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## Chapter 1: Features

### About this operation manual

The Home Media Gallery feature of this receiver allows you to play back audio files or listen to Internet radio stations through your PC or other components connected to the LAN terminal on this receiver. Also, the Home Media Gallery lets you play back audio files stored on your USB memory device connected to the USB terminal on this receiver. This operation manual describes the connection, setup, and playback procedures required to enjoy these features. It is advisory that you also refer to the operation manual supplied with your network component.

### Features of Home Media Gallery

This receiver is equipped with the LAN terminal and the USB terminal, and you can enjoy the following features by connecting your components to these terminals.

- **Playback the music files stored in PCs<sup>1</sup>**

You can playback a lot of musics stored in your PCs using this unit.

→ See *Playback with Home Media Gallery* on page 4 and *Playing back audio files stored on components on the network* on page 6.

- **Listening to Internet radio stations**

You can select and listen to your favorite Internet radio station from the list of Internet radio stations created, edited, and managed by the vTuner database service exclusively for use with the Pioneer products. Also, you can listen to Internet radio station managed by Neural THX.

→ See *Playback with Home Media Gallery* on page 4 and *Listening to Internet radio stations* and *Listening to Neural Music Direct* on page 7.

- **Playing back audio files stored on a USB memory device**

You can directly play back your desired song right from the folder/file list being displayed on the screen.

→ See *Playback with Home Media Gallery* on page 4 and *Playing back audio files stored on a USB memory device* on page 6.

### Steps to enjoy the Home Media Gallery

#### Playing back audio files on the network and listening to Internet radio stations

- 1 **Connect to the network through LAN interface.**

See *Connecting to the network through LAN interface* on page 3 for more on this.

- 2 **Configure the network settings.**

The setup is necessary only when the router to be connected does not have the built-in DHCP server function.

See *Setting up the network* on page 10 for more on this.

- 3 **Playback with Home Media Gallery.**

See *Playback with Home Media Gallery* on page 4 for more on this.

#### Playing back audio files stored on a USB memory device

- 1 **Connect USB memory device to the USB terminal.**

See *Using the USB interface* on page 3 for more on this.

- 2 **Playback with Home Media Gallery.**

See *Playback with Home Media Gallery* on page 4 for more on this.

#### Note

<sup>1</sup> Besides a PC, you can also play back audio files stored on your other components with the built-in media server function based on DLNA 1.0 framework and protocols (i.e. network-capable hard disks and audio systems).

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... (Service Provider) beforehand.

... play back copyrighted audio files on this receiver.

... portable flash memory (particularly keydrives) and digital audio players (MP3 players) ...  
... personal computer for USB playback.

... (bus power) with all USB mass storage devices and assumes no responsibility for any loss of

## Chapter 3:

# Playback with Home Media Gallery

## Introduction

The Home Media Gallery allows you to play music on media servers connected on an identical Local Area Network (LAN) as the receiver. This unit allows for the playing of files stored on the following:

- PCs running Microsoft Windows XP with Windows Media Connect installed
- PCs running Microsoft Windows Vista or XP with Windows Media Player 11 installed
- DLNA-compatible digital media servers (on PCs or other components)

To play back audio files stored on components on the network or listen to Internet radio stations, you must turn on the DHCP server function of your router. In case your router does not have the built-in DHCP server function, it is necessary to set up the network manually. Otherwise, you cannot play back audio files stored on components on the network or listen to Internet radio stations. See *Setting up the network* on page 10 for more on this.

## About network playback

The network playback function of this unit uses the following technologies:

### Windows Media Connect

See *Windows Media Player 11/Windows Media Connect* on page 17 for more on this.

### PlaysForSure



PlaysForSure is a marketing certification given by Microsoft. The PlaysForSure logo makes it easy to find digital media stores and devices that work together. Digital media purchased from online stores carrying the PlaysForSure logo is available for use on this unit.

This unit complies with PlaysForSure Requirements Specification for Network Devices Version 2.01.

