About the Basic Manual
The Basic Manual leads you through the fundamental steps to enjoy the AV Receiver from connections to TV, speaker system and playback components, to necessary functions for playback. As well as that, Basic Manual informs you with the instructions on frequently used functions. Besides, there is another part of the manual called Advanced Manual to inform you with more detailed information, which we have decided to publish on the web from the ecological point of view.

Advanced Manual
Advanced Manual is always updated with the latest information and its user friendly interface, which does not matter whether you access from PC or Smartphone, helps you to understand more deeply about the AV Receiver. Advanced Manual is consisted of the following chapters.
- AM/FM Radio Receiving Function
- Playing Music Files on a USB Storage Device
- Listening to Internet Radio
- Playing Music with DLNA
- Playing Music Files in a Shared Folder
- Operating Music Files with the Remote Controller
- Listening Mode
- Advanced Settings
- Operating Other Components with the Remote Controller
- Advanced Speaker Connection
- Connecting and Operating Onkyo RI Components
- Firmware Update
- Troubleshooting
- Reference Information

Features
- Equipped with 7 channel amplifier
- Supports playback in Dolby Atmos format which provides 360-degree placement and movement of sounds including overhead sound
- Dolby Surround listening mode expands 2 ch, 5.1 ch or 7.1 ch source to available speaker configurations
- Incorporates Qdeo™ technology for HDMI video upscaling
- Equipped with 4K/60 Hz Passthrough-compatible HDMI IN/OUT jacks (IN1 to IN4 of HDMI IN jacks are 4K compatible)
- Supports the HDMI Through function which allows transmission from playback devices to the TV in standby state
- Supports HDCP2.2, a strict copy-protection for providing high quality content (HDMI IN3/HDMI OUT MAIN only)
- Supports ARC (Audio Return Channel)
- Supports USB storage playback
- Supports variety of network functions such as Internet Radio, DLNA, etc.
- Supports Wi-Fi, Bluetooth and MHL-enabled mobile device
- Bi-Amping capability
- A/V Sync Control Function to correct deviation of audio and video
- Multi-zone function which allows you to play a different source in another room from the main room
- 32 bit DSP (Digital Signal Processor) with excellent calculation performance
- Music Optimizer™ for Compressed Digital Music files
- Phase Matching Bass System
- Automatic speaker setup available using supplied calibrated microphone (AccuEQ Room Calibration)
- Supports playback of MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, Apple Lossless, DSD, Dolby TrueHD via network and USB storage device (the supported formats will differ depending on the use environment)

Supplied Accessories

- Indoor FM antenna --- (1)
- AM loop antenna --- (1)
- Color labels for speaker cable --- (1)
- Remote controller (RC-880M) --- (1)
- Batteries (AA/R6) --- (2)
- Power cord (Taiwanese models) --- (1)
- Speaker setup microphone --- (1)

Note that keeping consumed batteries inside may cause corrosion resulting in damage of the remote controller.

How to use the remote controller

- Batteries (AA/R6)

If you do not use the remote controller for a long time, remove the batteries to prevent leakage.
Step 1: Connections

1 Connecting the TV and players

Important: The power cord must be connected only after all other connections are completed.

HDMI cable connection

The unit has many HDMI jacks on its rear panel and each of them corresponds to an input selector button on the same name on the front panel. For example, a Blu-ray Disc player will be connected to the HDMI IN1 jack and the BD/DVD button on the front panel will be used to listen to the playback sound (if the player is CEC compliant, input will be switched automatically). If you add another Blu-ray Disc player, you can use any other jack than HDMI IN1. It is possible to change assignment of the input jacks and input selector buttons. For how to make settings, see the Advanced Manual.

To connect the TV and the unit, connect the HDMI OUT MAIN jack of the unit and the HDMI IN jack of the TV using an HDMI cable. With this connection, it becomes possible to display the setting screen of the unit on the TV or transmit video/audio signals from the player to the TV. If your TV supports ARC (Audio Return Channel), it is possible to play the TV sound with the AV receiver’s speakers with this connection only. If your TV does not support ARC, you need, in addition to the HDMI OUT MAIN jack connection, a digital optical cable connection between the digital audio out optical jack of the TV and the DIGITAL IN OPTICAL jack of the unit or an analog audio cable connection between the audio output jack of the TV and the VIDEO/AUDIO IN TV/CD jack of the unit.

To use the ARC function, connect to the ARC compatible HDMI jack of the TV and make an appropriate setting on the unit. See the section 2 “2nd Step : Source Connection” of “Step 2: Setting Up.”

Audio connection with a TV not supporting ARC

Select an appropriate connection for your TV.

The unit supports the HDMI Through function that allows transmission from players to the TV even if the unit is in standby. You have to modify the settings to enable the input selection link with CEC compliant device, connection with ARC compatible TV, and HDMI Through function. See
Step 1: Connections

the section 2 “2nd Step : Source Connection” of “Step 2: Setting Up”.
- To enjoy HDCP2.2 protected video, connect the player to the HDMI IN jack and the TV to the HDMI OUT jack of the unit. Your player and TV need to support HDCP2.2.
- To play 4K or 1080p video, use the high speed HDMI cable.
- Another TV can be connected to the HDMI OUT jack.
- To use the function to display the unit’s setting screen on the TV, connect the TV to the HDMI OUT jack.
- It is possible to send video and audio of an MHL-enabled mobile device by connecting the MHL-enabled mobile device to the AUX INPUT jacks on the front panel.

Connecting Components without HDMI

If your AV component does not have HDMI jack, use an available jack of your component for cable connection with this unit. Just as the HDMI jacks, other jacks on this unit have a preassigned input selector button on the front panel. See the name of the input selector button shown with the jack when connecting the device.

Audio signal connection

1. Digital connection: Use a digital optical cable (OPTICAL) or digital coaxial cable (COAXIAL) for connection with a player.

   - Digital optical cable (OPTICAL)
     - As the digital in optical jack of the unit has a cover, push the cable against the cover as it is turned inside.

   - Digital coaxial cable (COAXIAL)

2. Analog connection: Use an analog audio cable for connection with a player.

   To enjoy multi-zone playback of audio of a CD player or such other player without HDMI output jack, you need to use the RCA cable to connect the corresponding jacks of the player and this unit. For details on the multi-zone function, see the section 6 “Using the multi-zone function” of “Step 3: Playing Back”.

   - Analog audio (RCA) cable

3. Connection with turntable: If it uses an MM type cartridge and does not have a built-in audio equalizer, connect it to the PHONO jacks. If the connected turntable has a built-in audio equalizer, connect it to the TV/CD jack.

