 1037, 10195, 10170, 1037, 10195, 10170, 10037, 10030, 10009           Errae         11371           Erres         10037, 10217, 11944           ESA         10812, 10171, 11944           ESC         10037, 10217, 10264, 10370           Eurofeel         10217, 10264           Euroman         10037, 10217, 10264, 10370           Europhon         10037, 10109, 10217		Edison-Minerva	
Electroband         10000           Electrograph         11755           Electrohome         10154, 10000, 10463, 10150, 10178, 10030, 10073           Elekta         10009, 10264           Elfunk         11037, 11208           ELG         10037           Elin         10009, 10037, 10361, 10548           Elite         10037, 10218           Elta         10009, 10264           Emerald         10178, 10171, 10154, 10451, 10236, 10463, 10180, 10150, 10178, 10170, 10036, 10371, 10300, 10036, 10371, 10300, 10036, 10371, 10300, 10036, 10371, 10300, 10036, 10371, 10300, 10036, 10371, 10370, 10361, 10037, 10195, 10170, 10070, 10073           Envision         10030, 10813           Enzer         10860           Erae         11371           Erres         10037, 10217           Ether         10037, 10217           Ether         10030, 1009           Etron         10001, 10009, 10163, 10820           Etron         10037, 10217, 10264, 10370           Europa         10037           Europa         10037           Evontion         11756           Expert         10163           Expuisit         10037           Evolution         11756           Expert         10163			
Electrograph         11755           Electrohome         10154, 10000, 10463, 10150, 10178, 10030, 10073           Elekta         10009, 10264           Elfunk         11037, 11208           ELG         10037           Elin         10009, 10037, 10361, 10548           Elite         10037, 10218           Elta         10009, 1027, 10154, 10451, 10236, 10463, 10180, 10150, 10178, 10171, 10361, 1037, 10136, 10453, 10180, 10150, 10178, 10171, 10361, 10037, 10178, 10171, 10361, 10037, 10195, 10170, 10036, 10371, 10370, 10361, 10037, 10195, 10170, 10070, 10073           Envision         10030, 10813           Enzer         10860           Erae         11371           Erres         10037, 10217           Ether         10037, 10217           Ether         10037, 10217           Ether         10037, 10217           Etron         10030, 1009           Etron         10037, 10217           Ether         10037, 10217           Ether         10037, 10217           Etrophon         10037, 10217, 10264, 10370           Europhon         10037           Europhon         10037           Evolution         11756           Expert         10163           Exquisit         10037 </td <th></th> <td></td> <td></td>			
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Elekta         10009, 10264           Elfunk         11037, 11208           ELG         10037           Elin         10009, 10037, 10361, 10548           Elite         10037, 10218           Elta         10009, 10264           Emerald         10178           10047, 10017, 10154, 10451, 10453, 10180, 10150, 10176, 10171, 11944, 11911, 10236, 10463, 10180, 10150, 10170, 10171, 1099, 10714, 10668, 10623, 10468, 10036, 10371, 10370, 10361, 10037, 10195, 10170, 10070, 10073           Enverson         11999, 10714, 10668, 10623, 10460, 10371, 0037, 10036, 10371, 10370, 10371, 10370, 10371, 10370, 10037, 10019, 10217           Erae         11371           Erres         10037, 10217, 11944           ESC         10037, 10217           Ether         10030, 10009           Etron         10001, 10009, 10163, 10820           Eurofeel         10217, 10264, 10370           Europhon         10037, 1019, 10217           Evesham Technology         11248           Evolution         11756           Exquisit         10037           Feilang         10009           Feilu         10037, 10019, 10217           Evesham Technology         11248           Evolution         11756           Exquisit         10037		Electrograph	
Elfunk         11037, 11208           ELG         10037           Elin         10009, 10037, 10361, 10548           Elite         10037, 10218           Elita         10009, 10264           Emerald         10178           Internation 10037, 10218         10047, 10017, 10154, 10451, 10236, 10463, 10180, 10150, 10178, 10171, 11944, 11911, 10236, 10463, 10171, 10371, 10370, 10371, 10370, 10371, 10370, 10371, 10370, 10371, 10370, 1037, 10037, 10037, 10073           Envision         10030, 10813           Enzer         10860           Erae         11371           Erres         10037, 10217           Ether         10030, 10009           Etron         10001, 10009, 10163, 10820           Eurofeel         10217, 10264           Euroman         10037, 10217, 10264, 10370           Europa         10037           Evolution         11756           Expert         10163           Exquisit         10037      <	1		
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Elta         10009, 10264           Emerald         10178           10047, 10017, 10154, 10451, 10236, 10463, 10180, 10150, 10178, 10171, 11944, 11911, 1909, 10714, 10668, 10623, 10486, 10037, 10171, 10144, 11911, 10037, 10195, 10170, 10070, 10037, 10195, 10170, 10070, 10037, 10195, 10170, 10070, 10037, 10195, 10170, 10070, 10037, 10195, 10170, 10071, 10030, 10009           Erae         11371           Erres         10037, 10217           Ether         10030, 10009           Etron         10001, 10009, 10163, 10820           Eurofeel         10217, 10264           Europa         10037           Europa         10037           Evolution         11756           Expert         10163           Expert         10163           Expert         10163           Exquisit         10037           Feilang         10009           Feilan         10037, 10217, 10264, 10370           Export         10163           Exquisit         10037           Feilang         10009           Feilang         10009           Feilu         10053, 10037, 10073, 10109, 10217           Ferguson         10053, 10037, 10073, 10109, 10195, 10287, 10335, 10343, 10444, 10560, 10625, 10343, 10548, 10560, 10625, 1037, 10073, 10109, 10195, 10287, 10335, 10343, 10548, 10560, 10625,	۰.		
Emerald         10178           10047, 10017, 10154, 10451, 10236, 10463, 10180, 10150, 10178, 10171, 11944, 11911, 11944, 11911, 11940, 11909, 10714, 10668, 10623, 10486, 10036, 10371, 10370, 10070, 10037, 10195, 10170, 10070, 1003           Ernerson         11909, 10714, 10668, 10623, 10470, 10037, 10195, 10170, 10070, 10037, 10195, 10170, 10070, 1003           Envision         10030, 10813           Enzer         10860           Erae         11371           Erres         10037           ESA         10812, 10171, 11944           ESC         10037, 10217           Ether         10030, 10009           Etron         10037, 10217, 10264, 10370           Europhen         10037, 10217, 10264, 10370           Europhon         10037, 10217, 10264, 10370           Europhon         10037, 10217, 10264, 10370           Evolution         11756           Expert         10163           Exquisit         10037           Feilang         10009           Feilu         10093, 10817           Fenner         10009, 10817           Ferner         10033, 10037, 10073, 10109, 10194, 10343, 10548, 10560, 10625, 11037           Ferguson         10053, 10037, 10073, 10103, 10217, 10512, 10343, 10548, 10560, 10625, 11037           Fielang         100053, 10037			
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Enzer         10860           Erae         11371           Erres         10037           ESA         10812, 10171, 11944           ESC         10037, 10217           Ether         10030, 10009           Etron         10001, 10009, 10163, 10820           Eurofeel         10217, 10264           Europa         10037           Europa         10037           Europhon         10037, 10217, 10264, 10370           Europa         10037           Europhon         10037, 10109, 10217           Evesham Technology         11248           Evolution         11756           Expert         10163           Exquisit         10009           Feilang         10009           Feilu         10009, 10817           Feron         10335           Ferguson         10053, 10037, 10073, 10109, 10274, 10351, 10349, 10351, 10349, 10351, 10349, 10351, 10349, 10443, 10548, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 10444, 10364, 10361, 10627, 10044, 10361, 10277, 10163, 10217           Filsai         10217           Evalution         10163, 10208, 10346, 10361, 10217		Emerson	10236, 10463, 10180, 10150, 10178, 10171, 11944, 11911, 11909, 10714, 10668, 10623, 10486, 10036, 10371, 10370, 10361, 10037, 10195, 10170,
Erae         11371           Erres         10037           ESA         10812, 10171, 11944           ESC         10037, 10217           Ether         10030, 10009           Etron         10001, 10009, 10163, 10820           Eurofeel         10217, 10264           Europa         10037           Europhon         10037, 10217, 10264, 10370           Europhon         10037, 10109, 10217           Evesham Technology         11248           Evolution         11756           Expert         10163           Exquisit         10037           Feilang         10009           Feilu         10009, 10817           Feron         10335           Ferque         10009, 10374           Fero         10335           Ferguson         10053, 10037, 10073, 10109, 10217, 10454, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 1024, 10361, 10371, 10512           Filsai         10217           Evaluation         10171, 10037, 10163, 10217, 10264, 10361, 10217, 10264, 10361, 10217		Envision	10030, 10813
Erres         10037           ESA         10812, 10171, 11944           ESC         10037, 10217           Ether         10030, 10009           Etron         10001, 10009, 10163, 10820           Eurofeel         10217, 10264           Europa         10037           Europhon         10037, 10217, 10264, 10370           Europhon         10037, 10109, 10217           Evesham Technology         11248           Evolution         11756           Expert         10163           Exquisit         10037           Feilang         10009           Feilu         10009, 10817           Feron         10335           Ferguson         10053, 10037, 10073, 10109, 10273, 10109, 10243, 10354, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 10244, 10364, 10361, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 10264, 10361, 10217, 10264, 10361, 10217           Filsai         10217           Filsai         10217		Enzer	10860
ESA         10812, 10171, 11944           ESC         10037, 10217           Ether         10037, 10217           Ether         10030, 10009           Etron         10001, 10009, 10163, 10820           Eurofeel         10217, 10264           Euroman         10037, 10217, 10264, 10370           Europa         10037           Europhon         10037, 10109, 10217           Evesham Technology         11248           Evolution         11756           Expert         10163           Exquisit         10037           Feilang         10009           Feilu         10009, 10817           Feron         10335           Ferque         10009, 10374           Ferd         10335           Ferguson         10053, 10037, 10073, 10109, 10217, 10433, 10243, 10548, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 1024, 10361, 10371, 10512           Filsai         10217           Einlandin         10217		Erae	11371
ESC         10037, 10217           Ether         10030, 10009           Etron         10001, 10009, 10163, 10820           Eurofeel         10217, 10264           Euroman         10037, 10217, 10264, 10370           Europa         10037           Europhon         10037, 10109, 10217           Evesham Technology         11248           Evolution         11756           Expert         10163           Exquisit         10009           Feilang         10009           Feilu         10009, 10817           Feroner         10009, 10817           Feron         10335           Ferguson         10053, 10037, 10073, 10109, 10277, 10163, 10247, 10548, 10560, 10625, 10043, 10548, 10560, 10625, 10037, 10073, 10163, 10247, 10244, 10364, 10560, 10625, 10037, 10073, 10163, 10217, 10244, 10361, 10371, 10512           Filsai         10217           Filsai         10217           Filsai         10217		Erres	10037
Ether         10030, 10009           Etron         10001, 10009, 10163, 10820           Eurofeel         10217, 10264           Euroman         10037, 10217, 10264, 10370           Europa         10037           Europhon         10037, 10109, 10217           Evesham Technology         11248           Evolution         11756           Expert         10163           Exquisit         10009, 10817           Feilang         10009, 10817           Feiyan         10264           Feryue         10009, 10374           Fero         10335           Ferguson         10053, 10037, 10073, 10109, 10217, 10434, 10548, 10560, 10625, 10435, 10434, 10548, 105661, 10625, 10433, 10248, 105661, 10625, 10434, 10374, 10548, 105661, 10625, 100437, 10074, 10163, 10217, 10264, 10361, 10371, 10512, 10217           Fidelity         10171, 10037, 10163, 10217, 10264, 10361, 10271, 10571, 10572           Filsai         10217           Filsai         10217		ESA	10812, 10171, 11944
Etron         10001, 10009, 10163, 10820           Eurofeel         10217, 10264           Euroman         10037, 10217, 10264, 10370           Europa         10037           Europhon         10037, 10109, 10217           Evesham Technology         11248           Evolution         11756           Expert         10163           Exquisit         10009           Feilang         10009           Feilu         10009, 10817           Feroner         10009, 10374           Fero         10335           Ferguson         10053, 10037, 10073, 10109, 10437, 10548, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 1024, 10361, 10371, 10512           Fidelity         10171, 10037, 10163, 10217, 10264, 10361, 10217, 10264, 10361, 10217           Filsai         10217           Filsai         10217		ESC	10037, 10217
Eurofeel         10217, 10264           Euroman         10037, 10217, 10264, 10370           Europa         10037           Europhon         10037, 10109, 10217           Evesham Technology         11248           Evolution         11756           Expert         10163           Exquisit         10009           Feilang         10009           Feilu         10009, 10817           Feroner         10009, 10817           Ferner         10009, 10374           Fer0         10335           Ferguson         10053, 10037, 10073, 10109, 10243, 10348, 10548, 10560, 10625, 10423, 10434, 10548, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 10274, 10264, 10361, 10371, 10512           Filsai         10217           Filsai         10217		Ether	10030, 10009
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Europa         10037           Europhon         10037, 10109, 10217           Evesham Technology         11248           Evolution         11756           Expert         10163           Exquisit         10007           Feilang         10009           Feilu         10009, 10817           Feiyan         10264           Feiyue         10009, 10817           Ferner         10009, 10374           Fer0         10335           Ferguson         10053, 10037, 10073, 10109, 10143, 10548, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 1024, 10361, 10371, 10512           Filsai         10217           Filsai         10217           Filsai         10217           Filsai         10217		Eurofeel	10217, 10264
Europhon         10037, 10109, 10217           Evesham Technology         11248           Evolution         11756           Expert         10163           Exquisit         10037           Feilang         10009           Feilu         10009, 10817           Feiyan         10264           Feiyue         10009, 10817           Ferner         10009, 10374           Fer0         10335           Ferguson         1053, 10037, 10073, 10109, 10243, 10348, 10560, 10625, 11037           Fidelity         10171, 1037, 10163, 10217, 1024, 10361, 10371, 10512           Filsai         10217           Filsai         10217           Filsai         10217           Filsai         10217		Euroman	10037, 10217, 10264, 10370
Evesham Technology         11248           Evolution         11756           Expert         10163           Exquisit         10037           Feilang         10009           Feilu         10009, 10817           Feiyan         10264           Feiyue         10009, 10374           Fer0         10335           Ferguson         10053, 10037, 10073, 10109, 10434, 10348, 10548, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 10274, 10361, 10371, 10512           Filsai         10217           Filsai         10217           Filsai         10217		Europa	10037
Evolution         11756           Expert         10163           Exquisit         10037           Feilang         10009           Feilu         10009, 10817           Feiyan         10264           Feiyue         10009, 10817           Fenner         10009, 10374           Fer0         10335           Ferguson         1053, 10037, 10073, 10109, 10434, 10348, 10548, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 10274, 10361, 10371, 10512           Filsai         10217           Filsai         10217           Filsai         10217		Europhon	10037, 10109, 10217
Expert         10163           Exquisit         10037           Equisit         10009           Feilang         10009, 10817           Feiyan         10264           Feiyue         10009, 10817           Fenner         10009, 10374           Fer0         10335           Ferguson         10053, 10037, 10073, 10109, 10434, 10548, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 10274, 10361, 10371, 10512           Filsai         10217           Filsai         10217           Filsai         10217		Evesham Technology	11248
Exquisit         10037           Feilang         10009           Feilu         10009, 10817           Feiyan         10264           Feiyue         10009, 10817           Fenner         10009, 10374           Fer0         10335           Ferguson         10053, 10037, 10073, 10109, 10433, 10548, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 10274, 10361, 10371, 10512           Filsai         10217           Finlandia         10163, 10208, 10364, 10361, 10361, 10217		Evolution	11756
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Feilu         10009, 10817           Feilu         10264           Feiyae         10009, 10817           Fenner         10009, 10374           Fer0         10335           Ferguson         10195, 10287, 10073, 10109, 10195, 10287, 10335, 10343, 10443, 10548, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 10163, 10217, 10264, 10361, 10371, 10512           Filsai         10217           Filsai         10217           Filsai         10217			10037
Feiyan         10264           Feiyue         10009, 10817           Fenner         10009, 10374           Fer0         10335           Ferguson         10053, 10037, 10073, 10109, 10195, 10287, 10335, 10343, 10443, 10548, 10560, 10625, 11037           Fidelity         10171, 10037, 10163, 10217, 10371, 10512           Filsai         10217           Filsai         10217           Filsai         10217           Filsai         10217	Εļ	°	
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Filsai 10217 Filsadia 10163, 10208, 10346, 10361,		Fidelity	10171, 10037, 10163, 10217, 10264, 10361, 10271, 10212
Einlandia 10163, 10208, 10346, 10361,		Filsai	
	ľ		10163, 10208, 10346, 10361,

