Playing back files stored on PC or NAS with Cocoon App (Music server)

This unit can play back music files and playlists (m3u, wpl) stored on a PC, Digital Media Server (DMS) and on Network Attached Storage (NAS) that supports DLNA.

NOTE

- Before playing back music files on music servers, this unit must be connected to the network. For how to connect this unit to the network, see "Connecting to a home network (LAN)" (☞page 7).

For playable file formats and restrictions, see"Important information" (☞page 19).

Applying media sharing settings

Here, we apply the settings to share music files stored on a PC and NAS on the network.

❑ Sharing media stored in PC

If you are using a media server, be sure to apply this setting first.

- While this unit is operated by a media control device, "Music server" appears on the display of this unit.
- When selecting this unit from the media control device, the name of this unit is displayed as its friendly name.
- To check the friendly name, see "Checking the network information" (☞page 23).

Settings for playing back with Windows Media Player 12 (Windows 7)

NOTE

Perform this procedure after changing the control panel display to "Category".

1. **In the PC's "Control Panel", select "Network and Internet" - "Choose homegroup and sharing options".**
2. **Select the "Stream my pictures, music, and videos to all devices on my home network" check box and select "Choose media streaming options".**
3. **Select "Allowed" in the drop-down list for "Cocoon 1".**
4. **Select "Allowed" in the drop-down list for "Media programs on this PC and remote connections...".**
5. **Click "OK" to finish.**

Settings for playing back with Windows Media Player 11

1. **Start up Windows Media Player 11 on the PC.**
2. **Select "Media Sharing" in the "Library".**
3. **Click the "Share my media" check box, select "Cocoon 1", and then click "Allow".**
4. **As you did in step 3, select the icon of the device (other PCs and mobile devices) you want to use as a media controller, and then click "Allow".**
5. **Click "OK" to finish.**

Sharing media stored in NAS

Change settings on the NAS to allow this unit and other devices (PCs and mobile devices) used as media controllers to access the NAS. For details, see the owner's manual that came with the NAS.

About playback

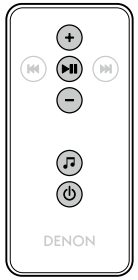
When you start playback on PC, NAS, or DMS, the input source for this unit automatically switches to "Music server", and audio is output from this unit.
The name of the currently played back track and its artist name appear on the display of this unit.
When this unit is operating, you can perform operations such as playing back and stopping files through DMC operations. You can also adjust or mute the volume.
Pressing ♫ while this unit is playing back stops the playback on this unit and switches to "Preset 1".

- When using a server that supports transcoding such as Windows Media Player (version 11 or higher), you can play back WMA Lossless files.
- Depending on the played back file, the track name or artist name may not be displayed.

NOTE

The music display order depends on the specifications of your PC, NAS, or DMS.

❑ Music server operation buttons



Operation buttons	Function
+, –	Volume up / down
▶II	Mute On/Off
♫	Switching the input source
⏻	Power on/standby

Important information

- The network audio playback function of this unit connects to the server using technologies shown below.
  - Windows Media Player Network Sharing Service
- File types that this unit can play back and specifications are shown below.

【Supported file types】

Supported file types	Music server *1
WMA (Windows Media Audio)	✓
MP3 (MPEG-1 Audio Layer-3)	✓
WAV	✓
MPEG-4 AAC	✓*2
FLAC (Free Lossless Audio Codec)	✓

A server or server software compatible with distribution in the corresponding formats is required to play music files via a network.

*1 Music server
- This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
- This unit is compatible with WMA META tags.

*2 Only files that are not protected by copyright can be played on this unit.
Content downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc. on a computer may be copyright protected, depending on the computer's settings.

NOTE

File types that this unit does not support are not displayed.

【Specifications of supported files】

	Sampling frequency	Bit rate	Extension
WMA (Windows Media Audio)	32/44.1/48 kHz	48 – 192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32/44.1/48 kHz	32 – 320 kbps	.mp3
WAV	32/44.1/48 kHz	–	.wav
MPEG-4 AAC	32/44.1/48 kHz	16 – 320 kbps	.aac/ .m4a/ .mp4
FLAC (Free Lossless Audio Codec)	32/44.1/48/88.2/96 kHz	–	.flac

How to make detailed settings

Menu map

Setting items	Detailed items	Description	Page
Language **Language**	Sets the language for display the menu.		21
Clock **Clock**	**Auto Adjust(On)**	Automatically performs the clock setting from the time information on the Internet.	21
	Time Zone(+12H)	Sets your local time zone (for Auto Adjust).	21
	Summer Time(Off)	Sets the Summer Time information (for Auto Adjust).	22
	Auto Adjust Now	Obtains the current time.	22
	Manual Adjust	Adjusts the clock manually.	22
Max Vol Level **Max Vol Level**	Make a setting for maximum volume.		23
Network Info. **Network Info.**	Display network information. Friendly Name / DHCP=On or Off / IP Address / Primary DNS / Secondary DNS / MAC Address		23
WPS **WPS(PIN)**	Sets the wireless connection using WPS (PIN code method).		23
Firmware Update **Firmware Update**	Starts the firmware update.		24
Factory Reset **Factory Reset**	Reset to the defaults.		–
Exit **Exit**	To exit the menu, select “Exit”.		–

Menu operation

NOTE

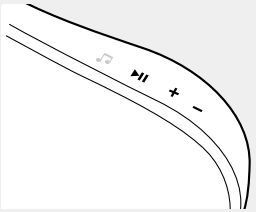
Use buttons on this unit for menu operations. Buttons on the remote control do not work.

1 **Press + and – at the same time.**

Menu

⇩

Language



- The selected item appears on the display.

2 **Press + or – to select the menu to be set.**

3 **Press ►II to enter the setting.**

- To return to the previous item, use **+** or **–** to select “Exit”, and press ►II.
- To exit the menu, select “Exit” in the top menu, and press ►II. The menu disappears.

Setting the language (Language)

Sets the language for display the menu.
• The factory default setting is “English”.

1 **Press + and – at the same time.**
Turns on the menu settings mode and the menu appears on the display (☞page 20 “Menu map”).