   - If it uses an MC type cartridge, install an audio equalizer compatible with MC type cartridge between the unit and the turntable by connecting it to the TV/CD jack. For details, refer to the turntable’s instruction manual.
   - If the turntable has a ground wire, connect it to the GND terminal of this unit. If connecting the ground wire increases noise, disconnect it.

Video signal connection

The unit has a video upconversion function. For details, see the next section.

4. Use a component video cable to connect a TV with component video input jacks and a player with component video output jacks.

   - Component video cable
     - Its transmitted video has higher quality than that of composite video cable.

5. Use a composite video cable to connect a TV with composite video input jack or a player with composite video output jack.

   - Composite video cable

Video signals input to the composite video input jack or the COMPONENT VIDEO IN jacks will be upconverted to HDMI signals and then output from the HDMI output jack. Note that it is not possible to convert digital audio input signals to analog or vice versa.
To enjoy the Dolby Atmos listening mode, Height speakers or Surround Back speakers need to be installed. The example above uses front Height speakers. As other types of Height speakers are also applicable, see the next page for details.

- Front speakers
- Center speakers
- Surround speakers
- Subwoofer
- Surround back speakers
- Height speakers

- 5.1 ch: 1 2 3 4 5 6
- 7.1 ch: 1 2 3 4 5 6 + 7 8 or 1 2 3 4 5 6 + 9 10
  7, 8, and 9, 10 share the same speaker terminals. Select either of the groups.

- To use the multi-zone function, see the section 6 "Using the multi-zone function" of "Step 3: Playing Back".

If there is only one surround back speaker, connect it to the BACK or HEIGHT L terminal.
Characteristics of speaker types

1. Outputs front stereo sound.
2. Outputs center sounds such as dialogs and vocals.
3. Creates back sound field.
4. Reproduces bass sounds and creates rich sound field.

Connecting 7.8 speakers or 9.1 speakers enables playback in 7.1 ch configuration. 7.8 (surround back) speakers improve sense of envelopment created by back sound field as well as seamlessness of back sounds, providing more natural sound experiences in the sound field. 9.1 (height) speakers produce surround effects on a height plane. This unit performs optimal sound field processing for the type of the installed height speakers which is registered in initial settings (with setup wizard).

Instructions on how to connect speakers

Important: Connect speakers with 4 Ω to 16 Ω impedance. You have to change the setting if any of the speakers have 4 Ω or more to less than 6 Ω impedance. You can set up by viewing the guidance displayed on the TV screen. Select the item with the cursor buttons of the remote controller and press ENTER to confirm your selection. To return to the previous screen, press RETURN. Press RCV and then HOME on the remote controller. Select “Setup” - “2. Speaker Setup” - “Speaker Impedance” and change the default value from “6ohms” (Default Value) to “4ohms”.

Height speakers arrangements

Dolby Laboratories recommends to place the speakers as described on “Installing speakers in ceiling” to obtain the best Dolby Atmos effect.

Installing speakers in ceiling

Ceiling speakers, etc. are used for maximizing effects in Dolby Atmos or Dolby Surround listening mode. Install Top Front speakers midway between the position just above the listening position and the position just above the front speakers. Install Top Middle speakers just above the listening position. You can select a or b on the unit. For connection with the unit, use the SPEAKERS BACK or HEIGHT terminals.
Using Dolby Enabled Speakers

A Dolby Enabled Speaker is specially designed to be used as a Height speaker. There are two types of Dolby Enabled Speakers, the one is to be placed on the top board of other speakers such as front speakers and surround speakers, and the other is integrated type with the normal speakers. Dolby Enabled Speakers designed with their output facing toward the ceiling to create an elevated audio effect in the Dolby Atmos and Dolby Surround listening modes by providing sounds echoing off the ceiling. You can select e or f on the unit. For connection with the unit, use the SPEAKERS BACK or HEIGHT terminals.

3 Other connections

AM/FM antenna connections

Connect the antennas to listen to AM/FM broadcast. When listening to the broadcast for the first time, adjust the antenna position and orientation to get the best reception.

Network connection

You can enjoy Internet radio and DLNA by connecting the unit to LAN. The unit can be connected to the router with an Ethernet cable or to the wireless LAN router with Wi-Fi connection. In case of wired connection, connect the Ethernet cable to the Ethernet port. See the section 2 "4th Step: Network Connection" of "Step 2: Setting Up".

Headphones connection

Connect stereo headphones with a standard plug (1/4 inch or a 6.3 mm) to the PHONES jack on the front panel. Sound from the speakers will be off while you are using the headphones.
- If you selected any other listening mode than Pure Audio (European, Australian and Asian models), Stereo, Mono and Direct, connecting headphones will switch the listening mode to Stereo.
Step 2: Setting Up

Important: When the unit is turned on for the first time, the setup wizard of the section 2 will automatically be launched. If you use the setup wizard to make the initial setup, connect a TV to the HDMI OUT MAIN jack of the unit via HDMI connection.

1 Turning the power on

Connect the power cord to the outlet. Press ΩON/STANDBY on the main unit or ΩRECEIVER on the remote controller to turn the unit on or to standby mode.

2 Making the Initial Setup with the Setup Wizard

Read before starting the procedure: Set up by answering the guidance displayed on the TV screen. Select the item with the cursor buttons of the remote controller and press ENTER to confirm your selection. To return to the previous screen, press RETURN.

1st Step: AccuEQ Room Calibration

The test tone coming from each speaker will be measured to enable setting of the number of speakers, volume level, each speaker's optimum crossover frequencies, and distance from the primary listening position, and also enable correction of distortion caused by the room acoustic environment.

1. Place the speaker setup microphone.

When the start screen above is displayed, before starting the procedure, place the supplied speaker setup microphone at the measurement position by referring to the figure below.

Welcome to initial setup. Have you connected all the speakers and devices? Before starting, please connect speakers and sources. Now, would you like to start initial setup?

1st Step : AccuEQ Room Calibration

2nd Step : Source Connection

3rd Step : Remote Mode Setup

4th Step : Network Connection

The setup wizard proceeds in the four steps as below.

1st Step : AccuEQ Room Calibration

This step you can automatically calibrate your room to get correct surround sound. Would you like to calibrate your room now or later?

Do it Now

Do it Later

1. Place the speaker setup microphone.

When the start screen above is displayed, before starting the procedure, place the supplied speaker setup microphone at the measurement position by referring to the figure below.

Correct measurement will not be possible if the microphone is held by hand. Measurement is not possible if headphones are being used. The subwoofer sound may not be detected since it is extremely low frequencies. Raise the subwoofer volume to around the half of its maximum volume and make its frequency to the maximum level. A loud test tone will be heard during measurement. Measurement may be interrupted if there is ambient noise or radio frequency interference. Close the window and turn off the home appliance and fluorescent light.