*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.*

## Windows Media DRM

Microsoft Windows Media Digital Rights Management (WMDRM) is a platform to protect and securely deliver content for playback on computers, portable devices and network devices. Home Media Gallery functions as a WMDRM 10 for networked devices. WMDRM protected content can only be played on media servers supporting WMDRM.

*Content owners use WMDRM technology to protect their intellectual property, including copyrights. This device uses WMDRM software to access WMDRM protected content. If the WMDRM software fails to protect the content, content owners may ask Microsoft to revoke the software's ability to use WMDRM to play or copy protected content. Revocation does not affect unprotected content. When you download licenses for protected content, you agree that Microsoft may include a revocation list with the licenses. Content owners may require you to upgrade WMDRM to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade.*

*This product is protected by certain intellectual property rights of Microsoft. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft.*

## DLNA



*DLNA CERTIFIED™ Audio Player*

The Digital Living Network Alliance (DLNA) is a cross-industry organization of consumer electronics, computing industry and mobile device companies. Digital Living provides consumers with easy sharing of digital media through a wired or wireless network in the home.

The DLNA certification logo makes it easy to find products that comply with the DLNA Interoperability Guidelines. This unit complies with DLNA Interoperability Guidelines v1.0.

When a PC running DLNA server software or other DLNA compatible device is connected to this player, some setting changes of software or other devices may be required. Please refer to the operating instructions for the software or device for more information.

*DLNA and DLNA CERTIFIED are trademarks and/or service marks of Digital Living Network Alliance.*

### Content playable over a network

- Even when encoded in a compatible format, some files may not play correctly.
- Movie and photo files cannot be played back.
- There are cases where you cannot listen to an Internet radio station even if the station can be selected from a list of radio stations.
- Some functions may not be supported depending on the server type or version used.
- Supported file formats vary by server. As such, files not supported by your server are not displayed on this unit. For more information check with the manufacturer of your server.

### About playback behavior over a network

- Playback may stall when the PC is switched off or any media files stored on it are deleted while playing content.
- If there are problems within the network environment (heavy network traffic, etc.) content may not be displayed or played properly (playback may be interrupted or stalled). For best performance, a

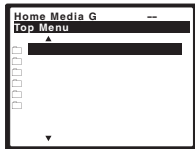
100BASE-TX connection betw024 Tcc.2(a) (ma)-e2(au(r bd the PC(ck.) T T 040003 Tc0 T.1(omm1(th)nd( used.) T -1 -1.5177 TD0

u n n h c f f o

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**1 Press HOME MEDIA GALLERY (press iPod while you press and hold SHIFT) to select HMG as the input source.**

It may take several seconds for this receiver to access the network. The following screen appears when the Home Media Gallery is selected as the input source.



The server without the  mark cannot be accessed.

**2 Use ↑/↓ to select the category you want to play back, and then press ENTER.**

Select a category from the following list:

- **USB** – USB memory device
- **Internet Radio** – Internet radio
- **Neural Music Direct** – Internet radio that supports Neural Surround
- **Server Name** – Server components on the network
- **Favorites** – Favorite songs currently being registered

Depending on the selected category, the names of folders, files, and Internet radio stations are displayed.

**3 Use ↑/↓ to select the folder, music file or Internet radio station to play back, and then press ENTER.**



Press the ↑/↓ buttons to scroll up and down the list and select the desired item. When you press **ENTER**, playback starts with the playback screen being displayed for the selected item. To return to the list screen, press **RETURN**.

- In case of a USB memory device or a server

→

- In case of Internet radio

→

Only the audio files with the  mark can be played back. In case of the folders with the  mark, use ↑/↓ and **ENTER** to select the desired folder and audio file.

**4 Repeat Step 3 to play back the desired song.**

You can perform the following operations with the remote control of this receiver. Note that some buttons are not available for operation depending on the category currently being played back.

### Playing back audio files stored on components on the network

#### About the playback screen

The following screen appears when you play back audio files. Note that some items may not be displayed depending on the type of file.