Menu
⇩
Language

2 **Press ►II, then press + or – to select the language you want to set.**

English / Français / Español / (EXIT)

3 **Press ►II to enter the setting**
The top menu is displayed again.

Setting the clock (Clock)

You can automatically adjust the clock of this unit using the Internet.

To use this function, the unit must be connected to the Internet.

Adjusting the clock automatically (Auto Adjust)

Use the following procedure to automatically adjust the clock.

1 **Press + and – at the same time.**
Turns on the menu settings mode and the menu appears on the display (☞page 20 “Menu map”).

Menu
⇩
Language

2 **Press + or – to select “Clock”, then press ►II.**

3 **Press + or – to select “Auto Adjust(On)”, then press ►II.**

4 **Press + or – to select “On” or “Off”.**
The operation to receive the current time starts.

On	Automatically adjust the clock.
Off	Does not automatically adjust the clock.

5 **Press ►II to enter the setting**
The “Clock” menu is displayed again.

Setting the Time Zone (Time Zone)

Use the following procedure to select your local standard time (time zone).

1 **Press + and – at the same time.**
Turns on the menu settings mode and the menu appears on the display (☞page 20 “Menu map”).

Menu
⇩
Language

2 **Press + or – to select “Clock”, then press ►II.**
“Auto Adjust(On)” is displayed.

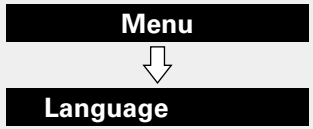
3 **Press + or – to select “Time Zone(+1H)”, then press ►II.**
“–5H(Eastern Standard Time)” is displayed.

4 **Press + or – to select your local standard time (time zone) in your lives, then press ►II.**
The “Clock” menu is displayed again.

Setting the Summer Time (Summer Time)

Use the following procedure to set Summer time if the Summer time system is used in your country.

1 Press + and – at the same time.
Turns on the menu settings mode and the menu appears on the display (☞page 20 “Menu map”).



2 Press + or – to select “Clock”, then press ►II.
“Auto Adjust(On)” is displayed.

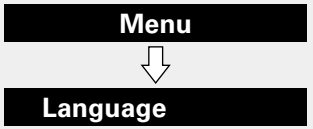
3 Press + or – to select “Summer Time(Off)”, then press ►II.

4 Press + or – to select “Off(0H)” or “On(+1H)”, then press ►II.
The “Clock” menu is displayed again.

Setting the current time (Auto Adjust Now)

When the unit is connected to the Internet, the current time is set automatically.

1 Press + and – at the same time.
Turns on the menu settings mode and the menu appears on the display (☞page 20 “Menu map”).



2 Press + or – to select “Clock”, then press ►II.
“Auto Adjust(On)” is displayed.

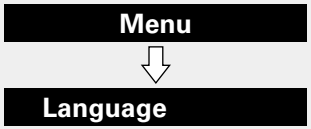
3 Press + or – to select “Auto Adjust Now”, then press ►II.
The operation to receive the current time starts.

- The current time is displayed for several seconds when it is received successfully.
- If the current time is not received successfully, “Connection Failed” appears.

Setting the current time (Manual Adjust) (12-Hour Display)

When the unit is not connected to the Internet, set the current time manually.

1 Press + and – at the same time.
Turns on the menu settings mode and the menu appears on the display (☞page 20 “Menu map”).



2 Press + or – to select “Clock”, then press ►II.
“Auto Adjust(On)” is displayed.

3 Press + or – to select “Manual Adjust”, then press ►II.

4 Press + or – to set the “hours”, then press ►II.

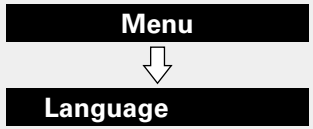
5 Press + or – to set the “minutes”, then press ►II.
The current time is set.

If you use “Manual Adjust” to set the time, “Auto Adjust” is set to “Off”.

Setting the volume limit (Max Vol Level)

Make a setting for maximum volume.
• The factory default setting is “50”.

1 **Press + and – at the same time.**
Turns on the menu settings mode and the menu appears on the display (☞page 20 “Menu map”).



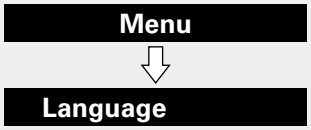
2 **Press + or – to select “Max Vol Level”, then press ►II.**
“Max Volume” menu appears.

3 **Press + or – to select the volume “0 – 50”, then press ►II.**
The top menu is displayed again.

Setting the network (Network Info.)

Checking the network information

1 **Press + and – at the same time.**
Turns on the menu settings mode and the menu appears on the display (☞page 20 “Menu map”).



2 **Press + or – to select “Network Info.”, then press ►II.**

3 **Press + or – to select the item you want to check.**

• Select “Exit” and press ►II to return to the top menu.

WPS Settings (PIN code method)

Use this procedure to configure the wireless LAN settings.

Before turning this unit on, make sure that an Ethernet cable is not connected to this unit. If a cable is connected, have this unit enter the power standby mode and disconnect the cable.

1 **Press + and – at the same time.**
Turns on the menu settings mode and the menu appears on the display (☞page 20 “Menu map”).

2 **Press + or – to select “WPS(PIN)”, then press ►II.**
“Searching” is displayed, and the access point you have set is displayed.

3 **Press + or – to select the access point whose PIN code you want to display, and press ►II.**
PIN code number is displayed.

4 **Set this PIN code to the register.**
When connection is established with access point, “Succeeded” is displayed.

• For how to register the PIN code, see the owner’s manual of your router with access point.

Firmware Update

- In order to update the firmware, the environment and settings required for connecting to broadband internet are needed (☞page 8)
- Perform the firmware update operation after at least 2 minutes has elapsed since turning this unit's power ON.

1 Press + and – at the same time.
Turns on the menu settings mode and the menu appears on the display (☞page 20 "Menu map").

2 Press + or – to select "Firmware Update", then press ►II.

3 Press + or – to select "Check for Update" or "Start", then press ►II.

Check for Update Check for firmware updates.