The unit automatically turns itself into standby mode in this case also, updating will be completed.
2. After placing the microphone at the measurement position, select “Do it Now” with the cursors and press ENTER.

3. When “Please plug microphone that came in a box with AV receiver.” is displayed, connect the microphone to the SETUP MIC jack of the unit.

4. Follow the guidance displayed on the TV screen.

When the screen above is displayed, press ENTER on the remote controller. Confirm the power supply of subwoofer and press ENTER on the remote controller in the next screen. Confirm the position of speaker setup microphone and press ENTER on the remote controller in the next screen. Automatic speaker setting starts.

5. The test tones sound from the connected speakers and automatic speaker setting starts.

Measurement will be made twice for each speaker. It takes several minutes to be completed. Keep the room as quiet as possible during measurement. If any of the speakers do not produce the test tone, check for disconnection.

6. When the measurement is completed, the measurement result is displayed.

Press ◄/► on the remote controller to check the settings. Press ENTER with “Save” selected. In the next screen showing that “AccuEQ Room Calibration” is “On”, press ENTER on the remote controller.

* If there is an error message, follow the on-screen instruction to remove the error cause.

7. When “Please unplug setup microphone.” is displayed, disconnect the microphone.

■ 2nd Step : Source Connection

You can check whether or not each input source is connected correctly.

1. When the Source Connection start screen is displayed, select “Yes, Continue” with the cursors and press ENTER.

If you select "Yes", the connection with ARC compatible TV and HDMI Through function will be set to "Auto" and enabled.

2. Select the desired input to check the connection and press ENTER.

Start playback of the selected device. If connection is correct, video/audio of the input source selected on the unit will be played.

3. After checking the connection, select “Yes” with the cursors and press ENTER.

* If you select “No” and press ENTER, the error cause will be displayed. Follow the guidance to remove the error cause and check the connection again.

4. Select "Yes" with the cursors and press ENTER on the remote controller to check the connection of other inputs or select "No, Done Checking" and press ENTER to skip.

If you select “Yes”, you will return to the screen of step 2. If you select “No, Done Checking”, you will proceed to step 5.

5. Enabling HDMI Linked Operation and Other Functions

In the next screen, you can enable the HDMI linked operation with CEC compliant device, connection with

ARC compatible TV, and HDMI Through function. Select “Yes” with the cursors to enable them or “No, Done Checking” to skip, and press ENTER on the remote controller.

6. Select “Yes” with the cursors and press ENTER to enable the CEC link function or select “No” and press ENTER to keep it disabled.

■ 3rd Step : Remote Mode Setup

In this step, you can enable operation of the other components using the remote controller of the unit. When the Remote Mode Setup start screen is displayed, select “Yes” with the cursors and press ENTER on the remote controller. Follow the guidance to select the desiredREMOTE MODE button and in the keyboard screen, enter the first three characters of the brand name of the device you are going to program (e.g., “ONK” for ONKYO) and search for the remote control code. The guidance will also explain how to set the remote controller.
4th Step : Network Connection

You can check the network connection and make the Wi-Fi setting. When the Network Connection start screen is displayed, select "Yes" with the cursors and press ENTER on the remote controller. If you select "Wired" in the next screen, you can view the LAN cable connection status. To make the Wi-Fi setting, select "Wireless", press ENTER on the remote controller and follow the sections below.

Make the following preparations.
Wi-Fi connection requires an access point such as wireless LAN router (GHz). Write down the SSID and password (key) of the access point if they are shown in the label of the main body. If the access point has an automatic setting button (may be called differently according to the manufacturer), you can set up without inputting the password. For how to use the automatic setting button of the access point, refer to its instruction manual.

1. Select the SSID of the access point to be connected with the cursor buttons and press ENTER.
When the SSID of the access point appears on the TV screen, select the desired access point.
- If you changed the initial setting of the access point to skip password entry, Step 3 starts automatically.
- If you changed the initial setting of the access point to hide the SSID, see "When the access point is not displayed".

2. Select and set the authentication method.
The "Enter Password" screen, instead of the following screen, may be displayed automatically if the wireless LAN router does not have an automatic setting button.

When the screen above is displayed, select and set one of the three authentication methods: "Enter Password", "Push Button" and "PIN code". See below for details of and how to set each method.

Enter Password: Enter the password of the access point to establish connection.

- Select "Enter Password" with the cursor buttons and press ENTER.
- Enter the password (*) on the keyboard screen, select "OK" with the cursor buttons and press ENTER.
  - Select "Shift" and press ENTER to toggle between upper and lower case.
  - Select "*" or "#" and press ENTER to move the cursor to the selected direction. Select "Back Space" and press ENTER to delete the character at the left of the cursor position. To select whether to mask the password with "*" or display it in plain text, press D on the remote control. Press + 10 on the remote controller to enable the "Shift" function and CLR to delete all the input characters.
- If the security method of the access point to be connected is WEP, select "Default Key ID", select "OK" and press ENTER.

Push Button: Use the automatic setting button of the access point to establish connection.

- Select "Push Button" with the cursor buttons and press ENTER.
- Hold down the automatic setting button of the access point for the necessary seconds, select "OK" with the cursor buttons and press ENTER.

PIN code: Select this method when the automatic setting button of the access point is beyond the reach. Select "PIN code" with the cursor buttons and press ENTER to display the 8-digit PIN code. Register the displayed PIN code to the access point, select "OK" with the cursor buttons and press ENTER. For how to register the PIN code to the access point, refer to its instruction manual.

3. Establish connection.
The connection process starts and the Wi-Fi indicator on the left of the unit's display starts flashing. When connection has been established, the Wi-Fi indicator changes from flashing to staying lit. If the Wi-Fi indicator does not stay lit, connection has not been established. Make the setting again. If "Push Button" does not work, try "Enter Password".

When the access point is not displayed
Select "Other..." with the cursor on the remote controller and press ENTER to display the keyboard screen. Input the SSID and password. Make the following settings according to the router setting.

WPA/WPA2 method
Select "WPA" or "WPA2" in "Security Method", select "OK" and press ENTER.

WEP method
Select "WEP" in "Security Method" and select "Default Key ID". Then select "OK" and press ENTER.
- If encryption setting has not been made on the wireless LAN router, select "None" in "Security Method", select "OK" and press ENTER.

Exiting the setup wizard
After finishing the initial setup, keep "Finished" selected and press ENTER on the remote controller. Connection and setting of the unit is now completed. See Step 3 and enjoy your home theater.
To control the unit: The remote controller of this unit has the remote mode function for controlling other devices. You cannot control this unit when the remote controller is in the remote mode other than RECEIVER mode (for controlling this unit). Be sure to press 2 RCV to select the RECEIVER mode before starting operation.

