NETWORK AUDIO PLAYER

NS-6130
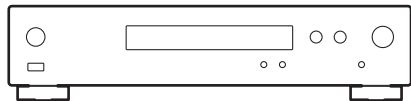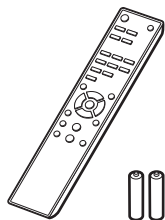# Instruction Manual

E
N

ONKYO

What's in the box

Main unit (1)

Remote controller (RC-942E) (1), Batteries (AAA/R03) (2)

Analog audio cable (1)
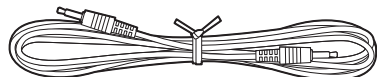
RI cable (1)

Power cord (1)

ℹ️
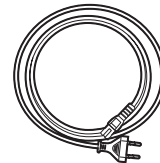
- The power cord must be connected only after all other cable connections are completed.
- We will not accept responsibility for damage arising from the connection of equipment manufactured by other companies.
- Functionality may be introduced by firmware updates and service providers may cease services, meaning that some network services and content may become unavailable in the future.
- Specifications and appearance are subject to change without prior notice.

Front Panel
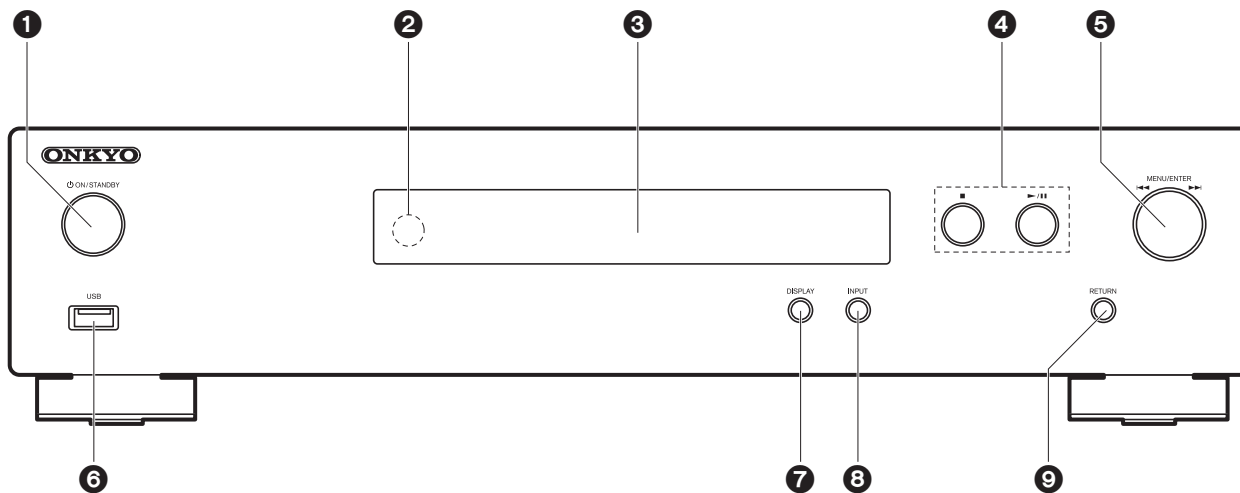
1. ⏻ON/STANDBY button: Turns the unit on or to standby mode.
2. Remote control sensor
3. Display (➜P6)
4. Play button:
   ■ : This button stops playback.
   ▶/❚❚ : Play or pause play.
5. MENU/ENTER dial (⏮/⏭)
   When playing, turn left or right to select the folder or file, then press to confirm.
   Press and hold to show the settings screen. While the menu is displayed, turn the dial to select items and press to confirm the settings.
   • Depending on the input, the operation may not start.
6. USB port: Connect a USB storage device or HDD (hard disk drive) to play music files. You can also supply power (maximum 5 V/0.5 A) to USB devices with a USB cable.
   • When connecting a HDD that requires more than 5 V/0.5 A, connect to the USB port (maximum 5 V/1 A) on the rear of the unit.

7. DISPLAY button: Switches the information on the display.
8. INPUT button: Switches the input to be played.
9. RETURN button: Returns to the previous screen.

3

Rear Panel
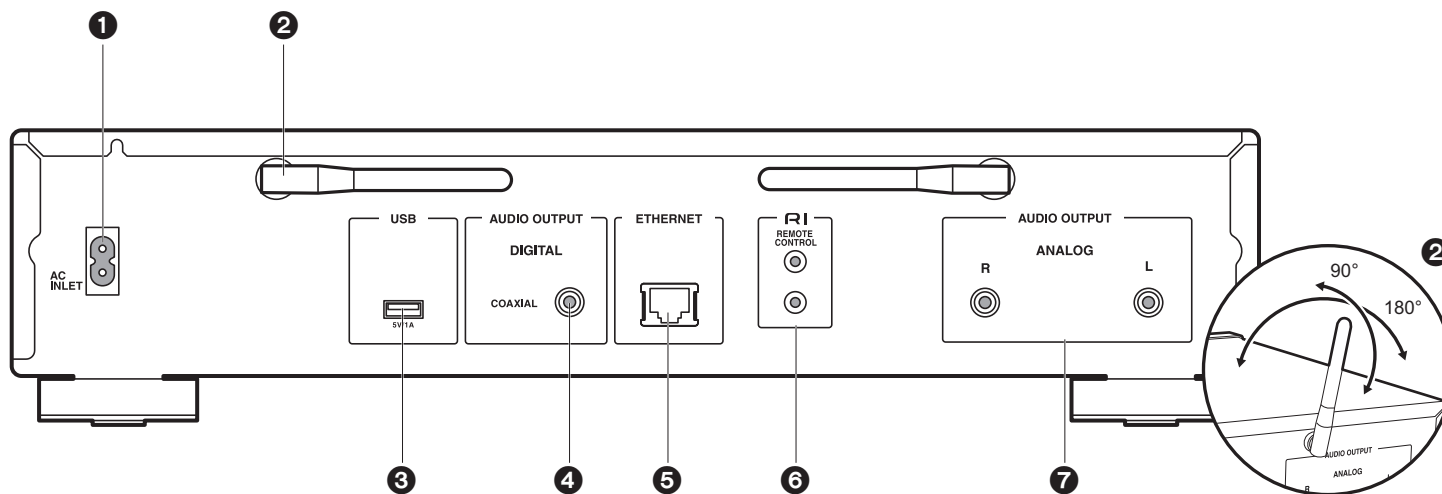
1. AC INLET: Connect the supplied power cord.
2. Wireless antenna: Used for Wi-Fi connection. Adjust their angles according to the connection status.
3. USB port: Connect a USB storage device or HDD (hard disk drive) to play music files. You can also supply power (maximum 5 V/1 A) to USB devices with a USB cable.
4. AUDIO OUTPUT DIGITAL COAXIAL jack: Connect a pre-main amplifier with digital coaxial cable.
5. ETHERNET jack: Connect to the network with an ethernet cable.
6. RI REMOTE CONTROL jack: Connect an Onkyo product with an RI jack using the included RI cable to synchronized with this unit. (➔P8)
7. AUDIO OUTPUT ANALOG jacks: Connect a pre-main amplifier with the included analog audio cable.

Remote Controller
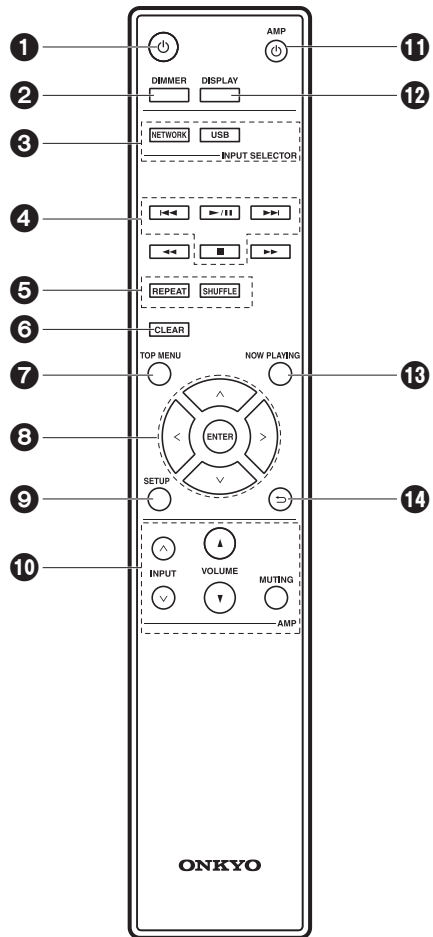
1. ⏻ button: Turns the unit on or into standby mode.
2. DIMMER button: Switch the display off or adjust the brightness of the display in two steps.
3. INPUT SELECTOR buttons: Switches the input to be played.
4. Play buttons:
    ◄◄: Move to the track before the one being played.
    ►/❚❚: Play or pause play.
    ►►❙: Move to the next track.
    ■: Stop playback.
   • Depending on the input, the operation may not start.
5. REPEAT button: Set repeat play.
    SHUFFLE button: Set shuffle play.
6. CLEAR button: Used when entering text, etc
7. TOP MENU button: Move to the top menu of the selected input.
8. Cursors, ENTER button: Select the item with the cursors and press ENTER to confirm.
9. SETUP button: Displays the setup menu.
10. Amplifier control buttons
    Use to switch the input, adjust the volume, etc., of an Onkyo pre-main amplifier.
    • Operation may not be possible with some amplifiers.
11. ⏻ AMP button: Switch an Onkyo pre-main amplifier between on and standby.
    • Operation may not be possible with some amplifiers.
12. DISPLAY button: Switches the information on the display.
13. NOW PLAYING button: When you have changed the display during play, for example, this button returns the display to show information about the file being played.
14. ↩ button: Returns the display to the previous state.