Use + or – to select the item, and press ►II.
- Up to Date: It is already the latest firmware.
- Available Yes: Updates to the latest firmware.
- Available No: Does not update to the latest firmware.

Start Determines whether to update or not.

Use + or – to select the item, and press ►II.
- Yes: Performs update.
- No: Does not perform update.

- If updating fails, the set automatically retries, but if updating is still not possible, one of the messages shown below is displayed. If the display reads as shown below, check the settings and network environment, then update again.

Display	Description
Updating fail	Updating failed.
Login failed	Failure to log into server.
Server is busy	Server is busy. Wait a while then try again.
Connection fail	Failure in connecting to server.
Download fail	Downloading of the firmware has failed.

❑ Notes concerning use of "Firmware Update"

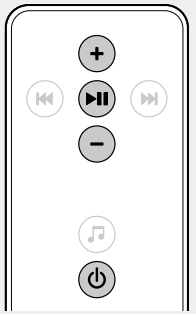
- Do not turn off the power until updating or upgrading is completed.
- Even with a broadband connection to the Internet, approximately 20 minutes is required for the updating procedure to be completed.
- Once updating starts, normal operations on this unit cannot be performed until updating is completed. Furthermore, updating the firmware may reset the backup data for the parameters, etc. set for this unit.
- If the update fails, remove and re-insert the power cord. "Update Retry" appears on the display and update restarts from the point at which update failed. If the error continues despite this, check the network environment.

See the DENON website for details about updates.

Auto standby

With the Auto Standby ON, this unit will automatically enter the standby mode after about 30 continuous minutes of stop mode with no operation.
- The default setting for the Auto Standby mode is "On".

1 Move the power operation slide switch on the rear panel from "OFF" to "ON".
"Always Display Clock?" is displayed.



2 Press + or – to select "Yes" or "No", then press ►II.

Yes (Auto Satandby Off) The unit does not go into standby automatically.

No (Auto Satandby On) The unit goes into standby after 30 minutes.

NOTE

In the following situations, the Auto standby function does not operate.
- When iPod or iPhone is connected to the Dock connector on this unit.
- When the input source is "AUX" and a devices connected to the AUX IN jack.
- When the input source being played is "Internet Radio"or "Music Server".

Informations

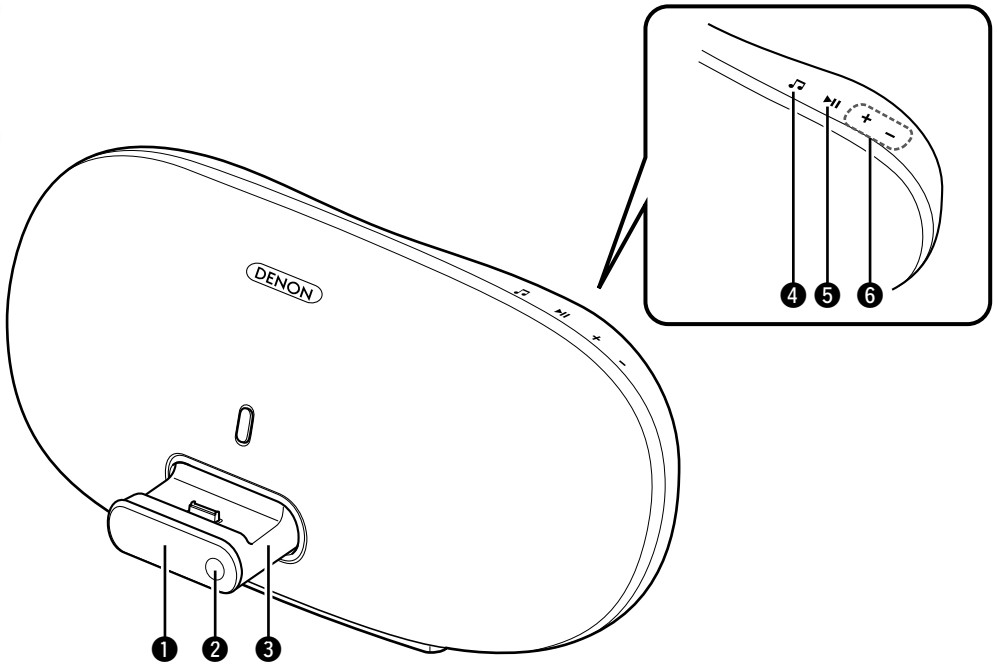
Here, we list various information related to this unit.
Please refer to this information as needed.

- **Part names and functions** ☞page 26
- **Other information** ☞page 28
- **Troubleshooting** ☞page 31
- **Specifications** ☞page 33
- **Index** ☞page 34

Part names and functions

Front panel

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



❶ Display

【Wireless LAN signal strength】

: Strong

: Medium

: Weak

: Not connected

【Remaining battery level indication during battery operation】

: 75 % or more

: 50 – 75%

: 25 – 50%

: 25 % or less
("Low Battery" is displayed.)

- Battery level indication while the battery is being charged during AC operation

During AC operation, the battery mark lights off when the battery is fully charged.

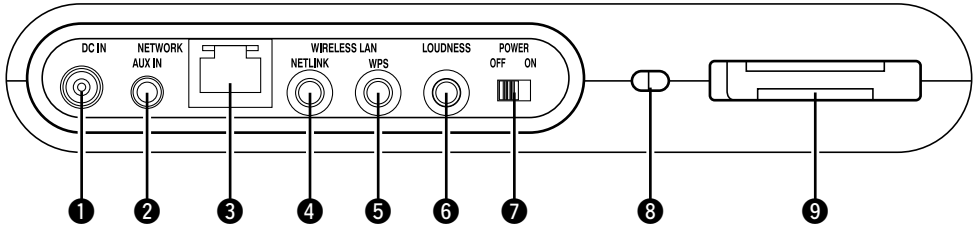
NOTE

- If the battery level reaches zero during use, the power is turned off.
- Usage time may vary depending on the usage environment's temperature, method of use, etc.
- If usage time is extremely short even when the battery has been fully charged, the battery may be near the end of its life. In this case, please contact DENON service center.
- Battery replacement must be performed by a service person.