	Finlux	10037,	10070,	10163,	10217,
	T IIIIUX	10340, 10714,	10400,	10808,	10631, 11556
	Firstar	10236,	10009		
		10009,	10037,	10208,	10217,
	Firstline	10301,	10374, 10808,	110356,	10217, 10668, 11191,
		11363,	11371	10154	10000
	Fisher	10047, 10036	10054, 10208	10154, 10217	10000, 10361,
		10370			
	Flint	10037, 10610	10218,	10264,	10455,
	Force	11149			
	Formenti	10037,	10163		
	Fortress	10093			
	Fraba	10037,	10370		
	Friac		10037,	10370,	10499,
	Frontech	10610	10163,	10217	10264
	Fujimaro	10865,		10217,	10204
				10352	10683,
	Fujitsu	10809,			
	Fujitsu General		10217,		
	Fujitsu Siemens		10809,		
	Funai		10180, 11271,		10264,
	Furi		10264,		
	Furichi	10860			
	Futronic	10264,	10860		
	Futuretech	10180			
G	Galaxi	10037			
	Galaxis	10037,	10370		
	Ganxin	10817			
	Gateway	11755,			
	GBC		10163,		
		11447, 10051	10047, 10451	11454, 10093	10000, 10180,
	GE	10060,	10178,	10030,	10092, 11147,
		11922, 10625	11917, 10560,	11347, 10335	11147, 10035
	GEC		10163,		
	Geloso	10009,	10163,	10374	
	Gemini	10047			
	General	10109,	10287		
	General Technic	10009			
	Genesis	10009,	10037		
	Genexxa		10037,		
	Gericom	10808, 11298	10865,	10880,	11217,
	Gevalt	11371			
	Giant	10009,	10217		
	Gibralter	10017,	10000,	10030	
	Go Video	10060,	10886		
	Go Vision	11937			
	Goldfunk	10668			
		10047,	10054,	10154,	10178,
	GoldStar	10455	10361	10217	10163
	Guiustai	10400,	10001,	10217,	10103,
	Guiustai	10109,	10073,	10037,	10178, 10606, 10163, 10036,

	Gooding	10487
	Goodmans	10000, 11909, 11900, 11163, 11037, 10880, 10808, 10714, 10668, 10661, 10634, 10625, 10587, 10560, 10556, 10499, 10487, 10480, 10374, 10371, 10343, 10335, 10264, 10218, 10217, 10037, 10036, 10035, 10011, 10009
	Gorenje	10370
	GPM	10218
	Gradiente	10053, 10037, 10170
	Graetz	10163, 10361, 10371, 10487, 10714, 11163
	Gran Prix	10648
	Granada	10036, 10037, 10108, 10163, 10208, 10217, 10226, 10343, 10548, 10560
	Grandin	10009, 10037, 10163, 10218, 10374, 10455, 10610, 10668, 10714, 10715, 10865, 10880, 11037, 11191
	Gronic	10217
	Grundig	10706, 10009, 10036, 10037, 10070, 10163, 10195, 10443, 10487, 10556, 10587, 10672, 10683, 11371
	Grundy	10180, 10195
	Grunkel	11163
	Grunpy	10180
н	H & B	10808
	Haaz	10706
	Haier	11034, 10037, 10508, 10587, 10698, 11017
	Haihong	10009
	Haiyan	10264, 10817
	Halifax	10217, 10264
	Hallmark	10236, 10180, 10178
	Hampton	10217
	Hanimex	10218
	Hankook	10180, 10178, 10030 10009, 10037, 10217, 10361,
	Hanseatic	10370, 10394, 10499, 10556, 10634, 10661, 10714, 10808
	Hantarex	10009, 10037, 10865
	Hantor	10037
	Harley Davidson	10000, 10180, 10060, 10178, 10030, 11904
	Harman/Kardon	10054
	Harsper	10865
	Harvard	10180
	Harwa	10773, 11196, 11269
	Harwood	10009, 10037, 10487
	Hauppauge	10037
	Havermy	10093 10009, 10037, 10217, 10218,
	HCM	10264, 10418
	Heathkit	10017
	Helios	10865
	Hello Kitty	10451

Hema	10009, 10217	Im
Hewlett Packard	11494, 11502	Im
Hifivox	10109	Im
Highline	10037, 10264	In
Hikona	10218	In
Hikone	10218	In
Hinari	10009, 10036, 10037, 10163, 10208, 10218, 10264, 10352, 10443	In
Hisawa	10218, 10455, 10610, 10714	In
Hisense	10156, 10748, 10145, 10009, 10208, 10508, 10556, 10780, 10821, 10860, 11022, 11156, 11170, 11208, 11363	In In In
Hitachi	10047, 10054, 10017, 10000, 11256, 10156, 10051, 10150, 10178, 10030, 11145, 10145, 10092, 10744, 10877, 10634, 11037, 11137, 11149, 11156, 11170, 11225, 11576, 11904, 11960, 10578, 10548, 10508, 10499, 10481, 10480, 10343, 10217, 10163, 10109, 10108, 10037, 10036, 10035, 10009	In In In In In
Hitachi Fujian	10150, 10108, 10860	
Hitec	10698	Irr
Hitsu	10009, 10218, 10455, 10610	lsi
Hoeher	10714, 10865, 11163, 11556	IT
Home Electronics	10606	IT
Hongmei	10093, 10009, 10264, 10817	IT
Hongyan	10264, 10817	
Hornyphon	10037	IT
Hoshai	10218, 10455	_
HP	11494, 11502	IT
Hua Tun	10009	IX
Huafa	10145, 10009	
Huanghaimei	10009	JC
Huanghe	10009, 10817	JE
Huanglong	10009	Je
Huangshan	10009, 10264, 10817	JE
Huanyu	10217, 10264, 10374, 10817	Je
Huagiang	10264	Ji
Huari	10145, 10264	Ji
Hugoson	11217	JI
Huodateji	10051	Ji
Hygashi	10217	Ji
Hyper	10009, 10217	Ji
Hypersonic	10361	JI
Hypson	10037, 10217, 10264, 10455, 10486, 10556, 10668, 10714, 10715, 11037	Ji
Hyundai	10849, 10860, 10865, 10876, 11556	AL AL
Iberia	10037	Jo
ICE	10037, 10217, 10218, 10264, 10371	Jo Ju
ICeS	10218	Ju
liyama	10877, 11217	Ju

Ima	10236, 10180, 10178
Imperial	10037, 10074, 10370, 10418
Imperial Crown	10001, 10009, 10264, 10374, 10661
Indiana	10037
Infinity	10054
InFocus	11164
Ingelen	10163, 10487, 10610, 10714
Ingersol	10009
Inno Hit	10009, 10217, 10218, 11163
Innova	10037
Innowert	10865, 11298
Inotech	10773, 10820
Insignia	10171, 11517
Inteq	10017, 10145
Interbuy	10009, 10037, 10264
Interfunk	10037, 10109, 10163, 10200, 10327, 10361, 10512
Internal	10037, 11909
intornal	10009, 10037, 10217, 10218,
Intervision	10264, 10394, 10455, 10486, 10487
Irradio	10009, 10037, 10218, 10371
Isukai	10037, 10218, 10455
ITC	10217
ITS	10037, 10218, 10264, 10371
ITT	10163, 10208, 10346, 10361,
11.1	10480, 10548, 10610 10070, 10162, 10105, 10208
ITT Nokia	10070, 10163, 10195, 10208, 10346, 10361, 10480, 10548, 10606, 10610
ITV	10037, 10264, 10374
IX	10877
JBL	10054
JCB	10000
JDV	11982
Jean	10156, 10051, 10236, 10092,
JEC	10009, 10036 10035
Jensen	10761, 10815, 10817, 11933
Jiahua	10051
JiaLiCai	
JII	
Jinfeng	10009, 10264
Unifolity	
	10009, 10264 10030 10051, 10208, 10226, 10817
Jinque Jinta	10009, 10264 10030
Jinque Jinta	10009, 10264 10030 10051, 10208, 10226, 10817 10009, 10264, 10817 10009, 10264
Jinque	10009, 10264 10030 10051, 10208, 10226, 10817 10009, 10264, 10817 10059, 10264 10054, 10156, 10145, 10009, 10037, 10264, 10556, 10698,
Jinque Jinta	10009, 10264 10030 10051, 10208, 10226, 10817 10009, 10264, 10817 10009, 10264 10054, 10156, 10145, 10009, 10037, 10264, 10556, 10698, 10817, 10821, 11011
Jinque Jinta Jinxing JMB	10009, 10264 10030 10051, 10208, 10226, 10817 10009, 10264, 10817 10009, 10264 10054, 10156, 10145, 10009, 10037, 10264, 10556, 10698, 10817, 10821, 11011 10443, 10499, 10556, 10634
Jinque Jinta Jinxing	10009, 10264 10030 10051, 10208, 10226, 10817 10009, 10264, 10817 10009, 10264 10054, 10156, 10145, 10009, 10037, 10264, 10556, 10698, 10817, 10821, 11011 10443, 10499, 10556, 10634 10876
Jinque Jinta Jinxing JMB JNC	10009, 10264 10030 10051, 10208, 10226, 10817 10009, 10264, 10817 10009, 10264 10054, 10156, 10145, 10009, 10037, 10264, 10556, 10698, 10817, 10821, 11011 10443, 10499, 10556, 10634
Jinque Jinta Jinxing JMB JNC Jocel	10009, 10264 10030 10051, 10208, 10226, 10817 10009, 10264, 10817 10009, 10264, 10817 10054, 10156, 10145, 10009, 10037, 10264, 10556, 10698, 10817, 10821, 11011 10443, 10499, 10556, 10634 10876 10712
Jinque Jinta Jinxing JMB JNC Jocel Johnson	10009, 10264 10030 10051, 10208, 10226, 10817 10009, 10264, 10817 10009, 10264 10054, 10156, 10145, 10009, 10037, 10264, 10556, 10698, 10817, 10821, 11011 10443, 10499, 10556, 10634 10876 10712 10455

	JVC	10054, 10093, 10463, 10053, 10030, 10070, 10036, 10218, 10371, 10418, 10508, 10606, 10650, 10653, 10683, 10731, 11253, 11923
К	Kaige	10009, 10264, 10817
	Kaisui	10009, 10037, 10217, 10218, 10455
	Kambrook	10217
	Kamp	10017, 10180, 10217
	Kangli	10001, 10009, 10264, 10374, 10661, 10817
	Kangyi	10009, 10264
	Kapsch	10163, 10361
	Karcher	10264, 10370, 10606, 10610, 10714, 10778, 11556
	Kathrein	10556
	Kawa	10371
	Kawasho	10030
	KB Aristocrat	10163
	KDS	11498
	KEC	10180, 10060
	Kendo	10037, 10362, 10370, 10610, 10648, 11037
	Kennedy	10163
	Kennex	10668, 11037
	Kenwood	10180, 10030
	Khind	10706
	KIC	10217
	Kiota	10001, 10371, 10455
	Kioto	10706, 10556
	Kiton	10037, 10668
	KLH	10156, 10180, 10765, 10767, 11962
	KLL	10037
	Kloss	10030
	Kneissel	10037, 10362, 10370, 10374, 10499, 10556, 10610
	Kolin	10180, 10150, 10053, 10036, 10108, 11331
	Kolster	10037, 10218
	Kongque	10009, 10264, 10817
	Konichi	10009
	Konig	10037
	Konka	10180, 10037, 10218, 10371, 10418, 10587, 10641, 10714, 10817, 11084
	Kontakt	10487
	Korpel	10037
	Korting	10370
	Kosmos	10037
	Koyoda	10009
	Kreisen	10876
	KTV	10463, 10180, 10030, 10217
	Kuaile	10009, 10264
	Kulun	10009
	Kunlun	10051, 10208, 10226, 10264, 10374, 10661, 10817

Kyoshu	10418
Kyoto	10163, 10217
L&S Electronic	10714, 10808, 10865
Lark	10154
LaSAT	10486
Lavis	11037
Leader	10009
Lecson	10037
Legend	10009
Lenco	10037, 10374, 10587
Lenoir	10009
Lexsor	11196
Leyco	10037, 10264
LG	10054, 11265, 10060, 10178, 10030, 11758, 11637, 11191, 11178, 10856, 10715, 10714, 10700, 10698, 10556, 10370, 10361, 10217, 10163, 10109, 10108, 10037, 10009, 10001
Liesenk & Tter	10037
Liesenkotter	10037, 10327
Lifetec	10009, 10037, 10218, 10374, 10668, 10683, 10714, 11037, 11137
Lihua	10817
Lloyd's	10236, 10180, 10030, 10001, 10009, 11904
Local India TV	10009, 10208, 10602
Local Malaysia TV	10698
Lodos	11037
Loewe	10037, 10370, 10512, 10633, 10790
Logik	10236, 10180, 10060, 10001, 10009, 10011, 10371, 10698, 10773, 10880, 11037, 11217
Logix	10668
Longjiang	10264, 10817
Luker	11982
Luma	10009, 10163, 10362, 10374, 11037
Lumatron	10037, 10073, 10163, 10217,
Lux May	10264, 10361, 10556 10009, 10037
Lux may	10163, 10208, 10217, 10346,
Luxor	10361, 10480, 10548, 10631, 11037, 11163
LXI	10047, 10054, 10017, 10154, 10000, 10156, 10051, 10093, 10060, 10053, 10178, 10030, 10171, 10166, 10037, 10036, 10035, 10001, 10208
M Electronic	10035, 10017, 10208 10009, 10037, 10109, 10163, 10195, 10217, 10287, 10343, 10346, 10374, 10480, 10512, 10634, 10661, 10714
Madison	10037
MAG	11498
Magnadyne	10054, 10163
Magnafon	10073
Magnasonic	10054, 10000, 10156, 10093, 10030, 10092, 10109

L

Μ

Magnavox	10047, 11454, 10054, 10154, 10000, 10250, 10051, 10180, 10060, 10030, 10171, 10092, 10706, 11944, 11904, 11755, 11254, 10802, 10780, 10011, 10035, 10037, 10036
Magnum	10037, 10648, 10714, 10715
Majestic	10017
Mandor	10264
Manesth	10035, 10037, 10217, 10264
Manhattan	10037, 10668, 10778, 10876, 11037, 11267
Marantz	11454, 10054, 10030, 10037, 10556, 10704, 10855
Mark	10009, 10037, 10217, 10374, 10714, 10715
Master's	10499
Mastro	10053, 10706, 10698, 10780
Masuda	10009, 10037, 10217, 10218, 10264, 10371
Matsui	11037, 10744, 10714, 10556, 10487, 10455, 10443, 10433, 10371, 10352, 10335, 10217, 10208, 10195, 10163, 10037, 10036, 10035, 10011, 10009
Matsushita	10250, 10051, 10650
Maxdorf	10773
Maxent	11755, 11756
Maxim	11556, 11982
MCE	10009
Meck	10698
Mediator	10037, 10556
Medion	10037, 10512, 10556, 10668, 10698, 10714, 10808, 10880, 11037, 11137, 11248, 11900
Megapower	10700
Megas	10610
Megatron	10047, 10178, 10145, 10009
MEI	11037
Meile	10264, 10817
Memorex	10154, 10250, 10463, 10180, 10150, 10060, 10178, 10030, 10009, 10035, 10037, 10195, 10877, 11037, 11911
Memphis	10009
Mercury	10060, 10001, 10009, 10037
Mermaid	10037
Metronic	10625
Metz	10037, 10195, 10367, 10388, 10447, 10587, 10668, 10746, 11163
MGA	10150, 10178, 10030, 10218, 10374
MGN Technology	10178
Micro Genius	10150
Micromaxx	10037, 10668, 10714, 10808, 11037
Microstar	10808
MicroTEK	10820, 10860
Midland	10047, 10017, 10051
Mikomi	11037, 11149