### Playing back audio files stored on a USB memory device

The maximum number of levels that you can select in Steps 3 and 4 is 8. Also, you can display and play back up to 2000 folders and files within a single folder.<sup>1</sup>

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...net access. With a 56 K or ISDN modem, you may not enjoy the full  
...back the firewall settings.  
...service is subject to change or deletion without notice due to various reasons.  
...the Internet radio station. In this case, you cannot listen to a radio station selected from the

### About playable file formats

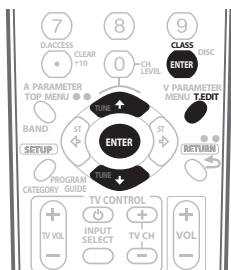
The Home Media Gallery feature of this receiver supports the following file formats. Note that some file formats are not available for playback although they are listed as playable file formats. Also, the compatibility of file formats varies depending on the type of server. Check with your server to ensure the compatibility of file formats supported by your server.

Category	Extension	Stream		
<b>MP3</b>	.mp3	MPEG-1 Audio Layer-3	Sampling frequency	8 kHz to 48 kHz
			Quantization bitrate	16 bit
			Channel	2 ch
			Bitrate	8 kbps to 320 kbps
			VBR/CBR	Supported/Supported
<b>LPCM</b>	—	LPCM	Sampling frequency	8 kHz to 44.1 kHz
			Quantization bitrate	16 bit, 20 bit, 24 bit
			Channel	2 ch
<b>WAV</b>	.wav	LPCM	Sampling frequency	8 kHz to 44.1 kHz
			Quantization bitrate	16 bit, 20 bit, 24 bit
			Channel	2 ch
<b>WMA</b>	.wma	WMA2/7/8	Sampling frequency	8 kHz to 48 kHz
			Quantization bitrate	16 bit
			Channel	2 ch
			Bitrate	5 kbps to 320 kbps
			VBR/CBR	Supported/Supported
		WMA9	Sampling frequency	8 kHz to 48 kHz
			Quantization bitrate	16 bit
			Channel	2 ch
			Bitrate	5 kbps to 320 kbps
			VBR/CBR	Supported/Supported
<b>AAC</b>	.m4a .aac .3gp .3g2	MPEG-4 AAC LC MPEG-4 HE AAC (aacPlus v1/2)	Sampling frequency	32 kHz to 48 kHz
			Quantization bitrate	16 bit
			Channel	2 ch
			Bitrate	16 kbps to 320 kbps
			VBR/CBR	Supported/Supported
<b>FLAC</b>	.flac	FLAC	Sampling frequency	8 kHz, 16 kHz, 22 kHz, 32 kHz, 44.1 kHz, 48 kHz
			Quantization bitrate	8 bit, 16 bit
			Channel	2 ch (8-bit monaural audio is not supported)
			Bitrate	—
			VBR/CBR	Not supported/Supported

*\*MPEG Layer-3 audio decoding technology licensed from  
Fraunhofer IIS and Thomson multimedia.\**



## Advanced operations for Internet radio



### Saving Internet radio stations

This receiver can remember the Internet radio stations that you often listen to in 3 classes (A, B, and C) with up to 10 stations in each class to make the total of 30 stations at its maximum capacity.

Before proceeding with the following steps, check whether you have followed Steps 1 to 3 on page 6.

#### 1 Tune into the Internet radio station that you want to save.

Tune into the desired Internet radio station by following Steps 1 to 3 on page 6.

#### 2 Press T.EDIT to switch to the station-saving mode.

#### 3 Press CLASS to select the class that you want to save the station in.

Select the desired class from A, B, and C.

#### 4 Use ↑/↓ to select the number that you want to save the station as, and then press ENTER.

You can also select the station number by using the number buttons. Select the desired number from 0 to 9.

### Retrieving saved Internet radio stations

You need to save Internet radio stations first before retrieving them. If there are no Internet radio stations currently being saved, see *Saving Internet radio stations* above and save at least one Internet radio station before proceeding with the following steps.

#### 1 Select the class that you want to retrieve an Internet radio station from.

Each time you press **CLASS**, the class switches to A, B, and C in turn.

#### 2 Use ↑/↓ to select the station number that you want to retrieve.

You can also select the station number by using the number buttons.

'Preset Not Stored' appears when you select an Internet radio station currently not being saved.