• ◄◄ and ►► are not used.

Approx. 5 m   30°   30°
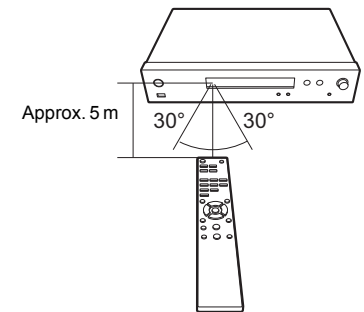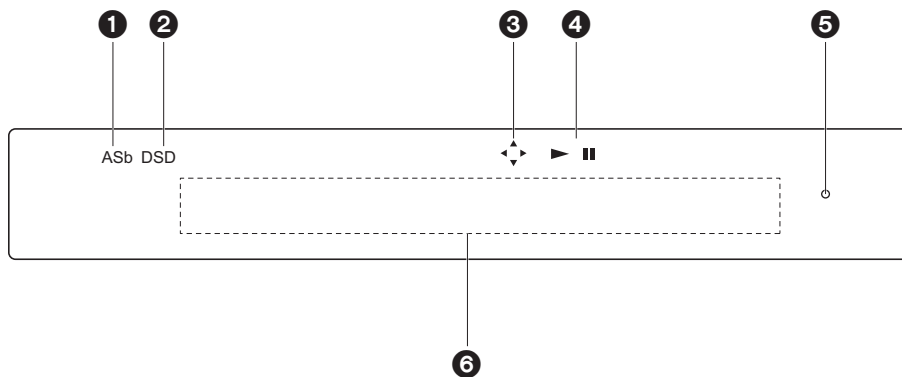
Display

1. ASb: Lights when "Auto Standby" (➔P22) is set to "On".
2. DSD: Lights when the audio signal being input is DSD.
3. Lights when remote controller cursor operations are possible.
4. Displays the play status.
5. DIMMER indicator: Lights when you have pressed DIMMER to turn the display off.
6. Message display: Displays information about tracks and menus.
   - Characters that cannot be displayed on this unit are replaced with asterisks (＊).
   - The following icons are displayed.
     ▭ : Folder
     ♪ : Track title
     ▶ : Playing
     ‖ : Paused
     ♣ : Artist
     ▦ : Album
     1⟳ : 1-track repeat
     ▭⟳ : Repeat within a folder
     ⤨ : Shuffle

- When DIMMER is pressed to turn off the display, the unit may appear the same as if you

had unplugged the unit from the power outlet, but electricity is still being supplied to the unit. To completely cut the unit off from the power supply, you need to unplug the power plug (shutoff device) unit from the power outlet.

Connections with an amplifier

NS-6130

a Analog audio cable, b Digital coaxial cable
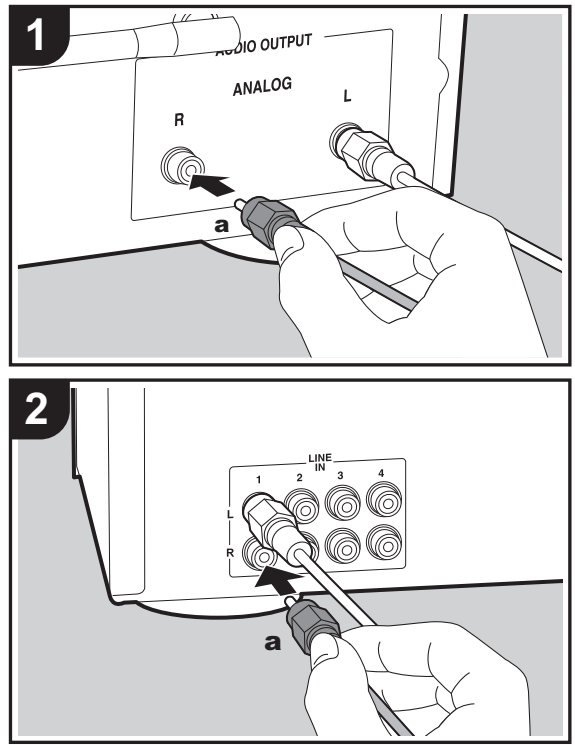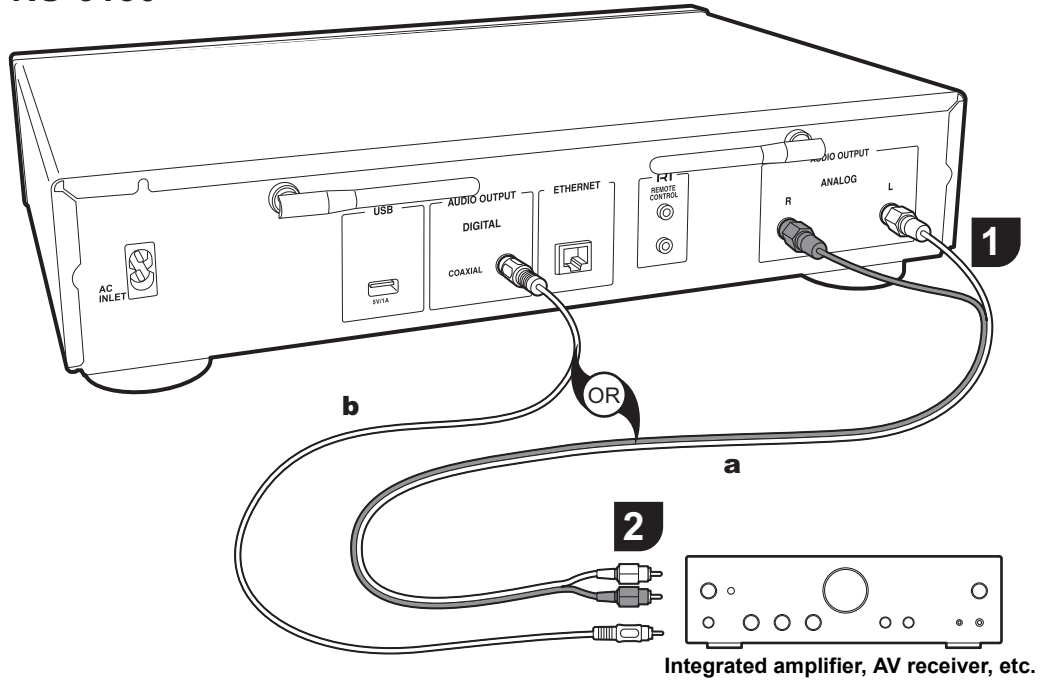
You can play the audio from network features such as internet radio through speaker systems connected to pre-main amplifiers or AV receivers. Connect to suit the input jacks on your amplifier.

Connecting with an analog audio cable

The signal is converted to analog in the D/A converter of this unit and then output to the pre-main amplifier. Connect

the LINE IN jacks on a pre-main amplifier with the included analog audio cable to the AUDIO OUTPUT ANALOG jack on this unit.

Connecting with a digital coaxial cable

The signal is converted to analog in the D/A converter of the pre-main amplifier. Connect the COAXIAL IN jacks on a pre-main amplifier with a digital coaxial cable to the AUDIO

Integrated amplifier, AV receiver, etc.

7

OUTPUT DIGITAL COAXIAL jack on this unit.

Connecting with Onkyo RI Components

By connecting an Onkyo component with RI jack to the unit by using an optional RI cable and an analog audio cable, you can link the unit's power and input selection and enable operation with this unit's remote controller. For details, refer to the instruction manual of the component with the RI jack.
 • Some components may not support all RI functions.

NS-6130
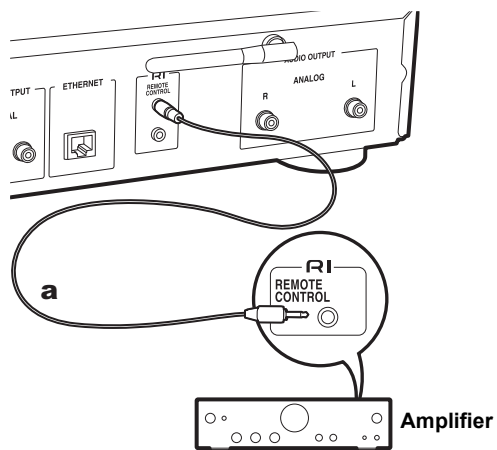
a RI cable

Connecting the power cord, etc.