Minato	10037, 10556		Ν
Minerva	10070, 10108, 10195, 10487		Ν
Minoka	10037		Ν
Mirror	11900		N
	10154, 10250, 10093, 10236, 10180, 11250, 10150, 10178,		N
Mitsubishi	10030, 11917, 11037, 10836, 10817, 10556, 10512, 10195,		N
	10108, 10037, 10036, 10011		N
Mivar	10217		Ν
Monaco	10009		Ν
Monivision	10700, 10843		Ν
Morgan's	10037		Ν
Motorola	10054, 10051, 10093, 10150		Ν
MTC	10180, 10060, 10030, 10092, 10011, 10370, 10512	•	N
MTlogic	10714	0	0
Mudan	10051, 10009, 10208, 10226, 10264, 10817		0
Multitec	10037, 10486, 10668, 11037, 11556		0
Multitech	10180, 10009, 10037, 10217, 10264, 10370, 10486		0
Murphy	10163		0
Musikland	10218		0
Mx Onda	11498		0
Myryad	10556		
NAD	10156, 10178, 10166, 10037, 10361, 10866, 11156		0
Naiko	10037, 10606, 11982		0
Nakimura	10037, 10374		0
Nanbao	10009, 10264		0
Nansheng	10264, 10817		0
Narita	11982		0
NAT	10226		-
National	10051, 10208, 10226, 10508		0
	10047, 10154, 10156, 10051, 10053, 10178, 10030, 11704,		0
NEC	11270, 11170, 10817, 10704, 10661, 10653, 10508, 10499,		0
	10455, 10374, 10264, 10217,		0
	10170, 10036, 10011, 10009 10037, 10200, 10327, 10370,		0
Neckermann	10418, 10556		0
NEI	10037, 10163, 10371		0
Neovia	10865, 10876, 11371		0
Netsat	10037		0
NetTV	11755		0
Neufunk	10009, 10037, 10218, 10556, 10610, 10714		0
New Tech	10009, 10037, 10217, 10343, 10556	P	P
New World	10218		P
Newave	10093, 10178, 10092, 10009		P
Nikkai	10009, 10035, 10036, 10037, 10163, 10217, 10218, 10264		
Nikkei	10714		P
Nikko	10178, 10030, 10092		P
Nikkodo	10178, 10030, 10092		
			P

Ν

Nishi	10030
Nobliko	10070
Nogamatic	10109
Nokia	10163, 10208, 10346, 10361, 10374, 10480, 10548, 10606
Nokia	10610, 10631
Norcent	10748, 10824
Nordic	10217
Nordmende	10037, 10109, 10195, 10287 10343, 10560, 10714
Normerel	10037
Novatronic	10037, 10374
NTC	10092
Nu-Tec	10455, 10698, 10820
Nyon	10000
Oceanic	10163, 10208, 10361, 10548
Odeon	10264
Okano	10009, 10037, 10264, 10370
Olevia	11144, 11240, 11331, 11610
Omega	10264
Omni	10748, 10698, 10780, 10872
Onida	10053, 11253
Onimax	10714
	10180, 10218, 10371, 10433
Onwa	10602
Opera	10037
Optimus	10154, 10250, 10093, 10180 10150, 10178, 10030, 10166 10650
Optoma	10887
Optonica	10093
Orbit	10037
Orcom	11504
Orion	10017, 10236, 10463, 10180 10178, 11463, 10011, 10037 10264, 10443, 10556, 10714 10880, 11196, 11911
Orline	10037, 10218
Ormond	10668, 11037
Osaki	10037, 10217, 10218, 10264 10374, 10556
Osio	10037
Oso	10218
Osume	10036, 10037, 10218
Otic	11498
Otto Versand	10093, 10036, 10037, 10109 10195, 10217, 10226, 10343 10361, 10512, 10556
Pace	10092
Pacific	10037, 10443, 10556, 10714 11037, 11137
	10037, 10163, 10200, 10217 10327, 10370, 10418, 10556
Palladium	10714, 11137
Palladium Palsonic	10714, 11137
	10327, 10370, 10418, 10565, 10714, 11137 10001, 10037, 10217, 10218, 10264, 10418, 10598, 10773, 10778, 11196, 11269, 11904 10009, 10037, 10217, 10264

Panasonic	10054, 10000, 10156, 10250, 10051, 10236, 10030, 11947, 11946, 11941, 11480, 11310, 11291, 11271, 10853, 10650, 10548, 10508, 10367, 10361, 10226, 10208, 10163, 10108, 10037, 10035
Panavision	10037, 10033
Panda	10051, 10706, 10009, 10208, 10226, 10264, 10508, 10698, 10780, 10817, 10821
Pathe Cinema	10163
Pathe Marconi	10109
Pausa	10009
Paxonic	10060, 10030
PCE	10156, 10060
Penney	10047, 10000, 10156, 10250, 10051, 10060, 10178, 10030, 10035, 10036, 10037, 10070, 10108, 11347
Perdio	10037, 10163
Perfekt	10037
Petters	11523
Philco	10054, 10451, 10463, 10180, 10178, 10030, 10145, 11661, 10037, 10074, 10163, 10370, 10418
Philharmonic	10217
Philips	11454, 10054, 10017, 10000, 10051, 10178, 10030, 10171, 10092, 11961, 11756, 11254, 10690, 10556, 10512, 10374, 10361, 10343, 10200, 10108, 10037, 10009
Phocus	10714
Phoenix	10037, 10163, 10370, 10486
Phonola	10037, 10556
Pilot	10051, 10060, 10178, 10030, 10706, 10011
Pioneer	10166, 10011, 10037, 10109, 10163, 10170, 10287, 10361, 10370, 10486, 10512, 10679, 10760, 10866, 11260
Pionier	10370, 10486, 11556
Plantron	10009, 10037, 10264
Playsonic	10037, 10217, 10714, 10715
Polaroid	10765, 10865, 11276, 11316, 11341, 11498, 11523
Рорру	10009
Portland	10451, 10092, 10374
Powerpoint	10037, 10487, 10698
Prandoni-Prince	10361
Precision	10236, 10180, 10217
Premier	10009, 10264
President	10860
Prima	10761, 10009, 10264, 10783, 10815, 10817, 11269, 11933
Princeton	10700
Prinston	11037
Prinz	10361
Prism	10250, 10051

	Profex	10009, 10163, 10361
	Profi	10009
	Profilo	11556
	Profitronic	10037
	Proline	10037, 10073, 10625, 10634, 11037
	Proscan	11447, 10047, 11347, 11922
	Prosco	10156
	Prosonic	10037, 10217, 10370, 10371, 10374, 10668, 10714
	Protec	10009, 10037, 10217, 10264
	Protech	10009, 10037, 10217, 10264, 10418, 10486, 10668, 11037
	Proton	10178, 10030, 10001, 10009
	Proview	11498
	ProVision	10037, 10556, 10714, 11037
	Pulsar	10017, 10092
	Pulser	10178, 10092
	Pvision	10876, 11191
	Руе	10037, 10374, 10556
	Pymi	10009
۵	Qingdao	10051, 10208, 10226, 10264, 10817
	Quadral	10051, 10218
	Quartz	10150, 10178
	Quasar	10250, 10051, 10009, 10035, 10650, 10865
	Quelle	10011, 10037, 10070, 10074, 10109, 10195, 10200, 10327, 10361, 10512, 10668, 11037
	Questa	10036
	Questar	10036
R	R-Line	10037
	Rabbit	10047
	Radialva	10163, 10218
	Radiola	10037, 10217, 10556
	Radiomarelli	10037
	RadioShack	10047, 10154, 10180, 10150, 10178, 10030, 10037, 11904
	Radiotone	10009, 10037, 10264, 10370,
		10418, 10648, 10668, 11037
	Rank Rank Arena	10070 10036, 10602
	RBM	10030, 10002
	TIDIVI	11447, 10047, 11454, 10054,
	RCA	10000, 10051, 10093, 10178, 10030, 10092, 11958, 11953, 11948, 11922, 11917, 11547, 11347, 11247, 11147, 11047, 10679, 10625, 10560, 10090
	Realistic	10047, 10154, 10180, 10150, 10178, 10030
	Recor	10037, 10418
	Rectiligne	10037
	Rediffusion	10036, 10163, 10346, 10361, 10548
	Redstar	10037
	Reflex	10037, 10668, 11037
	Relisys	10865, 10876, 10877, 11207, 11298

Remotec	10250, 10093, 10145, 10171, 10037
Reoc	10714
Revox	10037
Rex	10163, 10264
RFT	10037, 10264
Rinex	10773
Roadstar	10009, 10037, 10218, 10264, 10418, 10668, 10714, 11037, 11900
Rolson	11371
Rover	10036, 10877
Rowa	10748, 10009, 10037, 10264, 10587, 10698, 10712, 10817
Royal Lux	10335, 10370
Runco	10017, 10060, 10030
Ruyi	10817
Saba	10250, 10109, 10163, 10287, 10335, 10343, 10361, 10498, 10548, 10560, 10625, 10714
Sagem	10455, 10610, 10618
Saige	10009, 10817
Saisho	10009, 10011, 10163, 10217, 10264
Saivod	10037, 10668, 10712, 11037, 11163, 11556, 11982
Sakai	10163
Sakyno	10455
Salora	10163, 10208, 10361, 10480, 10548, 10631
Salsa	10335
Sampo	10047, 10154, 10093, 10178, 10030, 10171, 10092, 10009, 10036, 10650, 10700, 11755, 11756
Samsung	10047, 10054, 10017, 10154, 10156, 10033, 10060, 10812, 10702, 10178, 10030, 10092, 10814, 10766, 10718, 10618, 10587, 10817, 10821, 11060, 11249, 11312, 11903, 11959, 10556, 10371, 10370, 10362, 10264, 10226, 10217, 10208, 10163, 10090, 10037, 10036,
Sandra	10217
Sanjian	10264
Sanky	10060, 10030
Sansui	10463, 10060, 10030, 10706, 10037, 10371, 10455, 10602, 10714, 10861, 11371, 11537, 11904, 11911
Santon	10009
Sanyo	10047, 10054, 10154, 10000, 10156, 10463, 10180, 10145, 10171, 11755, 11208, 10704, 10508, 10370, 10264, 10217, 10208, 10170, 10163, 10108, 10088, 10037, 10036, 10011, 10009
Sanyong	10037
Sanyuan	10093, 10009, 10817
Saville	10060

S

SBR	10037, 10556
Sceptre	11217
Schaub Lorenz	10361, 10374, 10486, 10548, 10606, 10714, 11191
Schneider	11982, 11904, 11137, 11037, 10714, 10668, 10648, 10556, 10394, 10371, 10361, 10352, 10343, 10218, 10217, 10163, 10070, 10037
Scotch	10178
Scotland	10163
Scott	10236, 10180, 10178, 10030
Sears	10047, 10054, 10017, 10154, 10000, 10156, 10051, 10093, 10060, 10053, 10178, 10030, 10171, 10166, 10035, 10036, 10037, 10001, 10208, 11904
Seaway	10634
Seelver	11037
SEG	10009, 10036, 10037, 10217, 10218, 10264, 10362, 10487, 10668, 11037, 11163
SEI	10037, 10163
Sei-Sinudyne	10037
Seleco	10163, 10264, 10346, 10362, 10371
Semivox	10180
Semp	10156
Sencora	10009
Sentra	10035
Serino	10093, 10455, 10610
Shancha	10264, 10817
Shanghai	10009, 10208, 10226, 10264, 10817
Shaofeng	10145, 10817
Sharp	10054, 10093, 10180, 10053, 10030, 10009, 10036, 10200, 10650, 10653, 10668, 11193, 11393, 11917
Shen Ying	10092, 10009
Shencai	10145, 10009, 10264
Sheng Chia	10093, 10236, 10009
Shenyang	10009, 10264, 10817
Sherwood	10009
Shintoshi	10037
Shivaki	10178, 10037, 10374, 10443, 10556
Show	10009, 10418
Siarem	10163
Siemens	10145, 10037, 10195, 10200, 10327
Siera	10037, 10556
Siesta	10370
Signature	10047, 10093, 10030
Silva	10037, 10361, 10648
Silva Schneider	10037, 11556
Silvano	10587
Silver	10036, 10361, 10455, 10715
SilverCrest	11037

Simpson	10178, 10030, 10011
Singer	10060, 10092, 10009, 10037, 10032, 10037, 100
Sinotec	10335, 10371, 10433, 11537 10773
Sinudyne	10037, 10163, 10361
Skantic	10163
SKY	10037, 10880, 11504
Sky Brazil	10880
Sky-North	10037
Skygiant	10180
	10748, 10009, 10037, 10264
Skyworth	10698, 10805, 10817, 11115
Sliding	10865, 10880
SLX	10668
Smaragd	10487
Soemtron	10865, 11298
Solar Drape	10000
Solavox	10037, 10163, 10361, 10548
Sole	10813
Sonawa	10218
Songba	10009
Soniko	10037
Sonitron	10208, 10217, 10370
Sonneclair	10037
Sonoko	10009, 10037, 10217, 10264
Sonolor	10163, 10208, 10361, 10548
Sontec	10009, 10037, 10370
Sony	10017, 10154, 11100, 10000 10150, 10053, 10011, 10036 10037, 10074, 10353, 10650 11505, 11651, 11751, 11904
Sound & Vision	10218, 10374
Soundesign	10180, 10178
Soundwave	10037, 10418, 10715
Sova	11952
Sowa	10156, 10051, 10060, 10178
	10092, 10036, 10226
Soyea	10773
Spectra	10009
Spectravision	10156, 10178
Spectroniq	11498
Squareview	10171
SR2000	10154, 10171
Ssangyong	10009
SSS Staksonic	10180 10009
	10009, 10037, 10217, 10218
Standard	10374, 11037
Standard Components	10009, 10218
Starlite	10236, 10180, 10009, 10037
	10163, 10264
Stenway Stern	10218
	10163, 10264 11982
Stevison	
Strato	10009, 10037, 10264

	Strong	11149, 11163
	Studio Experience	10843
	Stylandia	10217
	Sunkai	10218, 10455, 10487, 10610, 10865
	Sunstar	10009, 10037, 10264, 10371
	Sunwatt	10455
	Sunwood	10037
	Superla	10217
	Superscan	10093, 10864, 11944
	Supersonic	10009, 10208, 10455, 10805
	SuperTech	10009, 10037, 10218, 10556
1	Supra	10178, 10009, 10374
	Supreme	10000
1	Susumu	10218, 10287, 10335
1	Sutron	10009
1	SV2000	10054
1	SVA	10748, 10587, 10865, 10870,
		10871, 10872
1	Svasa	10455
	Swisstec	10880, 11504
	Sydney	10217
		10047, 10054, 10154, 10000 10051, 10178, 10030, 10171 10092, 10036, 10037, 10876 11271, 11904, 11944
	Sylvania	10092, 10036, 10037, 10876
		11271, 11904, 11944
	Symphonic	10000, 10180, 10178, 10171 11904, 11944
	Synco	10000, 10451, 10093, 10060 10178, 10092, 10036
	Syntax	11144, 11240, 11331
	Sysline	10037
	T+A	10447
	Tacico	10178, 10092, 10009
	Tai Yi	10009
	Taishan	10009, 10374, 10817
	Tandberg	10109, 10361, 10367
	Tandy	10093, 10163, 10217, 10218
	Targa	11371
	Tashiko	10092, 10036, 10163, 10170 10217, 10650
		1005/ 1015/ 10000 10156
	Tatung	10034, 10134, 10060, 10130, 10051, 10060, 10037, 10036, 10011, 10009, 10217, 11156, 11191, 11248, 11254, 11371, 11556, 11756
	5	11191, 11248, 11254, 11371
	TCL	11556, 11/56 10706 10609 11027 11527
	TCM	10706, 10698, 11027, 11537
	I GIVI	10714, 10808 10154, 10178, 10171, 10706
		11755, 11149, 11037, 10714
	Теас	11755, 11149, 11037, 10714, 10712, 10698, 10668, 10512, 10455, 10418, 10264, 10217, 10170, 10037, 10009
		10455, 10418, 10264, 10217, 10170, 10037, 10009
1	Tec	10009, 10037, 10163, 10217
i,		10335
1	Tech Line	10037, 10668, 11163
i,	Techica	10218
	Technica	11982

Technics	10054, 10250, 10051, 10226, 10556, 10650
TechniSat	10556, 11267
Technisson	10714
Technosonic	10499, 10556
Technovox	10030, 10217
Techview	10847
Techwood	10250, 10051, 10060, 11163
Tecnimagen	10556
Тесо	10051, 10093, 10178, 10092, 10009, 10036, 10218, 10264, 10653, 11040
Tedelex	10009, 10208, 10217, 10418, 10606, 10698, 11537
Teiron	10009
Tek	10820
Teknika	10054, 10463, 10180, 10150, 10060, 10178, 10092
Tele System Electronic	10876
Teleavia	10287, 10343
Telecolor	10017
Telecor	10037, 10163, 10217, 10218, 10394
Telefunken	10702, 11504, 10821, 10820, 10819, 10714, 10712, 10698, 10625, 10587, 10560, 10498, 10486, 10346, 10343, 10335, 10287, 10109, 10074, 10073, 10037
Telefusion	10037
Telegazi	10037, 10163, 10218, 10264
Telemeister	10037
Telesonic	10037
Telestar	10009, 10037, 10556
Teletech	10009, 10037, 10668, 11037
Teleton	10036, 10217
Televideon	10163
Teleview	10037
Tempest	10009, 10264, 10455
Tennessee	10037
Tensai	10009, 10037, 10217, 10218, 10371, 10374, 10715, 11037
Tenson	10009
Tera	10030, 10092
Tevion	10037, 10556, 10648, 10668, 10714, 10808, 11037, 11137, 11248, 11298, 11498, 11556
Texet	10009, 10217, 10218, 10374
Texla	10780
ThemeScene	10887
Thomas	10047, 10178, 10001, 11904
Thomson	11447, 10047, 10037, 10109, 10287, 10335, 10343, 10560, 10625
Thorn	10035, 10036, 10037, 10073, 10074, 10109, 10163, 10264, 10335, 10343, 10361, 10499, 10512
Thorn-Ferguson	10073, 10335, 10343, 10499