1. Turn the power on.
   Press 1 RECEIVER on the remote controller to turn the power on.
   - Switch the input on the TV to that assigned to the unit. Use the TV's remote controller.

2. Select the input of the unit and start playback on the player or TV.
   Press 3 INPUT SELECTOR to which the desired player has been assigned. Press TV/CD to play the TV's sound. You can also use the input selector buttons on the main unit.
   - Input will automatically be selected if the TV or player is CEC compliant and connected to the unit with HDMI cable.

3. Select the desired listening mode.
   Press 6 listening mode buttons to switch the mode so that you can enjoy different listening modes. For details about the listening modes, see "Listening modes" on the next page.

4. Adjust the volume with 7.

Remote controller parts name

1 1 RECEIVER button: Turns the unit on or into standby mode.
2 RCV button: Switches the remote controller to the mode for operating this unit.
3 REMOTE MODE/INPUT SELECTOR button: Switches the input to be played.
4 Cursor buttons and ENTER button: Moves the cursor and confirms the selection.
5 Q SETUP button: Displays the Quick Setup menu that allows you to set the frequently used functions including input selection and volume adjustment.
6 Listening mode buttons: Allows you to select the listening mode.
7 DIMMER button: Switches the brightness of the display.
8 ZONE2 button: For use when the unit is connected with a pre-main amplifier in a separate room and sound is played there.
9 MUTING button: Temporarily mutes audio.
10 VOLUME buttons: Allows you to adjust the volume. This button also cancels the muting.
11 RETURN button: Returns the display to the previous state.
12 HOME button: Displays the HOME menu that allows you to make advanced settings and use Internet radio and DLNA.
13 DISPLAY button: Switches the information on the display.
   - The buttons other than those above are for operating other devices.
Listening modes

You can select a listening mode from various options such as Dolby Atmos, Dolby Digital and DTS. Select the desired mode by switching and listening actual sound in different modes. The selectable listening modes depend on the format of the input signals.

MOVIE/TV: You can select a listening mode suitable for movies and TV programs.

MUSIC: You can select a listening mode suitable for music.

GAME: You can select a listening mode suitable for games.

STEREO: You can select a listening mode for stereo and all channel stereo sources.

PURE AUDIO (main unit only) (European, Australian and Asian models): The display and analog video circuits are cut off to provide purer sound.

For details on the listening modes, see the Advanced Manual.

"Direct" for playing the input signals as-is
Selecting this mode allows the input signals to be played as they are. For example, 2 ch signals of music CD will be played in stereo, 5.1 ch signals in 5.1 ch, and Dolby Digital signals of blu-ray disc or DVD in the Dolby Digital sound field according to the specified number of channels.

Other useful functions

■ Playing Video and Audio from Different Sources: It is possible to play audio and video from different sources. For example, you can play audio from the CD player and video from the BD/DVD player. In this case, press BD/DVD and then TV/CD. Then start playback on the BD/DVD player and CD player. This function is effective when an input with audio only has been selected (TV/CD, TUNER or PHONO in the initial setting).

■ Adjusting Sound Quality: It is possible to enhance or moderate the low and high pitched ranges of front speakers. Press TONE on the main unit several times to select the desired setting from "Bass", "Treble" and "Phase Matching Bass", and adjust with +/-.

- It cannot be set if the listening mode is Pure Audio (European, Australian and Asian models) or Direct.

"Bass": Allows you to enhance or moderate the low pitched range.

"Treble": Allows you to enhance or moderate the high pitched range.

"Phase Matching Bass": Allows you to keep the clear midrange and effectively enhance the low pitched range.

■ Muting Temporarily: Press MUTING on the remote controller. To cancel the muting, press MUTING again, or press VOL /.

■ Changing the Display Brightness: Press DIMMER on the remote controller. The display brightness changes each time you press the button.

■ Checking the Input Format: Press DISPLAY on the remote controller several times to switch the display of the main unit in order of:

- Input source & volume
- Listening mode
- Signal format
- Sampling frequency
- Input signal resolution
- Output resolution

If "Dolby D 5.1" is displayed in signal format, the Dolby Digital 5.1 ch signals are being input. When listening to AM/FM radio, the band, frequency and preset number are displayed.

Registering an AM/FM Radio Station: It allows you to register up to 40 of your favorite AM/FM radio stations.

1. Tune into the AM/FM radio station you want to register.
2. Press MEMORY on the unit. The preset number on the display flashes.
3. Repeatedly press PRESET on the unit to select a number between 1 and 40 while the preset number is flashing (about 8 seconds).
4. Press MEMORY on the unit again. When registered, the preset number stops flashing.

To select a preset radio station, press PRESET on the remote controller.
**Connecting and playing the Bluetooth-enabled device**

You can wirelessly enjoy music files stored in a smartphone or other Bluetooth-enabled device. The coverage area is 48 feet (15 meters).

- The Bluetooth-enabled device needs to support the A2DP profile.
- Note that connection is not always guaranteed with all Bluetooth-enabled devices.

**Pairing**

Pairing is necessary when using the Bluetooth-enabled device for the first time. Before starting the procedure, learn how to enable the Bluetooth setting function and to connect with other devices on the Bluetooth-enabled device.

1. **Press BLUETOOTH on the remote controller.**
   The unit enters the pairing mode and the BLUETOOTH indicator starts flashing.

2. **While the BLUETOOTH indicator is flashing, complete connection on the Bluetooth-enabled device in the nearby area within about 2 minutes.**
   If the name of this unit is displayed on the Bluetooth-enabled device’s display, select this unit. Paring will end after a short time.
   - If a password is requested, enter “0000”.
   - When connecting the unit to any other Bluetooth-enabled device, start pairing by pressing and holding BLUETOOTH until the BLUETOOTH indicator starts flashing. This unit can store the data of up to eight paired devices.

**Playing sound of the Bluetooth-enabled device**

If the unit is on and the Bluetooth-enabled device is connected, the input will be automatically switched to BLUETOOTH. Play music in this state.

- It may take about a minute until connection is established when the unit is on since the Bluetooth function takes some time to start up.
- If the volume setting on the Bluetooth-enabled device is low, the sound will not be output from this unit.
- Due to the characteristics of Bluetooth wireless technology, the sound produced on this unit may slightly be behind the sound played on the Bluetooth-enabled device.

**Using the HOME menu**

In the HOME menu, you can make advanced settings and use Internet radio and DLNA. For details on the operation, see the Advanced Manual.

1. **After pressing RCV, press HOME on the remote controller.**
   The HOME menu is displayed on the TV screen. You can also use the HOME button on the main unit.

