

DENON

AV SURROUND RECEIVER

AVR-5805

OPERATING INSTRUCTIONS [Upgrade version]

FCC INFORMATION (For US customers)

1. COMPLIANCE INFORMATION

Product Name: AV Surround Receiver
Model Number: AVR-5805

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.

Denon Electronics (USA), LLC
19C Chapin Road, Suite 205
Pine Brook, NJ 07058-9385
Tel. 973-396-0810 (Main)

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.

This manual includes explanations of functions that are added after upgrading the receiver.
For instructions on operating the receiver, also refer to the operating instructions included with the receiver.

Contents

Rear Panel	2
-------------------------	---

System Setup

Setting the Video Setup	2
Setting the HDMI/DVI In Assignment	2
Setting the Video Convert Mode	3
The video conversion function	3, 4
Relationship between the video input signal and monitor output according to the video convert mode settings of MAIN ZONE	4, 5
Setting the HDMI/Component Out	6
Selection of resolution setting (SCALE)	7
Setting the Network Setup	7
Setting the IP Address	7, 8
Setting the Proxy	8
Setting the Network Option	8, 9

Network Audio Function

Internet radio function	9
vTuner	9
Music server function	9
System requirements	9
Broadband Internet connection	9
Modem	10
Router	10
Ethernet cable (CAT-5)	10
Personal computer	10
Others	10
TUN (Tuner) / D-TU (Digital Tuner) system buttons	11
Connections	11

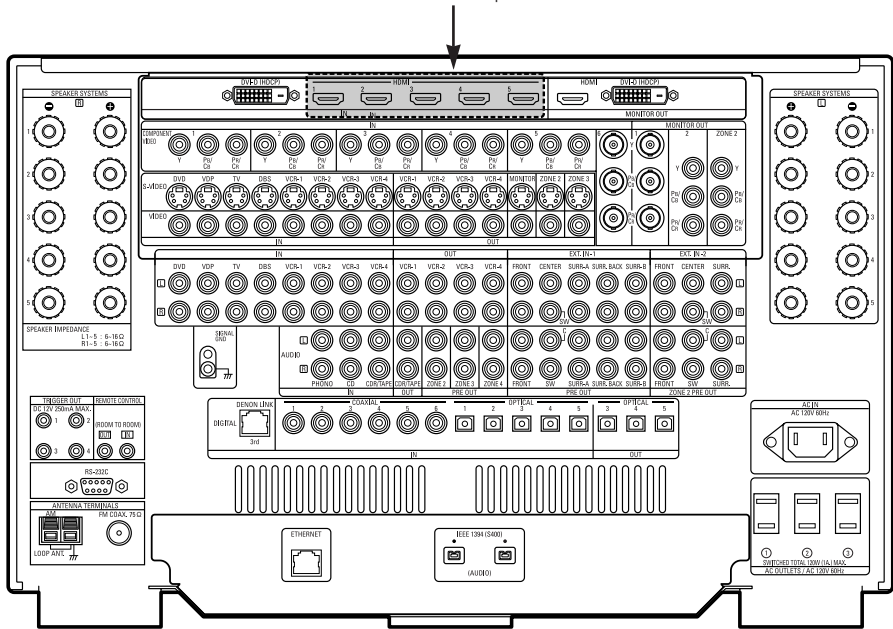
Listening to Internet radio	12
Presetting (registering) Internet radio stations	13
Listening to preset Internet radio stations	13
Registering Internet radio stations in your favorites	13
Listening to Internet radio stations registered in your favorites	14
Deleting radio stations from your favorites	14
Character search function (searching by first letter)	14
Updating the list of radio stations	14
Playing music files stored on the computer (music server)	15
Playing music files that have been preset or registered in your favorites	15
Operating the AVR-5805 using a browser	15
Examples of web control operation screens	16

Additional Information

Windows Media Connect	16
Explanation for installing Windows Media Connect	16
vTuner	16
Windows Media DRM	16

Rear Panel

There are five HDMI input terminals.



System Setup

After upgrading, part of the system setup menu changes.

Setting the Video Setup

[Old on screen display]

4. Video Setup
- 1. Component In Assign
 - 2. Video Convert Mode
 - 3. Video Scaler
 - 4. 3D Y/C Separation
 - 5. HDMI/DVI In Assign
 - 6. Audio Delay
 - 7. On Screen Display
 - Exit

[New on screen display]

4. Video Setup
- 1. HDMI/DVI In Assign
 - 2. Component In Assign
 - 3. Video Convert Mode
 - 4. HDMI/Component Out
 - 5. Audio Delay
 - 6. On Screen Display
 - Exit



- After upgrading, the "Video Scaler" and "3D Y/C Separation" items disappear from the "Video Setup" menu.

Setting the HDMI/DVI In Assignment

Since there are now five HDMI input terminals, the "HDMI/DVI In Assign" screen changes.

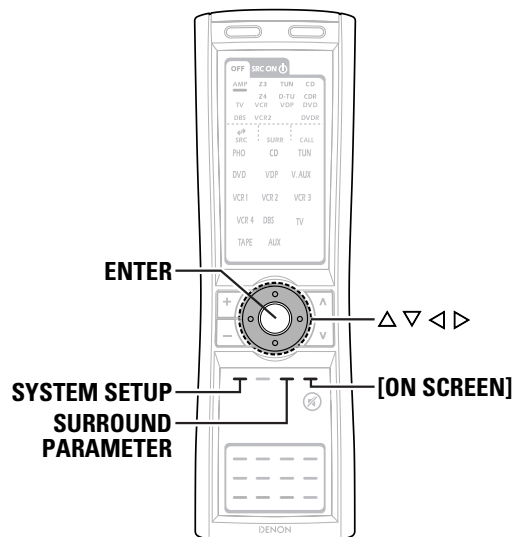
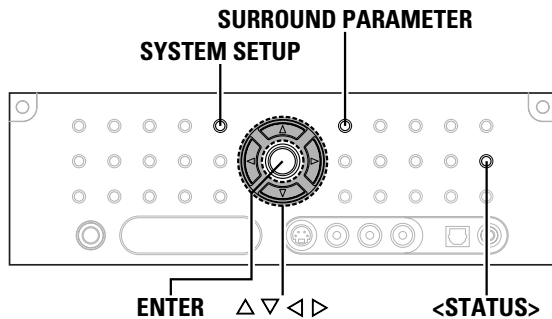
[Default]

4-1. HDMI/DVI In Assign		
DVD	: NONE	Monitor: HDMI
VDP	: NONE	
TV	: NONE	
DBS	: NONE	
VCR-1	: NONE	
VCR-2	: NONE	
VCR-3	: NONE	
VCR-4	: NONE	
V.Aux	: NONE	

[Example]

4-1. HDMI/DVI In Assign		
DVD	: HDMI1	Monitor: HDMI
VDP	: HDMI2	HDMI
TV	: HDMI3	Audio: AMP
DBS	: HDMI4	No Signal
VCR-1	: HDMI5	1: EXT-1
VCR-2	: DVI-D	2: EXT-2
VCR-3	: NONE	3: ANALOG
VCR-4	: NONE	4: ANALOG
V.Aux	: NONE	5: ANALOG

System Setup



About the button names in this explanation

< > : Buttons on the main unit

[] : Buttons on the remote control unit

Button name only :

Buttons on the main unit and remote control unit

Setting the Video Convert Mode

Set whether or not to use the video conversion function.