❷ Remote control sensor ..... (3)
❸ Dock ..... (6)
❹ Input source select button (♫) ..... (13)
❺ Play/Pause button (►II) ..... (14, 20)
❻ Volume control buttons (+, –) ..... (13, 20)

Rear panel

See the page indicated in parentheses ( ).



❶ **DC input (DC IN)** ..... (5)
❷ **AUX IN jack** ..... (5)
❸ **Network connector (NETWORK)** ..... (10)
❹ **NETLINK button** ..... (11)
❺ **WPS button** ..... (9)
❻ **LOUDNESS button** ..... (14)
❼ **Power operation slide switch (POWER ON/OFF)** ..... (13)
Turns power to this unit on and off.

❽ **Security slot**
You can attach a security cable to deter theft. Use a security cable that is compatible with this unit. For details, contact your dealer.

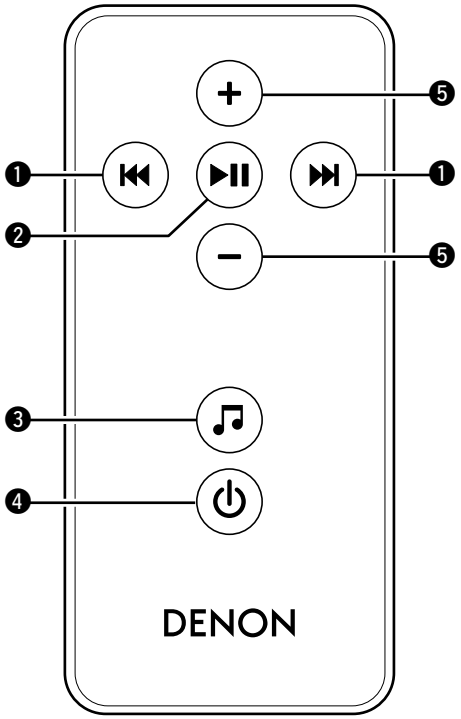
NOTE

Security cables have deterrent effects, but do not completely prevent theft or misuse of this unit.

❾ **Remote control storage space**

Remote control unit

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



❶ **Skip buttons (I◄◄, ►►I)** ..... (14)
❷ **Play/Pause button (►II)** ..... (14)
❸ **Input source select button (♫)** ..... (13)
❹ **Power operation button (⏻)** ..... (13)
❺ **Volume control buttons (+, –)** ..... (13)

Other information

❑ **Trademark information** (☞page 28)
❑ **Explanation of terms** (☞page 29)

Trademark information

This product uses the following technologies (Random order):

Made for iPod iPhone

AirPlay

"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.
Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone, may affect wireless performance.
AirPlay, the AirPlay logo, iPad, iPhone, iPod, iPod classic, iPod nano, iPod shuffle and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

- Individual users are permitted to use iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch for private copy and playback of non-copyrighted contents and contents whose copy and playback is permitted by law. Copyright infringement is prohibited by law.

Explanation of terms

A

AES (Advanced Encryption Standard)
This is a next generation standard encryption method replacing the current DES and 3DES, and because of its high security it is expected to be applied widely to wireless LANs in the future. It uses the "Rijndael" algorithm developed by two Belgian cryptographers to divide the data into blocks of fixed lengths and encrypt each block. It supports data lengths of 128, 192 and 256 bits and key lengths of 128, 192 and 256 bits as well, offering extremely high encryption security.

AirPlay
AirPlay sends (plays) contents recorded in iTunes or on an iPhone/iPod touch/iPad to a compatible device via the network.

App Store
App Store is a site that sells application software for such devices as the iPhone or iPod Touch, and is operated by Apple Inc.

B

Bit rate
This expresses the read amount per 1 second of video/audio data recorded in a disc. A larger number means higher sound quality, but also means a larger file size.

D

DLNA
DLNA and DLNA CERTIFIED are trademarks and/or service marks of Digital Living Network Alliance. Some contents may not be compatible with other DLNA CERTIFIED™ products.

F

FLAC
FLAC stands for Free lossless Audio Codec, and is a lossless free audio file format. Lossless means that the audio is compressed without any loss in quality. The FLAC license is as shown below.

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I

IEEE 802.11b
This is one wireless LAN standard set by the 802 working group that establishes LAN technology standards at the IEEE (Institute of Electrical and Electronics Engineers) of the United States. It uses the 2.4 GHz band usable freely without a radio frequency license (ISM band), enabling communications at a maximum speed of 11 Mbps.

- The value indicated above is the maximum theoretical value for the wireless LAN standard, and does not indicate the actual data transfer rate.

IEEE 802.11g
This is another wireless LAN standard set by the 802 working group that establishes LAN technology standards at the IEEE (Institute of Electrical and Electronics Engineers) of the United States, and is compatible with IEEE 802.11b. It also uses the 2.4 GHz band, but enables communications at a maximum speed of 54 Mbps.

- The value indicated above is the maximum theoretical value for the wireless LAN standard, and does not indicate the actual data transfer rate.

iTunes
iTunes is the name of the multimedia player provided by Apple Inc. It enables management and playback of multimedia contents including music and movies. iTunes supports many main file formats including AAC, WAV, and MP3.

M

MP3 (MPEG Audio Layer-3)
This is an internationally standardized audio data compression scheme, using the "MPEG-1" video compression standard. It compresses the data volume to about one eleventh its original size while maintaining sound quality equivalent to a music CD.

MPEG (Moving Picture Experts Group), MPEG-2, MPEG-4
These are the names for digital compression format standards used for the encoding of video and audio. Video standards include "MPEG-1 Video", "MPEG-2 Video", "MPEG-4 Visual", "MPEG-4 AVC". Audio standards include "MPEG-1 Audio", "MPEG-2 Audio", "MPEG-4 AAC".

N

Network Names (SSID: Security Set Identifier)
When forming wireless LAN networks, groups are formed to prevent interference, data theft, etc. This grouping is done by "SSID" or "Security Set Identifiers". For further security, a WEP key is set and signal transfer is not possible unless the SSID and WEP key match.

P

Protection Circuit
This is a function to prevent damage to devices within the power supply when an abnormality such as an overload, excess voltage occurs or temperature for any reason.
In this unit, the power indicator blinks and the unit enters standby mode when an abnormality occurs.