	Tiane	10093, 10817		U
	Tiny	11269	V	V
	TMK	10236, 10180, 10178		V
	TML	11756		V
	TNCi	10017		V
	Tobishi	10218		V
	Tobo	10748, 10009, 10264		V
	Tocom	10156		V
	Tokai	10009, 10037, 10163, 10217, 10374, 10668, 11037		
	Tokaido	11037		V
	Tokyo	10035		V
	Tomashi	10218		V
	Tongguang	10264		V
	Tongtel	10587, 10780		V
	Topline	10668, 11037		V
		10154, 11256, 10156, 10150,		V
		11265, 10060, 11145, 10145, 10166, 11037, 11156, 11163,		V
		11164, 11356, 11508, 11556,		V
	Toshiba	11656, 11704, 11945, 11971, 10845, 10821, 10718, 10650,		
		10618, 10508, 10264, 10217,		V
		10195, 10109, 10070, 10036, 10035, 10011, 10009		V
	Totevision	10051		V
	Towada	10217		V
	Toyoda	10009, 10264, 10371		V
	Toyomenka	10178		V
	Trakton	10217, 10264		V
	Trans Continens	10037, 10217, 10668, 11037	w	V
	TRANS-continents	10556, 10865		
	Transonic	10009, 10037, 10264, 10418,		
	InditSoffic	10455, 10512, 10587, 10698, 10712, 10780		V
	Triad	10218, 10556		
	Trident	10217		
	Trio	11498		V
	Tristar	10218, 10264		V
	Triumph	10037, 10346, 10556		V
	Truetone	10250, 10051		V
	Tuntex	10030, 10092, 10009		V
	TVS	10463		V
	TVTEXT 95	10556		V
U	Uher	10037, 10370, 10374, 10418, 10480, 10486		V
	Ultra	10092		V
	Ultravox	10037, 10163, 10374		V
	Unic Line	10037, 10455		V
	United	10037, 10587, 10714, 10715,		V
	Universal	11037, 11982 10047, 10037		V
	Universal	11163, 11037, 10668, 10631,		V
		10618. 10512. 10480. 10418.		V
	Universum	10370, 10362, 10361, 10346, 10327, 10264, 10217, 10200,		V
		10195, 10170, 10109, 10074,		V
		10070, 10037, 10036, 10011, 10009		V

Univox	10037,	10163			
V	10864,	10885,	11755,	11756	
V2max	10865				X
V7 Videoseven		11217,	11755		~
Vector Research	10030	40047	10000	11007	
Vestel	10037, 11163	10217,	10668,	11037,	
Vexa	10009,	10037			
Victor		10053,	10036,	10650,	
Videocon	10653 10508				
Videologic	10218				
Videologique	10217,	10218			
Videomac	10009	10210			
VideoSystem	10037				
Videotechnic	10217,	10374			
Videoton	10163				
Vidikron	10054				
Vidtech	10178,	10036			Y
Viewpia	10876				•
Viewsonic				11330,	
		11627,	11755		
Viking	10060				
Viore	11207	10017	10004		
Vision		10217,	10264	11756	
Vizio	11758	10003,	11/JJ,	11730,	
Vortec	10037				
Voxson			10163,		
Waltham				10418,	
		10668, 10054.		10154,	z
	10000	10156	10051	10093	-
Wards	10236, 10030.	10180,	11347.	10178, 11156,	
	11147,	10866,	10195,	10001,	
Warumaia	10037, 10374,				
	10009.	10037.	10163.	10218,	
Watson	10394,	10668,	10714,	11037	_
Watt Radio	10163				T
Waycon	10156				*2
Wega	10036,	10037			Â
Wegavox	10009				
Weipai	10009				
Welltech	10714				
Weltblick	10217				
Welton	10178				
Weltstar	11037	10/51	10005	10000	
Westinghouse	11282,	11577	10003,	10889,	
Wharfedale	10037,	10556,	10860,	11556	В
White	10451,	10236,	10463,	10037,	
Westinghouse Windsor	10623,	10889,	11909		C
Windy Sam	10556	. 1007			_
Wintel	10714				D
World		10236	10463,	10180	
-	,				

World-of-Vision	10865, 10877, 10880, 11217, 11298
Worldview	10455
X-View	11191
Xenius	10634, 10661
Xiahua	10009, 10264, 10698, 10773, 10817
Xianghai	10009
Xiangyang	10264
Xiangyu	10009
Xihu	10264, 10817
Xingfu	10009
Xinghai	10264
XLogic	10698, 10860
Хосесо	11064
Xoro	11196, 11217
XR-1000	10154, 10180, 10171
Xrypton	10037
Yamaha	10030, 10650, 11576
Yamishi	10037, 10217, 10218, 10455
Yapshe	10250
Yingge	10009
Yokan	10037
Yoko	10009, 10037, 10217, 10218, 10264, 10370
Yonggu	10009
Yorx	10030, 10218
Youlanasi	10817
Yousida	10009
Yuhang	10009
Zanussi	10163, 10217, 10264
Zenith	10047, 10017, 10000, 10093, 10463, 11265, 10812, 10178, 10030, 11145, 10145, 10171, 10092, 10037, 11904, 11909, 11911
ZhuHai	10009, 10374

T\	//DVD Combi	nation %2, %4
<b>%</b> 2		
A	Advent	11933
	Akai	11675
	Akura	11982
	Alba	11037
	Amstrad	11982
	Apex Digital	11943
	Audiovox	11937, 11951, 11952
	Axion	11937, 11958
B	Black Diamond	11037
	Bush	10698, 11037, 11900
<b>C</b>	Centrum	11037
	Crown	11037
D	D-Vision	11982
	Denver	10587

E	Elfunk	11037	
F	Ferguson	11037	E
	Finlux	11556	
G	Goodmans	10587, 11037, 11900	
Н	Hitachi	11960	F
J	JDV	11982	
	Jensen	11933	G
K	KLH	11962	
L	Lenco	10587	
	Logik	11037	H
	Luker	11982	- 1
	Luxor	11037	J
Μ	Matsui	11037	
	Maxim	11982	K
	Medion	11900	L
	Mirror	11900	
Ν	Naiko	11982	
	Narita	11982	Μ
Ρ	Panasonic	11941	
	Philips	11454, 10556, 11961	
	Powerpoint	10698	Ν
	Prima	11933	
R	RCA	11948, 11958	
	Roadstar	11900	0
S	Saivod	11982	Ρ
	Samsung	11903	
	Schneider	11982	
	SEG	11037	R
	Sova	11952	S
	Stevison	11982	
	Sylvania	10171	
Т	Teac	10698	
	Technica	11982	
	Telefunken	10698	
	Thomson	10625	
	Transonic	10587	
U	United	10587, 11037, 11982	Т
V	Vestel	11037	
<b>※</b> 4			
Â	Akai	30695	U
~	Akura	31367	
	Alba	30695, 30884	V
	Amstrad	31367	
	Apex Digital	30830	Т
В	Black Diamond	30713, 30884	
	Broksonic	30695	*
	Bush	30713, 30884	Α
C	Centrum	30713	
U	Citizen	30695	
	Crown	30713	Р
D	D-Vision	31367	В
0	2 10001	5.507	

	DMTech	31271	
E	Elfunk	30713, 30884	
- 1	Emerson	30675, 31268	C
	ESA	31268	Ď
F	Ferguson	30695, 30713, 30884	E
-	Funai	31268	Ē
G	Goodmans	30713	
-	Grandin	30713	
	Grundia	30539, 30695	G
н	Hitachi	31247	u
- ï I	Insignia	31268	
Ĵ	JDV	31367	
Ũ	JNC	31271	
К	Konka	31192	H
Ê	Logik	30713, 30884	
_	Luker	31367	
	Luxor	30713	
м	Magnavox	31268	J
	Matsui	30713, 30884	_ L _
	Maxim	31367	
N	Naiko	31367	M
	Narita	31367	
	Neovia	31271	
0	Orion	30695	0
P	Pacific	30695	P
	Panasonic	31490	
	Philips	30539, 30854, 31260	
R	RCA	31022	
S	Saivod	31367	0
Ŭ	Samsung	30899	R
	Sansui	30695	
	Schneider	31367	
	SEG	30713, 30884	S
	Sliding	31115	
	Stevison	31367	
	Sylvania	30630, 30675, 31268	
T	Technica	31367	
	Thomson	30551	
	Toshiba	30695	
ิป	United	30713, 30884, 31367	
Ŭ	Universum	30713	
v	Vestel	30884	
•			т.Т
_		ination %2, %3, %4	
<b>※</b> 2			
A	Aiwa	11904, 11911	
	America Action	10180	W
	Amstrad	10171	
-	Audiovox	10180	Z
B	Beko	10486	<b>%</b> 3
	Black Diamond	11909	Α

	Broksonic	10463, 11911
	Bush	11556
C	Curtis Mathes	10051
D	Daewoo	11909
E	Emerson	10236, 10463, 11909, 11911
F	Ferguson	10073, 10625
	Fidelity	10171
	Funai	11904
G	GE	10047, 10051, 10093, 11917, 11922
	GoldStar	10037
	Goodmans	10374, 11909
	Grundig	10037, 10195, 10556
Н	Harley Davidson	11904
	Hinari	10036
	Hitachi	11904
1	Internal	11909
Ĵ	JVC	11923
ĭ	LG	10178
-	Lloyd's	11904
Μ	Magnavox	10054, 11904
	Memorex	10250
	Mitsubishi	10093, 10556, 11917
0	Orion	10463, 11911
P	Palsonic	11904
· •	Panasonic	10250, 10051
	Pennev	10051
	Philips	10037, 10556
0	Quasar	10250, 10051
R	Radiola	10556
	RadioShack	11904
	RCA	10047, 10051, 10093, 11917,
•		11922
S	Saba	10625
	Samsung	11959
	Sansui	10463, 11904, 11911
	Schneider	10037, 10556, 11904
	Sears	11904
	Sharp	10093, 11917
	Siemens	10037
	Sony	10000, 11505, 11904 10054
	Sylvania Symphonic	11904
Т	Teac	10178, 10171
· •	Technics	10556
	Thomas	11904
	Thomson	10625
	Toshiba	11971
14/	White	
W	Westinghouse	11909
Ζ	Zenith	11904, 11909, 11911
<b>%</b> 3	3	
Α	Aiwa	20000, 20352, 20479, 20742,
	-	21137

	Akai	20352	
	Alba	20352	
	America Action	20278	
	Amstrad	20000	
	Audiovox	20278	
B	Beko	20104	0
	Bestar	20278	Q
	Blue Sky	20278, 20352, 20742	R
	BPL	20046	
	Broksonic	20002, 20479, 21479	
•	Bush	20352, 20742	S
C	Citizen	20278, 21278	
	Curtis Mathes	20035, 21035	
D	Daewoo	20278, 20637, 21278	
_	Dantax	20352 20002, 20278, 20479, 20637,	
E	Emerson	21278, 21479	
F	Ferguson	20000, 20278	
	Fidelity	20000	
	Firstline	20278	
	Funai	20000	
G	GE	20060, 20035, 20048, 20240,	
Ŭ.,	GoldStar	20807, 21035, 21060 20037, 20480, 21237	
	Goodmans	20278, 20352, 20637	
	Grandin	20278, 20742	
	Grundig	20081, 20347, 20352, 20742	
н	Hanimex	20352	_
	Harley Davidson	20000	T
	Hinari	20352	
	Hitachi	20000	
	Hypson	20037	
11	Internal	20278, 20637	
Ĵ	JBL	20278	
-	JMB	20352	
K	Kambrook	20037	
	Kneissel	20278, 20352	U
L	LG	20037, 20480, 21237	W
	Lloyd's	20000	Z
	Loewe	20037	<b>※</b> 4
Μ	Magnasonic	20278, 21278	T
	Magnavox	20081, 20000, 21781	•
	Magnin	20240	T
	Matsui	20352, 20742	
	Medion	20352	
	Memorex	20162, 20037, 21162, 21237, 21262	<b>%</b> 2
	MGA	20240	A
	Mitsubishi	20048, 20081, 20043, 20807	B
0	Optimus	20162, 21162, 21262	E
Ĩ		20002, 20352, 20479, 20742,	84
_	Orion	21479	M
			Р
P	Pace Pacific	20352 20742	R

Palsonic	20000
Panasonic	20035, 20162, 21035, 21162, 21262
Penney	20035, 20037, 20240, 21035, 21237
Philips	20081
Portland	20637
Quasar	20035, 20162, 21035, 21162
Radiola	20081
RadioShack	20000
RCA	20060, 20035, 20048, 20240, 20807, 21035, 21060
Saba	20320
Samsung	20240, 20432, 21014
Sansui	20000, 20479, 21479
Sanyo	20240
Saville	20352
Schneider	20081, 20000
Sears	20037, 20000, 21237
SEG	20637
Sharp	20037, 20048, 20807
Shivaki	20037
Siemens	20081
Sinudyne	20352
Sony	20032, 20000, 21232
Supra	20348
Sylvania	20081, 21781
Symphonic	20000
Tatung	20352
Teac	20037, 20000, 20637, 20642
Technics	20081
Technosonic	20352
Telefunken	20278
Thomas	20000
Thomson	20278
Toshiba	20352, 20432, 20845, 21145
United White	20742
Westinghouse	20278, 20637
Zenith	20000, 20479, 20637, 21479
1	
4 Thomson	30551
110113011	
V/VCR/DVD C	ombination

	IV/VGN/DVD GUIIIDIIIaliuii				
		<b>*</b> 2, <b>*</b> 3, <b>*</b> 4			
<b>%</b> 2	2				
Α	Akai	11903			
В	Broksonic	11938			
Е	Emerson	11944			
	ESA	11944			
Μ	Magnavox	11944			
Ρ	Panasonic	11946, 11947			
R	RCA	11953			

<b>%</b> 3 <b>S</b>	}	
5	01	00007
	Sharp	20807
₩4 <b>A</b>	Akai	30899
F	Emerson	30821
5		
	ESA	30821
M	Magnavox	30821
P		31362, 31462
R	RCA	31132
S	Sharp	30630
	Superscan	30821
	Sylvania	30821
	Symphonic	30821
T	Toshiba	31045
V	CR	
Α	A-Mark	20037, 20240, 20000, 20278, 20046
	ABS	21972
		20060, 20048, 20039, 20047,
	Admiral	20104, 20121, 20209, 20479
	Adventura	20037, 20240, 20000
	Aiko	20278
	Aim	20278, 20348, 20642
	Aiwa	20037, 20032, 20000, 20209, 20041, 20348, 20352, 20479, 20742, 21137
	Akai	20037, 20240, 20041, 20106, 20315, 20348, 20352, 20642
	Akura	20041
	Alba	20081, 20000, 20209, 20278, 20315, 20348, 20352
	Alienware	21972
	Allegro	20039, 21137
	Allorgan	20240
	Allstar	20081
	America Action	20278
	American High	20035, 20081
	Amoisonic	20479
	Amstrad	20000, 20278
	Anam	20162, 20037, 20240, 20278, 20226, 20480
	Anam National	20162, 20226, 21162, 21562
	Ansonic	20000
	Aristona	20081
	ASA	20037, 20081
	Asha	20240
		20025 20240
	Astra	20035, 20240