## Chapter 4: Setup

### Setting up the network

In case the router connected to the LAN terminal on this receiver is a broadband router (with the built-in DHCP server function), simply turn on the DHCP server function, and you will not need to set up the network manually. You must set up the network as described below only when you have connected this receiver to a server without the DHCP server function. Before you set up the network, consult with your ISP or the network manager for the required settings. It is advisory that you also refer to the operation manual supplied with your network component.<sup>1</sup>

#### IP Address

The IP address to be entered must be defined within the following ranges. If the IP address defined is beyond the following ranges, you cannot play back audio files stored on components on the network or listen to Internet radio stations.

Class A: 10.0.0.1 to 10.255.255.254

Class B: 172.16.0.1 to 172.31.255.254

Class C: 192.168.0.1 to 192.168.255.254

#### Subnet Mask

In case an xDSL modem or a terminal adapter is directly connected to this receiver, enter the subnet mask provided by your ISP on paper. In most of the cases, enter 255.255.255.0.

#### Gateway IP

In case a gateway (router) is connected to this receiver, enter the corresponding IP address.

#### DNS Server Preferred/DNS Server Alternate

In case there is only one DNS server address provided by your ISP on paper, enter '**DNS Server Preferred**'. In case there are more than two DNS server addresses, enter '**DNS Server Alternate**' in the other DNS server address field.

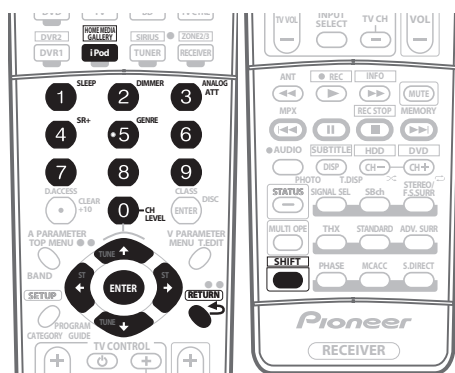
#### Proxy Hostname/Proxy Port

This setting is required when you connect this receiver to the Internet via a proxy server. Enter the IP address of your proxy server in the '**Proxy Hostname**' field. Also, enter the port number of your proxy server in the '**Proxy Port**' field.



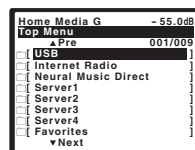
#### Tip

- Press **↑/↓** or the numeric buttons to enter alphanumeric characters. To delete alphanumeric characters entered one at a time, press **←** or **CLEAR**. '**Cancel Key Editing Lose Changes?**' appears when you press **RETURN** or **←** while the cursor is placed in the leftmost position on the alphanumeric character entry screen. In this case, press **ENTER** to exit from the screen and **RETURN** to return to the screen.



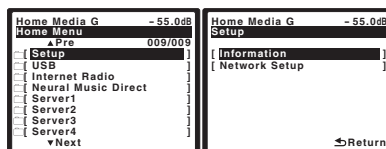
- 1 Press **HOME MEDIA GALLERY** (press iPod while you press and hold **SHIFT**) to select **HMG** as the input source.

It may take several seconds for this receiver to access the network. The following screen appears when the Home Media Gallery is selected as the input source.



- 2 Select '**Setup**' and press **ENTER** to confirm your selection.

The '**Setup**' screen appears.



#### Note

<sup>1</sup> In case you make changes to the network configuration without the DHCP server function, make the corresponding changes to the network settings of this receiver.

**3 Select 'Network Setup' and press ENTER to confirm your selection.**

The **'Network Connection'** screen appears.

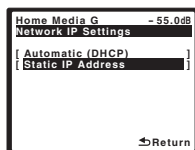
**4 Either 'Network Found' or 'No Network Found' appears. Check the network connection status and press ENTER.**

- **Network Found** – Connected to a component on the network.
- **No Network Found** – Not connected to a component on the network.

The **'Network IP Settings'** screen appears.