1 Press Δ ∇ to select “Video Setup” at the “System Setup Menu”, then press **ENTER**.

2 Press Δ ∇ to select “Video Convert Mode”, then press **ENTER**.

3 Press Δ ∇ to select the input source, then press \triangleleft \triangleright to set.

ON, OFF:

Select “ON” to use the video conversion function, “OFF” if you do not want to use it.

4 Press **ENTER**.

2 4. Video Setup

1. HDMI/DVI In Assi
2. Component In Ass
3. Video Convert Mo
4. HDMI/Component O
5. Audio Delay
6. On Screen Displa
Exit

3 4-3. Video Convert Mode

DVD : \triangleleft ON \triangleright VCR-3 : ON
VDP : ON VCR-4 : ON
TV : ON V.Aux : ON
DBS : ON
VCR-1 : ON
VCR-2 : ON



- Down-converting from the component video signal to the S-Video and composite video signal is possible only when the resolution of a component video signal is 480i / 576i.
- 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 “Video Convert Mode” to “OFF”.
- When the video conversion function has been used, information such as that of text broadcasts which has been added to the video signal might not be output. If this happens, please set the “Video Convert Mode” to “OFF”.

System Setup

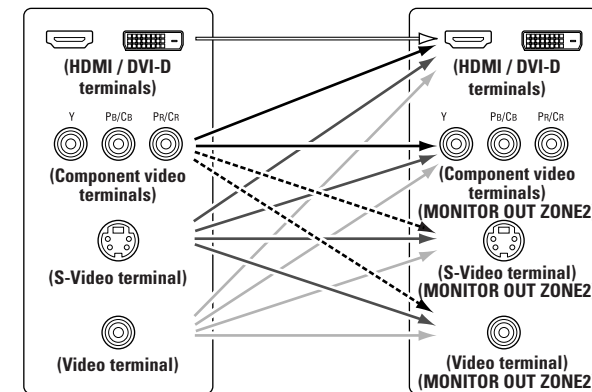
The video conversion function

The AVR-5805 is equipped with a function for up and down converting video signals.

Because of this, the AVR-5805's MONITOR OUT terminal can be connected to the monitor (TV) with a set of cables offering a higher quality connection, regardless of how the player and the AVR-5805's video input terminals are connected.

Generally speaking, analog video connections using the component video terminals offer the highest quality playback, followed by connections using the S-Video terminals, then connections using the regular video terminals (yellow).

The flow of the video signals.



This unit's input terminals

This unit's output terminals

---- : only MAIN ZONE 480i/576i

❑ Cautions on the ZONE2 video conversion function

There is no TBC (Time Base Collector) for ZONE2.

When the component video terminals are used to connect the AVR-5805 with a TV (or monitor, projector, etc.) and the video (yellow) or S-Video terminals are used to connect the AVR-5805 with a VCR, depending on the combination of the TV and VCR the picture may flicker in the horizontal direction, be distorted, be out of sync or not display at all when playing video tapes.

If this happens, connect a commercially available video stabilizer, etc., with a TBC (time base corrector) function between the AVR-5805 and the VCR, or if your VCR has a TBC function, turn it on.

System Setup



- It is not possible to down-convert from HDMI and DVI-D input signals to the component, S-Video or composite video monitor output terminals.
- Video down conversion to the MAIN ZONE's monitor output is only possible when the component video input resolution is 480i (interlaced standard definition video – NTSC format, for North America) or 576i (interlaced standard definition video – PAL format, for Europe and other countries).
- Set the resolution of the video output to one that is compatible with the resolution of your monitor.
- When "Component" is set at "Scaler" under "HDMI/Component Out", the signals are output to the HDMI/DVI-D monitor output terminal with their original resolution. Use a monitor compatible with a resolution of 480i/576i.

The analog video to HDMI conversion function

- The AVR-5805's video up-conversion function lets you output analog video input signals (component – 480i/576i, 480p/576p, 1080i or 720p; S-Video and composite video - 480i/576i) to the HDMI monitor output terminal.
- With the AVR-5805, the resolution of the signal output to the HDMI MONITOR OUT terminal can be selected (page 6). The resolutions with which the monitor is compatible can be checked using **<STATUS>** or **[ON SCREEN]**.



- If you do not want to use the function for converting analog video signals to HDMI signals, select "OFF" for "Analog to HDMI Convert" at "Setting the HDMI/Component Out" (page 6). In this case, the function for video up conversion to the component video terminal operates.

System Setup

Relationship between the video input signal and monitor output according to the video convert mode settings of MAIN ZONE

Video convert	Input signals				MONITOR OUT			
	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO
ON	X	X	X	X	X	X	X	X
	X	X	X	O	VIDEO	VIDEO	VIDEO	VIDEO
	X	X	O	X	S-VIDEO	S-VIDEO	S-VIDEO	S-VIDEO
	X	X	O	O	S-VIDEO	S-VIDEO	S-VIDEO	S-VIDEO
	X	O (1080p)	X	X	X	COMPONENT	X	X
	X	O (480p ~ 720p)	X	X	COMPONENT	COMPONENT	X	X
	X	O (480i/576i)	X	X	COMPONENT	COMPONENT	COMPONENT	COMPONENT
	X	O (1080p)	X	O	VIDEO	COMPONENT *1	VIDEO	VIDEO
	X	O (480p ~ 720p)	X	O	COMPONENT *1	COMPONENT *1	VIDEO *3	VIDEO
	X	O (480i/576i)	X	O	COMPONENT *1	COMPONENT *1	COMPONENT *1	VIDEO
	X	O (1080p)	O	X	S-VIDEO	COMPONENT *2	S-VIDEO	S-VIDEO
	X	O (480p ~ 720p)	O	X	COMPONENT *2	COMPONENT *2	S-VIDEO	S-VIDEO
	X	O (480i/576i)	O	X	COMPONENT *2	COMPONENT *2	S-VIDEO	S-VIDEO
	X	O (1080p)	O	O	S-VIDEO	COMPONENT *2	S-VIDEO	S-VIDEO
	X	O (480p ~ 720p)	O	O	COMPONENT *2	COMPONENT *2	S-VIDEO	S-VIDEO
	X	O (480i/576i)	O	O	COMPONENT *2	COMPONENT *2	S-VIDEO	S-VIDEO
	O	X	X	X	HDMI	X	X	X
	O	X	X	O	HDMI	VIDEO *2	VIDEO	VIDEO
	O	X	O	X	HDMI	S-VIDEO *2	S-VIDEO	S-VIDEO
	O	X	O	O	HDMI	S-VIDEO *2	S-VIDEO	S-VIDEO
	O	O (1080p)	X	X	HDMI	COMPONENT	X	X
	O	O (480p ~ 720p)	X	X	HDMI	COMPONENT	X	X
	O	O (480i/576i)	X	X	HDMI	COMPONENT	COMPONENT	COMPONENT
	O	O (1080p)	X	O	HDMI *1	COMPONENT *1	VIDEO	VIDEO
	O	O (480p ~ 720p)	X	O	HDMI *1	COMPONENT *1	VIDEO *3	VIDEO
	O	O (480i/576i)	X	O	HDMI *1	COMPONENT *1	COMPONENT *1	VIDEO
	O	O (1080p)	O	X	HDMI *2	COMPONENT *2	S-VIDEO	S-VIDEO
	O	O (480p ~ 720p)	O	X	HDMI *2	COMPONENT *2	S-VIDEO	S-VIDEO
	O	O (480i/576i)	O	X	HDMI *2	COMPONENT *2	S-VIDEO	S-VIDEO
	O	O (1080p)	O	O	HDMI *2	COMPONENT *2	S-VIDEO	S-VIDEO
	O	O (480p ~ 720p)	O	O	HDMI *2	COMPONENT *2	S-VIDEO	S-VIDEO
	O	O (480i/576i)	O	O	HDMI *2	COMPONENT *2	S-VIDEO	S-VIDEO