11917

11944

11944 11945

S Sharp

Sylvania

Symphonic Toshiba

	Audiolab	20081
	Audiosonic	20278
	Audiovox	20037, 20278, 20038
	Avis	20000
	AVP	20000, 20352
	Awa	20037, 20043, 20278, 20642
В	Baird	20000, 20104, 20041, 20278
	Basic Line	20046, 20106 20104, 20278, 20046
	Beaumark	20240
	Beko	20104
		20035, 20048, 20039, 20000
	Bell & Howell	20104, 20046, 20479
	Bestar	20278
	Black Diamond	20642
	Black Panther	20278
	Blaupunkt	20162, 20081, 20226
	Blue Sky	20037, 20209, 20278, 20348 20352, 20480, 20642, 20742
	,	21137
	BPL	20046
	Brandt	20041, 20320
	Brandt Electronique	20041
	Brinkmann	20209, 20348
	Broksonic	20184, 20121, 20209, 20002 20348, 20479, 21479
		20081, 20000, 20209, 20278
	Bush	20315, 20348, 20352, 20642 20742
C	Calix	20037
	Candle	20037, 20038
	Canon	20035
	Capehart	20002
	Carena	20081, 20209
	Carrefour	20045
	Carrera	20240
	Carver	20035, 20081
		20030, 20061
	Casio	20000
	Cathay	
	Cathay CCE	20000 20278 20278
	Cathay CCE CGE	20000 20278 20278 20000, 20041
	Cathay CCE CGE Changhong	20000 20278 20278 20000, 20041 20048, 20081
	Cathay CCE CGE Changhong Cimline	20000 20278 20278 20000, 20041 20048, 20081 20209
	Cathay CCE CGE Changhong Cimline Cineral	20000 20278 20278 20000, 20041 20048, 20081 20209 20278
	Cathay CCE CGE Changhong Cimline	20000 20278 20278 20000, 20041 20048, 20081 20209 20278 21137
	Cathay CCE CGE Changhong Cimline Cineral	20000 20278 20278 20000, 20041 20048, 20081 20209 20278
	Cathay CCE CGE Changhong Cimline Cineral CineVision	20000 20278 20278 20000, 20041 20048, 20081 20209 20278 21137 20035, 20037, 20240, 20000
	Cathay CCE CGE Changhong Cimline Cineral CineVision Citizen	20000 20278 20278 20000, 20041 20048, 20081 20209 20278 21137 20035, 20037, 20240, 20000 20209, 20278, 20479, 21278
	Cathay CCE CGE Changhong Cimline Cineral CineVision Citizen Classic	20000 20278 20278 20000, 20041 20048, 20081 20209 20278 20137 20035, 20037, 20240, 20000 20209, 20278, 20479, 21278 20037
	Cathay CCE CGE Changhong Cimline Cineral CineVision Citizen Classic Clatronic	20000 20278 20278 20000, 20041 20048, 20081 20209 20278 20137 20035, 20037, 20240, 20000 20209, 20278, 20479, 21278 20037 20000, 21593
	Cathay CCE CGE Changhong Cimline Cineral CineVision Citizen Classic Clatronic Colortyme	20000 20278 20278 20000, 20041 20048, 20081 20209 20278 21137 20035, 20037, 20240, 20000 20209, 20278, 20479, 21278 20037 20000, 21593 20060, 20035, 20045, 20278
	Cathay CCE CGE Changhong Cimline Cinevision CineVision Citizen Classic Clatronic Colortyme Colt	20000 20278 20278 20000, 20041 20048, 20081 20209 20278 21137 20035, 20037, 20240, 20000 20209, 20278, 20479, 21278 20037 20000, 21593 20060, 20035, 20045, 20278 20000
	Cathay CCE CGE Changhong Cimline Cinevision CineVision Citizen Clatsoic Clatsoic Clatronic Colortyme Colt Combitech Condor Craig	20000 20278 20278 20000, 20041 20048, 20081 20209 20278 20178 20035, 20037, 20240, 20000 20209, 20278, 20479, 21278 20037 20000, 21593 20060, 20035, 20045, 20278 20000 20352 20278 20037, 20047, 20240
	Cathay CCE CGE Changhong Cimline Cinevision CineVision Citizen Clatsoic Clatsoic Colortyme Colt Combitech Condor	20000 20278 20278 20000, 20041 20048, 20081 20209 20278 21137 20035, 20037, 20240, 20000 20209, 20278, 20479, 21278 20037 20000, 21593 20060, 20035, 20045, 20278 20000 20352 20278

D

E

F

Crosley 2	20035, 20081, 20000
Crown 2	20037, 20278, 20480
Curtis Mathes 2	20060, 20035, 20162, 20240, 20000, 20041, 20278, 20432, 21035
Cybernex 2	20240
CyberPower 2	21972
Cyrus 2	20081
	20037, 20045, 20104, 20209, 20278, 20046, 20352, 20637, 20642, 21137, 21278
Dansai 2	20278
Dantax 2	20352
,	20037, 20278
	20048, 20081, 20042, 20104, 20046
	20081, 20000, 20067, 20209, 20041, 20352
Degraff 2	20048, 20081, 20042, 20104
Deitron 2	20278
Dell 2	21972
Denon 2	20081, 20042
Derwent 2	20041
Diamant 2	20037
Diamond 2	20348
Digitor 2	20642
DirecTV 2	20739
Domland 2	20209
DSE 2	20642
	20081, 20000, 20041, 20278, 20348
Dumont 2	20081, 20000, 20104
Durabrand 2	20039, 20038, 20642
Dynatech 2	20240, 20000
	20278, 20038
	20060, 20037, 20240, 20000, 20043, 20209
	20037
Elin 2	20240
	20278
Emerald 2	20184, 20121
	20032
Emerson	20035, 20037, 20184, 20039, 20240, 20045, 20000, 20121, 20043, 20209, 20002, 20278, 20348, 20479, 20637, 21278, 21479, 21593
ESA 2	21137
ESC 2	20240, 20278
EuroLine 2	21593
	20000, 20041, 20278, 20320, 20348
Fidelity 2	20240, 20000, 20352, 20432
2	
	20037, 20048, 20081, 20000, 20042, 20104, 20043, 20046, 20106, 20226

	Firstline	20037, 20045, 20042, 20043, 20209, 20278, 20348, 20480, 21137
	Fisher	20039, 20047, 20000, 20104, 20046
	Flint	20209, 20348
	Fuji	20035, 20033
	Fujitsu	20037, 20045, 20000
	Fujitsu General	20037
	Funai	20037, 20000, 20278, 21593
6	Galaxi	20000
	Galaxis	20278
	Garrard	20000
	Gateway	21972
	GE	20060, 20035, 20048, 20240, 20000, 20226, 20320, 20807, 21035, 21060
	GEC	20081
	Gemini	20060
	General	20045
	General Technic	20348
	Genexxa	20037, 20000, 20104, 20278
	Go Video	20240, 20432, 20614, 21137
	GoldStar	20035, 20037, 20039, 20000, 20209, 20278, 20038, 20225, 20226, 20480, 21137, 21237
	Goodmans	20037, 20081, 20240, 20000, 20209, 20278, 20348, 20352, 20637, 20642, 20742
	GPX	20037
	Gradiente	20000
	Graetz	20240, 20104, 20041
	Granada	20035, 20037, 20048, 20081, 20240, 20000, 20042, 20104, 20046, 20226
	Grandin	20037, 20000, 20209, 20278, 20742
	Grundig	20081, 20226, 20320, 20347, 20348, 20352, 20742
	Haaz	20348
	Hanimex	20352
	Hanseatic	20037, 20081, 20209, 20038
	Haojie	20240
	Harley Davidson	20000
	Harman/Kardon	20081, 20038
	Headquarter	20046
	Hewlett Packard	21972
	HI-Q	20035, 20047, 20000
	Hinari	20240, 20209, 20041, 20278, 20352
	Hisawa	20209, 2035
	Hischito	20045
	Hitachi	20035, 20037, 20081, 20240, 20045, 20000, 20042, 20041, 20046, 20089
	Hoeher	20278, 20642
	Hornyphon	20081
	Howard Computers	21972
	HP	21972

Hughes Network Systems	20042, 20739
Humax	20739
Hush	21972
Hypson	20037, 20000, 20209, 20278, 20352, 20480
Hytek	20047, 20000
ibuypower	21972
Imperial	20000
Ingersol	20240, 20209
Interbuy	20037
Interfunk	20081, 20104
Internal	20278, 20637
International	20037, 20278, 20642
Intervision	20037, 20000, 20209, 20278, 20348
Irradio	20037, 20081, 21137
ITT	20240, 20104, 20041, 20046, 20106
ITT Nokia	20240, 20104, 20041, 20106
ITV	20037, 20278
Janeil	20240
JBL	20278
Jensen	20067, 20041
JMB	20209, 20348, 20352, 20742
Joyce	20000
JVC Kambrook	20184, 20081, 20045, 20067, 20041, 21162 20037
Karcher	20037 20081, 20278, 20642
KEC	20037, 20278
	20037, 20209, 20278, 20106,
Kendo	20315, 20348, 20642
Kenwood	20067, 20041, 20038, 20046
KIC	20000
Kimari	20047
Kneissel	20037, 20209, 20278, 20348, 20352
Kodak	20035, 20037
Kolin	20043, 20041
Kolster	20209
KTV	20000
Kuba	20047
Kuba Electronic	20047
Lenco	20278
LG	20037, 20240, 20045, 20000, 20042, 20209, 20278, 20038, 20225, 20480, 21137, 21237
Lifetec	20209, 20348
Linksys	21972
Lloyd's	20240, 20000, 20038
Loewe	21062, 20162, 20037, 20081, 21262, 21562
Logik	20240, 20000, 20209, 20106
Logik	
Lumatron	20278, 21137

	Luxor	20048, 20047, 20104, 20043, 20046, 20106, 20315
	LXI	20037, 20000, 20042, 20067
Μ	M Electronic	20037, 20240, 20000, 20038
	Magnadyne	20081
	Magnasonic	20037, 20240, 20000, 20278, 21278
	Magnavox	20035, 20037, 20048, 20039, 20081, 20240, 20000, 20226, 20618, 20642, 21593, 21781
	Magnin	20240
	Magnum	20642
	Manesth	20081, 20045, 20209
	Marantz	20035, 20081, 20209, 20038
	Mark	20000, 20278
	Marta	20037
	Mastec	20642
	Master's	20278
	Matsui	20037, 20240, 20209, 20278, 20348, 20352, 20742
	Matsushita	20035, 20162, 20081, 20226, 21162
	Media Center PC	21972
	Mediator	20081
	Medion	20209, 20348, 20352, 20642
	MEI	20035
	Memorex	20035, 20162, 20037, 20048, 20039, 20047, 20240, 20000, 20104, 20209, 20278, 20046, 20348, 20479, 21162, 21237, 21262
	Metronic	20081
	Metz	21062, 20162, 20037, 20081, 20226, 20347, 20836, 21162, 21262, 21562
	MGA	20060, 20240, 20043
	MGN Technology	20240
	Micormay	20348
	Micromaxx	20209
	Microsoft	21972
	Midland	20240
	Migros	20000
	Mind	21972
	Minolta	20042
	Mitsubishi	20060, 20048, 20047, 20081, 20000, 20042, 20067, 20043, 20041, 20480, 20642, 20807
	Motorola	20035, 20048
	MTC	20240, 20000
	MTX	20000
	Multitec	20037
	Multitech	20039, 20000
	Murphy	20000
	Myryad	20081
Ν	NAD	20240, 20104
	Naiko	20348, 20642
	NAP	20039
	National	20226

Nebula Electronics	20033
NEC	20035, 20037, 20048, 20104, 20067, 20041, 20278, 20038, 21137
Neckermann	20081, 20041
Nesco	20000
Neufunk	20209
Newave	20037
Nikkai	20278
Nikko	20037, 20278
Nikkodo	20037, 20278
Nishi	20240
Niveus Media	21972
Noblex	20240
Nokia	20048, 20081, 20240, 20042, 20104, 20041, 20278, 20046, 20106, 20315
Nordmende	20067, 20041, 20320
Northgate	21972
Nu-Tec	20209
Oceanic	20048, 20081, 20000, 20104, 20041, 20046, 20106
Okano	20209, 20278, 20315, 20348
Olympus	20035, 20162, 20104, 20226
Onimax	20642
Onkyo	20222
Optimus	21062, 20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20432, 21162, 21262
Orion	20184, 20240, 20000, 20104, 20121, 20209, 20002, 20278, 20348, 20352, 20479, 20742, 21479
Orson	20000
Osaki	20037, 20000
Otake	20209
Otto Versand	20081
Pace	20352
Pacific	20000, 20348, 20642, 20742
Packard Bell	21972
Palladium	20037, 20209, 20041, 20348
Palsonic	20000, 20642
Panama	20035
Panasonic	21062, 20035, 20162, 20000, 20225, 20226, 20614, 20616, 20836, 21035, 21162, 21262, 21562
Pathe Cinema	20043
Pathe Marconi	20041
Penney	20035, 20162, 20037, 20047, 20081, 20240, 20000, 20042, 20067, 20038, 21035, 21237
Pentax	20042
Perdio	20000, 20209
Philco	20035, 20081, 20000, 20209, 20038, 20226, 20479

0

Ρ

	Philips	20035, 20162, 20048, 20081, 20045, 20000, 20209, 20226, 20616, 20618, 20739, 21081, 21181
	Phoenix	20278
	Phonola	20081
	Pilot	20037
	Pioneer	20162, 20081, 20042, 20067
	Polk Audio	20081
	Portland	20278, 20637
	Presidian	21593
	Prinz	20000
	Profitronic	20081, 20240
	Proline	20000, 20278, 20320, 20642
	Proscan	20060, 21060
	Prosco	20278
	Prosonic	20209, 20278
	Protec	20000
	Protech	20081
	ProVision	20278
	Pulsar	20039, 20240, 20278
	Pulser	20240
	Pye	20081, 20000
0	Qisheng	20060
	Quarter	20046
	Quartz	20035, 20047, 20046
	Quasar	20035, 20162, 20002, 20278, 20226, 21035, 21162
	Quelle	20081
2	Radialva	20037, 20048, 20081
	Radiola	20081
	Radionette	20037, 21137
	RadioShack	20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20046, 21162
	Radix	20037
	Randex	20037
	Rank	20041
	Rank Arena	20041
	RCA	20060, 20035, 20048, 20240, 20045, 20000, 20042, 20106, 20226, 20320, 20807, 20880, 21035, 21060
	Realistic	20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20121, 20278, 20046, 21162
-	Reoc	20348
	ReplayTV	20614, 20616
	Rex	20041
	Ricavision	21972
	Rio	21137
	Roadstar	20037, 20081, 20240, 20278, 20038, 20742
	Runco	20039
5	Saba	20041, 20278, 20320
	Saisho	20209, 20348
	Salora	20104, 20043, 20046, 20106

Sampo	20037, 20048
-	20060, 20240, 20045, 20000,
Samsung	20038, 20432, 20739, 21014
Samtron	20240
Sanky	20048, 20039
Sansei	20048
Sansui	20240, 20000, 20067, 20209, 20041, 20002, 20106, 20348, 20479, 21479
Sanyo	20048, 20047, 20240, 20000, 20104, 20067, 20209, 20046, 20348, 20479, 21137
Saville	20240, 20278, 20352
SBR	20081
ScanSonic	20240
Schaub Lorenz	20000, 20104, 20041, 20106, 20315, 20348
Schneider	20037, 20081, 20240, 20000, 20042, 20278, 20348, 20352, 20642, 21137
Scott	20184, 20045, 20121, 20043
Sears	20060, 20035, 20162, 20037, 20048, 20039, 20047, 20033, 20045, 20000, 20042, 20104, 20067, 20043, 20209, 20041, 21237, 20046
Seaway	20278
SEG	20081, 20240, 20278, 20637, 20642
SEI	20081
Sei-Sinudyne	20081
Seleco	20037, 20041
Semp	20045
Sentra	20278
Sharp	20037, 20048, 20047, 20032, 20000, 20209, 20807
Shinco	20000
Shintom	20039, 20240, 20000, 20104
Shivaki	20037
Shogun	20240
Siemens Siera	20037, 20081, 20104, 20046, 20320, 20347 20081
	20060, 20035, 20037, 20048,
Signature Silva	20000, 20046, 20479 20037
Silver	20278
SilverCrest	20642
Singer	20037, 20240, 20045, 20348
Sinudyne	20081, 20209, 20352
Smaragd	20348
Sonic Blue	20614, 20616, 21137
Sonographe	20046
Sonolor	20048, 20046
Sontec	20037, 20278
Sonwa	20642
Sony	20035, 20048, 20047, 20032, 20033, 20000, 20067, 20046, 20106, 20226, 20636, 21232, 21972

Soundmaster	20000
Soundwave	20037, 20209, 20348
Stack 9	21972
Standard	20278
Stern	20278
STS	20042
Sunkai	20209, 20278, 20348
Sunstar	20000
Suntronic	20000
Supra	20037, 20278, 20348
Susumu	20037
SV2000	20000
SVA	20000
Sylvania	20035, 20081, 20000, 20043, 21593, 21781
Symphonic	20240, 20000, 20002, 21593
Systemax	21972
T+A	20162
Tagar Systems	21972
Taisho	20209
Tandberg	20278
Tandy	20000, 20104
Tashiko	20037, 20048, 20081, 20240, 20000
Tatung	20048, 20081, 20045, 20000, 20067, 20043, 20209, 20041, 20348, 20352
Tchibo	20348
TCM	20348
Теас	20037, 20000, 20067, 20041, 20278, 20637, 20642, 21593
Technics	20035, 20162, 20037, 20081, 20000, 20226, 21162
TechniSat	20348
Technosonic	20352
Тесо	20035, 20037, 20048, 20041, 20038
Tedelex	20037, 20209, 20348, 20642
Teknika	20035, 20037, 20000
Teleavia	20041
Telecorder	20240
Telefunken	20209, 20041, 20278, 20320, 20642
Telerent	20226
Telestar	20037
Teletech	20000, 20278
Tensai	20037, 20000, 20278
Tevion	20209, 20348, 20479, 20642
Texet	20278
Thomas	20000, 20002
Thomson	20060, 20067, 20041, 20278, 20320
Thorn	20037, 20104, 20041, 20320
Tisonic	20278
Tivo	20618, 20636, 20739, 21996
TMK	20240, 20000