S

Sampling frequency
Sampling involves taking a reading of a sound wave (analog signal) at regular intervals and expressing the height of the wave at each reading in digitized format (producing a digital signal).
The number of readings taken in one second is called the "sampling frequency". The larger the value, the closer the reproduced sound is to the original.

T

TKIP (Temporal Key Integrity Protocol)
This is a network key used for WPA. The encryption algorithm is RC4, the same as for WEP, but the security level is increased by changing the network key used for encryption for each packet.

V

vTuner
This is a free online content server for Internet radio. 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.

W

WEP Key (Network Key)
This is key information used for encrypting data when conducting data transfer. On this unit, the same WEP key is used for data encryption and decryption, so the same WEP key must be set on both devices in order for communications to be established between them.

Wi-Fi®
Wi-Fi Certification assures tested and proven interoperability by the Wi-Fi Alliance, a group certifying interoperability among wireless LAN devices.

Windows Media DRM
This is a copyright protection technology developed by Microsoft.
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 a PC. Microsoft may, in conjunction with such license, also download revocation list onto your device on behalf of Secure Content Owners.

Windows Media Player Ver.11 or later
This is a media player distributed free of charge by Microsoft Corporation.
It can play playlists created with Ver.11 or later of Windows Media Player, as well as WMA, DRM WMA, WAV, and other files.

WMA (Windows Media Audio)
This is audio compression technology developed by Microsoft Corporation.
WMA data can be encoded using Windows Media® Player Ver.7, 7.1, Windows Media® Player for Windows® XP and Windows Media® Player 9 Series.
To encode WMA files, only use applications authorized by Microsoft Corporation. If you use an unauthorized application, the file may not work properly.

WPA (Wi-Fi Protected Access)
This is a security standard established by the Wi-Fi Alliance. In addition to the conventional SSID (network name) and WEP key (network key), it also uses a user identification function and encrypting protocol for stronger security.

WPA2 (Wi-Fi Protected Access 2)
This is a new version of the WPA established by the Wi-Fi Alliance, compatible with more secure AES encryption.

WPA-PSK/WPA2-PSK (Pre-shared Key)
This is a simple authentication system for mutual authentication when a preset character string matches on the wireless LAN access point and client.

WPS (Wi-Fi Protected Setup)
This is a standard drawn up by the Wi-Fi Alliance to ease the task of setting up wireless LAN connections and configuring security.
There are two methods: push-button and PIN (Personal Identification Number) code.

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 devices 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/Solution	Page
Power does not turn on.	• Check whether the power plug is correctly inserted into the power outlet.	5
The operation buttons on the upper part of this unit flash white approximately every 2 seconds.	• The protection circuit has been activated by a rise in the humidity inside the unit. Please turn off power once, and re-apply the power after the temperature has fallen sufficiently. • Please re-install this unit in a place having good ventilation.	29 –
The operation buttons on the upper part of this unit flash white approximately every 0.5 seconds.	• This unit amplifier circuit has failed. Turn off the power and please contact the DENON service adviser.	–
Set does not operate properly.	• Reset the microprocessor.	33

【Audio】

Symptom	Cause/Solution	Page
Audio is not output.	• Check the connections for all devices. • Check whether the audio device power is turned on. • Adjust the master volume. • Check the connection with the playback device and select the proper input source.	6, 9, 10 – 13 13

【iPod / Internet radio / Music server 】

Symptom	Cause/Solution	Page
iOS device cannot be played.	• Some iOS devices do not support being used connected directly to the Dock connector.	6
The file names are not displayed properly ("...", etc.).	• Characters that cannot be displayed are used. This is not a malfunction. On this unit, characters that cannot be displayed are replaced with a "." (period).	–
Internet radio cannot be played.	• Ethernet cable is not properly connected or network is disconnected. Check the connection status. • Program is being broadcast in non-compatible format. Only Internet radio programs in MP3 and WMA can be played on this unit. • The firewall of the PC or router has been activated. Check the firewall settings of the connected PC or router. • Radio station is not currently broadcasting. Choose a radio station that is currently broadcasting. • IP address is wrong. Check the set's IP address. • Some radio stations may go silent at certain times of the day. In this case, no audio is output even when a station is received. Try again later, or switch to another radio station.	9, 10 17 – – 23 –
Files stored on a computer cannot be played.	• Files are stored in a non-compatible format. Record in a compatible format. • You are attempting to play a file that is copyright protected. Files that are copyright protected cannot be played on this unit. • Media sharing settings are not correct. Change media sharing settings so that the unit can access the folders on your computer.	19 19 18
Music stored on a NAS cannot be played.	• If you use a NAS in conformity with the DLNA standard, enable the DLNA server function in the NAS setting. • If you use a NAS that does not conform with the DLNA standard, play the music via a PC. Set Windows Media Player's media sharing function and add NAS to the selected play folder. • If connection is restricted, set audio equipment as the connection target.	– 18 –
Server is not found, or it is not possible to connect to the server.	• The computer's or router's firewall is activated. Check the computer's or router's firewall settings. • Computer's power is not turned on. Turn on the power. • Server is not running. Launch the server. • Set's IP address is wrong. Check the set's IP address.	– – – 23

See overleaf

Symptom	Cause/Solution	Page
Cannot connect to preset radio stations.	• Radio station is not currently broadcasting. Wait a while before trying again. • Radio station is not currently in service. It is not possible to connect to radio stations that are no longer in service.	– –
For some radio stations, “Radio station server full” or “Connection down” is displayed and station cannot be connected to.	• Station is congested or not currently broadcasting. Wait a while before trying again.	–
Sound is broken during playback.	• Network signal transfer speed is slow or communications lines or radio station is congested. This is not a malfunction. When playing broadcast data with a high bit rate, the sound may be broken, depending on the communications conditions.	–
Sound quality is poor or noise is heard during play.	• File being played has a low bit rate. This is not a malfunction.	–