O : Signal input
 X : No signal
 480p ~ 720p : 480p/576p/1080i/720p

X : Not output
 *1 : On screen display superimposed on video signal and output.
 *2 : On screen display superimposed on S-Video signal and output.
 *3 : Video signals are not output when the analog to HDMI convert function is set to "ON".
 : On screen display only displayed for **SYSTEM SETUP**, **SURROUND PARAMETER** and **[ON SCREEN]**.
 : When "OFF" is selected for the "Analog to HDMI Convert" setting, no video signals other than the HDMI input signal are output.
 : Including the contents of and above.

- HDMI MONITOR OUT:**
When there is no HDMI input signal and "HDMI" is selected for the "Scaler" setting, the signal is output as set with the "Resolution" setting. When "Component" is selected for the "Scaler" setting, the signal is output with the same resolution as the input signal.
- COMPONENT MONITOR OUT:**
When "Component" is selected for the "Scaler" setting, the signal is output as set with the "Resolution" setting. However, the output resolution is limited to a maximum of 480p/576p if the input signal is copyright-protected.



- 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 set to component video 1080p, the signals cannot be output to the HDMI monitor output terminal.

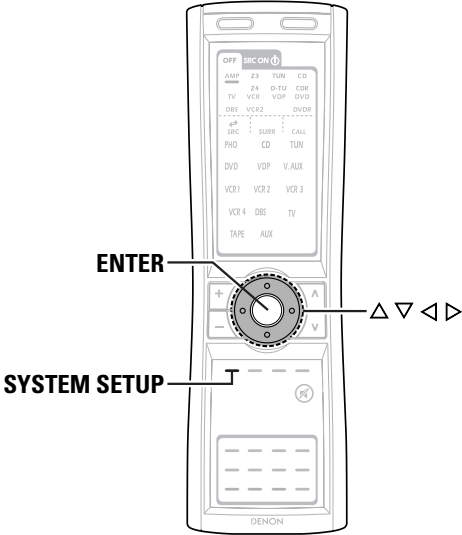
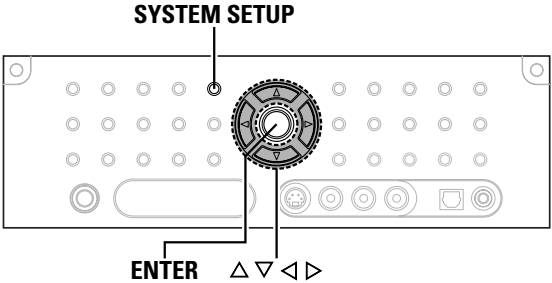
System Setup

Video convert	S-VIDEO MONITOR OUT	Input signals				MONITOR OUT			
		HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO
OFF	—	×	×	×	×	×	*1	×	*1
	—	×	×	×	○	×	*1	×	*1
	—	×	×	○	×	×	*2	×	*2
	Used	×	×	○	○	×	*2	×	*2
	Not used	×	×	○	○	×	*1	×	*1
	—	×	○	×	×	×	*1	COMPONENT	*1
	—	×	○	×	○	×	*1	COMPONENT	*1
	—	×	○	○	×	×	*2	COMPONENT	*2
	Used	×	○	○	○	×	*2	COMPONENT	*2
	Not used	×	○	○	○	×	*1	COMPONENT	*1
	—	○	×	×	×	HDMI	*1	×	*1
	—	○	×	×	○	HDMI	*1	×	*1
	—	○	×	○	×	HDMI	*2	×	*2
	Used	○	×	○	○	HDMI	*2	×	*2
	Not used	○	×	○	○	HDMI	*1	×	*1
	—	○	○	×	×	HDMI	*1	COMPONENT	×
	—	○	○	×	○	HDMI	*1	COMPONENT	×
	—	○	○	○	×	HDMI	*2	COMPONENT	×
	Used	○	○	○	○	HDMI	*2	COMPONENT	×
	Not used	○	○	○	○	HDMI	*1	COMPONENT	×

○ : Signal input
× : 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.
[] : On screen display only displayed for **SYSTEM SETUP**, **SURROUND PARAMETER** and **[ON SCREEN]**.
[] : When “OFF” is selected for the “Analog to HDMI Convert” setting, no video signals other than the HDMI input signal are output.
[] : Including the contents of [] and [] above.

System Setup



About the button names in this explanation

< > : Buttons on the main unit

[] : Buttons on the remote control unit

Button name only :

Buttons on the main unit and remote control unit

System Setup

Setting the HDMI/Component Out

Set the format of the signal up-converted to the HDMI monitor output or component output terminal.

1 Press $\triangle \nabla$ to select “Video Setup” at the “System Setup Menu”, then press **ENTER**.

2 Press $\triangle \nabla$ to select “HDMI/Component Out”, then press **ENTER**.

3 Press $\triangle \nabla$ to select the item, then press $\triangleleft \triangleright$ to set.

Analog to HDMI Convert:• **ON:**

Setting for converting analog video signals into HDMI signals.

• **OFF:**

Setting for not converting analog video signals into HDMI signals.

Scaler:• **HDMI:**

The i/p scaler can be used when outputting the input analog video signal to the HDMI monitor output terminal.

• **Component:**

The i/p scaler can be used when outputting the input analog video signal to the component output terminal.

※ When “Analog to HDMI Convert” is set to “OFF”, the “Scaler” setting is automatically set to “Component” and fixed there.

Aspect:• **FULL:**

The video is output while maintaining the aspect ratio of the input video.

This mode is suited for playing back 16:9 video.

• **NORMAL:**

A black band is added to the left and right of the input video and the video is output.

This mode is suited for playing back 4:3 video.

Resolution:• **480p/576p:**

When the video signal input is a video, S-Video or 480i/576i component video signal, the resolution is converted to 480p/576p and the signal is output from the monitor output terminal.