2. **Select the item with the cursor buttons of the remote controller and press ENTER to confirm your selection.**
   - To return to the previous screen, press RETURN. To return to the HOME menu, press HOME.
   - **Sleep Timer**: Select to turn the unit into standby mode automatically when the specified time elapses.
   - **InstaPrevue**: Select to preview videos input from the HDMI input jacks collectively in a single screen. The screen has a main window (current input video) and sub windows (other input videos). To switch the current input, select the desired sub window with the cursor buttons and press ENTER.
     - A black sub window is shown for the input with no video signals.
     - "InstaPrevue" cannot be selected if the video is being input from HDMI IN 5 or 6 or there is no signal from the input currently selected.
     - Depending on video signals, the picture may not be properly rendered on the preview thumbnails.

- **Setup**: You can change the assignment of input terminals and input selector buttons and also make various speaker settings and other advanced settings.

- **Network Service**: Select to use Internet radio services and the DLNA function. When you connect the unit to the network and press ENTER, the network service screen will be displayed on the TV. On the TV screen, select the desired service or music file with the cursors of the remote controller and press ENTER to confirm and start playback.

  - **Internet radio service**: You can listen to TuneIn or such other Internet radio stations registered in advance.
  - **DLNA**: You can play music files stored in the PC or NAS device connected to the network. Select the server with the cursors, select the desired music file and press ENTER to start playback.

  - "Network Service" becomes selectable after the network starts up even if it cannot be selected first. It may take about a minute to start up.
  - When "Network Service" is selected for the first time, the "DISCLAIMER" screen will appear on the TV. Select "Agree" if you agree the content. If you do not agree the content, you cannot use the network service.
  - You cannot use the Network Service function unless the TV is connected via HDMI since selecting “Agree” in the “DISCLAIMER" screen is not possible.
  - Layout of the icons in the "Network Service" top menu can be changed. Press NET on the remote controller and press D. Select the source icon with the cursors and press ENTER, and then select the destination icon and press ENTER. The positions of the icons are switched each other.
  - **USB**: Select "USB" in the TV screen and connect a USB storage device to the USB port on the front panel. On the TV screen, select the desired folder or music file with the cursors of the remote controller and press ENTER to confirm and start playback.
  - "USB" becomes selectable after the USB function starts up even if it cannot be selected first. It may take about a minute to start up.

**Step 3: Playing Back**

![Step 3: Playing Back](image-url)
5 Using Quick Setup menu

In the Quick Setup menu, you can set frequently used functions including input selection and volume adjustment.

1. Press Q SETUP on the remote controller. The Quick Setup menu is displayed on the connected TV's screen.

2. Select the item with the cursor buttons of the remote controller and press ENTER to confirm your selection.

To return to the previous screen, press RETURN.

- **Input:** Select the input and check the assignment of input selector buttons.
- **Audio:** You can perform various audio settings including audio quality and speaker level adjustment.
  - You cannot select this item when audio is output from the TV's speakers.
  - **A/V Sync:** If the video is behind the audio, you can delay the audio to offset the gap. Different settings can be set for each input.
    - It cannot be set if the input is "NET", "USB" or "BLUETOOTH".
    - It cannot be set if the listening mode is Pure Audio (European, Australian and Asian models) or Direct.
- **Bass, Treble:** Adjust volume of the front speaker.
  - It cannot be set if the listening mode is Pure Audio (European, Australian and Asian models) or Direct.
- **Phase Matching Bass:** Suppress phase shift in the midrange to enhance bass sound. Thus smooth and powerful bass sound can be obtained.
  - It cannot be set if the listening mode is Pure Audio (European, Australian and Asian models) or Direct.
- **Subwoofer Level, Center Level:** Adjust the speaker level while listening to the sound. The adjustment you made will be reset to the previous status when you turn the unit to standby mode.
  - The speakers cannot be adjusted if they have been set to "No" or "None" in "Setup" - "2. Speaker Setup" - "Speaker Configuration".

- **AccuEQ Room Calibration:** Disables the sound field correction setting set in the automatic speaker setting. The setting can be separately set to each input.
  - This setting cannot be selected if the automatic speaker setting has not been performed.
  - It cannot be set if headphones are connected or the listening mode is Pure Audio (European, Australian and Asian models) or Direct.

- **Late Night:** Make small sounds to be easily heard. It is useful when you need to reduce the volume while watching a movie late night. You can enjoy the effect on Dolby Digital, Dolby Digital Plus and Dolby TrueHD sources only.
  - Turning the unit to standby mode will set the setting to "Off". In case of Dolby TrueHD, the setting will be set to "Auto".
  - You cannot use the function during Dolby TrueHD playback if "Setup" - "3. Audio Adjust" - "Dolby" - "Loudness Management" is set to "Off".

- **Music Optimizer:** Improve the quality of the compressed audio. Playback sound of lossy compressed files such as MP3 will be improved. The setting can be separately set to each input.
  - The setting is effective in the signals of 48 kHz or less. The setting is not effective in the bitstream signals.
  - It cannot be set if the listening mode is Pure Audio (European, Australian and Asian models) or Direct.

- **Cinema Filter:** Adjust the soundtrack that was processed to enhance its high pitch range, in order to make it suitable for home theater.
  - This function can be used in the following listening modes: Dolby Atmos, Dolby Digital, Dolby Digital Plus, Dolby Surround, Dolby TrueHD, Multichannel, DTS, DTS-ES, DTS Neo:6 Cinema, DTS 96/24, DTS Neo:6, DTS-HD High Resolution Audio, DTS-HD Master Audio and DTS Express.

- **Video:**
  - **Monitor Out:** The video input signals input to the unit will be converted by the unit when they are output from the HDMI OUT jack to the TV so that their resolution can match that of the TV used. Select the HDMI OUT jack to be used for output.

  - **Wide Mode:** You can set the aspect ratio.
  - **Picture Mode:** You can adjust the image quality. "Cinema" will automatically adjust the image to be suitable to watch movie and "Game" suitable to play game. In "Standard", the resolution will be changed but the image quality will not be adjusted. In "Custom", you can adjust the brightness, contrast, hue and saturation as desired. If you do not adjust the resolution and image quality, select "Bypass".
    - "Wide Mode" and "Picture Mode" can be set only on the video output from the HDMI OUT MAIN jack.
    - "Video" cannot be selected if the input is "NET", "USB" or "BLUETOOTH".

- **Information:**
  - **Audio:** Displays the audio input source, format, number of channels, sampling frequency, listening mode, number of output channels, and other audio information.
  - **Video:** Displays the video input source, resolution, signal format, color tone, 3D information, Aspect, Picture Mode, output, and other Video information.
  - **Tuner:** Displays the band, frequency, preset number, and other tuner (radio) information.