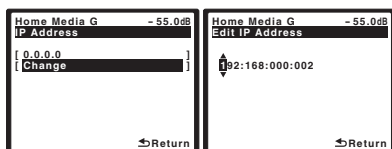
**5 Select 'Static IP Address' and press ENTER to confirm your selection.**

The **'IP Address'** screen appears. When you select **'Automatic (DHCP)'**, the network is automatically set up, and you do not need to follow Steps 6 to 15. Proceed with Step 16.



**6 Select 'Change' and press ENTER to confirm your selection.**

The **'Edit IP Address'** screen appears.

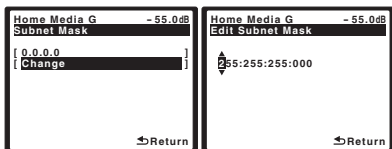


**7 Enter the IP address.**

Press the **↑/↓** buttons to select a number and the **←/→** buttons to move the cursor. After you select the last number, press the **→** button or **ENTER**. You can also use the numeric buttons to enter a number. The **'Subnet Mask'** screen appears.

**8 Select 'Change' and press ENTER to confirm your selection.**

The **'Edit Subnet Mask'** screen appears.

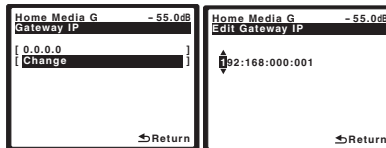


**9 Enter the subnet mask.**

After entry, press the **→** button or **ENTER**. The **'Gateway IP'** screen appears.

**10 Select 'Change' and press ENTER to confirm your selection.**

The **'Edit Gateway'** screen appears.

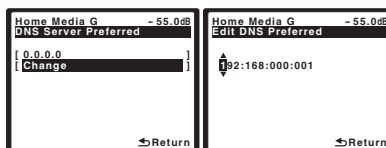


**11 Enter the default gateway IP address.**

After entry, press the **→** button or **ENTER**. The **'DNS Server Preferred'** screen appears.

**12 Select 'Change' and press ENTER to confirm your selection.**

The **'Edit DNS Preferred'** screen appears.

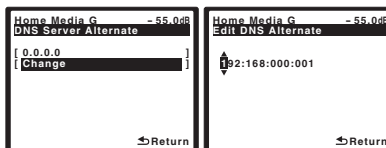


**13 Enter the preferred DNS server address.**

After entry, press the **→** button or **ENTER**. The **'DNS Server Alternate'** screen appears.

**14 Select 'Change' and press ENTER to confirm your selection.**

The **'Edit DNS Alternate'** screen appears.



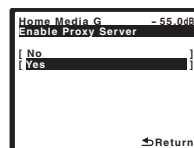
**15 Enter the alternate DNS server address.**

In case there is only one DNS address, you do not need to enter the alternate DNS server address.

After entry, press the **→** button or **ENTER**. The **'Enable Proxy Server'** screen appears.

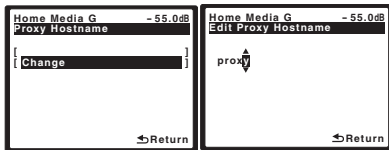
**16 Select 'No' or 'Yes' for the proxy server setting to deactivate or activate the proxy server.**

In case you select **'No'**, proceed with Step 21. In case you select **'Yes'**, on the other hand, proceed with Step 17. The **'Proxy Hostname'** screen appears.



### 17 Select 'Change' and press ENTER to confirm your selection.

The 'Edit Proxy Hostname' screen appears.

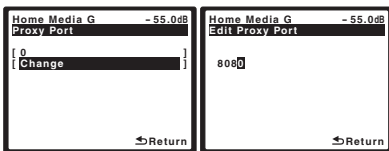


### 18 Enter the address of your proxy server or the domain name.

After entry, press the  $\rightarrow$  button or ENTER. The 'Proxy Port' screen appears.

### 19 Select 'Change' and press ENTER to confirm your selection.

The 'Edit Proxy Port' screen appears.



### 20 Enter the port number of your proxy server.

Use the numeric buttons to enter the port number. After entry, press the  $\rightarrow$  button or ENTER. The 'Setting OK?' screen appears.