1

2

a

a

AC
INLET

USB

AUDIO

DIG

COAXIAL

5V/1A
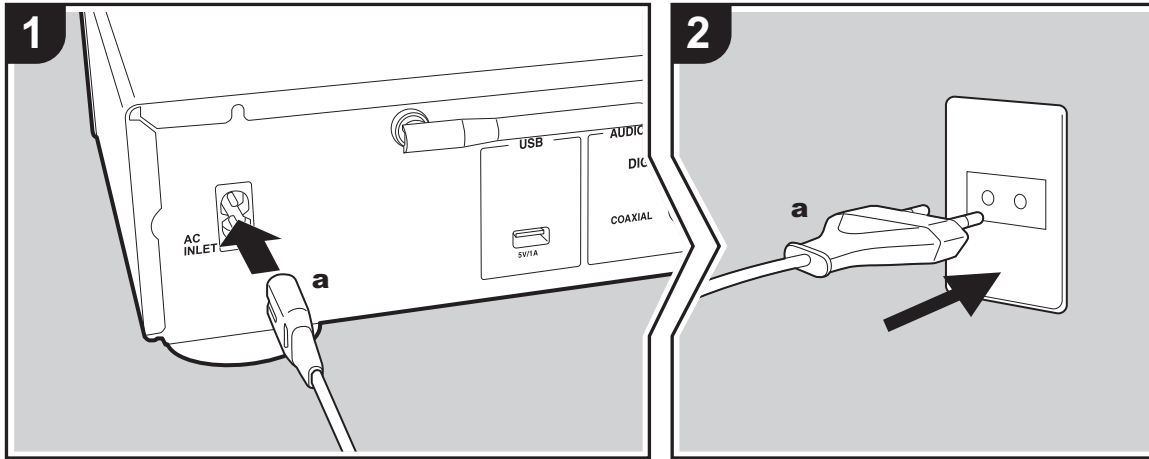
Power cord connection

This model includes a removable power cord.
The power cord must be connected only after all other connections are completed. Make sure you first connect the power cord to AC INLET terminal of the unit and then connect to the outlet. Always disconnect the outlet side first when disconnecting the power cord.

Ethernet cable connection

To connect to the network with an ethernet cable, use the ETHERNET jack. When using Wi-Fi connection, make settings in initial settings (➔P10). You can enjoy features such as internet radio and AirPlay by connecting to the network.

ETHERNET

a Power cord

EN

9
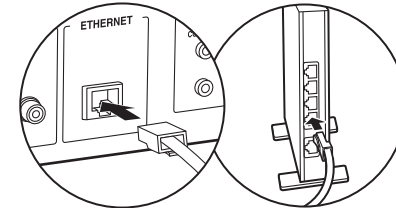
EN

Power On & Initial Setup
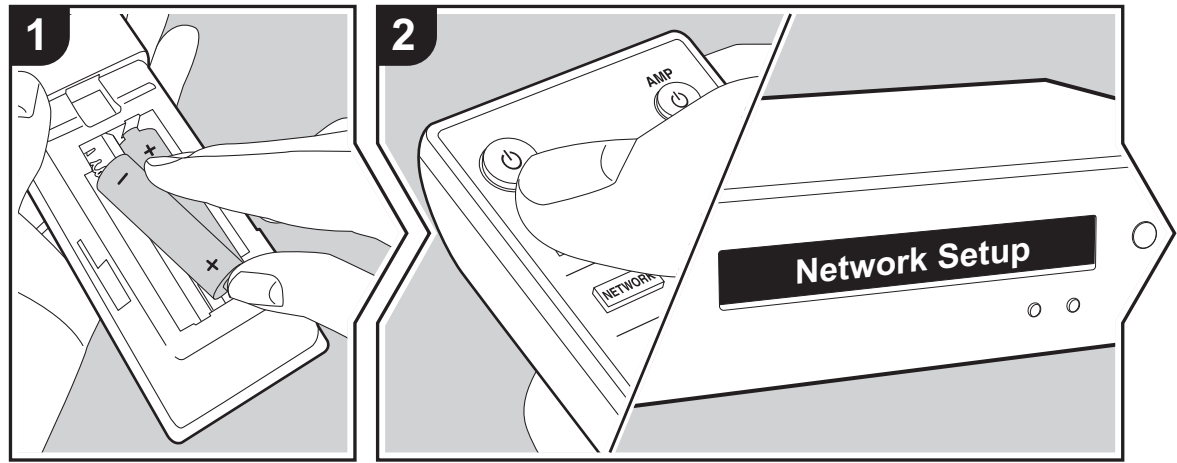
Starting up: When you press ⏻, "Now Initializing..." is displayed on the display. After this, when "Now Initializing..." goes out, you can start operating the unit.

Wi-Fi connection settings

When you first turn the power on, the Network Setup screen is displayed automatically, allowing you to easily make Wi-Fi connection settings.

> Network Setup

To set, select the item with the cursors on the remote controller and press ENTER to confirm.
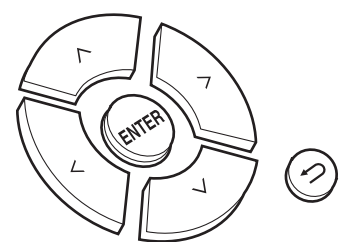
- To return to the previous display, press ⤺ .
- Turn MENU/ENTER on the main unit to the left and right to select the item, then press the dial to confirm.
1. Press ENTER when "Network Setup" is displayed.
2. To make Wi-Fi settings, select "Wi-Fi". If you have connected with an ethernet cable, select "Wired(Exit)" with ∧/∨ on the remote controller and press ENTER.

> Wi-Fi

↓ ↑

> Wired (Exit)
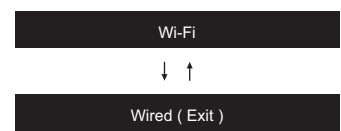
3. If you selected "Wi-Fi", select the setting method with ∧/

10

∨ on the remote controller and press ENTER.

iOS device

↓ ↑

Scan Networks

↓ ↑

Input SSID
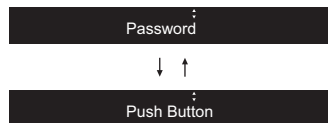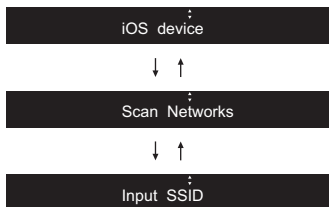
• To redo the initial settings, press SETUP on the remote controller, select "Wi-Fi" in "Network" - "Connection", then select "Wi-Fi Setup".

■ iOS device

Set by sharing the iOS device's Wi-Fi settings with this unit.
1. Connect the iOS device by Wi-Fi.
2. Select this device in the "SET UP NEW AIRPLAY SPEAKER..." item on the screen of the iOS device and select "Next".
   • This unit is displayed as "Onkyo NS-6130 XXXXXX".
3. After "Check Network" is displayed on this unit, when the Wi-Fi settings are complete, the display changes. Select "Done" on the screen of the iOS device.

■ Scan Networks

From the list of SSID for access points such as wireless LAN routers, select the required SSID and make the settings.
1. Select the SSID of the access point you want to connect with ∧/∨ on the remote controller and press ENTER.

My SSID

2. Select "Password" or "Push Button" with ∧/∨ on the remote controller and press ENTER. If the access point has an automatic connection button, by selecting "Push Button" you can connect without entering a password.

Password

↓ ↑

Push Button

3. If you select "Password", enter the password of the access point. For details on how to enter text, refer to "Entering text" (➜P19).

   If you select "Push Button", then after pressing and holding the automatic setting button on the access point for the required amount of time, press ENTER on the remote controller.
4. After "Check Network" is displayed, the information of the display switches when the Wi-Fi settings are complete.
   • If "Retry" appears on the display, press ENTER to retry the settings.

■ Enter SSID of the access point

Set by entering the SSID of the access point you want to connect.
1. Enter the SSID. For details on how to enter text, refer to "Entering text" (➜P19).
2. Select the authentication method with ∧/∨ on the remote controller and press ENTER.

None

↓ ↑

WEP

↓ ↑

WPA

↓ ↑
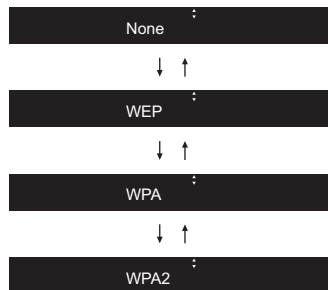
WPA2

• If you select "None", proceed to step 3. If you select

"WEP", "WPA", or "WPA2", enter the password and confirm.
3. After "Check Network" is displayed, the information of the display switches when the Wi-Fi settings are complete.
   • If "Retry" appears on the display, press ENTER to retry the settings.