• **1080i:**

When the video signal input is a video, S-Video or 480i/576i/480p/576p component video signal, the resolution is converted to 1080i and the signal is output from the monitor output terminal.

• **720p:**

When the video signal input is a video, S-Video or 480i/576i/480p/576p component video signal, the resolution is converted to 720p and the signal is output from the monitor output terminal.

• **1080p:**

The input video signal is converted to a resolution of 1080p for output.

This cannot be selected when “Scaler” is set to “Component”.

• **Through:**

The video signal input is output as such from the monitor output terminal without being converted.

Color Space:• **Y Cb Cr:**

The Y Cb Cr format video signals is output via the HDMI output connector.

• **RGB:**

The RGB format video signals is output via the HDMI output connector.

RGB Mode Setup:• **Normal:**

Signals are output via the HDMI output connector with a digital RGB video range (data range) of 16 (black) to 235 (white).

• **Enhanced:**

Signals are output via the HDMI output connector with a digital RGB video range (data range) of 0 (black) to 255 (white).

System Setup

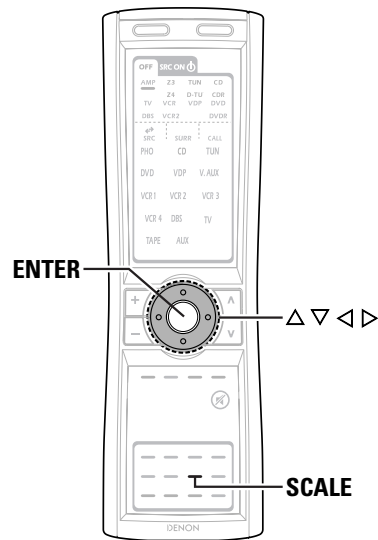
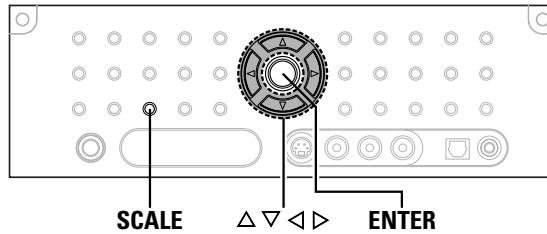
- ※ When the HDMI connectors are connected, the black may seem to stand out, depending on the TV or the monitor. In this case, set this to “Enhanced”.
- ※ When “Y Cb Cr” is selected under “Color Space”, “RGB Mode Setup” will have no effect.
- ※ The aspect ratio setting is valid when the resolution is set to 1080i, 720p or 1080p. To output with other resolutions, set the aspect ratio on the TV.
- ※ When “Through” is set, the signal is output with the same resolution as input from the video, S-Video and component video terminals.
The on screen display, however, is output with a resolution of 480i, so use a monitor compatible with this resolution.

4 Press **ENTER**.



- “Scaler”, “Color Space” and “RGB Mode Setup” are only displayed when “Analog to HDMI Convert” is set to “ON”.
- When connecting to an HDCP compatible monitor equipped with DVI-D terminal, the signals are output in RGB format, regardless of the “Color Space” setting.
- To view the on screen display using an HDMI monitor, set “Analog to HDMI Convert” at “HDMI/Component Out” to “ON” (default).
- Set the resolution of the video output to one that is compatible with the resolution of your monitor.
- When “Scaler” is set to “Component” and the video input signal includes copyright protection data, the signal is output from the component video output terminal with a resolution of 480p/576p even if “Resolution” is set to “1080i” or “720p”.

System Setup



About the button names in this explanation

< > : Buttons on the main unit

[] : Buttons on the remote control unit

Button name only :

Buttons on the main unit and remote control unit

Selection of resolution setting (SCALE)

The resolution ("Resolution") can be changed by pressing **SCALE**.

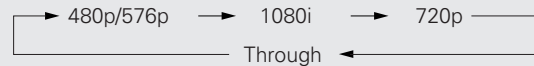
Press **SCALE**.

※ When **SCALE** is pressed, the current setting is shown on the display. If **SCALE** is pressed while the current setting is displayed, the "Resolution" setting can be changed.

- When "HDMI" is selected for the "Scaler" setting:



- When "Component" is selected for the "Scaler" setting:



Setting the Network Setup

- "Network Setup" is added to the "Option Setup" items at "System Setup Menu".
- If you are using a broadband router (DHCP function), there is no need to make the settings at "IP Address" and "Proxy", since the DHCP function is set to "ON" in the AVR-5805's default settings.
- If the AVR-5805 is being used connected to a network without the DHCP function, the network settings must be made. In this case, some knowledge of networks is required.

System Setup

Setting the IP Address

Set this when "OFF" is set for "DHCP".

1 Press $\Delta \nabla$ to select "Network Setup", then press **ENTER**.

2 Press $\Delta \nabla$ to select "IP Address", then press **ENTER**.

3 Press $\triangleleft \triangleright$ to select "OFF".

- The DHCP function is disabled.

4 Press $\Delta \nabla$ to select the desired setting item, then press $\triangleright \triangleleft \nabla$ to input the address.

IP Address:

Set the IP address within the ranges shown below. The Network Audio function cannot be used if other IP addresses are set.

CLASS A: 10.0.0.0 ~ 10.255.255.255

CLASS B: 172.16.0.0 ~ 172.31.255.255

CLASS C: 192.168.0.0 ~ 192.168.255.255

Subnet Mask:

When connecting an xDSL modem or terminal adapter directly to the AVR-5805, input the subnet mask indicated in the documentation supplied by your provider. Normally input 255.255.255.0.

Gateway:

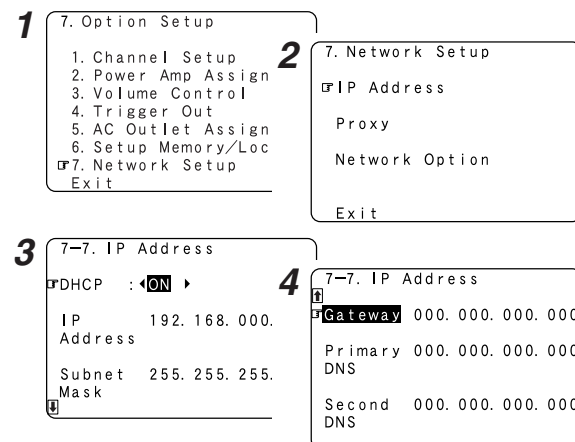
When connected to a gateway (router), input its IP address.

Primary DNS / Secondary DNS:

If there is only one DNS address indicated in the documentation supplied by your provider, input it at "Primary DNS". If there are two or more DNS addresses, input the first one at "Second DNS".

5 Press **ENTER**.

System Setup



- DHCP (Dynamic Host Configuration Protocol):
These are systems by which the IP address and other network settings are automatically set for the AVR-5805, computer, broadband router and network devices.
- DNS (Domain Name System):
This is a system for converting the domain names used when browsing Internet sites (for example, "www.denon.jp") into the IP addresses actually used for communications (for example, "202.221.192.106").

Setting the Proxy

Make this setting when connecting to the Internet via a proxy server.