0 1 1

	TNIX	20037
	Tocom	20240
	Tokai	20037, 20104, 20041
	Topline	20348
	Toshiba	20081, 20240, 20045, 20000, 20042, 20067, 20043, 20209, 20041, 20352, 20432, 20742, 20845, 21008, 21145, 21972, 21996
	Tosonic	20278
	Totevision	20037, 20240
	Touch	21972
	Toyoda	20278
	Tradex	20081
	Triad	20278
	Trix	20037
U	Uher	20240
	Ultra	20045, 20278
	Ultravox	20278
	Unitech	20240
	United	20348, 20742, 21593
	Universum	20037, 20081, 20240, 20000, 20104, 20209, 20106, 20348, 21137
V	Vector	20045
	Vector Research	20184, 20038
	Victor	20067, 20041
	Video Concepts	20045
	Video Technic	20000
	Videomagic	20037
	Videosonic	20240, 20000
	Viewsonic	21972
	Villain	20000
	Voodoo	21972
w	Wards	20060, 20035, 20037, 20048, 20039, 20047, 20081, 20033, 20240, 20045, 20000, 20042, 20043, 20041, 20038, 20046, 20479
	Watson	20081, 20352, 20642
	Weltblick	20037
	Wharfedale	20642
	White Westinghouse World	20000, 20209, 20278, 20479, 20637 20209, 20002, 20348, 20479
X	XR-1000	20035, 20240, 20000
Ŷ	Yamaha	20033, 20240, 20000
T	Yamishi	20278
	Yoko	20037, 20240
	TUKU	20037, 20240
Z	Zenith	20209, 20041, 20278, 20479, 20637, 21137, 21479
	ZT Group	21972
	ZX	20209, 20348, 20352

P	VR *3	
Α	ABS	21972
	Alienware	21972
C	CyberPower	21972
Ď	Dell	21972
_	DirecTV	20739
G	Gateway	21972
-	Go Video	20614
H	Hewlett Packard	21972
	Howard Computers	21972
	HP	21972
	Hughes Network Systems	20739
	Humax	20739
	Hush	21972
L	iBUYPOWER	21972
L	Linksys	21972
Μ	Media Center PC	21972
	Microsoft	21972
	Mind	21972
Ν	Niveus Media	21972
	Northgate	21972
Ρ	Panasonic	20614, 20616
	Philips	20618, 20739
R	RCA	20880
	ReplayTV	20614, 20616
S	Samsung	20739
	Sonic Blue	20614, 20616
	Sony	20636, 21972
	Stack 9	21972
	Systemax	21972
T	Tagar Systems	21972
	Tivo	20618, 20636, 20739
	Toshiba	21008, 21972, 21996
	Touch	21972
V	Viewsonic	21972
	Voodoo	21972
Ζ	ZT Group	21972
D	VD Player	
1	3D LAB	30503, 30539
	4Kus	31158
Δ	A-Trend	30714
	Acoustic Solutions	30713, 30730, 31228
	AEG	30770, 30788, 30790, 31923
	AFK	31051, 31152, 31923
	Aim	30672, 30699, 30833
	Airis	30672, 31005, 31224, 31250,
		31321, 31345
	Aires	20522 20641

Aiwa

30533, 30641

Akai	30690, 30695, 307 30788, 30790, 308 30899, 31115, 312 31695	05, 30770, 84, 30898, 05, 31233,
Akashi	30838	
AKI	31005	
Akira	30699, 31321	
Akura	30898, 31051, 311 31367	
Alba	30672, 30539, 307 30699, 30713, 307 30884, 31140, 315	17, 30695, 30, 30783, 30, 31695
Alco	30790	
Alize	31151	
All-Tel	31451	
Allegro	30869	
Altacom	31224	
Amitech	30784, 30770, 308	50
Amoi	30852	
Amphion Media Works	30872	
Amstrad	30713, 30770, 311	51, 31367
AMW	30872	
Anam	31913	
Ansonic	30759, 30774, 308	31
Apex Digital	30533, 30672, 307 30794, 30796, 307 31004, 31020, 310	97, 30830,
Aristona	30539, 30646	,
Arrgo	31023	
ASCOMTEC	31923	
Asono	31224	
Aspire Digital	31168	
Atacom	31224	
Audiosonic	30690, 31923	
Audiovox	30717, 30790	
Audioworld	30790	
Autovox	30713	
Auvio	30843	
Awa	30730, 30872	
Axion	30730	
Base	31451	
Basic Line	30713	
Baze	30898	
BBK	30862, 31224	
Beep	31163	
Bellagio	31004	
Belson	31086, 31923	
Binatone	31923	
Black Diamond	31323 30713, 30833, 308	84
Blaupunkt	30713, 30633, 306 30717	04
Blu:sens Blue Nova	31233, 31321	
International	31321	
Blue Parade	30571	

В

Blue Sky	30672, 30651, 30695, 30699, 30713, 30790, 30843, 31423	Da
Boghe	31004	De
Boman	30783, 30898, 31005	Da
Bose	32023	Da
Brainwave	30770, 31115	Da
Brandt	30503, 30651, 30551	Da
Broksonic	30695	Da
Bush	30672, 30717, 30690, 30699, 30713, 30723, 30730, 30831, 30833, 30884, 31051, 31140, 31483, 31695, 31832	DC De De
Byd:sign	30872	De
C-Tech	30798, 31152	
California Audio Labs	30490	De
Cambridge Audio	30751, 31109	De
Cambridge Soundworks	30690	Dg Dia
Campomatic Digital	31051	Dig
Cat	30699, 30789, 31421, 31923	Dig
CCE	30730	dig
Celestial	31020	Dig
cello	31730	
Centrex	30672, 31004	Dię
Centrum	30713, 30789, 31005, 31227, 31923	Dię Dił
CGV	30751, 31115	Dir
Changhong	30627, 31061	Dis
Cinea	30831, 30841	Di
Cinetec	30713, 30872	DK
cineULTRA	30699	DN
CineVision	30833, 30869, 31483	Dra
Citizen	30695	Dre
Clairtone	30571	DS
Classic	30730, 31730	
Clatronic	30672, 30675, 30788, 31233	Du
Clayton	30713	Du
Coby	30730, 30852, 31086, 31321, 31923	DV
Codex	31233	DV
Commax	31321 <b>E</b>	E:r
Conia	30672, 30852, 31321	Ea
Contel	30788	eВ
Continental Edison	30831, 30872	EC
Craig	30831	Ecl
Creative	30503, 30539	Elf
Crown	30690, 30713, 30770, 31115	Eli
Crypto	31228	Eli
Curtis Mathes	31087	EII
Cybercom	30831	E1+
CyberHome	30714, 30816, 30874, 31023, 31024, 31117, 31129, 31502	Elt
Cytron	30651, 30705, 30774, 31347	Elt
D-Vision	31115, 31367	Em
Daenyx	30872	En

Daewoo	30490, 30784, 30705, 30714, 30770, 30833, 30869, 30872, 31172, 31483, 31906
Dalton	31036
Dansai	30770, 30783, 31115, 31695
Dantax	30539, 30713, 30723, 30790
Daytek	30872, 31005
Dayton	30872
DCE	30831
Decca	30770, 31115
Denon	30490, 30634, 31634, [ <b>32134]</b> *
Denver	30672, 30699, 30788, 30898, 31056, 31104, 31321, 31923
Denzel	30665
Desay	30843, 31212
Dgtec	30672
Diamond	30651, 30751, 30768, 30790
Digihome	30713
DigiLogic	30713
digiRED	30717
Digitech	31832
Digitor	30651, 30690, 30833, 31005, 31423
Digitrex	30672, 31004, 31056
DiK	30831
Dinamic	30788
Disney	30675, 30831, 31270
DiViDo	30705
DK Digital	30831
DMTech	30783, 31271
Dragon	30831
DreamX	31151
DSE	30833, 31152, 31730
Dual	30651, 30665, 30675, 30713, 30730, 30783, 30790, 30831, 31023
Durabrand	30713, 30831, 31023, 31502
DVD2000	30521
DVX	30768
E:max	31233, 31321
EagleTec	30714
eBench	31152
ECC	30730
Eclipse	30723, 30751
Elfunk	30713, 30850, 30884
Elin	30770
Elite	31152
Ellion	30850, 31421
Elta	30630, 31421 30672, 30690, 30770, 30788, 30850, 31051, 31115, 31151, 31233
Eltax	31233, 31321
Emerson	30591, 30675, 30705, 30821, 31268
	30591

	Entivo	30503, 30539
	Enzer	30784, 30770, 31228
	ESA	30821, 31268
	EuroLine	30675, 30788, 31115, 31233
F	Fenner	30651
	Ferguson	30651, 30695, 30713, 30884, 30898, 31695, 31730
	Finlux	30672, 30591, 30741, 30751, 30770, 30783
	Firstline	30651, 30713, 30843, 30869, 31530
	Fisher	30670
	Funai	30675, 30695, 31268
	Fusion	30862
G	Gateway	31158
	GE	30522, 30815, 30717
	General Electric	30717
	Germatic	31051
	Global Link	31224
	Global Solutions	30768
	Global Sphere	31152
	Go Video	30573, 30744, 30717, 30715, 30741, 30783, 30833, 30869, 31044, 31075, 31099, 31158, 31483, 31730
	GoldStar	30591, 30741, 30869
	Goodmans	30651, 30690, 30713, 30723, 30730, 30783, 30790, 30833, 31004, 31140, 31423, 31530, 31730, 31923
	GP Audio	31140
	GPX	30699, 30741
	Gradiente	30490, 30651
	Graetz	30665
	Gran Prix	30831, 30898
	Grandin	30713, 31233
	Greenhill	30717
	Grundig	30539, 30651, 30551, 30670, 30686, 30695, 30705, 30713, 30775, 30790, 31004, 31036, 31695, 31730, 31832, 31920
	Grunkel	30770, 30790, 30831
H	H & B	30713, 30841, 30850, 31233, 31421
	Haaz	30751, 31152
	Haier	30843
	Hanseatic	30741, 30783, 30790
	Harman/Kardon	30582, 30702
	HCM	30788
	HDT	30705
	HE	30730, 31163, 31923
	Henss	30713
	HiMAX	30843
	Hitachi	30573, 30664, 30665, 30713, 31247, 31920
	Hiteker	30672, 31923
	Hoeher	30651, 30713, 30831, 31004, 31224

Home Electronics	30730, 30770
Home Tech Industries	31224
Ноуо	30665
Humax	30646
Hyundai	30783, 30850, 31061, 31228
iLo	31348
Ingelen	30788
Ingersol	31023
Initial	30839, 30717
Inno Hit	30713
Insignia	31268
Integra	30571, 30627, 31634
Irradio	30869, 31115, 31224, 31233
IRT	30783
ISP	30695
Jamo	31036
Jaton	30665
JBL	30702
JDB	30730
JDV	31367
Jeken	30699
Jepssen	31250
JMB	30695
JNC	30672, 31271
JSI	31423
JVC	30503, 30539, 30558, 30623, 30867, 31164, 31597, 31860
jWin	31051
Kansas Technologies	
Karcher	30783
Kawasaki	30790
Kendo	30672, 30699, 30713, 30831
Kennex	30713, 30770, 30898
Kenwood	30490, 30534
Kiiro	30770
Kiss	30665, 30841, 31523
KLH	30815, 30717, 30790, 31020
Kloss	30533
Koda	31230
Konka	31192
Koss	200E1 210C1 21422
K039	30651, 31061, 31423
Kreisen	31421
	31421 31321, 31923
Kreisen	31421
Kreisen KXD	31421 31321, 31923 30627, 30798, 30789 30768
Kreisen KXD Lasonic	31421 31321, 31923 30627, 30798, 30789
Kreisen KXD Lasonic Lawson	31421 31321, 31923 30627, 30798, 30789 30768 31533 30872
Kreisen KXD Lasonic Lawson Lecson	31421 31321, 31923 30627, 30798, 30789 30768 31533
Kreisen KXD Lasonic Lawson Lecson Leiker	31421 31321, 31923 30627, 30798, 30789 30768 31533 30872 30651, 30699, 30713, 30770,
Kreisen KXD Lasonic Lawson Lecson Leiker Lenco	31421 31321, 31923 30627, 30798, 30789 30768 31533 30872 30651, 30699, 30713, 30770, 30774
Kreisen KXD Lasonic Lawson Lecson Leiker Lenco Lenoir	31421 31321, 31923 30627, 30798, 30789 30768 31533 30872 30651, 30699, 30713, 30770, 30774 31228

Т

J

K

L

	LG	30591, 30741, 30790, 30869, 31906		Μ
	Lifetec	30651, 30831, 31347		M
	Limit	30768, 31104		M
	LiteOn	31058, 31158		M
	Lodos	30713		M
	Loewe	30539, 30511, 30741, 30885		M
	Logik	30713, 30884		M
	Logix	30705, 30783	Ν	N.
	Luker	31367		N
	Lumatron	30695, 30705, 30713, 30741, 30833, 31115, 31321, 31832		N
	Lunatron	30741		Ν
	Luxman	30573		Ν
	Luxor	30713, 31004, 31695, 31730		Ν
Μ	Magnasonic	30651, 30675		Ν
	Magnat	31923		Ν
	Magnavox	30503, 30539, 30646, 30675, 30713, 30821, 30885, 31140, 31268		N
	Magnex	30723		Ν
	Majestic	31345		Ν
	Manhattan	30705, 30713		Ν
	Marantz	30503, 30539, 30675		Ν
	Mark	30713		Ν
	Marguant	30770		Ν
	Matsui	30672, 30651, 30695, 30713,		Ν
		30884, 31004, 31695, 31730	0	0
	Maxdorf	30788		0
	Maxent Maxim	31347		0
		30713, 30872, 31367 31345		0
	Maya MBO	30690, 30730, 31730		0
	McIntosh	31533		0
	MDS	30713		0
	Mecotek	30770		0
	Medion	30651, 30630, 30774, 30783, 30831, 31006, 31270, 31345,		0
		31347, 31423		0
1	MEI	30790		0
	Memorex	30690, 30695, 30831, 31270		0
	Metronic	30690	Р	P8
	Metz	30525, 30571, 30713	•	Pa
	MiCO	30723, 30751, 31223		
	Micromaxx Micromedia	31695		Pa
		30503, 30539		Pa
	Micromega	30539, 31005		Pa
	Microsoft Microstar	30522, 31708 30831		Pa
	Minato	30752		
	Minax	30752		Pa
	Minerva	30705		pe
	Minoka	30770, 31115		Pł
	Mintek	30839, 30717		Pł
	Mirror	30752		
		557.5L		

	Mitsubishi	31521, 30521, 30713, 31403	
	Mizuda	30770, 31451	
	Monyka	30665	
	MPX	30843	
	Mustek	30730, 31730	
	Mx Onda	30651, 30751, 31223	
	Mystral	30831	
Ν	,	30741	
	Naiko	30770, 31004, 31367	
	Narita	31367	
	NEC	30741, 30869, 31404	
	Neovia	31271	
	Nesa	30717	
	Neufunk	30665	
	Nevir	30770, 30831, 31197	
	NexxTech	31402	
	Nikkai	31923	
	Nintaus	31051, 31202	
	Niro	32024	
	Norcent	30872, 31923	
	Nordmende	30774, 30831	
	Noriko	30752	
	Nova	31923	
	Nowa	30843	
	Nu-Tec	31228	0
0	Okano	30752	u
	Olidata	30672	R
	Omni	30690, 30833, 30838, 30862, 31104, 31832	n
	Onix	30838	
	Onkyo	30503, 30627	
	Oopla	31158	
	Орро	31224	
	Optim	30843	
	Optimus	30525, 30571	
	Orbit	30872	
	Orion	30695, 31233, 31695	
	Oritron	30651	
	Ormond	30713	
Ρ	P&B	31451	
	Pacific	30695, 30713, 30759, 30768, 30790, 30831	
	Packard Bell	30831	
	Palladium	30695, 30713, 31906, 31920	
	Palsonic	30672, 30852, 31056, 31321	
	Panasonic	30503, 30490, 30571, 30703, 31362, 31462, 31490, 31579,	
	rundounic	31762, 31834, 31905, 31908	
	Panda	30717, 30789, 31203	
	peeKTon	30898, 31224	
	Philco	30690, 30862	S
	Philips	30503, 30539, 30646, 30675, 30854, 30885, 31158, 31260,	
		31267, 31340, 31354	