USB Storage Device/HDD

1

DIMMER DISPLAY

NETWORK USB

INPUT SELECTOR

2

ON/STANDBY

USB

USB AUDIO OUTPUT ETHERNET REMOTE CONTROL

DIGITAL

COAXIAL

a **b** **c**

DIMMER USB

NETWORK USB INPUT SELECTOR

REPEAT SHUFFLE

NOW PLAYING

e **f**

REPEAT

CLEAR NOW PLAYING

TOP MENU

ENTER

SETUP

MUTING

d
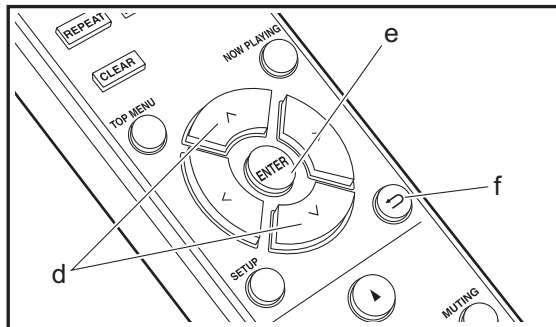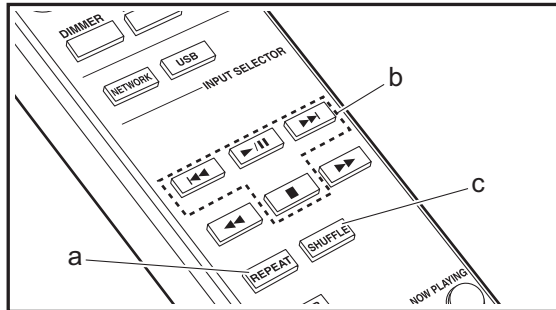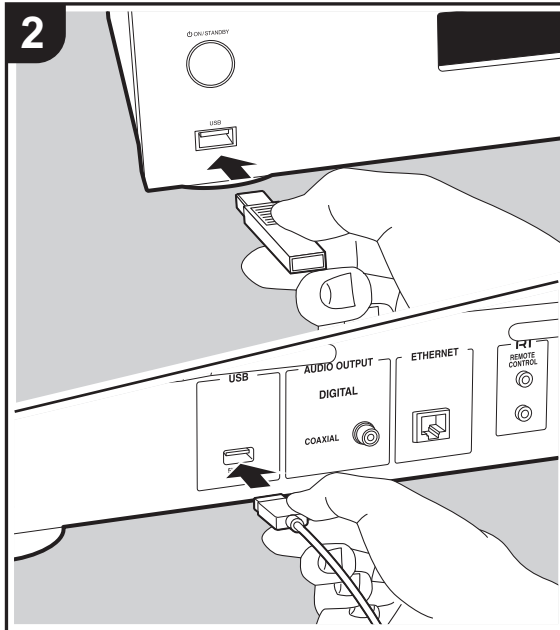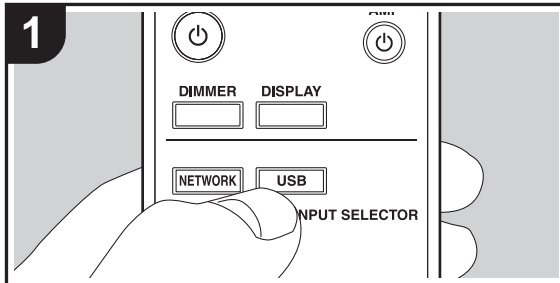
Basic operations

You can play music files by connecting a USB storage device or HDD (hard disk drive) to the USB port on the front or rear of the unit.
- The USB port on the front supports a maximum 5 V/0.5 A power supply. If the HDD requires more than this, connect to the USB port (maximum 5 V/1 A) on the rear of the unit.

1. Turn the unit on.
2. Press USB to select "USB (F)" (USB port on the front panel) or "USB (R)" (USB port on the rear panel).

USB (F)

3. Plug your USB storage device or HDD into the USB port on the front or rear.
4. Press ENTER (e) after reading is complete.
5. Select the folder or music file with ∧/∨ (d) on the remote controller and press ENTER (e) to confirm. To return to the previous display, press ⤺ (f).
6. Use play buttons (b) to stop play or choose tracks to play.
- The display of album name and artist name is supported with MP3/WMA/Apple Lossless/FLAC/AAC/DSD (DSF only) format music files.
- Characters that cannot be displayed by this unit appear as "∗".
- The USB port of this unit conforms with the USB 2.0 standard. The transfer speed may be insufficient for some content you play, which may cause some interruption in sound.

Repeat play

1. Repeatedly press REPEAT (a) during play to display ᵻᑯ₅ or ᑯᑯ₅ on the display.
   ᵻᑯ₅: Repeat play of the selected individual track.
   ᑯᑯ₅: Repeat play of all tracks within a folder.
   To cancel repeat play, press REPEAT (a) several times

until the icons disappear.

Shuffle play

1. Press SHUFFLE (c) during play to display ⤨ on the display.
   ⤨: Play tracks in a folder randomly.
   To cancel shuffle play, press SHUFFLE (c) until the icon disappears.

USB Storage / HDD Device Requirements

- Note that operation is not guaranteed with all USB storage devices or HDD.
- This unit can use USB storage devices that comply with the USB mass storage device class standard. (However, there are still devices that cannot be played by this unit even if they comply with the USB mass storage class standard.)
- The unit is also compatible with USB storage devices using the FAT16 or FAT32 file system formats. Other formats such as exFAT, NTFS, and HFS cannot be played by this unit.
- If the USB storage device has been partitioned, each section will be treated as an independent device.
- Up to 20,000 tracks per folder can be displayed, and folders may be nested up to 16 levels deep.
- USB hubs and USB storage devices with hub functions are not supported. Do not connect these devices to the unit.
- USB storage devices with security function are not supported on this unit.
- If the USB storage device or HDD comes with an AC adapter, we recommend that you use its AC adapter to power it.
- Media inserted to the USB card reader may not be available in this function. Furthermore, depending on the USB storage device, proper reading of the contents may

not be possible.
- We accept no responsibility whatsoever for the loss or damage to data stored on a USB storage device when that device is used with this unit. We recommend that you back up your important music files beforehand.

Supported Audio Formats

For server playback and playback from a USB storage device, this unit supports the following music file formats. Note that sound files that are protected by copyright cannot be played on this unit.

MP3 (.mp3/.MP3):
- Supported formats: MPEG-1/MPEG-2 Audio Layer 3
- Supported sampling rates: 44.1 kHz, 48 kHz
- Supported bitrates: Between 8 kbps and 320 kbps and VBR.

WMA (.wma/.WMA):
- Supported sampling rates: 44.1 kHz, 48 kHz
- Supported bitrates: Between 5 kbps and 320 kbps and VBR.
- WMA Pro/Voice/WMA Lossless formats are not supported

WAV (.wav/.WAV):
WAV files include uncompressed PCM digital audio.
- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
- Quantization bit: 8 bit, 16 bit, 24 bit

AIFF (.aiff/.aif/.aifc/.afc/.AIFF/.AIF/.AIFC/.AFC):
AIFF files include uncompressed PCM digital audio.
- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
- Quantization bit: 8 bit, 16 bit, 24 bit

AAC (.aac/.m4a/.mp4/.3gp/.3g2/.AAC/.M4A/.MP4/.3GP/.3G2):
- Supported formats: MPEG-2/MPEG-4 Audio
- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
- Supported bitrates: Between 8 kbps and 320 kbps and VBR.

FLAC (.flac/.FLAC):
- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
- Quantization bit: 8 bit, 16 bit, 24 bit

Apple Lossless (.m4a/.mp4/.M4A/.MP4):
- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
- Quantization bit: 16 bit, 24 bit

DSD (.dsf/.dff/.DSF/.DFF):
- Supported formats: DSF/DSDIFF
- Supported sampling rates: 2.8 MHz, 5.6 MHz, 11.2 MHz

Internet Radio

1

DIMMER DISPLAY

NETWORK USB

INPUT SELECTOR

REPEAT

CLEAR

NOW PLAYING

TOP MENU

ENTER

SETUP

MUTING

a

b

c
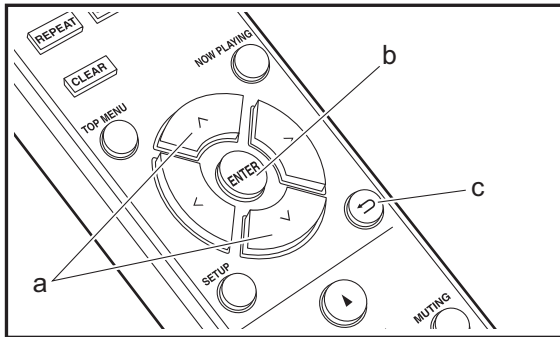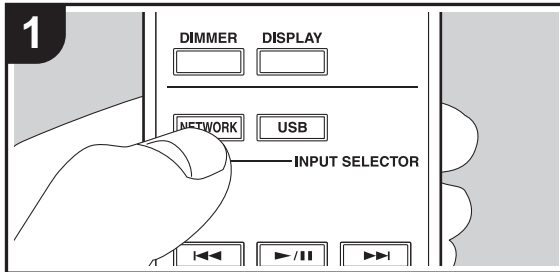
Basic operations

When this unit is connected to a network, you can listen to TuneIn or other preregistered Internet radio services. Depending on the internet radio service, the user may need to register from their computer first.
1. Turn the unit on.
2. Press NETWORK.
3. Select "TuneIn Radio", etc., with ∧/∨ (a) of the remote controller and press ENTER (b) to confirm.

TuneIn Radio

↓ ↑

Spotify

↓ ↑

Deezer

↓ ↑

TIDAL

- If "Connection Error." is displayed, check whether the network is properly connected.
4. Select the station, etc., with ∧/∨ (a) on the remote controller and press ENTER (b). To return to the previous display, press ⬑ (c).