- **Listening Mode:** Select the listening mode from the categories of "MOVIE/Tv", "MUSIC" and "GAME".
  - It cannot be set when audio is played from the TV's speakers.

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**Step 3: Playing Back**

- **Video**:
  - **Monitor Out**: The video input signals input to the unit will be converted by the unit when they are output from the HDMI OUT jack to the TV so that their resolution can match that of the TV used. Select the HDMI OUT jack to be used for output.
Step 3: Playing Back

6 Using the multi-zone function

You can multi-zone connect the unit with an integrated amplifier and speakers in a separate room and play sound from an external device connected to the analog audio input jacks of the unit, sound from the “NET”, “USB” or “BLUETOOTH" source, and the AM/FM broadcasting. It is possible to perform playback in the main room and a separate room at the same time, for example by playing the Blu-ray Disc player in the main room where the unit is placed while playing Internet radio in a separate room. It is also possible to perform playback only in a separate room.

- As for analog audio input, it is possible to play the same source or different sources in the main room and separate room.
- As for the “NET”, “USB” and “BLUETOOTH”, you cannot select different inputs for the main room and separate room. For example, if “NET” has been selected in the main room and then “USB” is selected as playback source in the separate room, the input in the main room will change to “USB” accordingly.
- When listening to AM/FM broadcasting, you cannot select different stations for the main room and separate room. Therefore broadcasting of the same station will be heard in both rooms.

Connecting with Player

To output audio of the Blu-ray Disc player or such other player as the source of multi-zone playback, it is necessary to connect the RCA audio output jacks of the player and the analog audio input jacks of the unit using the analog audio cable.

Output to multi-zone is not possible if the connection is only with HDMI cable or digital cable.
- Analog audio output setting may be necessary on the player.

Making multi-zone connection

■ Connecting an amplifier or receiver in another room

You can enjoy 2-channel stereo playback in the other room during playing 7.2-channel in the main room. Connect the LINE OUT ZONE2 jacks of the unit and the line-in jacks of the pre-main amplifier in a separate room with an analog audio (RCA) cable.

- The volume should be adjusted with the pre-main amplifier used in the separate room.

■ Connecting speakers in another room

It is possible to directly connect the speakers in another room without an amplifier. Connect the speakers in another room to the SPEAKERS ZONE2 terminals of the unit using speaker cables. Note that 5.2 ch will be the maximum (\( \star \)) in the main room during Zone 2 playback. Sound cannot be output from the Surround Back speakers and Height speakers.
- In this case, the Dolby Atmos listening mode cannot be selected.

Change the setting: After connecting the speakers, press RCV and then HOME on the remote controller, select “Setup" - “2. Speaker Setup" - "Speaker Settings" and set “Powered Zone2” to “Yes”.
- Adjust the volume on this unit. To adjust the volume, press ZONE2 on the remote controller and adjust with VOL. To control on the main unit, press ZONE2 and within 8 seconds, adjust with the MASTER VOLUME control. You can mute the sound by pressing MUTING on the remote controller.
Performing multi-zone playback

1. Press ZONE2 on the remote controller, point the remote controller at the unit and press RECEIVER. “Z2” lights on the main unit display and the multi-zone function is enabled. (Zone 2 is now on.)

2. Press ZONE2 on the remote controller again and press INPUT SELECTOR of the input to be played in a separate room.
   - If you turn the unit to standby during multi-zone playback, the Z2 indicators are dimmed and the playback mode is switched to playback in a separate room only. Performing steps 1 and 2 while the unit is in standby also switches the playback mode to playback in a separate room only. To play the same source in the main room and separate room, hold down ZONE2 for approximately 3 seconds.

To control on the main unit: Press ZONE2 and within 8 seconds, press the input selector button of the input to be played in a separate room. To play the same source in the main room and separate room, press ZONE2 twice.

To turn off the multi-zone function: Press ZONE2 on the remote controller and press RECEIVER. Alternatively press OFF on the main unit.
   - If Zone 2 is on, power consumption during standby becomes larger than normal.
   - If Zone 2 is turned on when the listening mode of the main room is Pure Audio, it will automatically switch to Direct. (European, Australian and Asian models)
   - While Zone 2 is on, the RI linked system function (interlink between Onkyo components) is disabled.
   - Pressing INPUT SELECTOR on the remote controller while you are using the remote controller for Zone 2 will switch the controlled target to the main room. To control Zone 2 again, press ZONE2 to enter the Zone control mode.
Front Panel

1. **ON/STANDBY button**: Turns the unit on or into standby mode.
2. **BLUETOOTH indicator**: Flashes while pairing with a Bluetooth-enabled device is in progress and stays lit when pairing is completed.
3. **Wi-Fi indicator**: Lights when the unit is connected to the wireless LAN router.
4. **ZONE 2 button**: Controls the multi-zone function.
5. **Remote control sensor**: Receives signals from the remote controller.
6. **OFF button**: Switches the multi-zone function to off.
7. **Display**
8. **LISTENING MODE buttons**: Allows you to select the listening mode.
9. **DIMMER button (North American and Taiwanese models)**: Switches the brightness of the display.
   - **RT/PTY/TP button (European, Australian and Asian models)**: Can be used when receiving the station transmitting text information.
10. **MEMORY button**: Registers or deletes a station.
11. **TUNING MODE button**: Switches the tuning mode.
12. **DISPLAY button**: Switches the information on the display.
13. **HOME button**: Displays the HOME menu.
14. **Cursor buttons, ▼ TUNING ▲ button, ▼ PRESET ▲ button and ENTER button**: Moves the cursor and confirms the selection. When listening to AM/FM broadcasting, tune in to the station with ▼ TUNING ▲ or select the registered station with ▼ PRESET ▲.
15. **RETURN button**: Returns the display to the previous state.
16. **MASTER VOLUME**: Allows you to adjust the volume.
17. **PURE AUDIO button and indicator (North American and Taiwanese models)**: Turns on/off the MUSIC OPTIMIZER function that improves the quality of the compressed audio.
18. **PHONES jack**: Stereo headphones with a standard plug are connected.
19. **AUX INPUT HDMI/MHL jacks**: An HD video camera or MHL-enabled mobile device is connected. It is possible to send video and audio of an MHL-enabled mobile device.
20. **TONE and Tone Level buttons**: Adjusts the high tone and low tone.
21. **Input selector buttons**: Switches the input to be played.
22. **USB port**: A USB storage device is connected so that music files stored in it can be played.
23. **SETUP MIC jack**: The supplied speaker setup microphone is connected.
24. **HYBRID STANDBY indicator**: Lights if the unit enters standby mode when the HDMI Through, network standby or Wakeup from Bluetooth function is enabled.
Rear Panel

1. **RI REMOTE CONTROL jack**: An Onkyo product with RI jack can be connected and synchronized with this unit.
2. **ANTENNA AM/FM (75 Q) terminal**: The supplied antennas are connected.
3. **COMPONENT VIDEO IN/OUT jacks**: Component video input/output jacks.
4. **ETHERNET port**: Used for LAN connection.
5. **HDMI IN/OUT jacks**: Digital video signals and audio signals are transmitted between the unit and the connected devices.
6. **SPEAKERS terminals**: Speakers are connected. To use the multi-zone function, connect the speakers in the separate room to the ZONE2 speaker terminals.
7. **Power cord (North American, European, Australian and Asian models)**
   - **AC INLET (Taiwanese models)**: The power cord is connected.
8. **DIGITAL IN COAXIAL/OPTICAL jacks**: Digital audio signals are input.
9. **GND terminal**: The ground wire of the turntable is connected.