1 Press Δ ∇ to select "Proxy" at the "Network Setup" screen, then press ENTER.

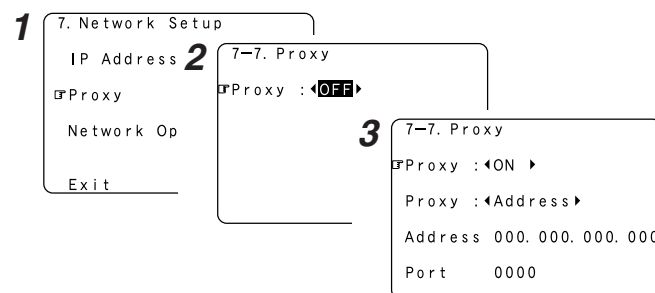
2 Press \triangleleft \triangleright to select "ON".
• The proxy server is enabled.

3 Press Δ ∇ to select the desired setting item, then press \triangleright \triangleleft ∇ to input the character or number.

Proxy:
Input the proxy server domain name or address.

Port:
Input the proxy server port number.

4 Press ENTER.



System Setup

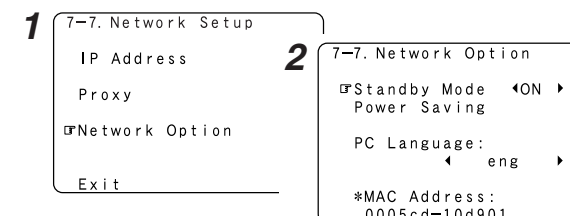
Setting the Network Option

Setting the Power Saving

When not using the AVR-5805 connected in a network, set "ON" to reduce the power consumption when in the standby mode. Set "OFF" when using the AVR-5805 connected in a network.

1 Press Δ ∇ to select "Network Option", then press ENTER.

2 Press \triangleleft \triangleright to select "OFF", then press ENTER.

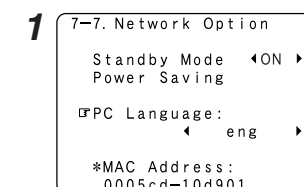


Setting the PC Language

Select according to the language of the computer being used. The languages are indicated with three letters conforming to ISO639-2.

1 Press Δ ∇ to select "PC Language", then press \triangleleft \triangleright to select the PC language.

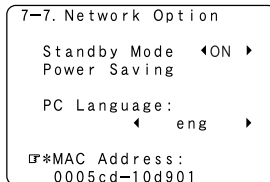
2 Press ENTER.



System Setup

☐ Checking the MAC Address

The AVR-5805's MAC address is displayed.
The MAC address differs for each set.



Network Audio Function

The AVR-5805 can be connected to a network by cable to listen to Internet radio or music files stored on computers.

Internet radio function

Internet radio refers to radio programs broadcast over the Internet. There are many stations throughout the world broadcasting Internet radio programs. These stations are of all sizes and types, some run by individuals, others by ground wave broadcast stations.

While ground wave radio stations can only be listened to within the range in which the waves reach, Internet radio can be listened to anywhere in the world.

The AVR-5805 is equipped with the following Internet radio functions:

- Stations can be selected by genre and region.
- Up to 56 Internet radio stations can be preset.
- MP3 format Internet radio programs can be listened to.
- Your favorite radio stations can be registered by accessing the exclusive DENON Internet radio URL using a computer's browser. (The AV receiver automatically downloads the registration settings (approximately once every other day).) (This is managed separately for each unit, so a MAC address or e-mail address must be registered.)

※ Exclusive URL : <http://www.radiodenon.com> (accessible after connection to an Internet radio station.)

vTuner

The AVR-5805's Internet radio station list uses "vTuner", a radio station database service. This database service is edited and prepared for the AVR-5805.

Music server function

The AVR-5805 is equipped with a network audio playback function allowing music files stored on a computer to be played via a LAN (Local Area Network).

The AVR-5805's network audio playback function connects to servers using the following technologies:

- Windows Media Connect
- The Designed to DLNA Guideline
- Windows Media DRM 10 (for network devices)

System requirements

The preparations described below must be made in order to use the Internet radio and music server functions.

Broadband Internet connection

A broadband connection to the Internet is necessary in order to use the AVR-5805's Internet radio function.

NOTE:

- **You must have a contract with an Internet Service Provider (ISP) in order to connect to the Internet.** For instructions on connecting to the Internet, contact your ISP or a computer store. If you already have a broadband Internet connection there is no need to take out another contract.

Network Audio Function

Modem

A modem is a device for exchanging signals over the Internet using a broadband connection. Some are integrated into routers. For instructions on connecting to the Internet, contact your ISP or a computer store.

Router

A router is a device for connecting multiple pieces of equipment (computers, the AVR-5805, etc.) to the Internet simultaneously. When using the AVR-5805, we recommend a router equipped with the following functions:

- Built-in DHCP (Dynamic Host Configuration Protocol) server.
Function for automatically assigning the device's IP address on the LAN.
- Built-in 100BASE-TX switch
When connecting multiple devices, it is recommended to have a built-in switching hub with a speed of 100 Mbps or greater.

NOTE:

- The type of router that can be used differs for different ISPs. For details, contact your ISP or a computer store.

Ethernet cable (CAT-5)

The AVR-5805 does not come with an Ethernet cable. Purchase one of the required length.
Some flat type Ethernet cables are easily affected by noise. We recommend using a normal type cable.
If the sound is broken in an environment with the electric products subject to much power noise or a noisy network environment, use a shielded type Ethernet cable. This could improve the sound.

Personal computer

Install "Windows Media Connect" on your computer.
The required system for forming a music server is as described below.

- 1) OS (Operating System):
Windows® XP Service pack2
- 2) Processor:
Intel PentiumII or AMD processor, etc..
We recommend 1 GHz or greater.
- 3) RAM:
Min. 128 MB, we recommend 256 MB or greater.
- 4) Software:
.NET Framework 1.1
- 5) Internet browser:
Microsoft Internet Explorer 5.01 or later

- LAN port required
- 300 MB or greater free hard disc space required

※ Extra free space is necessary to store music files.
The following table gives an approximate estimate of the required free space.

Format	Bit rate	Per one minute	Per one hour
MP3 / WMA	128 kbps	1 MB	60 MB
	192 kbps	1.5 MB	90 MB
	256 kbps	2 MB	120 MB
	392 kbps	3 MB	180 MB
WAV (LPCM)	1400 kbps	10 MB	600 MB

Network Audio Function

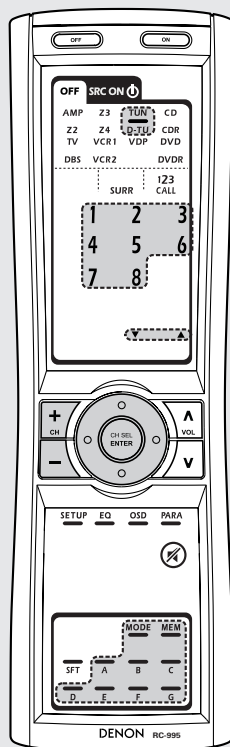
Others

- When the contract with your provider is of the type by which the network settings are made manually, you must make the "Setting the Network Setup" (page 7, 8).
- The AVR-5805 is not compatible with PPPoE. If your contract is of the PPPoE setting type, you need a PPPoE-compatible router.
- For some ISPs (Internet Service Providers), you may have to make proxy server settings in order to use the Internet radio function. If proxy server settings for connecting to the Internet have been made on the computer, make the same settings on the AVR-5805.
- The AVR-5805 is designed to make the network settings automatically using the DHCP and Auto IP functions.