TuneIn

You can register a station you have played as a favorite.
1. Press ENTER (b) while playing TuneIn.
2. Select "Add to My Presets" with ∧/∨ (a) on the remote controller and press ENTER (b).
3. To play a favorite, select a registered station in "My Presets", displayed first when "TuneIn Radio" selected and press ENTER (b). To delete favorites, press ENTER (b) during play, select "Remove from My Presets" and

press ENTER (b).

EN
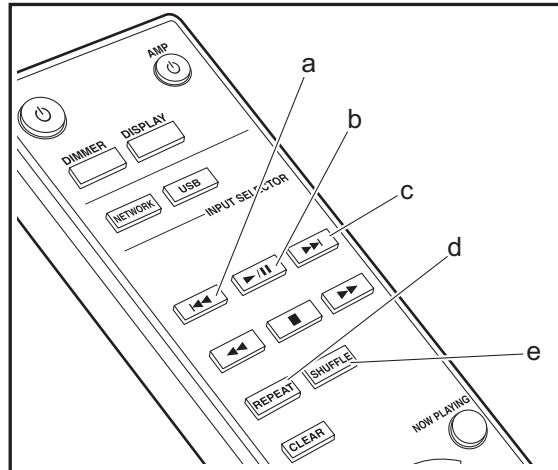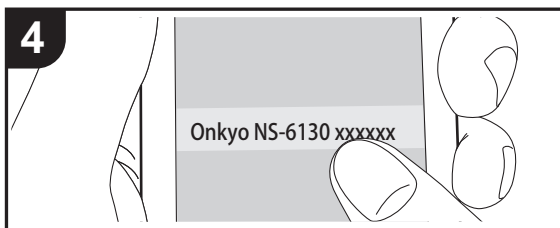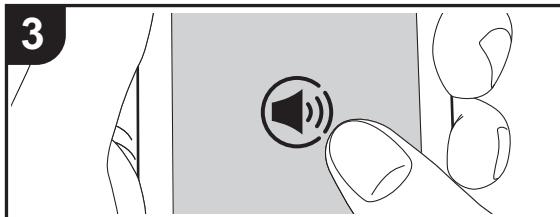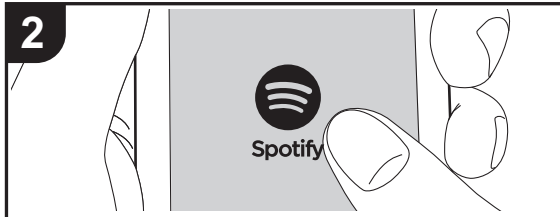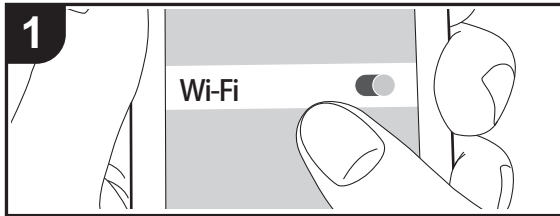
Spotify

Basic Operation

Spotify Connect play is possible by connecting this unit to the same network as a smartphone or tablet. To enable Spotify Connect, install the Spotify application on your smartphone or tablet and create a Spotify premium account.

1. Connect the smartphone to the network that this unit is connected to.
2. Click the Connect icon in the track play screen of the Spotify app.
3. Select this unit.
   • This unit is displayed as "Onkyo NS-6130 XXXXXX".
4. This unit turns on automatically and the input selector changes to NET and streaming of Spotify starts.
   • If "Option" - "PWR Setting" - "NET Stby" is set to "Off" in the setup menu, manually turn the unit on and then press NETWORK on the remote controller.
• Refer to the following for Spotify settings:
  www.spotify.com/connect/
  The Spotify software is subject to third party licenses found here:
  www.spotify.com/connect/third-party-licenses

The following remote controller operations are also possible.
(a) This button plays the previous track.
(b) Pressed during play this button pauses playback. Pressed while paused, and it restarts play.
(c) This button plays the next track.
(d) Start repeat play.
(e) Start shuffle play.

AirPlay®
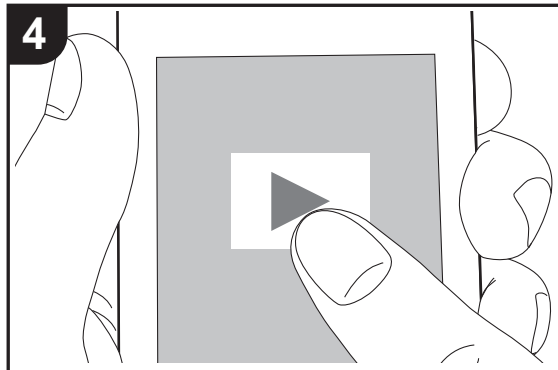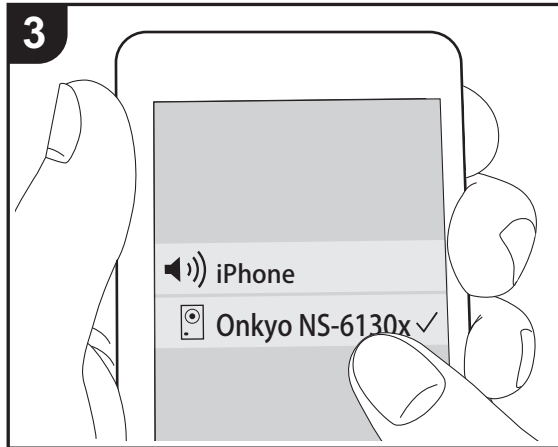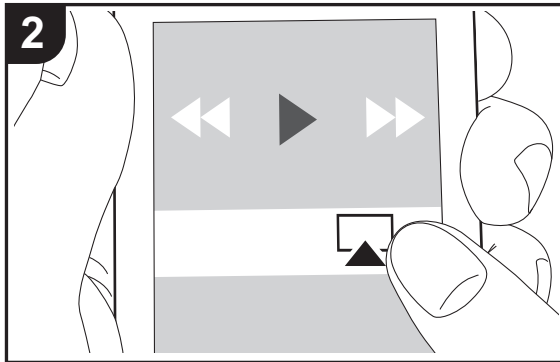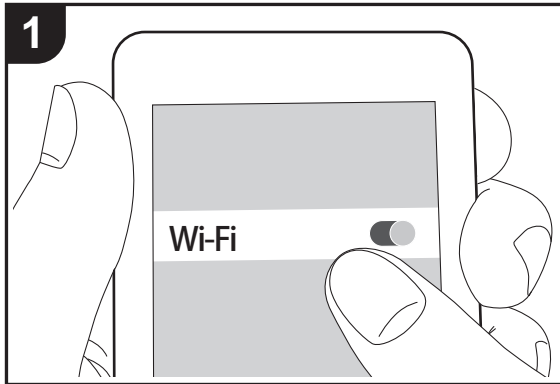
Basic Operation

You can wirelessly enjoy the music files on an iPhone®, iPod touch®, or iPad® connected to the same access point as this unit. Update the OS version on your iOS device to the latest version.

1. Turn the unit on.
2. Connect the iOS device to the same network as this unit.
3. Tap the AirPlay icon ⏏ in the control center of the iOS device and select this unit from the list of devices displayed, and tap "Done".
   • This unit is displayed as "Onkyo NS-6130 XXXXXX".
   • If an "AirPlay PW" has been set on this unit, enter the password you set.
4. Play the music files on the iOS device.
 • In the setup menu displayed by pressing SETUP on the remote controller, when "Option" - "PWR Setting" - "NET Stby" is set to"On", when play of AirPlay starts, this unit turns on automatically and play starts.
 • Due to the characteristics of AirPlay wireless technology, the sound produced on this unit may slightly be behind the sound played on the AirPlay-enabled device.
 • SHUFFLE or REPEAT on the remote controller does not work. Operate from the iOS device.

You can also play the music files on a computer with iTunes (Ver. 10.2.2 or later). Make sure this unit and the computer are connected to the same network, click the AirPlay icon ⏏ in iTunes, select this unit from the list of devices displayed, and start play of a music file.
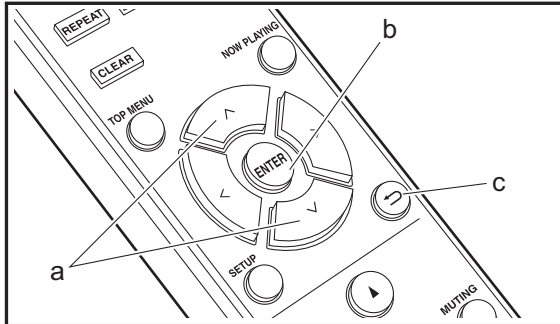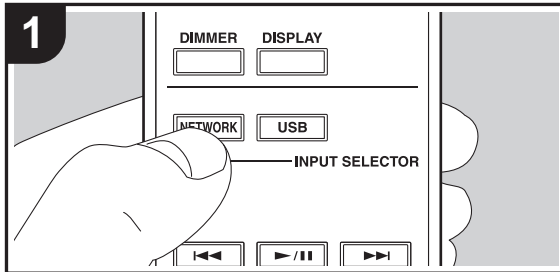
Music Server

It is possible to stream music files stored on PCs or NAS devices connected to the same network as this unit. The network servers this unit is compatible with are those PCs with players installed that have the server functionality of Windows Media® Player 11 or 12, or NAS that are compatible with home network functionality. You may need to make some settings in advance to use Windows Media® Player 11 or 12. Note that only music files registered in the library of Windows Media® Player can be played.