**COMPOSITE VIDEO/AUDIO IN jacks**: Analog video signals and audio signals are input.

**MONITOR OUT V jack**: Video signals are output to the connected monitor or TV via a composite video cable.

**LINE OUT ZONE 2 jacks**: Audio output jacks connected to the integrated amplifier for multi-zone playback in a separate room.

**PRE OUT SUBWOOFER jacks**: A subwoofer with built-in amplifier is connected.

**Display**

1. Lights in the following conditions. *Z2*: ZONE 2 output is on. / *HDMI*: HDMI signals are input and HDMI input selector is selected. / *ARC*: Audio signals are input from ARC compatible TV and TV/CD input selector is selected. / *3D*: Input signals are 3D. / *USB* (†): USB input is selected and USB storage device is connected. / *NET* (‡): "NET" input is selected and the unit is connected to the network. / *DIGITAL*: Digital signals are input and the digital input selector is selected. / Cursor indicators: NET or USB is controlled.
2. Ergonomic factors: Onkyo product with RI jack can be connected and synchronized with this unit.
3. Lights when headphones are connected.
4. Lights when NET or USB is controlled.
5. Lights according to the type of input digital signals and the listening mode.
6. Lights when Music Optimizer is enabled.
7. Lights in the following conditions. "AUTO": Tuning mode is auto. / "TUNED": Receiving AM/FM radio. / "STEREO": Receiving FM stereo. / "RDS" (European, Australian and Asian models): Receiving RDS broadcasting.
8. "MUTING": Flashes when muting is on.
9. Lights in the following conditions. "SLEEP": Sleep timer has been set. / "ASb" (Auto Standby): Auto Standby is on. / "ch": Channel is being set. / "Hz": Crossover frequencies are being set. / "m/ft": Speaker distances are being set. / "dB": Speaker volume is being set.
10. Displays various information of the input signals. Pressing DISPLAY displays the type of input digital signals and the listening mode.
Troubleshooting

Before starting the procedure
Problems may be solved by simply turning the power on/off or disconnecting/connecting the power cord, which is easier than working on the connection, setting and operating procedure. Try the simple measures on both the unit and the connected device. If the problem is that the video or audio is not output or the HDMI linked operation does not work, disconnecting/connecting the HDMI cable may solve it. When reconnecting, be careful not to wind the HDMI cable since if wound the HDMI cable may not fit well. After reconnecting, turn off and on the unit and the connected device.

The AV receiver turns off unexpectedly.

• The AV receiver will automatically enter standby mode when Auto Standby is set and launched.

There’s no sound, or it’s very quiet.

• A wrong input selector button has been selected. Select a correct input for the player. Also check that muting is not on.
• Not all listening modes use all speakers.

There’s no picture.

• A wrong input selector button has been selected.
• Video is not displayed if the listening mode is Pure Audio. (European, Australian and Asian models)
• To display video from the connected player on the TV screen while the unit is in standby, you need to enable HDMI Through function.
• When the TV image is blurry or unclear, power cord or connection cables of the unit may have interfered. In that case, keep distance between TV antenna cable and cables of the unit.
• If you connect a player supporting HDCP2.2, be sure to connect it to the HDMI IN3 jack of the unit. At the time, connect the TV to the HDMI OUT MAIN jack.

HDMI control does not function correctly.

• Set the CEC link function of the unit to on. It is also necessary to make the HDMI linked system setting on the TV. See the TV’s instruction manual for details.

The remote controller does not work.

• Be sure to press RCV first before operating the unit with the remote controller.

There is no sound for multi-zone function.

• With multi-zone function, sound is output only when the signal input source is an external component connected to the analog audio input jacks of the unit, "NET", "USB", "BLUETOOTH", "AM" or "FM". Multi-zone playback is not possible if the player and the unit are connected via HDMI cable or digital cable. Connect the RCA audio output jacks of the player and the analog audio input jacks of the unit with analog audio cable. Also analog audio output setting may be necessary on the player.

Cannot access to network.

• Try plugging/unplugging the unit or the wireless LAN router or check their power-on status. This will work well in many cases.
• If the desired wireless LAN router is not in the access point list, it may be set to hide SSID or the ANY connection may be off. Change the setting and try again.

Cannot connect Bluetooth

• Try plugging/unplugging the unit and the Bluetooth-enabled player. After that, check that the Bluetooth function is enabled on the Bluetooth-enabled device and the connection with the unit has been established.

Reseting the unit

Resetting the unit to the status at the time of shipment may solve the problem. If the measures above do not solve the problem, reset the unit with the following procedure. If you reset the unit status, your preferences will be reset to the defaults. Note them down before starting reset.

How to reset:
1. While holding down CBL/SAT on the main unit (note that step 2 must be performed with this button pressed down)
2. Press ON/STANDBY on the main unit (“Clear” appears on the display and the unit returns to standby)

How to reset the remote controller:
1. While holding down RCV on the remote controller, press HOME until the remote indicator lights (about 3 seconds)
2. Within 30 seconds, press RCV again
Specifications

Amplifier Section

Rated Output Power
- All channels: 95 watts minimum continuous power per channel, 8 ohm loads, 2 channels driven from 20 Hz to 20 kHz, with a maximum total harmonic distortion of 0.08% (FTC)
- 115 watts minimum continuous power per channel, 6 ohm loads, 2 channels driven at 1 kHz, with a maximum total harmonic distortion of 0.7% (FTC)
- (North American) 7 ch x 160 W at 6 ohms, 1 kHz, 1 ch driven of 1% (IEC) (Others)

Dynamic Power (+)
- IEC60268-Short-term maximum output power
  - 240 W (3 Ω, Front)
  - 210 W (4 Ω, Front)
  - 120 W (8 Ω, Front)