Network Audio Function

TUN (Tuner) / D-TU (Digital Tuner) system buttons

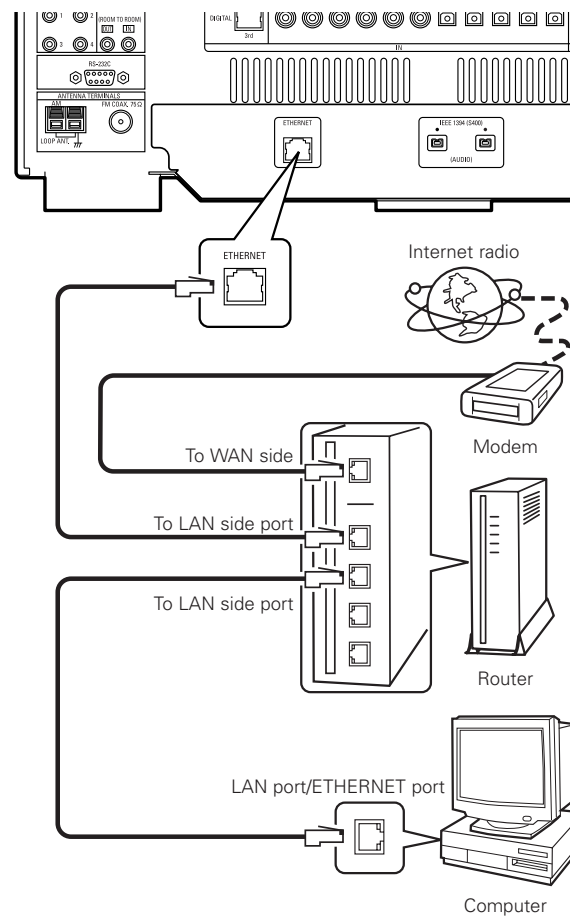
The TUN / D-TU system buttons shown on the diagram below are used for Network Audio operations.



- ▲, ▼ : Character search
- MODE : Configuration mode selection
- MEM : Preset and favorite registration
- CH +, - : Preset channel selection
- A ~ G : Preset memory blocks
- 1 ~ 8 : Preset numbers
- ▲, ▼, ◀, ▶ : Cursor up, down, left and right
- ENTER : Enter settings

Connections

Connect one side of the Ethernet cable (CAT-5) to the ETHERNET terminal on the AVR-5805's rear panel, the other side to the router.



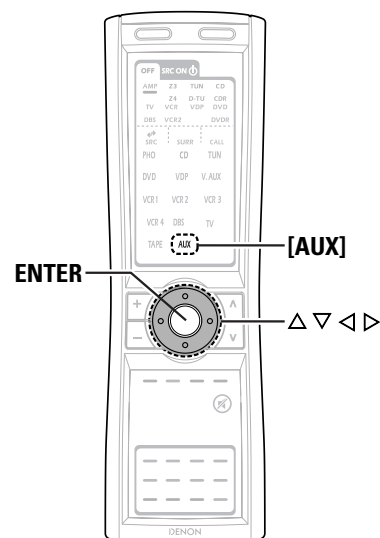
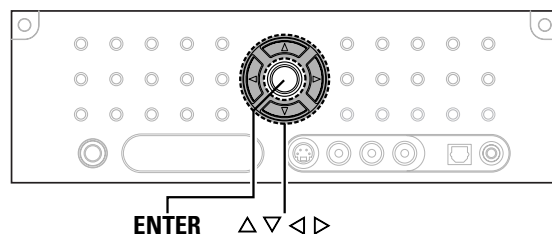
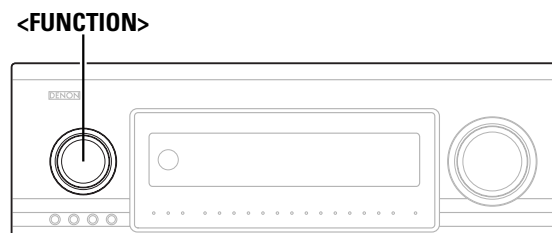
Network Audio Function

Network settings

When using a broadband router (DHCP function), the network settings are made automatically, so there is no need to make the settings from the setup menu.

If the broadband router's DHCP function is turned off, make the "Network Setup" (page 7, 8).

Network Audio Function



About the button names in this explanation

< > : 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 Internet radio

The required system connections and settings must be made in order to listen to Internet radio.

"Update?" appears on the display when connecting to an Internet radio station for the first time.

1 Use <FUNCTION> to select "AUX" or press [AUX] (AMP mode).

2 Press Δ ∇ to select "Internet Radio", then press ENTER or ▶.

- The initial screen when not connected to the Internet is displayed.

3 Connecting to an Internet radio station for the first time:
Press ENTER or ▶.

4 Press ENTER or ▶ once again.

- The latest list of radio stations is downloaded from the vTuner site. (Several minutes are required for this download.)

5 Press Δ ∇ to select the desired setting item, then press ENTER or ▶.

- ※ Finally, the list of Internet radio stations is displayed and those that can be played are indicated by the "*" mark in front of them.

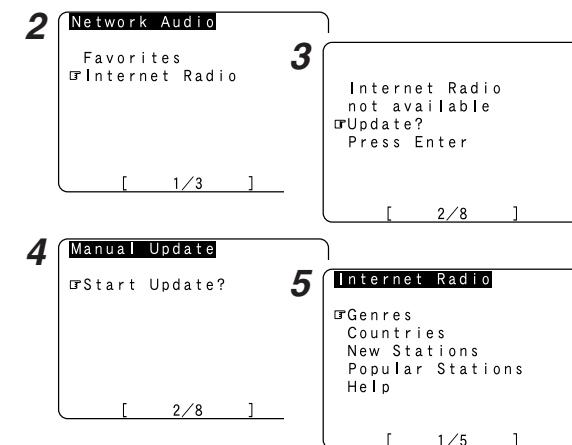
6 Press Δ ∇ to select the desired radio station, then press ENTER or ▶.

- Connection starts, and the station starts playing once the buffer reaches "100 %".

- ※ During playback, press ENTER once to pause playback, then press ENTER again to resume playback.