Configuring Windows Media® Player

■ Windows Media® Player 11

1. Turn on your PC and start Windows Media® Player 11.
2. In the "Library" menu, select "Media Sharing" to display a dialog box.
3. Select the "Share my media" check box, and then click "OK" to display the compatible devices.
4. Select this unit, and then click "Allow".
   • When it is clicked, the corresponding icon is checked.
5. Click "OK" to close the dialog.
 • Depending of the version of Windows Media® Player, there may be differences in the names of items you can select.

■ Windows Media® Player 12

1. Turn on your PC and start Windows Media® Player 12.
2. In the "Stream" menu, select "Turn on media streaming" to display a dialog box.
 • If media streaming is already turned on, select "More streaming options..." in the "Stream" menu to list players in the network, and then go to step 4.
3. Click "Turn on media streaming" to list players in the network.
4. Select this unit in "Media streaming options" and check that it is set to "Allow".
5. Click "OK" to close the dialog.
 • Depending of the version of Windows Media® Player,

there may be differences in the names of items you can select.

Playing

1. Turn the unit on.
2. Start the server (Windows Media® Player 11, Windows Media® Player 12, or NAS device) containing the music files to play.
3. Make sure that the PCs and/or NASs are properly connected to the same network as this unit.
4. Press NETWORK.
5. Select "Music Server" with ∧/∨ (a) on the remote controller and press ENTER (b).

```
Music Server
```
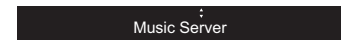
6. Select the server and music file with ∧/∨ (a) on the remote controller and press ENTER (b) to confirm. To return to the previous display, press ⏎ (c).
 • If "Connection Error." is displayed, check whether the network is properly connected.
 • Depending on the server being used and the files played, elapsed play time and remaining play time may not be displayed.
 • For music files on a server, there can be up to 20,000 tracks per folder, and folders may be nested up to 16 levels deep.

Controlling Remote Playback from a PC

You can use this unit to play music files stored on your PC by operating the PC inside your home network. The unit supports remote playback with Windows Media® Player 12.
1. Turn on your PC and start Windows Media® Player 12.
2. Open the "Stream" menu and check that "Allow remote control of my Player..." is checked. Click "Turn on media streaming" to list players in the network.
3. Select and right-click the music file to play with Windows

Media® Player 12. To remotely play a music file on another server, open the target server from "Other Libraries" and select the music file to play.
4. Select this unit in "Play to" to open the "Play to" window of Windows Media® Player 12 and start playback on the unit. If your PC is running on Windows® 8.1, click "Play to", and then select this unit. If your PC is running on Windows® 10, click "Cast to Device", and select this unit. Operations during remote playback are possible from the "Play to" window on the PC.
• Remote playback is not possible when using a network service or playing music files on a USB storage device.
• Depending of the version of Windows, there may be differences in the names of items you can select.

Supported Audio Formats

For server playback and playback from a USB storage device, this unit supports the following music file formats.
• Note that playback via wireless LAN of sampling rates of 88.2 kHz or higher, and DSD are not supported.
• Remote play of FLAC, and DSD is also not supported.
• Variable bit-rate (VBR) files are supported. However, playback times may not be displayed correctly.
• Remote playback does not support the gapless playback.

MP3 (.mp3/.MP3):
• Supported formats: MPEG-1/MPEG-2 Audio Layer-3
• Supported sampling rates: 44.1 kHz, 48 kHz
• Supported bitrates: Between 8 kbps and 320 kbps and VBR.

WMA (.wma/.WMA):
• Supported sampling rates: 44.1 kHz, 48 kHz
• Supported bitrates: Between 8 kbps and 320 kbps and VBR.
• WMA Pro/Voice/WMA Lossless formats are not supported

WAV (.wav/.WAV):
WAV files include uncompressed PCM digital audio.
• Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
• Quantization bit: 8 bit, 16 bit, 24 bit

AIFF (.aiff/.aif/.aifc/.afc/.AIFF/.AIF/.AIFC/.AFC):
AIFF files include uncompressed PCM digital audio.
• Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
• Quantization bit: 8 bit, 16 bit, 24 bit

AAC (.aac/.m4a/.mp4/.3gp/.3g2/.AAC/.M4A/.MP4/.3GP/.3G2):
• Supported formats: MPEG-2/MPEG-4 Audio
• Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
• Supported bitrates: Between 8 kbps and 320 kbps and VBR.

FLAC (.flac/.FLAC):
• Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
• Quantization bit: 8 bit, 16 bit, 24 bit

LPCM (Linear PCM):
• Supported sampling rates: 44.1 kHz, 48 kHz
• Quantization bit: 16 bit

Apple Lossless (.m4a/.mp4/.M4A/.MP4):
• Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
• Quantization bit: 16 bit, 24 bit

DSD (.dsf/.dff/.DSF/.DFF):
• Supported formats: DSF/DSDIFF
• Supported sampling rates: 2.8 MHz, 5.6 MHz, 11.2 MHz

Entering text
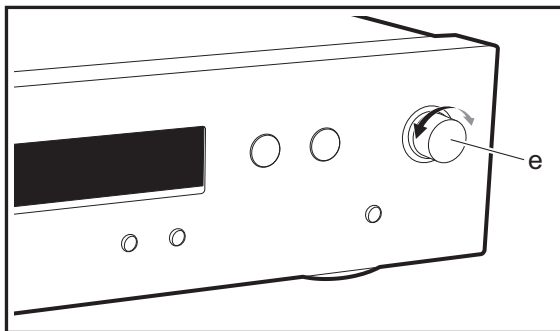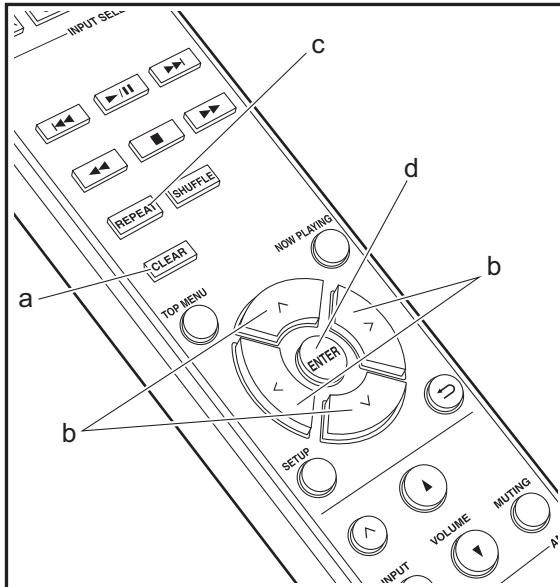
Text entry, for passwords, etc., uses the following procedure.
1. Select the characters or symbols with ∧/∨/</> (b).

abc**d**efghij

2. Press ENTER (d) to confirm the selected character. Repeat this to enter text.
   • Press REPEAT (c) to change the characters to be enter, for example to switch between upper and lower case.
   • Press CLEAR (a) to delete all the input characters.
3. After completing input, select "OK" with ∧/∨/</> (b) and press ENTER (d).
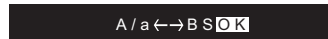
A / a ←→ B S **O K**

• Turn MENU/ENTER (e) on the main unit to the left and right to select the item, then press the dial to confirm.

Characters that can be entered

a

a	b	c	d	e	f	g	h	i	j	k	l	m
n	o	p	q	r	s	t	u	v	w	x	y	z
1	2	3	4	5	6	7	8	9	0	-	^	\
,	.	/	;	:	@	[	]	S	p	a	c	e
A / a		<-	->	B	S	O	K					

A

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
!	"	#	$	%	&	'	(	)	_	=	~		
<	>	?	+	*	`	{	}	S	p	a	c	e
A / a		<-	->	B	S	O	K					

Space: A single space the size of a character is entered.

A/a: Switches between characters displayed. (a → A)

← (left) / → (right) : Select to move the cursor.

BS (backspace): Removes a character on the left of the cursor. The cursor moves left.

OK: Confirms the entered content.

Supplementary information for player functions

Due to firmware (the software for the system) updates after you make your purchase or firmware changes during production of the product, there may be additions or changes to the features available compared to what is in the instruction manual.
For information about player functions that have been added or changed, see the following references.