【AirPlay】

Symptom	Cause/Solution	Page
The AirPlay icon is not displayed in iTunes or on the iPhone/iPod touch/iPad.	• This unit and the computer or iPhone/iPod touch/iPad are not connected to the same network (LAN). Connect the computer or iPhone/iPod touch/iPad to the same network as this unit. • iTunes or the iPhone/iPod touch/iPad do not have firmware that supports AirPlay installed. Update to the latest firmware.	9, 10 24
No sound.	• The volume in iTunes or on the iPhone/iPod touch/iPad is set to the minimum setting. Adjust the volume to the optimum level. • This unit is not selected in the screen that is displayed when iTunes or the iPhone/iPod touch/iPad is started. Start iTunes or switch on the iPhone/iPod touch/iPad, click the AirPlay icon in the displayed screen, and select this unit. • AirPlay playback has not started. Click the ► button in iTunes or press the ► button on the iPhone/iPod touch/iPod.	– 15 –
When using AirPlay with the iPhone/iPod touch, the sound suffers from intermittent breaks or AirPlay does not function.	• Quit the application running in the background of the iPhone/iPod touch, and then play using AirPlay. • When playing via a wireless connection, outside conditions may affect the unit. To remedy this, change the network environment, e.g. shorten the distance to the wireless LAN access point. • Update the iPhone/iPod touch application or iTunes to the latest version.	– – –

【Remote control unit】

Symptom	Cause/Solution	Page
The set cannot be operated with the remote control unit.	• Batteries are worn out. Replace with new batteries. • Operate the remote control unit within a distance of about 23 ft/7 m from this unit and at an angle of within 30°. • Remove any obstacle between this unit and the remote control unit. • Insert the batteries in the proper direction, checking the ⊕ and ⊖ marks. • The set’s remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). Move the set to a place in which the remote control sensor will not be exposed to strong light.	3 3 3 3 3

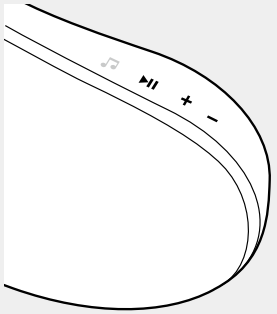
Resetting the microprocessor

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

1 Press + and – at the same time.
Turns on the menu settings mode and the menu appears on the display (☞page 20 “Menu map”).

2 Press + or – to select “Factory Reset”, then press ►II.

3 Press + or – to select “Reset? Yes”, then press ►II.
“Initialized” is displayed and the default settings are restored.



If “Initialized” does not display in step 3, start over from step 1.

Specifications

❑ Audio section

• **Amplifiers**	2 x 25 W ClassD
• **Drivers**	2 x 100 mm Woofer

❑ Clock

• **Clock method**	Within 1 – 2 minutes per month

❑ Wireless LAN

Network type (wireless LAN standards):	Conforming to IEEE 802.11b Conforming to IEEE 802.11g (Conforming to Wi-Fi®)*
Transfer rate:	DS-SS: 11 / 5.5 / 1 Mbps (Automatic switching) OFDM: 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps (Automatic switching)
Security:	SSID (Network name) WEP key (network key) (64/128 bits) WPA-PSK (TKIP/AES) WPA2-PSK (TKIP/AES)
Used frequency range:	2.412 MHz – 2.462 MHz
No. of channels:	Conforming to IEEE 802.11b : 11 ch (DS-SS) (Of which 1 channel used) Conforming to IEEE 802.11g : 11 ch (OFDM) (Of which 1 channel used)

❑ General

AC adapter:	Input: 100 – 240 V 50/60 Hz Output: DC 20 V, 2.5 A

* Wi-Fi® conformity indicates tested and proven interoperability by the “Wi-Fi Alliance”, a group certifying interoperability among wireless LAN devices.

For purposes of improvement, specifications and design are subject to change without notice.

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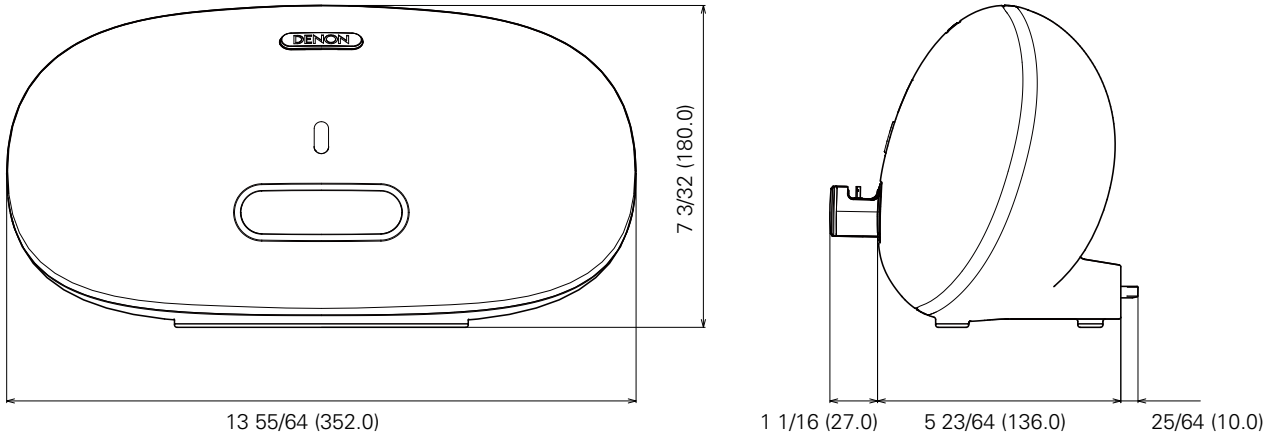
Dimensions

Unit : in. (mm)



Weight : 7 lbs 4 oz (3.3 kg)

DENON

www.denon.com

V00

D&M Holdings Inc.
3520 10123 00AD

Notes on radio

USA CANADA

❑ FCC Information (For US customers)

1. IMPORTANT NOTICE : DO NOT MODIFY THIS PRODUCT

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

2. CAUTION

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

3. COMPLIANCE INFORMATION
Product Name :
Wireless headphones

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

Denon Electronics (USA), LLC
(a D & M Holdings Company)
100 Corporate Drive
Mahwah, NJ 07430-2041
Tel. (800) 497-892

4. NOTE

This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

❑ IC Information (For Canadian customers)

CAUTION

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

ATTENTION

Afin de reduire le risque d'interference aux autres utilisateurs, il faut choisir le type d'antenne et son gain de facon a ce que la puissance isotrope rayonnee equivalente (p.i.r.e.) ne soit pas superieure au niveau requis pour l'obtention d'une communication satisfaisante.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR).