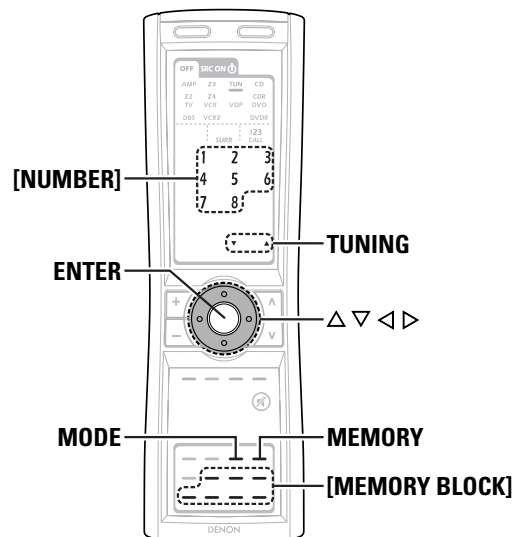
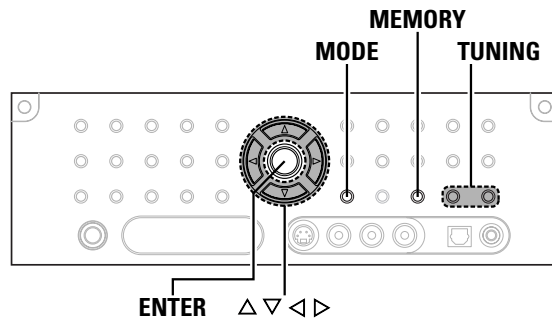
- ※ If ENTER is pressed and held in for more than two seconds when in the play or pause mode, playback stops and the previous menu window reappears.

Network Audio Function



- There are many Internet radio stations on the Internet. The programs they broadcast and their bit rates vary widely. Generally, the higher the bit rate, the higher the sound quality, but streamed music or sound may be broken if the communication lines or servers are busy. Inversely, programs with low bit rates have lower sound quality but tend to be more stable.
- "Server Full" or "Connection Down" is displayed if the station is congested or if it is not broadcasting.
- If you do not want the on screen display to be displayed while playing Network Audio (internet radio, music server), set "Function/Mode Status" at "Setting the On Screen Display" to "OFF" (Refer to page 77, 78 for operating instructions).

Network Audio Function



About the button names in this explanation

< > : Buttons on the main unit

[] : Buttons on the remote control unit

Button name only :

Buttons on the main unit and remote control unit

Presetting (registering) Internet radio stations

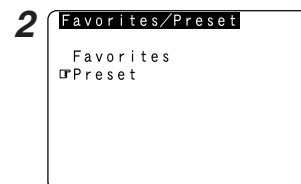
There are two ways to register stations: by presetting them or by storing them in your favorites. Stations that are preset can be tuned in directly from the remote control unit.

1 Press **MEMORY** while playing the Internet radio station you want to register.

2 Press $\Delta \nabla$ to select “Preset”, then press **ENTER** or \triangleright .

3 Press **[MEMORY BLOCK]** (A ~ G), then press **[NUMBER]** (1 ~ 8) to register the station at the desired preset channel.
• This completes registration.

- ※ If no button is operated for approximately ten seconds, the regular display reappears.
- ※ Registered presettings can be checked on the on screen display. The presettings can only be displayed with the on screen display when the “AUX” function is selected.



NOTE:

- Registered presettings are deleted when they are overwritten.

Network Audio Function

Listening to preset Internet radio stations

When the “AUX” function is selected, press **[MEMORY BLOCK]** (A ~ G), then press **[NUMBER]** (1 ~ 8).

- The connection is made automatically and playback starts.

Registering Internet radio stations in your favorites

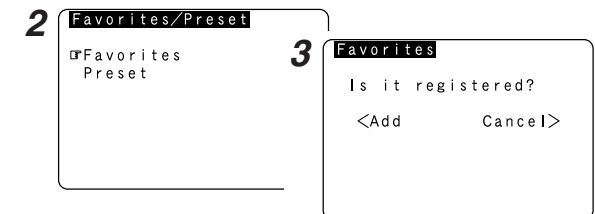
Your favorites are listed at the top of the menu screen, so registered stations can be tuned in easily.

1 Press **MEMORY** while playing the Internet radio station you want to register.

2 Press $\Delta \nabla$ to select “Favorites”, then press **ENTER** or \triangleright .

3 Press \triangleleft to register the station.

- ※ To cancel without registering, press \triangleright .



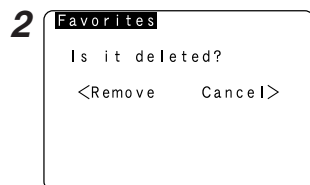
Network Audio Function

Listening to Internet radio stations registered in your favorites

- 1** When the “AUX” function is selected, press $\triangle \nabla$ to select “Favorites”, then press **ENTER** or \triangleright .
 - The Internet radio stations registered in your favorites are displayed.
- 2** Press $\triangle \nabla$ to select the desired radio station, then press **ENTER** or \triangleright .
 - Playback starts.

Deleting radio stations from your favorites

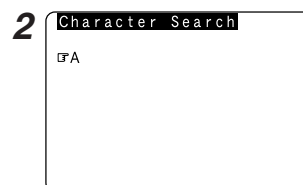
- 1** At the screen on which the Internet radio stations registered in your favorites are displayed, press $\triangle \nabla$ to choose the radio station you want to delete, then press **MEMORY**.
- 2** Press \triangleleft to delete the station.
 - ※ To cancel without deleting, press \triangleright .



Character search function (searching by first letter)

The character search function (searching by first letter) can be used to select the desired item from the menu screen displaying the list of Internet radio stations or music files stored on the computer.

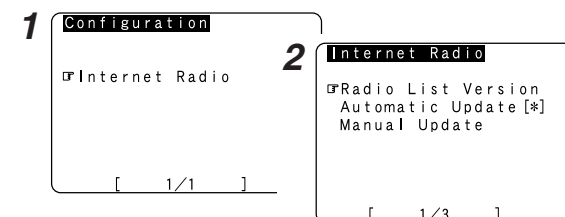
- 1** While the menu screen is displayed, press **TUNING**.
- 2** Press **TUNING** to select the first letter of the item you want to search for.
 - After several seconds, the menu screen is displayed with the cursor set to the item starting with the letter selected in step 2.
 - ※ If there is more than one item starting with the letter selected in step 2, the items are displayed in alphabetical order.



Network Audio Function

Updating the list of radio stations

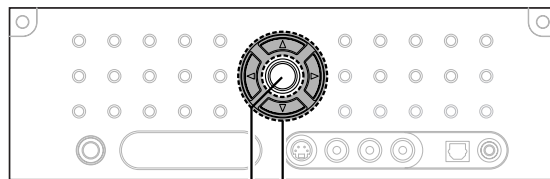
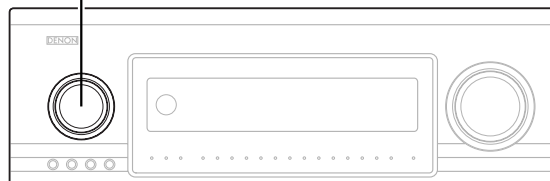
- 1** Press **MODE** to select the configuration mode, then press **ENTER** or \triangleright .
- 2** Press $\triangle \nabla$ to select “Automatic Update” or “Manual Update”, then press **ENTER** or \triangleright .
 - ※ Select “Radio List Version” to display the current version.
- 3** When “Automatic Update” is selected: Press **ENTER** or \triangleright to select “Yes”.
 - 1 • The list of radio stations is updated approximately once every other day.
- 3** When “Manual Update” is selected: Press **ENTER** or \triangleright .
 - 2 • The list of radio stations is updated this one time.
- 4** Press **MODE**.