### 21 Press ENTER to complete the network setup procedure.

The 'Top Menu' screen appears.

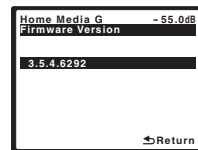
## Checking the network settings

You can check the following network settings of this receiver: the MAC address, the IP address, the gateway IP address, the proxy server, the Subnet mask, and the firmware version (for the Home Media Gallery of this receiver).

Before proceeding with the following steps, check whether you have followed Steps 1 and 2 on page 10.

### 3 Select 'Information' and press ENTER to confirm your selection.

The 'Firmware Version' (for the Home Media Gallery of this receiver) screen appears.



(The version of the illustration is not the latest.)

### 4 Check the network settings.

Press the  $\uparrow/\downarrow$  buttons to switch the display. Each time you press the  $\uparrow/\downarrow$  buttons, the display switches as follows.

**Firmware Version**  $\leftrightarrow$  **MAC Address**  $\leftrightarrow$   
**IP Address**  $\leftrightarrow$  **Gateway IP**  $\leftrightarrow$  **Proxy Server**  $\leftrightarrow$   
**Subnet Mask**

### 5 Press RETURN.

The 'Setup' screen appears. To return to the 'Top Menu' screen, press RETURN again.

## Chapter 5: Additional information

### Troubleshooting

Refer to the following information if you come up with a problem. Operational mistakes may be misunderstood as mechanical problems. Also, the cause of a problem may lie elsewhere other than this receiver. Check your audio components on the network as well as your USB memory device. If problems persist or if the following information does not provide you with an appropriate remedy, consult with your nearest Pioneer service center.

Symptoms	Causes	Remedies	Refer to
Cannot access the network.	The LAN cable is not firmly connected.	Firmly connect the LAN cable.	3
	The router is not switched on.	Switch on the router.	—
	Internet security software is currently installed in the connected component.	There are cases where a component with Internet security software installed cannot be accessed.	—
	The audio component on the network which has been switched off is switched on.	Switch on the audio component on the network before switching on this receiver.	—
Playback does not start while 'Connecting...' continues to be displayed.	The component is currently disconnected from this receiver or the power supply.	Check whether the component is properly connected to this receiver or the power supply.	—
The PC or Internet radio is not properly operated.	The corresponding IP address is not properly set.	Switch on the built-in DHCP server function of your router, or set up the network manually according to your network environment.	10
	The IP address is being automatically configured.	The automatic configuration process takes time. Please wait.	—
The audio files stored on components on the network, such as a PC, cannot be played back.	Windows Media Player 11 is not currently installed on your PC.	Install Windows Media Player 11 on your PC.	4
	Audio files were recorded in formats other than MP3, WAV (LPCM only), MPEG-4 AAC, FLAC, and WMA.	Play back audio files recorded in MP3, WAV (LPCM only), MPEG-4 AAC, FLAC, or WMA. Note that some audio files recorded in these formats may not be played back on this receiver.	—
	Audio files recorded in MPEG-4 AAC or FLAC are being played back on Windows Media Player 11 or Windows Media Connect.	Audio files recorded in MPEG-4 AAC or FLAC cannot be played back on Windows Media Player 11 or Windows Media Connect. Try using another server.	Refer to the operation manual supplied with your server.
	The component connected to the network is not properly operated.	Check whether the component is affected by special circumstances or is in the sleep mode. Try rebooting the component if necessary.	—
	The component connected to the network does not permit file sharing.	Try changing the settings for the component connected to the network.	—
	The folder stored on the component connected to the network has been deleted or damaged.	Check the folder stored on the component connected to the network.	—
Cannot access the component connected to the network.	The component connected to the network is not properly set.	If the client is automatically authorized, you need to enter the corresponding information again. Check whether the connection status is set to "Do not authorize".	—
	There are no playable audio files on the component connected to the network.	Check the audio files stored on the component connected to the network.	—