Supplementary information for player functions
>>> Click here <<<

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Advanced Settings

1
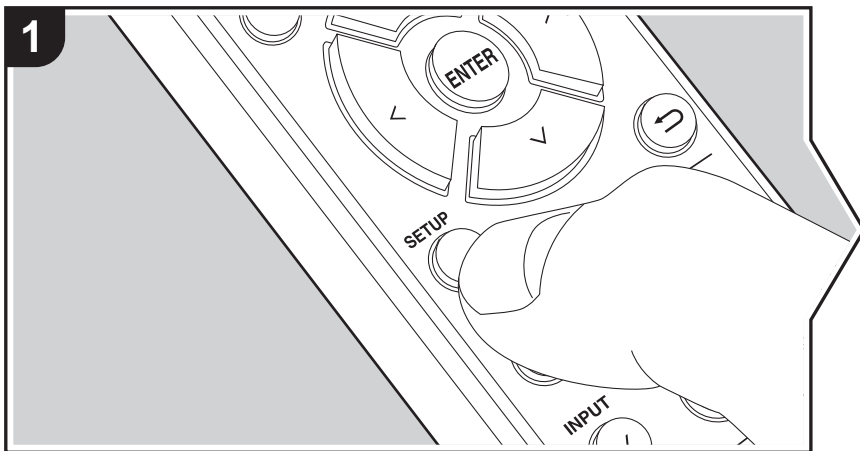
The unit allows you to configure advanced settings to provide you with an even better experience.
1. Press SETUP on the remote controller.
2. Select the item with ∧/∨ on the remote controller and press ENTER to confirm.

Network

↓ ↑

Option

↓ ↑

System Info

↓ ↑

Factory Reset

↓ ↑

Update
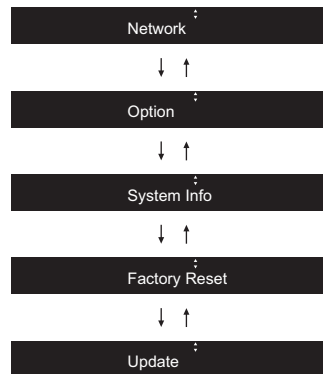
3. Select the settings with ∧/∨/</> on the remote controller and press ENTER to confirm.
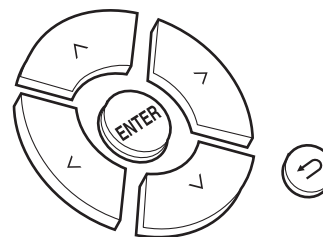
• To return to the previous screen, press ⤺ .
4. To exit the settings, press SETUP.

Network

■ Connection

Select the type connection to the network.

Select the item with ⟨ / ⟩ on the remote controller and press ENTER.
"Wi-Fi": To connect via wireless LAN
"Wired" (Default Value): To connect via wired LAN
Perform "Wi-Fi Setup" if you select "Wi-Fi".

■ Wi-Fi Setup

Make Wi-Fi connection settings. (➜P10)
This can be set only when "Wi-Fi" is selected in "Connection".
• You can make Wi-Fi connection settings using a web browser on a computer. For details, refer to "Web Setup" (➜P23).

■ DHCP

Select the item with ⟨ / ⟩ on the remote controller and press ENTER .
"On" (Default Value): Auto configuration by DHCP
"Off": Manual configuration without DHCP
If selecting "Off", you must set "IP Address", "Subnet Mask", "Gateway", and "DNS" manually.

■ IP Address

Displays/Sets the IP address.

■ Subnet Mask

Displays/Sets the subnet mask.

■ Gateway

Displays/Sets the gateway.

■ DNS

Displays/Sets the primary DNS server.

■ Proxy URL

Displays/Sets the proxy server URL.

■ Proxy Port

Displays/Sets the proxy server port number when you enter "Proxy URL".

■ Friendly Name

Change the device name for this unit which is shown on other devices connected to the network to an easily recognized name. You can input up to 31 characters. For details on how to enter text, refer to "Entering text" (➜P19).

■ AirPlay PW

You can set a password of up to 31 characters so that only registered users can use AirPlay. For details on how to enter text, refer to "Entering text" (➜P19).

■ Network Check

You can check the network connection. The confirmation results are displayed when you press ENTER.

Option
■ PWR Setting

Auto Standby	This setting places the unit on standby automatically after 20 minutes of inactivity without any audio input. "On" (Default Value): The unit will automatically enter standby mode. "Off ": The unit will not automatically enter standby mode.
NET Stby	When this feature is turned "On", you can turn on the power of the unit via the network using an application that can control this unit. Select the item with ⟨ / ⟩ on the remote controller and press ENTER. • Setting to "On" (Default Value) increases the power consumption even when the unit is on standby. • "NET Stby", which suppresses power consumption, may be disabled when the network connection is lost.

■ Dig Filter

Select the item with ⟨ / ⟩ on the remote controller and press ENTER.
"SHARP" (Default Value): Sound with more structure and firmness
"SHORT": Sound that starts quick and seems to move forward

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"SLOW": Soft and fluid sound

■ Digital Out

Make settings for digital audio output.
Select the item with ＜/＞ on the remote controller and press ENTER.
"On" (Default Value), "Off"

System Info

The MAC address of this unit and the current firmware version will be displayed.
Select "MAC address" or "Firmware" with ∧/∨ on the remote controller.

Factory Reset

Reset the settings of this unit to the status at the time of shipment. We recommend that you take a note of the settings you have changed before going ahead with a factory reset.
To reset, select "Reset Start" with ∧/∨ on the remote controller and press ENTER. Press ENTER again to start the rest. The unit will be placed on standby automatically when initializing is completed.

Update

"Update" is not displayed if there are no firmware updates.

■ via Network

Press ENTER to select when you want to update the firmware via network.

■ via USB

Press ENTER to select when you want to update the firmware via USB.

Web Setup

You can make Wi-Fi connection settings using a web browser on a computer. Be sure your computer is connected to the router wirelessly.
If this unit is connected to the router using ethernet cable, you can not do this setting.
1. Turn the unit on.
2. Press SETUP on the remote controller, select "Wi-Fi" in "Network" - "Connection", then

select "Wi-Fi Setup".
3. Press ∧/∨ to select "iOS device" and press ENTER.
4. In the list of wireless LAN connections on your computer, select SSID of this unit (softap_0009B0xxxxxx).
   • "xxxxxx" in SSID is the lower three bytes of the MAC address.
5. Open the web browser on your computer and access http://192.168.200.1.
6. The "Web Setup" menu is displayed. Make network settings for this unit.
 • Depending on the equipment being used or connection environment, this function may not work.
 • Consult the appropriate operating instructions for information regarding operation of the computer.
 • Since this kind of connection is not encoded, a minor security risk may be involved.

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Firmware Update

The updating function on this unit

This unit has functionality to update the firmware (the system software) over a network or by the USB port. This enables us to make improvements to a variety of operations and to add features.

How to update

There are two methods for updating the firmware: via network and via USB. The update may take about 5 minutes to complete for either method: via network or via USB. Furthermore, existing settings are guaranteed regardless of the method used for update.

- For the latest information on updates, visit our company's website. There is no need to update the firmware on this unit if there is no update available.
- When performed over the network, it may take even more time depending on the connection status.
- During an update, do not
  - Disconnect and reconnect any cable or USB storage device, or perform any operation on the component such as turn off its power
 - Accessing this unit from a PC or smartphone using an application

Disclaimer: The program and accompanying online documentation are furnished to you for use at your own risk. We will not be liable and you will have no remedy for damages for any claim of any kind whatsoever concerning your use of the program or the accompanying online documentation, regardless of legal theory, and whether arising in tort or contract.
In no event will we be liable to you or any third party for any special, indirect, incidental, or consequential damages of any kind, including, but not limited to, compensation, reimbursement or damages on account of the loss of present or prospective profits, loss of data, or for any other reason whatsoever.

Updating the Firmware via Network

- Check that the unit is turned on, and the connection to the Internet is secured.
- Turn off the controller component (PC etc.) connected to the network.

- Stop any playing Internet radio, USB storage device, or server content.

1. "Network" is displayed on the display when SETUP on the remote controller is pressed.

```
Network
```
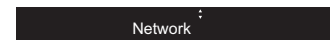
2. Press ∧/∨ and ENTER to select "Update" - "via Network" in order.

```
Update
```

- "Update" is not displayed if there are no firmware updates.

3. Press ENTER to start the firmware update.
   - "Completed" is displayed when the update is complete.

4. Press ⏻ON/STANDBY on the main unit to switch the unit to standby. The process is completed and your firmware is updated to the latest version.

If an error message is displayed: When an error occurs, "✻-✻✻ Error!" is displayed on the display of this unit. ("✻" represents an alphanumeric character.) Check the following:

- **✻ -01, ✻ -10:** Ethernet cable not found. Connect the Ethernet cable properly.
- **✻-02, ✻-03, ✻-04, ✻-05, ✻-06, ✻-11, ✻-13, ✻-14, ✻-16, ✻ -17, ✻ -18, ✻ -20, ✻ -21:** Internet connection error. Check the following:
  – The router is turned on
  – This unit and the router are connected via the network
  Try to disconnect and then connect again the power to the unit and router. This may solve the problem. If you are still unable to connect to the Internet, the DNS server or proxy server may be temporarily down. Check the service status with your ISP provider.
- **Others:** Disconnect then reconnect the AC power cord, then repeat from the beginning.