For Canadian customers:

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has also been evaluated and shown compliant with the IC RF Exposure limits under mobile exposure conditions. (antennas are greater than 20 cm from a person's body).

APPAREIL

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210.

Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a également été évalué et démontré conforme aux limites d'exposition aux RF d'IC dans des conditions d'exposition à des appareils mobiles (les antennes se situent à moins de 20 cm du corps d'une personne).

EU

[ENGLISH]

1. **IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT**
   This product, when installed as indicated in the instructions contained in this manual, meets R&TTE directive requirements. Modification of the product could result in hazardous Radio and EMC radiation.
2. **CAUTION**
   Separation distance of at least 20 cm must be maintained between this product and all persons.
   This product and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

[DEUTSCH]

1. **WICHTIGER HINWEIS: NEHMEN SIE KEINE VERÄNDERUNGEN AN DIESEM PRODUKT VOR**
   Wenn dieses Produkt entsprechend dieser Bedienungsanleitung aufgebaut wird, entspricht es den Anforderungen der R&TTE-Richtlinie. Veränderungen am Produkt können zu gefährlicher Funk- und EMV-Strahlung führen.
2. **VORSICHT**
   Zwischen dieses Produkts und Personen muss ein Schutzabstand von 20 cm eingehalten werden.
   Dieses Produkt und seine Antenne dürfen nicht neben anderen Antennen oder Sendern aufgestellt oder zusammen mit ihnen verwendet werden.

[FRANÇAIS]

1. **MISE EN GARDE IMPORTANTE : NE JAMAIS MODIFIER CE PRODUIT**
   Si toutes les consignes indiquées dans ce mode ont été respectées pendant son installation, ce produit est conforme aux directives R&TTE. Toute modification du produit risquerait alors de générer des radiations radio et EMC dangereuses.
2. **ATTENTION**
   L'appareil devra être située à une distance de 20 cm au moins des personnes.
   Ce produit ainsi que son antenne ne devront en aucun cas être utilisés à proximité d'une autre antenne ou transmetteur.

[ITALIANO]

1. **AVVERTENZA IMPORTANTE: NON MODIFICARE QUESTO PRODOTTO**
   Se installato come indicato nelle istruzioni del presente manuale, questo prodotto soddisfa i requisiti della direttiva R&TTE. Eventuali modifiche apportate al prodotto potrebbero causare pericolose radiazioni radio ed EMC.
2. **ATTENZIONE**
   È necessario mantenere una distanza minima di 20 cm tra questo prodotto e le persone.
   Questo prodotto e la relativa antenna non devono essere posizionati in prossimità di altre antenne o trasmettitori e non devono essere utilizzati congiuntamente a questi ultimi.

[ESPAÑOL]

1. **NOTA IMPORTANTE: NO MODIFIQUE ESTE PRODUCTO**
   Este producto, si es instalado de acuerdo con las instrucciones contenidas en este manual, cumple los requisitos de la directiva R&TTE. La modificación del producto puede producir radiación de Radio y EMC peligrosa.
2. **PRECAUCIÓN**
   Se debe mantener una separación de al menos 20 cm del producto y las personas.
   Este producto y su antena no debe instalarse ni utilizarse conjuntamente con otra antena o transmisor.

[NEDERLANDS]

1. **BELANGRIJKE MEDEDELING: BRENG AAN DIT PRODUCT GEEN AANPASSINGEN AAN**
   Dit product, indien geïnstalleerd volgens de aanwijzingen in deze gebruiksaanwijzing, voldoet aan de vereisten van de R&TTE-richtlijn. Aanpassing van dit product kan gevaarlijke radio- en EMC-straling tot gevolg hebben.
2. **LET OP**
   Houd tussen en personen altijd een afstand van tenminste 20 cm aan.
   Dit product en zijn antenne mogen niet in de buurt van een andere antenne of zender worden geplaatst of in combinatie daarmee worden gebruikt.

[SVENSKA]

1. **VIKTIGT: APPARATEN FÅR INTE MODIFIERAS**
   Under förutsättning att apparaten installeras enligt anvisningarna i denna bruksanvisning, uppfyller denna kraven i R&TTE-direktivet. Ev. modifiering av apparaten kan resultera i farlig radio- och elektromagnetisk strålning.
2. **FÖRSIKTIGT**
   Se till att det finns ett avstånd på minst 20 cm mellan apparatens och personer i omgivningen.
   Apparaten och dess antenn får inte placeras eller användas i närheten av andra antenner eller sändare.

[РУССКИЙ]

1. **ВАЖНО! НЕ ИЗМЕНЯЙТЕ ДАННЫЙ ПРОДУКТ**
   Продукт, установленный согласно инструкциям в настоящем руководстве, отвечает требованиям директивы R&TTE. Изменение продукта может привести к появлению опасного электромагнитного излучения.
2. **ПРЕДУПРЕЖДЕНИЕ**
   Не приближайтесь к данного изделия ближе, чем на 20 см.
   Запрещается использовать данный продукт и антенну с другой антенной или передатчиком.

[POLSKI]

1. **UWAGA: MODYFIKACJA TEGO URZĄDZENIA JEST ZABRONIONA**
   Po zainstalowaniu zgodnie z instrukcjami zawartymi w niniejszej instrukcji obsługi urządzenie to będzie spełniać wymogi dyrektywy R&TTE. Wprowadzanie modyfikacji do tego urządzenia może skutkować powstaniem niebezpiecznego promieniowania elektromagnetycznego oraz radiowego.
2. **OSTRZEŻENIE**
   Między tego produktu i wszelkimi osobami musi być zachowana odległość przynajmniej 20 cm.
   Urządzenia wraz z anteną nie można instalować w połączeniu z inną anteną lub nadajnikiem.