Symptoms	Causes	Remedies	Refer to
Audio playback is undesirably stopped or disturbed.	The audio file currently being played back was not recorded in a format playable on this receiver.	Check whether the audio file was recorded in a format supported by this receiver. Check whether the folder has been damaged or corrupted. Note that there are cases where even the audio files listed as playable on this receiver cannot be played back or displayed.	8
	The LAN cable is currently disconnected.	Connect the LAN cable properly.	3
	There is heavy traffic on the network with the Internet being accessed on the same network.	Use 100BASE-TX to access the components on the network.	—
Cannot access Windows Media Player 11.	You are currently logged onto the domain through your PC with Windows XP installed.	Instead of logging onto the domain, log onto the local machine.	5
Cannot listen to Internet radio stations	The firewall settings for components on the network are currently in operation.	Check the firewall settings for components on the network.	—
	You are currently disconnected from the Internet.	Check the connection settings for components on the network, and consult with your network service provider if necessary.	10
	The broadcasts from an Internet radio station are stopped or interrupted.	There are cases where you cannot listen to some Internet radio stations even when they are listed in the list of Internet radio stations on this receiver.	7, 15
The folders/files stored on a USB memory device are not displayed.	The folders/files are currently stored in a region other than the FAT (File Allocation Table) region.	Store the folders/files in the FAT region.	—
	The number of levels in a folder is more than 8.	Limit the maximum number of levels in a folder to 8.	6
	There are more than 2000 folders/files stored in a single folder.	Limit the maximum number of folders/files stored in a single folder to 2000.	6
	The audio files are copyrighted.	Copyrighted audio files stored on a USB memory device cannot be played back.	6
A USB memory device is not recognized.	The USB memory device does not support the mass storage class specifications.	Try using a USB memory device compatible with the mass storage class specifications. Note that there are cases where even the audio files stored on a USB memory device compatible with the mass storage class specifications are not played back on this receiver.	3
		Connect the USB memory device and switch on this receiver.	3
	A USB hub is currently being used.	This receiver does not support a USB hub.	3
	This receiver recognizes the USB memory device as a fraud.	Switch off and on again this receiver.	—
A USB memory device is connected and displayed, but the audio files stored on the USB memory device cannot be played back.	Some formats of a USB memory device, including FAT 12, NTFS, and HFS, cannot be played back on this receiver.	Check whether the format of your USB memory device is either FAT 16 or FAT 32. Note that the FAT 12, NTFS, and HFS formats cannot be played back on this receiver.	3
	The file format cannot be properly played back on this receiver.	See the list of file formats that can be played back on this receiver.	8
The Home Media Gallery cannot be operated with the buttons on the remote control.	The remote control is not currently set to the Home Media Gallery mode.	Press and hold <b>SHIFT</b> and press <b>iPod</b> to set the remote control to the Home Media Gallery mode.	6

## About status messages

Refer to the following information when you come up with a status message while operating the Home Media Gallery.

Status messages	Descriptions
<b>Please Wait</b>	A component on the network, including a PC, is currently being connected. Wait for a while.
<b>Connection Down</b>	The selected category or Internet radio station cannot be accessed.
<b>File Format Error</b>	Cannot be played back for some reasons.
<b>Track Not Found</b>	The selected song has not been found anywhere on the network.
<b>Server Error</b>	The selected server cannot be accessed.
<b>Server Disconnected</b>	The server has been disconnected.
<b>USB Error</b>	The amount of electricity consumption for a USB memory device is too large.
<b>Empty</b>	There are no files stored in the selected folder.
<b>Preset Not Stored</b>	The selected Internet radio station is not currently registered and saved.
<b>Network Problem</b>	There is a problem with the network settings. Check the network settings. The message also appears when the network settings of this receiver have been changed. In this case, please wait.
<b>Out of Range</b>	The value entered is beyond the permitted range of the network settings.
<b>License Error</b>	The license for the contents to be played back is invalid.

## Glossary

### Default Gateway

Default Gateway is a node on a computer network that serves as an access point to another network. A default gateway (such as a computer and router) is used to forward all traffic that is not addressed to a station within the local subnet.

### DHCP (Dynamic Host Configuration Protocol) Server

A DHCP server is a server that allocates IP addresses to hosts (network devices). In most cases, a broadband router serves as a DHCP server in a home network.