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Updating via USB

• Prepare a 128 MB or larger USB storage device. FAT16 or FAT32 file system format.
• Delete any data stored on the USB storage device.
• Turn off the controller component (PC etc.) connected to the network.
• Stop any playing Internet radio, USB storage device, or server content.
• Some USB storage devices may take long to load, may not be loaded correctly, or may not be correctly fed depending on the device or their content.
• We will not be liable whatsoever for any loss or damage of data, or storage failure arising from the use of the USB storage device with this unit. Thank you for your understanding.
1. Connect the USB storage device to your PC.
2. Download the firmware file from our company's website to your PC and unzip.
   Firmware files are named in the following way:
   ONKNAP ＊＊＊＊ _ ＊＊＊＊＊＊＊＊＊＊＊＊ _ ＊＊＊ .zip
   Unzip the file on your PC. The number of unzipped files and folders varies depending on the model.
3. Copy all unzipped files and folders to the root folder of the USB storage device.
   • Make sure to copy the unzipped files.
4. Connect the USB storage device to the USB port of this unit.
   • If you connect a USB hard disk drive to the USB port of the unit, we recommend that you use its AC adapter to power it.
   • If the USB storage device has been partitioned, each section will be treated as an independent device.
5. "Network" is displayed on the display when SETUP on the remote controller is pressed.

> **Network**

6. Press ∧/∨ and ENTER to select "Update" - "via USB" in order.

> **Update**

• "Update" is not displayed if there are no firmware updates.
7. Press ENTER to start the firmware update.
   • "Completed" is displayed when the update is complete.
8. Press ⏻ON/STANDBY on the main unit to switch the unit to standby. The process is completed and your firmware is updated to the latest version.
9. Remove the USB storage device from this unit.

If an error message is displayed: When an error occurs, " ＊ - ＊＊ Error!" is displayed on the display of this unit. Check the following:
• **＊ -01, ＊ -10:** USB storage device not found. Check whether the USB storage device or USB cable is correctly inserted to the USB port of this unit. Connect the USB storage device to an external power source if it has its own power supply.
• **＊ -05, ＊ -13, ＊ -20, ＊ -21:** The firmware file is not present in the root folder of the USB storage device, or the firmware file is for another model. Retry from the download of the firmware file.
• **Others:** Disconnect then reconnect the AC power cord, then repeat from the beginning.

Troubleshooting

Before starting the procedure

When operation is unstable, problems may be solved by simply turning the power on or to standby or disconnecting/connecting the power cord, rather than reviewing settings and operations. Try the simple measures on both the unit and the connected device. If the problem isn't fixed after referring to "Troubleshooting", resetting the unit to the status at the time of shipment may solve the problem. Note that your settings will also be initialized when you reset, so we recommend that you note down your settings before doing the following.

Resetting the unit (this resets the unit settings to the default)

1. Press SETUP on the remote controller, select "Factory Reset" - "Reset Start" in the Setup screen and press ENTER.
2. Press ENTER.
3. The unit switches to standby and the settings are reset.

■Power

Cannot turn on the unit
• Unplug the power cord from the wall outlet, wait 5 seconds or more, then plug it in again.

The unit turns off unexpectedly
• The unit automatically switches to standby when the "Option" - "PWR Setting" - "Auto Standby" setting in the Setup menu functions.

■The display doesn't light

• The display may go dim while the DIMMER is working, and may also turn off. Press DIMMER button and change the brightness level of the display.

■Wi-Fi Connection

• Try plugging/unplugging the power supply of wireless LAN router and the unit, check the wireless LAN router power-on status, and try reboot of the wireless LAN router.

Cannot connect to the access point
• Check that the setting of SSID and encryption (WEP, etc.) is correct. Make sure the network settings of the unit is properly set.
• Connection to an SSID that includes multi-byte characters is not supported. Name the SSID of the wireless LAN router using single-byte alphanumeric characters only and try again.
• When the wireless LAN router setting is at stealth mode (mode to hide the SSID key) or when ANY connection is off, the SSID is not displayed. Change the setting and try again.

Connected to an SSID different to the SSID selected
• Some access points allow you to set multiple SSIDs for one unit. If you use the automatic setting button on such a router, you may end up connecting with a different SSID from the SSID you wanted to connect to. Use the connection method requiring you to enter a password if this happens.

Playback is interrupted and communication does not work
• Shorten the distance from the access point or remove obstacles to improve visibility, and try again. Place the unit away from microwave ovens or other access points. It is recommended to place the access point and the unit in the same room.
• If there is a metallic object near the unit, wireless LAN connection may not be possible as the metal can effect on the radio wave.
• When other access point are used near the unit, several issues such as interrupted playback and communication

may occur. You can avoid these issues by changing the channel of the access point. For instructions on changing channels, see the instruction manual provided with the access point.

■Cannot Play USB storage device / HDD

• Check whether the USB storage device or USB cable is correctly inserted to the USB port of the unit.
• Disconnect the USB storage device from the unit, and then try reconnecting.
• This unit may not recognize USB storage devices and HDDs as proper devices sometimes. Try switching this unit to standby and then turning it on again.
• Depending on the type of format, the playback may not be performed normally. Check the type of the file formats that is supported. (➡P13)
• Cautions regarding USB and HDD devices (➡P13)

■Network function

• If you cannot select a network service, it will become selectable when the network function is started.
• Try plugging/unplugging the power supply of this unit and the router, and try rebooting the router.

Cannot access the Internet radio
• Certain network service or contents available through the unit may not be accessible in case the service provider terminates its service.
• Make sure that your modem and router are properly connected, and make sure they are both turned on.
• Depending on ISP, setting the proxy server is necessary.
• Make sure that the used router and/or modem is supported by your ISP.

Cannot access the network server
• This unit needs to be connected to the same router as the network server.

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• This unit is compatible with Windows Media® Player 11 or 12 network servers or NAS that are compatible with home network functionality. Furthermore, when using a PC, only music files registered in the Windows Media Player library can be played.

Playback stops while listening to music files on the network server
• When the PC is serving as the network server, try quitting any application software other than the server software (Windows Media® Player 12, etc.).
• If the PC is downloading or copying large files, the playback may be interrupted.

The album names and artist names for the Music Server are not displayed
• Meta data, such as album names and artist names, needs to be recognized on the server for distribution to this unit, so this depends on the specifications of the NAS or server you are using.
• The file formats supported depend on the NAS or server software. For details, contact the manufacturer of NAS or the server software.

General Specifications

■ Audio Section

Rated RCA Output Level and Impedance
• 2 Vrms (RCA OUT 1 kHz, 0 dBfs)/470 Ω

Frequency response
• 4Hz - 70kHz (-3 dB)

THD+N
• 0.002 % (1 kHz 0 dBfs/RCA OUT/30 kHz LPF)

Dynamic range
• 110 dB (24 bit)

Channel separation
• 100 dB (1 kHz/RCA OUT)

Signal to Noise Ratio
• 110 dB (A-weighting/RCA OUT)

■ Network Section

ETHERNET LAN
• 10BASE-T/100BASE-TX

Wireless LAN
• IEEE 802.11 a/b/g/n standard
• 5 GHz/2.4 GHz band

■ Output jacks

Analog audio output
• 2 (L/R)

Digital audio output
• 1 (COAXIAL)

■ Other jacks

USB

• Front: 1
  version: USB2.0
  Maximum supplied current: 0.5 A
• Rear: 1
  version: USB2.0
  Maximum supplied current: 1.0 A
RI: 2

■ General

Power Supply
• AC 220 - 240 V, 50/60 Hz

Power Consumption
• 22 W
• 0.2 W (In Standby)
• 2.5 W (In Standby, NET Stby : On)

Dimensions (W × H × D)
• 435 mm × 100 mm × 318 mm

Weight
• 3.5 kg

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License and Trademark Information

The Wi-Fi CERTIFIED Logo is a certification mark of Wi-Fi Alliance®.

AirPlay, iPad, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

iPad Air and iPad mini are trademarks of Apple Inc.

"Made for iPod", "Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, 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, iPhone or iPad may affect wireless performance.

AirPlay works with iPhone, iPad, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion or later, and PC with iTunes 10.2.2 or later.

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ONKYO

1-10-5 Yokoami, Sumida-ku, Tokyo 130-0015 JAPAN
http://www.onkyo.com/

<U.S.A.>
18 Park Way, Upper Saddle River, N.J. 07458, U.S.A.
For Dealer, Service, Order and all other Business Inquiries:
Tel: 201-785-2600 Fax: 201-785-2650
http://www.us.onkyo.com/

For Product Support Team Only:
1-800-229-1687
http://www.us.onkyo.com/

<Germany>
Gutenbergstrasse 3, 82178 Puchheim, Germany
Tel: +49-8142-4401-0 Fax: +49-8142-4208-213
http://www.eu.onkyo.com/

<UK>
Anteros Building, Odyssey Business Park, West End Road, South Ruislip, Middlesex,
HA4 6QQ United Kingdom
Tel: +44 (0)871-200-1996 Fax: +44 (0)871-200-1995

<Hong Kong>
Unit 1033, 10/F, Star House, No 3, Salisbury Road, Tsim Sha Tsui Kowloon, Hong Kong.
Tel: +852-2429-3118 Fax: +852-2428-9039
http://www.hk.onkyo.com/

<PRC>
302, Building 1, 20 North Chaling Rd., Xuhui District, Shanghai, China 200032,
Tel: +86-21-52131366 Fax: +86-21-52130396
http://www.cn.onkyo.com/

<Asia, Oceania, Middle East, Africa>
Please contact an Onkyo distributor referring to Onkyo SUPPORT site.
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