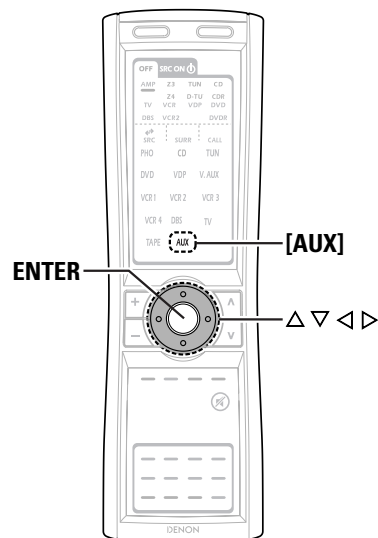
- When “Yes” is set for “Automatic Update”, set “Power Saving” in the “Network Setup” to “OFF” (page 8). When used with “Power Saving” set to “ON”, we recommend performing the “Manual Update” procedure periodically (about once a week).

Network Audio Function

<FUNCTION>



ENTER Δ ∇ ◀ ▶



About the button names in this explanation

< > : Buttons on the main unit

[] : Buttons on the remote control unit

Button name only :

Buttons on the main unit and remote control unit

Playing music files stored on the computer (music server)

The necessary system connections and settings must be made in order to play music files.

This procedure is used to play music files (in WMA, MP3 and WAV format) stored on computers (music servers) connected to the AVR-5805 via the network.

The computer's server program must be launched before using this function. For details, refer to the server program's operating instructions.

1 Use <FUNCTION> to select "AUX" or press [AUX] (AMP mode).

2 Press Δ ∇ to select the host name of the computer (music server) on which the music file you want to play is located, then press ENTER or ▶.

3 Press Δ ∇ to select the search item or the desired folder, then press ENTER or ▶.

※ Playable music files are indicated by the "*" mark in front of them.

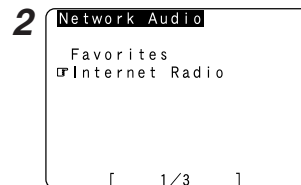
4 Press Δ ∇ to select the music file, then press ENTER or ▶.

- Connection starts, and playback starts once the buffer reaches "100 %".

※ Press ∇ to select the next file, Δ to select the previous file.

※ During playback, press ENTER once to pause playback, then press ENTER again to resume playback.

※ If ENTER is pressed and held in for more than 2 seconds when in the play or pause mode, playback stops and the previous menu screen reappears.



Network Audio Function

Playing music files that have been preset or registered in your favorites

The same operations as for Internet radio stations can be used to preset music files or register them in your favorites and play them.

NOTE:

- Registered presettings are deleted when they are overwritten.
- When the operations describe below are performed, the music server database is updated and it may no longer be possible to play the music files that have been preset or registered in your favorites:
 - When the music server is stopped and restarted.
 - When music files are deleted from or added to the music server.
- When using an ESCIENT server, place "ESCIENT" before the server name.

Operating the AVR-5805 using a browser

Internet Explorer can be used on the computer connected to the AVR-5805 over the network to operate the AVR-5805.

Check the AVR-5805's IP address (page 7) beforehand and input this IP address in Internet Explorer to display the AVR-5805's control panel.

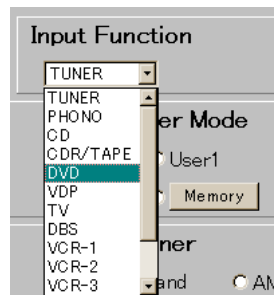
Operate in the same way as with normal Internet browsing to control the AVR-5805.

Network Audio Function

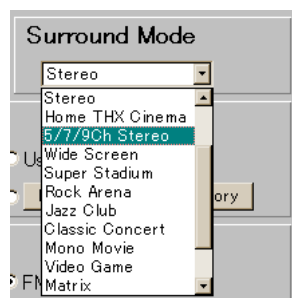
Examples of web control operation screens

The settings of the setup items are the same as with normal operations. Refer to page 26 ~ 112 for operating instructions. Below are some examples of operation screens.

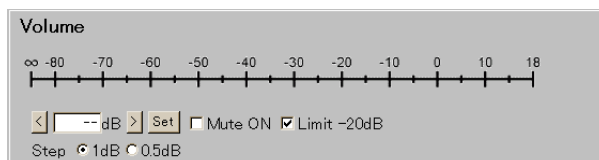
[Function selection screen]



[Surround mode selection screen]



[Volume control screen]

**NOTE:**

- To use this function, set "Power Saving" at "Network Option" under "Network Setup" to "OFF" (page 8).

Additional Information

Windows Media Connect

This is a media server provided free of charge by Microsoft since October 2004.

It operates with all types of music jukebox programs, but is optimum with Windows Media Player Ver. 10.

Windows Media Connect can be used to play playlists created on jukebox software such as Windows Media Player Ver. 10, as well as WMA, DRM WMA, MP3 and WAV files.

Explanation for installing Windows Media Connect

1. If installation of Windows XP Service Pack 2 is not yet complete, either download free of charge from Microsoft or via the Windows Update installer.
2. Download the latest version of Windows Media Player Ver. 10 either directly from Microsoft or using the Windows Update installer.
3. Download Windows Media Connect (usable since October 12, 2004) either directly from Microsoft or using the Windows Update installer.

vTuner

This is an Internet radio free online contents server. Note that usage fees are included in upgrade costs.

For inquiries about this service, visit the vTuner site below.

vTuner website: <http://www.radiodenon.com>

This product is protected by certain intellectual property rights of Nothing Else Matters Software and BridgeCo. Use or distribution of such technology outside of this product is prohibited without a license from Nothing Else Matters Software and BridgeCo or an authorized subsidiary.

Windows Media DRM

A copyright-protected technology developed by Microsoft.

- The PlaysForSure logo, Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Content providers are using the digital rights management technology for Windows Media contained in this device ("WM-DRM") to protect the integrity of their content ("Secure Content") so that their intellectual property, including copyright, in such content is not misappropriated. This device uses WM-DRM software to play Secure Content ("WM-DRM Software"). If the security of the WM-DRM Software in this device has been compromised, owners of Secure Content ("Secure Content Owners") may request that Microsoft revoke the WM-DRM Software's right to acquire new licenses to copy, display and/or play Secure Content. Revocation does not alter the WM-DRM Software's ability to play unprotected content. A list of revoked WM-DRM Software is sent to your device whenever you download a license for Secure Content from the Internet or from PC. Microsoft may, in conjunction with such license, also download revocation list onto your device on behalf of Secure Content Owners.



DENON

TOKYO, JAPAN
www.denon.com

Denon Brand Company, D&M Holdings Inc.
Printed in Japan 00D 511 4526 006