### DLNA

The Digital Living Network Alliance (DLNA) is a cross-industry organization of consumer electronics, computing industry and mobile device companies. Digital Living provides consumers with easy sharing of digital media through a wired or wireless network in the home.

The DLNA certification logo makes it easy to find products that comply with the DLNA Interoperability Guidelines. This unit complies with DLNA Interoperability Guidelines v1.0.

### DNS

DNS is an abbreviation for the Domain Name System, which stores and associates many types of information with domain names. Most importantly, DNS translates domain names (computer hostnames or sitenames, such as [www.pioneerelectronics.com](http://www.pioneerelectronics.com)) to IP addresses (such as 202.221.192.106).

### Ethernet

A frame-based computer networking technology for local area networks (LANs). This player supports 10BASE-TX and 10BASE-T.

### FLAC

FLAC (Free Lossless Audio Codec) is an audio format allows lossless codec. Audio is compressed in FLAC without any loss in quality. For more details about FLAC, visit the following website: <http://flac.sourceforge.net/>

### IP (Internet Protocol) address

A unique number that devices use in order to identify and communicate with each other on a network utilizing the Internet Protocol standard, such as '192.168.0.1'. No duplicate numbers are allowed in the network.

### LAN

LAN is an abbreviation for the Local Area Network, which is a computer network covering a small geographical area, like a home, office, or group of buildings. Current LANs are most likely to be based on switched IEEE 802.3 Ethernet technology, running at 10, 100, or 1000 Mbit/s, or on IEEE 802.11 Wi-Fi technology.

### MAC (Media Access Control) address

An address attached to the port of any device. The MAC address cannot be changed.

### Neural Surround

Neural Surround represents the latest advancement in surround technology and has been adopted by XM Satellite Radio, FM Radio and Neural Music Direct for broadcasts of surround recordings and live events.

Neural Surround employs psychoacoustic frequency domain processing which allows delivery of a more detailed sound stage with superior localization of surround elements. System playback is scalable from stereo up to state-of-the-art multichannel surround.

### PlaysForSure

PlaysForSure is a marketing certification given by Microsoft. The PlaysForSure logo makes it easy to find digital media stores and devices that work together. Digital media purchased from online stores carrying the PlaysForSure logo is available for use on this unit.

This unit complies with PlaysForSure Requirements Specification for Network Devices Version 2.01.

The PlaysForSure logo program is currently available in the U.S. only.

### Subnet mask

The IP address is divided into the network address part and the host address part. The subnet mask is expressed as '255.255.255.0'. In most cases, the subnet mask is automatically assigned by the DHCP server.

### vTuner

vTuner is a paid online database service that allows you to listen to radio and TV broadcasts on the Internet. vTuner lists thousands of stations from over 100 different countries around the globe. For more details about vTuner, visit the following website:

<http://www.radio-pioneer.com>

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## Windows Media

Windows Media is a multimedia framework for media creation and distribution for Microsoft Windows. Windows Media is either a registered trademark or trademark of Microsoft Corporation in the U.S. and/or other countries. Use an application licensed by Microsoft Corporation to author, distribute, or play Windows Media formatted content. Using an application unauthorized by Microsoft Corporation is subject to malfunction.

## Windows Media DRM

Windows Media DRM is a DRM (Digital Rights Management) service for the Windows Media platform. It is designed to provide secure delivery of audio and/or video content over an IP network to a PC or other playback device in such a way that the distributor can control how that content is used. The WMDRM-protected content can only be played back on a component supporting the WMDRM service.

## Windows Media Player 11/ Windows Media Connect

Windows Media Connect is software to deliver music, photos and movies from a Microsoft Windows XP computer to home stereo systems and TVs.

With this software, you can play back files stored on the PC through various devices wherever you like in your home.

At this time you cannot download the Windows Media Connect software from Microsoft's website. If your server currently does not have Windows Media Connect installed, install Windows Media Player 11 (for Windows XP) instead. This software can be downloaded from Microsoft's website.

For more information check the official Microsoft website.

## About FLAC

### FLAC Decoder

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