Printo         31343           Phonotrend         30699           PianoDisc         31024           Pioneer         31965           Pointer         30784           Polaroid         31020, 31061, 31086           Polk Audio         30539           Portland         30770           Powerpoint         30872, 31005           Presidian         30675           Prima         31228           Prinz         30831           Procater         31004           Procater         31004           Procaded         30672           Procater         31004, 31483           Proscan         30522           Prosonic         30672           Prosonic         30672           Prosonic         30672           Proscan         30522           Prosonic         30672           Prosonic         30693, 30752           Provision         30593, 30763, 31321, 3123           Prosonic         30522, 30571, 30717, 30790, 3163, 31321, 31923           Prosonic         30552, 30571, 30717, 30790, 3163, 31321, 31931, 319365           Reatistic         30552, 30571, 30717, 30790, 31163, 31321, 31931, 31931313153, 31962	Dhile	0104E
PianoDisc31024Pioneer30490, 30525, 30571, 30631, 31965Pioneer30850Pointer30784Polaroid31020, 31061, 31086Polk Audio30539Portland30770Powerpoint30872, 31005Presidian30675Prima31228Prinz30831Profcaeta30070, 30831Pro231345ProCaster30672, 30651, 30686, 30833, 31004, 31483Proscan30522Prosonic30699, 30732, 31163, 31321, 31923Pye30539, 30646QONIX31051Questar30651Radionette30771, 30790, 30522, 31122, 31769, 31923Pye30539, 30646QONIX31051Questar30651Radionette30711, 30790, 31923, 3145, 31321, 31935Realistic30572, 30571, 30770, 30788, 31913, 31965Realistic30571Rite30651Redstar30752, 30571, 30770, 30788, 31913, 31965Realistic30571, 30770, 30788, 31913, 31965Realistic30572, 30768, 30770, 30788, 31913, 31965Realistic30572, 30768Revoy30699, 30841Rex30838Richmond31237Ricokanic30772, 30690, 30699, 30713, 3773, 30833, 30898, 31051, 3720, 30833, 30898, 31051, 3720, 30833, 30898, 31051, 3720, 30651, 30556, 30623Rowa30777, 30789Rokatar30578, 30623Rowa307789<	Philo	31345
Pioneer         30490, 30525, 30571, 30631, 31965           Pioneer         30490, 30525, 30571, 30631,           Plu2         30850           Pointer         30784           Polaroid         31020, 31061, 31086           Polk Audio         30539           Portland         30770           Powerpoint         30872, 31005           Presidian         30675           Prima         31228           Prinz         30831           Procaster         31004           Procaster         31004, 31483           Proscan         30522           Prosonic         30672, 30651, 30686, 30833, 31004, 31483           Proscan         30522           Prosonic         30699, 30752           Provision         30699, 30730, 31163, 31321, 31923           Prevetar         30651           Radionette         30741, 30869, 31906, 32024           Radioshack         30571           Ratite         30652           Rodonette         30752, 30771, 30779, 30784, 31923           Rec         30522, 31022, 31132, 31763, 31721, 30790, 30522, 31024           Radioshack         30571           Rotat         30552, 30763, 30770, 30788, 31986, 31943, 31923 <td></td> <td></td>		
Profine         31965           Plu2         30850           Pointer         30784           Polaroid         31020, 31061, 31086           Polk Audio         30539           Portland         30770           Powerpoint         30872, 31005           Presidian         30675           Prima         31228           Prinz         30831           Prica         30675, 30831           Procaster         31004           Procaster         31004, 31483           Proscan         30522           Prosonic         30699, 30752           Prosonic         30651           30651         30689, 30730, 31163, 31321, 31923           Prye         30539, 30646           QONIX         31051           Questar         30651           Radionette         30711, 30717, 30790, 3052, 30571, 30713, 31763, 31321, 31923           Progenic         30522, 31022, 31132, 31769, 30521, 30763, 30770, 30788, 31931, 31965           Radioshack         30571           Ratic         30651           Ratic         30652           Recx         30490           Recx         30223, 31245, 31923           Relisys<		
Pointer30784Polaroid31020, 31061, 31086Polk Audio30539Portland30770Powerpoint30872, 31005Presidian30675Prima31228Prinz30831Pro231345ProCaster31004Proceed30672, 30651, 30686, 30833, 31004, 31483Proscan30522Proson30713Proson30522Proson30599, 30752Provision30651Adionette30671Proline30651Adioshack30571Radionette30741, 3089, 31906, 32024Radioshack30571Rate30665Radionette30571, 30770, 30780, 31916, 31921Realistic30571Rec30490Rec30752, 30763, 30770, 30788, 30898, 31345, 31923Relistic30571Rec30490Rec30752, 30763, 30770, 30788, 30898, 31945, 31923Relistic30571Rec30490Rec30752, 30763, 30770, 30788, 30898, 31945, 31923Relisy31347Recc30490Recx30689, 30841Rex30898, 31345, 31923Richmond31233Richmond31233Richmond31233Richmond31233Richmond30872Rocksonic30789, 30623Rowa30717, 30759, 30872, 31004Rownsonic30789Sabaki30789<	Pioneer	
Polaroid         31020, 31061, 31086           Polk Audio         30539           Portland         30770           Powerpoint         30872, 31005           Presidian         30675           Prima         31228           Prinz         30831           Prism         30705, 30831           Pro2         31345           ProCaster         31004           Proceed         30672, 30651, 30686, 30833, 31004, 31483           Proscan         30522           Proson         30713           Prosonic         30699, 30752           Provision         30512           ProVision         31923           Pye         30539, 30646           QDNIX         31051           Questar         30651           Radionette         30714, 30869, 31906, 32024           Radioshack         30571           Rate         30651           Ratice         30652, 30571, 30717, 30780, 30720, 31782, 31782, 31783, 31985           Realistic         30571           Rate         30572, 30763, 30770, 30788, 30893, 31813, 31985           Rectar         30572, 30763, 30770, 30788, 30893, 31981, 31985           Relisys         31347 </td <td>Plu2</td> <td>30850</td>	Plu2	30850
Polk Audio         30539           Portland         30770           Powerpoint         30872, 31005           Presidian         30675           Prima         31228           Prinz         30831           Prism         30705, 30831           Pro2         31345           ProCaster         31004           Proceed         30672, 30651, 30686, 30833, 31004, 31483           Proscan         30522           Proson         30713           Prosonic         30699, 30752           Prosonic         30699, 30730, 31163, 31321, 31923           Prosonic         30699, 30730, 31163, 31321, 31923           Prosonic         30699, 30730, 31163, 31321, 31923           Pye         30539, 30646           QDNIX         31051           QUNIX         31051           Quvestar         30651           Radionette         30741, 3089, 31906, 32024           Radioshack         30571           Rate         30652, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 30822, 31022, 31132, 31769, 30813, 31965           Realistic         30571           Rect         30490           Rectar         30759, 30763, 30770, 30788, 30898, 31345, 31923	Pointer	30784
Portland         30770           Powerpoint         30872, 31005           Presidian         30675           Prima         31228           Prinz         30831           Prism         30705, 30831           Pro2         31345           ProCaster         31004           Proceed         30672, 30651, 30686, 30833, 31004, 31483           Proceed         30672, 30651, 30686, 30833, 31004, 31483           Proscan         30522           Proson         30713           Prosonic         30699, 30730, 31163, 31321, 31923           Prosonic         30699, 30730, 31163, 31321, 31923           Prosonic         30699, 30730, 31163, 31321, 31923           Prosonic         30539, 30646           QDNIX         31051           Questar         30651           Radionette         30741, 3089, 31906, 32024           Radioshack         30571           Rate         30652, 30571, 30717, 30780, 30822, 31022, 31132, 31769, 30822, 31022, 31132, 31769, 30813, 31965           Realistic         30571           Realistic         30571           Recc         30490           Revoy         30693, 30740, 30770, 30788, 30345, 31923           Reisys         3	Polaroid	31020, 31061, 31086
Powerpoint30872, 31005Presidian30675Prima31228Prinz30831Prism30705, 30831Pro231345ProCaster31004Proceed30672, 30651, 30686, 30833, 31004, 31483Proscan30522Proson30713Prosonic30699, 30730, 31163, 31321, 31923Pro30651ProVision30539, 30646QONIX30651Radionette30741, 30869, 31906, 32024Radionette30741, 30869, 31906, 32024Radionette30571Rate3065230652, 30571, 30717, 30780, 30822, 31022, 31132, 31763, 31913, 31965Realistic30571Rec30490Rec30490Redstar30759, 30763, 30770, 30788, 30898, 31345, 31923Reisys31347Recc30752, 30768Revoy30689, 30841Rex30869Richmond31233Rio30872, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227Rocksonic30782, 30623Rowa30771, 30759, 30872, 31004Rowa30772, 30580, 30693, 3073, 30833, 30898, 31051, 31227Rocksonic30872Rotel30558, 30623Rowa30717, 30759, 30872, 31004Rowa30781, 3055Sabaki30798	Polk Audio	30539
Presidian         30675           Prima         31228           Prinz         30831           Prism         30705, 30831           Pro2         31345           ProCaster         31004           Proceed         30672, 30651, 30686, 30833, 31004, 31483           Proscend         30672, 30651, 30686, 30833, 31004, 31483           Proscend         30522           Proson         30522           Proson         30713           Proson         30572           Proson         30593, 30730, 31163, 31321, 31923           Proson         30593, 30740, 31163, 31321, 31923           Provision         30593, 30646           QDNIX         30651           Radionette         30741, 30869, 31906, 32024           Radioshack         30571           Rate         30655           Radioshack         30571           Rate         30652, 30571, 30717, 30790, 31913, 31965           Realistic         30571           Rec         30490           Rec         30490           Rec         30490           Rec         30491           Rec         30493           Revoy         30693, 30763, 3077	Portland	30770
Prima         31228           Prinz         30831           Prism         30705, 30831           Pro2         31345           ProCaster         31004           Proceed         30672, 30651, 30686, 30833, 31004, 31483           Proscan         30522           Proson         30713           Prosonic         30699, 30752           ProVision         30599, 30730, 31163, 31321, 31923           Pye         30539, 30646           QONIX         31051           Qwestar         30651           Radionette         30741, 30809, 31906, 32024           Radioshack         30571           Ratie         30665           RACA         30522, 31022, 31132, 31769, 31913, 31965           Realistic         30571           REC         30490           Rec         30490           Redstar         30575, 30763, 30770, 30788, 31913, 31965           Realistic         30571           Rec         30490           Rec         30490           Rec         30490           Rec         30752, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752	Powerpoint	30872, 31005
Prinz         30831           Prism         30705, 30831           Pro2         31345           ProCaster         31004           Proceed         30672, 30651, 30686, 30833, 31004, 31483           Proscend         30522           Proson         30522           Proson         30699, 30752           ProVision         30699, 30730, 31163, 31321, 31923           Pye         30539, 30646           OONIX         31051           Qwestar         30651           Radionette         30741, 30869, 31906, 32024           Radioshack         30571           Rate         30665           RAdioShack         30571           Rate         30652, 30571, 30717, 30790, 31913, 31965           Realistic         30571           REC         30490           Rec         30490           Redstar         30752, 30763, 30770, 30788, 31947           Reoc         30752, 30768           Reisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31223           Rice         30730, 30833, 30898, 31051,	Presidian	30675
Prism         30705, 30831           Pro2         31345           ProCaster         31004           Proceed         30672, 30651, 30686, 30833, 31004, 31483           Proscan         30522           Proson         30713           Prosonic         30699, 30752           ProVision         30593, 30646           QONIX         31051           Questar         30651           Radionette         30741, 30869, 31906, 32024           Radioshack         30571           Ratite         30665           RAGN         30522, 30713, 30770, 30780, 30822, 31022, 31132, 31769, 30822, 31022, 31132, 31769, 30822, 31022, 31132, 31769, 30822, 31022, 31132, 31769, 30823, 30759, 30763, 30770, 30788, 30989, 31913, 31965           Realistic         30571           REC         30490           Redstar         30752, 30763, 30770, 30788, 31973, 31763, 31773, 30780, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30899, 31081, 3145, 31923           Roadstar         30772, 30690, 30899, 30713, 30730, 30833, 30898, 31051, 31227	Prima	31228
Pro2         31345           ProCaster         31004           Proceed         30672           Proline         30672, 30651, 30686, 30833, 31004, 31483           Proscan         30522           Proson         30713           Prosonic         30699, 30732           ProVision         30699, 30730, 31163, 31321, 31923           Pye         30539, 30646           QONIX         31051           Questar         30651           Radionette         30741, 30869, 31906, 32024           Radioshack         30571           Rate         30652, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 30822, 31022, 31132, 31769, 30822, 31022, 31132, 31769, 30898, 31345, 31932           Rec         30490           Redstar         30575, 30763, 30770, 30788, 30898, 31345, 31932           Relisys         31347           Reoc         30752, 30768           Revoy         30689           Revoy         30689           Reisys         31347           Reoc         30752, 30768           Revoy         30689           Roadstar         30730, 30833, 30898, 31051, 31227           Rocksonic         30772, 30690, 30699, 30713, 3773, 30693, 30898, 31051, 30729, 30841	Prinz	30831
ProCaster         31004           Proccede         30672           Proline         30672, 30651, 30686, 30833, 31004, 31483           Proscan         30522           Proson         30713           Proson         30699, 30752           ProVision         30699, 30730, 31163, 31321, 31923           Prev         30539, 30646           QONIX         31051           Questar         30651           Radionette         30711, 30710, 30522, 31027, 31123, 31763, 31913, 31906, 32024           Radioshack         30571           Ratite         30655           Radioshack         30571           Rate         30652, 31027, 31122, 31769, 31913, 31965           Realistic         30571           REC         30490           Redstar         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30689           Revoy         30689, 30841           Rex         30838           Richmond         31223           Rio         30722, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         307789           Ronin	Prism	30705, 30831
Proceed         30672           Proline         30672, 30651, 30686, 30833, 31004, 31483           Proscan         30522           Proson         30713           Prosonic         30699, 30752           ProVision         30593, 30730, 31163, 31321, 31923           Pye         30539, 30646           QONIX         31051           Questar         30651           Radionette         30711, 30710, 30522, 3102, 3112, 31769, 30522, 3102, 31132, 31769, 30522, 3102, 31132, 31769, 30522, 3102, 31132, 31769, 30522, 3102, 31132, 31769, 31913, 31965           Realistic         30571           REC         30490           Redstar         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30689, 30841           Rex         30838           Richmond         31233           Rio         30872, 30690, 30699, 30713, 3730, 30833, 30898, 31051           Roadstar         30778, 30763, 30770, 3789           Ronin         30872           Rouc         30752, 30690, 30699, 30713, 3730, 30833, 30898, 31051           Roc         30778, 30623           Rowa         30717, 30759, 30872, 31004           Rowa	Pro2	31345
Proline         30672, 30651, 30686, 30833, 31004, 31483           Proscan         30522           Proson         30713           Prosonic         30699, 30752           ProVision         30699, 30730, 31163, 31321, 31923           Pye         30539, 30646           QONIX         31051           Questar         30651           Radionette         30711, 30869, 31906, 32024           Radioshack         30571           Ratie         30655           Ratie         30652, 31071, 30717, 30790, 30522, 31022, 31132, 31769, 31913, 31965           Realistic         30571           REC         30490           Reckara         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30872, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         307789           Ronin         30872           Rout         30572, 30690, 30692, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronini         30872	ProCaster	31004
From         31004, 31483           Proscan         30522           Proson         30713           Prosonic         30699, 30752           ProVision         30699, 30730, 31163, 31321, 31923           Pye         30539, 30646           QONIX         31051           Qwestar         30651           Radionette         30711, 30869, 31906, 32024           Radioshack         30571           Raite         30665           RCA         30522, 30571, 30717, 30790, 30522, 31022, 31132, 31769, 31913, 31965           Realistic         30571           REC         30490           Reckara         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30872, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rowa         30789, 3055           Saba         30651, 30	Proceed	30672
Proscan         30522           Prosonic         30713           Prosonic         30699, 30752           ProVision         30699, 30730, 31163, 31321, 31923           Pye         30539, 30646           QONIX         31051           Qwestar         30651           Radionette         30741, 30869, 31906, 32024           Radioshack         30571           Ratie         30665           Radioshack         30571           Rate         30665           Realistic         30571, 30717, 30790, 31913, 31965           Realistic         30571           REC         30490           Redstar         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30672, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         30782, 30693, 30793, 30841, 30227           Rocksonic         30782, 30691, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         30782, 30691, 30693, 30713, 30730, 30833, 30898, 31051, 31227           Roctel <td>Proline</td> <td></td>	Proline	
Proson         30713           Prosonic         30699, 30752           ProVision         30699, 30730, 31163, 31321, 31923           Pye         30539, 30646           QDNIX         31051           Qwestar         30651           Radionette         30741, 30869, 31906, 32024           Radioshack         30571           Rate         30665           Radioshack         30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965           Realistic         30571           REC         30490           Redstar         30589, 31345, 31923           Relisys         31347           Reoc         30752, 30763, 30770, 30788, 30672, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30869           Roadstar         30730, 30833, 30898, 31051, 31227           Rocksonic         30780, 30672, 30690, 30693, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rowasonic         30789 <td< td=""><td>Process</td><td></td></td<>	Process	
Prosonic         30699, 30752           ProVision         30699, 30730, 31163, 31321, 31923           Pye         30539, 30646           QONIX         31051           Qwestar         30651           Radionette         30741, 30869, 31906, 32024           Radioshack         30571           Rate         30652           Radioshack         30571           Rate         30652, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965           Realistic         30571           REC         30490           Redstar         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30672, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Roinin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rowa         30717, 30759, 30872, 31004           Rowa         30781, 3055           Saba         30651, 3055           Sabaki <td></td> <td></td>		
ProVision         30699, 30730, 31163, 31321, 31923           Pye         30539, 30646           QDNIX         31051           Owestar         30651           Radionette         30741, 30869, 31906, 32024           Radionette         30711, 30869, 31906, 32024           RadioShack         30571           Raite         30665           RadioShack         30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965           Realistic         30571           REC         30490           Redstar         30589, 31345, 31923           Relisys         31347           Reoc         30752, 30763, 30770, 30788, 30699, 30841           Rex         30898, 31345, 31923           Reichmond         31233           Rio         30869           Roadstar         30730, 30833, 30898, 31051, 31227           Rocksonic         30789, 30743, 30730, 30833, 30898, 31051, 31227           Rocksonic         30782           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rowa         30789, 3055           Saba         30651, 3055           Sabaki         30798		
Provision         31923           Pye         30539, 30646           QDNIX         31051           Quvestar         30651           Radionette         30741, 30869, 31906, 32024           Radionette         30741, 30869, 31906, 32024           Radioshack         30571           Raite         30665           RCA         30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965           Realistic         30571           REC         30490           Redstar         30593, 30763, 30770, 30788, 30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30869           Roadstar         30772, 30690, 30893, 30891, 30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rowa         30789           Rowa         30789           Rotel         30558, 30623           Rowa <t< td=""><td></td><td></td></t<>		
ODNIX         31051           Quvestar         30651           Radionette         30741, 30869, 31906, 32024           RadioShack         30571           Raite         30665           RadioShack         30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965           Realistic         30571           Reck         30571           Reck         30490           Reckstar         30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30672, 30690, 30699, 30713, 30270, 30833, 30898, 31051, 31227           Rocksonic         30782, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         30782           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rowa         30717, 30759, 30872, 31004           Rowa         30717, 3055, 30623           Rowa         30789           Saba         30651, 3055           Sabaki         30798	ProVision	
Owestar         30651           Radionette         30741, 30869, 31906, 32024           RadioShack         30571           Ratie         30665           Ratie         30622, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965           Realistic         30571           Realistic         30571           Reck         30571           Reck         30571           Reck         30571           Reck         30571           Recksar         30571           Reksar         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30672, 30690, 30699, 30713, 30272, 30690, 30699, 30713, 30273, 30833, 30898, 31051, 31227           Rocksonic         30782           Ronin         30872           Ronin         30872           Rowa         30717, 30759, 30872, 31004           Rowa </td <td>Руе</td> <td>30539, 30646</td>	Руе	30539, 30646
Adionette         30741, 30869, 31906, 32024           Radionette         30571           Ratice         30565           Ratice         30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965           Realistic         30571           Reck         30571           Reck         30571           Reck         30571           Reck         30571           Reck         30759, 30763, 30770, 30788, 30898, 31345, 31923           Redistar         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30672, 30690, 30699, 30713, 3027           Rocksonic         30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rowa         30789           Saba         30651, 3055           Sabaki         30798	QONIX	31051
RadioShack         30571           Raite         30665           Raite         30665           Realistic         30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965           Realistic         30571           Realistic         30571           Reck         30571           Reck         30571           Reck         30571           Reck         30571           Reck         30571           Reck         30751, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30672, 30690, 30699, 30713, 30272, 30690, 30693, 30713, 30273, 30833, 30898, 31051, 31227           Rocksonic         30779, 30833, 30898, 31051, 31227           Rocksonic         30782           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rowa         30789           Saba         30651, 3055           Sabaki         30798	Qwestar	30651
Raite         30665           RCA         30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965           Realistic         30571           REC         30490           Redstar         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 31227           Rocksonic         30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rowasonic         30789           Saba         30651, 3055           Sabaki         30798	Radionette	30741, 30869, 31906, 32024
RCA         30522, 30571, 30717, 30790, 31913, 31925           Realistic         30571           REC         30490           Redstar         30593, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30672, 30690, 30699, 30713, 3027           Roadstar         30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rowa         30789           Saba         30651, 3055           Sabaki         30788	RadioShack	30571
RCA         30822, 31022, 31132, 31769, 31913, 31965           Realistic         30571           REC         30490           Redstar         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30672, 30690, 30699, 30713, 30672, 30690, 30793, 30273, 30693, 30838, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30578, 30623           Rowa         30717, 30759, 30872, 31004           Rowa         30717, 30759, 30872, 31004           Rowa         30788           Saba         30651, 3055           Sabaki         30798	Raite	30665
31913, 31965           Realistic         30571           REC         30490           Redstar         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30672, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Roadstar         30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798	DCA	30522, 30571, 30717, 30790,
Realistic         30571           REC         30490           Redstar         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30869           Rodstar         30752, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rowasonic         30789           Saba         30651, 3055           Sabaki         30798	nca	31913, 31965
Redstar         30759, 30763, 30770, 30788, 30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30669           Roadstar         30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30578, 30623           Rowa         30717, 30759, 30872, 31004           Rowa         307788           Saba         30651, 3055           Sabaki         30788	Realistic	
Hedstar         30898, 31345, 31923           Relisys         31347           Reoc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 31227           Roadstar         30672, 30690, 30699, 30713, 31227           Rocksonic         30789           Ronin         30872           Rotel         30578, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798	REC	30490
Belisys         31347           Relisys         31347           Recc         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30869, 30841           Rex         30838           Richmond         31233           Rio         30869           Roadstar         30752, 30690, 30699, 30713, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798	Redstar	
Revoy         30752, 30768           Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30869           Rio         30869           Rio         30869           Roadstar         30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798		
Revoy         30699, 30841           Rex         30838           Richmond         31233           Rio         30869           Roadstar         30672, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798	,	
Rex         30838           Richmond         31233           Rio         30869           Roadstar         30730, 30833, 30898, 31051, 31227           Roadstar         30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798	-	
Richmond         31233           Rio         30869           Sodastar         30732, 30690, 30699, 30713, 31227           Roadstar         30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798		
Rio         30869           Roadstar         30672, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798		
30672, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798		
Roadstar         30730, 30833, 30898, 31051, 31227           Rocksonic         30789           Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798	KIO	
Ronin         30872           Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798	Roadstar	30730, 30833, 30898, 31051,
Rotel         30558, 30623           Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798	Rocksonic	30789
Rowa         30717, 30759, 30872, 31004           Rownsonic         30789           Saba         30651, 3055           Sabaki         30798	Ronin	30872
Rownsonic         30789           Saba         30651, 3055           Sabaki         30798	Rotel	30558, 30623
Saba         30651, 3055           Sabaki         30798	Rowa	30717, 30759, 30872, 31004
Sabaki 30798	Rownsonic	30789
	Saba	30651, 3055
Saivod 30759, 30831, 31367	Sabaki	30798
	Saivod	30759, 30831, 31367