THD+N (Total Harmonic Distortion+Noise)
- 0.08% (20 Hz - 20 kHz, half power)

Damping Factor
- 60 (Front, 1 kHz, 8 Ω)

Input Sensitivity and Impedance (Unbalance)
- 200 mV/47 kΩ (LINE)
- 2.5 mV/47 kΩ (PHONO MM)

Rated RCA Output Level and Impedance
- 200 mV/2.2 kΩ (LINE OUT)

Maximum RCA Output Level and Impedance
- 2 V/2.2 kΩ (LINE OUT)

Phono Overload
- 70 mV (MM 1 kHz 0.5% Direct)

Frequency Response
- 5 Hz - 100 kHz/±1 dB, –3 dB (Direct mode)

Tone Control Characteristics
- ±10 dB, 20 Hz (BASS)
- ±10 dB, 20 kHz (TREBLE)

Signal to Noise Ratio
- 106 dB (LINE, IHF-A)
- 80 dB (PHONO MM, IHF-A)

Speaker Impedance
- 6 Ω - 16 Ω (North American and Taiwanese)
- 4 Ω - 16 Ω (Others)

Video Section

Input Sensitivity/Output Level and Impedance
- 1 Vp-p/75 Ω (Component Y)
- 0.7 Vp-p/75 Ω (Component Y/C, P/C)
- 1 Vp-p/75 Ω (Composite)

Component Video Frequency Response
- 5 Hz - 100 MHz/–0 dB, –3 dB

Tuner Section

FM Tuning Frequency Range
- 87.5 MHz - 107.9 MHz (North American and Taiwanese)
- 87.5 MHz - 108.0 MHz, RDS (Others)

AM Tuning Frequency Range
- 522/530 kHz - 1611/1710 kHz

Network Section

Ethernet LAN
- 10BASE-T/100BASE-TX

Wireless LAN
- IEEE 802.11 b/g/n standard
  - (Wi-Fi standard)
  - 2.4 GHz band:
    - 1 - 11 ch (North American)
    - 10 - 13 ch (France)
  - 5 GHz band:
    - 1 - 13 ch (Others)

Bluetooth Section

Communication System
- Bluetooth specification version 2.1 +EDR (Enhanced Data Rate)

Maximum Communication Range
- Line of sight approx. 15 m (+)

Frequency Band
- 2.4 GHz band (2.4000 GHz - 2.4835 GHz)

Modulation Method
- FHSS (Freq Hopping Spread Spectrum)

Compatible Bluetooth Profiles
- A2DP 1.2 (Advanced Audio Distribution Profile)
- AVRCP 1.3 (Audio Video Remote Control Profile)

Supported Codecs
- SBC

Transmission Range (A2DP)
- 20 Hz - 20,000 Hz (Sampling frequency 44.1 kHz)

The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, cordless phone, reception sensitivity, antenna’s performance, operating system, software application, etc.

General

Power Supply
- AC 120 V, 60 Hz (North American and Taiwanese)
- AC 220 - 240 V, 50/60 Hz (Others)

Power Consumption
- 6.3 A (North American and Taiwanese)
- 630 W (Others)
- 0.1 W (Stand-by, North American and Taiwanese)
- 0.2 W (Stand-by, Others)
- 80 W (No-sound)

Dimensions (W x H x D)
- 435 mm x 175.5 mm x 329 mm
- 17-1/8” x 6-13/16” x 12-15/16”

Weight
- 10.0 kg (22.0 lbs.) (North American and Taiwanese)
- 10.5 kg (23.1 lbs.) (Others)
- 10.0 kg (22.0 lbs.) (North American and Taiwanese)
- 6.3 A (Others)

Audio Outputs

HDMI
- Input IN1 (BD/DVD, 4K), IN2 (CBL/SAT, 4K), IN3 (STB/DVR, 4K, HDCP2.2), IN4 (GAME, 4K), IN5 (PC), IN6, AUX INPUT (HDMI/MHL) (front)
- Output OUT MAIN (ARC, HDCP2.2), OUT SUB

Video Resolution
- Pass through: 4K 60 Hz (YCbCr 4:2:0)
- Upscaling: 4K 30 Hz

Audio Format
- DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, DSD, Multichannel PCM

Video Inputs
- Component IN (CBL/SAT)
- Composite IN1 (CBL/SAT), IN2 (STB/DVR), IN3 (GAME)

Audio Outputs
- Component OUT
- Composite MONITOR OUT

Audio Inputs
- Digital OPTICAL (TV/CD)
- COAXIAL 1 (BD/DVD), 2 (CBL/SAT)

Analog BD/DVD, CBL/SAT, STB/DVR, GAME, PC, TV/CD, PHONO

Others

Setup Mic
- 1 (Front)

USB
- 1 (Front)

Ethernet
- 1

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Precautions

For European Models

Declaration of Conformity

We declare, under our sole responsibility, that this product complies with the standards:

- Safety
- Limits and methods of measurement of radio disturbance characteristics
- Limits for harmonic current emissions
- Limitation of voltage changes, voltage fluctuations and flicker
- RoHS Directive, 2011/65/EU

For European Models

- Onkyo Corporation, declares that this TX-NR636 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
- Onkyo Corporation týmto vyhlasuje, že TX-NR636 a spíše základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
- Onkyo Corporation izjavlja, da je ta TX-NR636 v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive 1999/5/ES.
- Onkyo Corporation vakuuttaa tätän että TX-NR636 täyte on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

- Hereby, Onkyo Corporation, declares that this TX-NR636 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
- Onkyo Corporation, declara que o TX-NR636 cumpre os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
- Onkyo Corporation, declará que o aparatu TX-NR636 este em conformidade com as exigências essenciais e com as disposições pertinentes da Directiva 1999/5/EC.

- Hermed forklarer Onkyo Corporation at denne TX-NR636 følger de væsentlige krav og andre relevante stadgar i Direktiv 1999/5/EC.
- Onkyo Corporation izjavlja, da je ta TX-NR636 v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive 1999/5/ES.
- Onkyo Corporation erklærer herved at denne TX-NR636 er i overensstemmelse med vanskelige krav og andre relevante bestemmelser i direktiv 1999/5/EC.
- Onkyo Corporation, potvrđuje da je TX-NR636 u sužasnosti sa osnovnim zahtjevima i ostalim relevantnim odredbama Direktive 1999/5/EC.

- Onkyo Corporation declares that this TX-NR636 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
- By this declaration, Onkyo Corporation declares that this TX-NR636 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
- By this declaration, Onkyo Corporation declares that this TX-NR636 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
- Onkyo Corporation vakuuttaa täten että TX-NR636 täyte on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

- By this declaration, Onkyo Corporation declares that this TX-NR636 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
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