R&TTE Directive 1999/5/EC

This product may be operated in the following countries;

AT	BE	CZ	DK	FI
FR	DE	GR	HU	IE
IT	NL	PL	PT	SK
ES	SE	GB	NO	CH

Indoor use only.

日本

❑電波に関するご注意

本機は電波法に基づく工事設計認証を取得した小電力データ通信システムの無線局設備を内蔵しています。

- 本機を使用するときに無線局の免許は必要ありません。

※ 以下のことをおこなうと法律で罰せられることがあります。

- 内蔵する小電力データ通信システムの無線局設備を分解 / 改造すること
- 内蔵する小電力データ通信システムの無線局設備に貼ってある証明ラベルをはがすことこの機器の使用周波数帯(2.4GHz)では、電子レンジ等の産業・科学・医療用機器のほか、工場の製造ライン等で使用されている移動体識別用の構内無線局(免許を要する無線局)、特定小電力無線局(免許を要しない無線局)、およびアマチュア無線局(免許を要する無線局)が運用されています。

1. この機器を使用する前に、近くで移動体識別用の構内無線局、特定小電力無線局およびアマチュア無線局が運用されていないことを確認してください。
2. 万が一、この機器から移動体識別用の構内無線局に対して有害な電波干渉の事例が発生した場合には、速やかに使用周波数を変更するか、または電波の発射を停止した上、下記連絡先にご連絡いただき、混信回避のための処置等についてご相談してください。
3. その他、この機器から移動体識別用の特定小電力無線局またはアマチュア無線局に対して有害な電波干渉の事例が発生した場合など、何かお困りのことが起きたときには、次の連絡先へお問い合わせください。

連絡先：
株式会社 ディーアンドエムホールディングス
お客様相談センター
044(670)5555
http://denon.jp/jp/support/pages/servicecenter.aspx

◎ 本機では、2.4GHz の周波数帯の電波を利用している関係で、下記機器と干渉し、音が途切れたり、雑音が発生したりする可能性があります。
【2.4GHz の周波数帯を使用している主な機器】
- 電子レンジ
- 無線 LAN を利用した機器
（ノートパソコン、無線ルーター、無線 LAN 対応 AV 機器等）
- コードレスフォン
- Bluetooth 対応機器
- ワイヤレス対応 AV 機器
- ワイヤレスコントローラー

※ 音が途切れたり雑音が発生したりする場合には、下記の方法で改善する可能性があります。
1. 干渉している機器との距離を離す。
2. 干渉している機器の電源を切る。

◎ ペースメーカー等の医療用電気機器をご使用の場合には、各医療用電気機器メーカーまたは販売店に電波による影響をご確認の上ご使用ください。

◎ 人ごみの中で使用したり、本機の間に鉄筋コンクリートの壁や家具などの障害物があると、通信状態が悪くなり音が途切れたり、雑音が発生したりすることがあります。音が途切れたり、雑音が発生したりする場合には、見通しの良い場所に設置し直して下さい。

◎ 設置の距離や障害物がない場合でも、電波の反射等により受信がうまくいかない場合があります。その場合には本機の向きや位置を変えると改善することがあります。

◎ ラジオやテレビ、BS/CS チューナーなどの電波を利用した機器のそばで使用すると、ノイズを発生することがあります。その場合には機器から遠ざけて設置してください。

◎ 本機は盗聴防止機能を搭載しておりますが、第三者が故意または偶然に受信する可能性があります。

◎ 本機はご家庭内での音楽、映画等の再生を目的にしたホームエンターテイメントシステムです。他の環境、目的での使用はおやめください。

◎ 現品表示について

2.4 ： 2.4Ghz 帯を使用する無線設備を表します。
DS/OF ： 変調方式を表します。
4 ： 移動体識別装置の構内無線局に対して想定される与干渉距離を表します(約 40 m)。
▬▬▬ ： 2.4GHz 帯の全帯域を使用し、かつ移動体識別装置の帯域を回避可能であることを意味します。

KOREA

해당 무선설비는 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다
B 급 기기 (가정용 방송통신기자재)
이 기기는 가정용 (B 급) 전자파적합기기로서 주로
가정에서 사용하는 것을 목적으로 하며 , 모든
지역에서 사용할 수 있습니
해당 무선설비는 운용 중 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다 .

臺灣

第十二條
經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
第十四條
低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。
前項合法通信，指依電信法規定作業之無線電通信。
低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

中国

第十三条
1.• 使用频率：2.4 - 2.4835 GHz
- 等效全向辐射功率 (EIRP)：
天线增益＜ 10dBi 时：⩽ 100 mW 或⩽ 20 dBm ①
天线增益⩾ 10dBi 时：⩽ 500 mW 或⩽ 27 dBm ②
- 最大功率谱密度：
天线增益＜ 10dBi 时：⩽ 20 dBm / MHz(EIRP) ①
天线增益⩾ 10dBi 时：⩽ 27 dBm / MHz(EIRP) ②
- 载频容限：20 ppm
- 外发射功率 (在 2.4-2.4835GHz　段以外)
⩽ -80 dBm / Hz (EIRP)
- 杂散发射 (辐射) 功率 (对应载波 ±2.5 倍信道带宽以外)：
⩽ -36 dBm / 100 kHz (30 - 1000 MHz)
⩽ -33 dBm / 100 kHz (2.4 - 2.4835 GHz)
⩽ -40 dBm / 1 MHz (3.4 - 3.53 GHz)
⩽ -40 dBm / 1 MHz (5.725 - 5.85 GHz)
⩽ -30 dBm / 1 MHz (其它 1 - 12.75 GHz)

2. 不得擅自更改发射频率、加大发射功率 (包括额外加装射频功率放大器)，不得擅自外接天线或改用其它发射天线；
3. 使用时不得对各种合法的无线电通信业务产生有害干扰；一旦发现有干扰现象时，应立即停止使用，并采取措施消除干扰后方可继续使用；
4. 使用微功率无线电设备，必须忍受各种无线电业务的干扰或工业、科学及医疗应用设备的辐射干扰；
5. 不得在飞机和机场附近使用。

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