Salora	30741
Sampo	30752, 31321, 31347
Samsung	30490, 30573, 30744, 30199, 30820, 30899, 31044, 31075, 31635, 31932
Sansui	30784, 30695, 30751, 30763, 30768, 31051, 31228, 31230, 31695, 31832
Sanyo	30670, 30675, 30695, 30713, 30873, 31228
Scan	30705, 30850
ScanMagic	30730, 31730
ScanSonic	31695
Schaub Lorenz	30770, 30788, 31115, 31151
Schneider	30539, 30646, 30651, 30705, 30713, 30774, 30783, 30788, 30790, 30831, 30869, 31367
Schwaiger	30752
Scientific Labs	30768
Scott	30672, 30651, 31005, 31036, 31233, 31423
Seeltech	31224, 31451
SEG	30798, 30665, 30713, 30763, 30872, 30884, 31483, 31530
Sensory Science	31158
Shanghai	30672
Sharp	30630, 30675, 30713, 30752, 31256, 32015, 32024
Sharper Image	31117
Sherwood	30717, 30741, 30770
Shinco	30717
Shinsonic	30533, 30839
Siemssen	31382
Sigmatek	31005, 31224
Siltex	31224
Silva	30788, 30898
Silva Schneider	30831, 30898
SilverCrest	31152
Simaudio	30885
Singer	30690, 30751, 30768
Sistemas	30672
Skantic	30539, 30713
Skymaster	30730, 30768
Skyworth	30898
Sliding	31115
Slim Art	30784
SM Electronic	30690, 30730, 30768, 31152
Smart	30705, 30713
Sonai	30755
Sonashi	30831
Sonic Blue	30573, 30715, 30783, 30869, 31099 30533, 31533, 30864, 30573,
Sony	30630, 30772, 31033, 31070, 31431, 31433, 31536, 31633, 31769, 31981, 32043
Sound Color	31233
Soundmaster	30768

	Soundmax	30768
	Soundwave	30783
	Spectra	30872
	Standard	30651, 30768, 30788, 30831, 30898
	Star Clusters	31152, 31227
	Starlogic	31005
	Starmedia	31005, 31224
	Stevison	31367
	Strong	30713
	Sunkai	30770, 30850
	Sunstech	30831
	Sunwood	30788, 30898
	Superscan	30821
	Supervision	30768, 31152
	SVA	30672, 30717, 30752, 31105
	Sylvania	30630, 30675, 30821, 31268
	Symphonic	30675, 30821, 31268
	Synn	30768
T	Tandberg	30713, 31695
	Tangent	31321
	Targa	31227
	Tatung	30770, 31695
	Tchibo	30741
	TCL	31180
	TCM	30741, 30790
	Теас	30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 31006, 31197, 31227
	Tec	30898
	Technica	31367, 31695
	Technics	30490, 30703, 31905
	Technika	30770, 30831, 31115, 31695
	Technisson	31115
	Technosonic	30730, 31051, 31115
	Techwood	30713, 31530
	Tedelex	30690, 30768, 31004, 31228
	Telefunken	30789, 30790, 30833, 31483, 31832, 31923
	Teletech	30713, 30768
	Tensai	30651, 30690, 30770
	Tevion	30651, 30798, 30768, 30833, 30898, 31036, 31227, 31347, 31382, 31483, 31730, 31923
	Theta Digital	30571
	Thomson	30522, 30511, 30551
	Tivo	31503
	Tokai	30784, 30665, 30788, 30790, 30898
	Tom-Tec	30789
	Top Suxess	31224
	Toshiba	30503, 30573, 30539, 30695, 31045, 31154, 31503, 31510, 31769
	TRANS-continents	30831, 30872, 31321, 31327
	Transonic	30730

	<b>T</b> 1	00040
	Tredex	30843
	TruVision	31451
	Tsinghua Tongfang	31205
- m <sup>1</sup>	TSM	31224
U	Umax	30690, 31151
	Unimax	30770 30675, 30695, 30699, 30713,
	United	30730, 30788, 30884, 31115, 31152, 31228, 31367, 31832
	Universum	30591, 30713, 30741, 30790, 30869, 31227, 31530, 31913
	Uptek	30763
	upXus	31345
	Urban Concepts	30503, 30539
	US Logic	30839
V	Venturer	30790
	Vestel	30713, 30884, 31530
	Victor	31597
	Vieta	30705
	Viewmaster	30862, 31224
	Voxson	30690, 30730, 30774, 30831
	Vtrek	31228
W	Waitec	31151, 31224, 31233
	Walkvision	30717
	Waltham	31530
	Welkin	30831
	Wellington	30713
	Weltstar	30713
	Wesder	30699
	Wharfedale	30686, 30751, 30752, 30790, 31832
	Wilson	30831, 31233
	Windsor	30713
	Windy Sam	30573
	WIZE	31115
	Woxter	31005, 31151, 31224
X	Xbox	30522, 31708
	Xenius	30790
	XLogic	30768, 31152, 31228
	XMS	30770, 30788
	Xoro	31183, 31250
Y	Yakumo	31004, 31056
	Yamada	30872, 31004, 31056, 31151, 31158
	Yamaha	30490, 30539, 30646, 30545, 31354
	Yamakawa	30665, 30872, 31104
	Yukai	30730, 31730
Z	Zenith	30503, 30591, 30741, 30869, 31906
	Zeus	30784
D	VD Recorder	
1	4Kus	31158

A	Airis	31321
	Akira	31321
	Alba	31530
	Apex Digital	31056
	Aristona	30646
	Aspire Digital	31168
B	Belson	31086
С	Cat	31421
	cello	31730
	Centrum	31227
	Classic	31730
	Coby	31086
	Commax	31321
	Conia	31321
	CyberHome	31129, 31502
	Cytron	31347
D	Denon	30490
	Denver	31056
	Digitrex	31056
	DSE	31730
	Durabrand	31502
ΕÌ	E:max	31321
	Ellion	31421
	Eltax	31321
	Emerson	30675
ΕÌ	Ferguson	31730
- I	Firstline	31530
	Funai	30675
G	Gateway	31158
-	Go Video	30741, 31158, 31730
	Goodmans	31530, 31730
	GPX	30741
	Grundig	31730
НÌ	H & B	31421
	Humax	30646
Ľ	iLo	31348
J	JVC	31164, 31597
K	Kansas Technologies	31530
	Kreisen	31421
	KXD	31321
L	LG	30741
	Lifetec	31347
	LiteOn	31158
	Loewe	30741
	Lumatron	31321
	Luxor	31730
Μ	Magnavox	30646, 30675
	Matsui	31730
	Maxent	31347
	MBO	31730
	Medion	31347
	MiCO	30751

	Mitsubishi	31403
	Mustek	31730
Ν	NEC	31404
0	Oopla	31158
P	Palsonic	31056, 31321
	Panasonic	30490, 31579
	Philips	30646, 31158
	Pioneer	30631
	Polaroid	31086
	ProVision	31321
	Руе	30646
R	RCA	30522
	Relisys	31347
	Roadstar	31227
S	Sampo	31347
	Samsung	30490, 31635
	ScanMagic	31730
	Schneider	30646
	SEG	31530
	Sensory Science	31158
	Sharp	30630, 30675
	Sony	31033, 31070, 31431, 31433, 31536
	Star Clusters	31227
	Sylvania	30675
T	Tangent	31321
	Targa	31227
	Теас	31227
	Techwood	31530
	Tevion	31227, 31347, 31730
	Thomson	30551
	Toshiba	31510
U	Universum	31227, 31530
V		31530
	Victor	31597
W	Waltham	31530
Y	Yakumo	31056
	Yamada	31056, 31158
	Yamaha	30646
_	Yukai	31730
Ζ	Zenith	30741

DVD preset codes / Codes préréglés DVD				
	32134 (default / défaut)		30490	
DENON Model No. / Modéle numéro	32134 (defa DVD-555 DVD-755 DVD-900 DVD-910 DVD-955 DVD-1000 DVD-1200 DVD-1500 DVD-1710 DVD-1910	DVD-2910 DVD-2930Cl DVD-3800 DVD-3910 DVD-3930Cl DVD-5900 DVD-5910 DVD-5910 DVD-9000 DVM-715 DVM-1800	30490 DVD-800 DVD-1600 DVD-2000 DVD-2500 DVD-2500 DVD-3000 DVD-3300	
	DVD-1930CI DVD-2200 DVD-2800 DVD-2800II DVD-2900	DVM-1805 DVM-1815 DVM-2815 DVM-4800		

- [ ]\*: Preset codes set upon shipment from the factory.
- \*1: These preset codes can be recorded in the SAT/ CBL mode.
- \*2: These preset codes can be recorded in the TV mode.
- \*3: These preset codes can be recorded in the VCR mode.
- \*4: These preset codes can be recorded in the DVD mode.



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