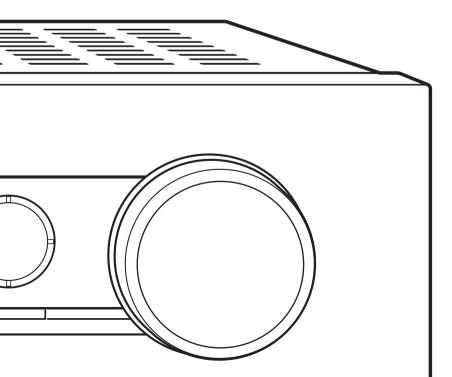


Network Stereo Receiver

TX-8130

Instruction Manual



Thank you for purchasing an Onkyo product. Please retain this manual for future reference.

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Supplied accessories

Before use, check the packaging for the main unit and the accessories below.

- Remote control (RC-905S) × 1
- Batteries for remote control (AAA/R03) × 2
- AM loop antenna × 1



Indoor FM antenna × 1



WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important safety instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.



PORTABLE CART

- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15.Damage Requiring Service

Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- A. When the power-supply cord or plug is damaged,
- B. If liquid has been spilled, or objects have fallen into the apparatus,
- C. If the apparatus has been exposed to rain or water,
- D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation,
- E. If the apparatus has been dropped or damaged in any way, and
- F. When the apparatus exhibits a distinct change in performance this indicates a need for service.
- 16.Object and Liquid Entry

Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

Don't put candles or other burning objects on top of this unit.

17.Batteries

Always consider the environmental issues and follow local regulations when disposing of batteries.

18.If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.

Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape.

Precautions

- Recording Copyright—Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder.
- AC Fuse—The AC fuse inside the unit is not userserviceable. If you cannot turn on the unit, contact your Onkyo dealer.
- 3. Care—Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering.

4. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz).

The power cord plug is used to disconnect this unit from the AC power source. Make sure that the plug is readily operable (easily accessible) at all times.

For models with [POWER] button, or with both [POWER] and [ON/STANDBY] buttons: Pressing the [POWER] button to select OFF mode does not fully disconnect from the mains. If you do not intend to use the unit for an extended period, remove the power cord from the AC outlet.

For models with [ON/STANDBY] button only: Pressing the [ON/STANDBY] button to select Standby mode does not fully disconnect from the mains. If you do not intend to use the unit for an extended period, remove the power cord from the AC outlet.

5. Preventing Hearing Loss Caution

Excessive sound pressure from earphones and headphones can cause hearing loss.

6. Batteries and Heat Exposure Warning

Batteries (battery pack or batteries installed) shall not be exposed to excessive heat as sunshine, fire or the like.

 Never Touch this Unit with Wet Hands—Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by your Onkyo dealer.

8. Handling Notes

- If you need to transport this unit, use the original packaging to pack it how it was when you originally bought it.
- Do not leave rubber or plastic items on this unit for a long time, because they may leave marks on the case.
- This unit's top and rear panels may get warm after prolonged use. This is normal.
- If you do not use this unit for a long time, it may not work properly the next time you turn it on, so be sure to use it occasionally.

For British models

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

Blue: Neutral Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IMPORTANT

The plug is fitted with an appropriate fuse. If the fuse needs to be replaced, the replacement fuse must approved by ASTA or BSI to BS1362 and have the same ampere rating as that indicated on the plug. Check for the ASTA mark or the BSI mark on the body of the fuse. If the power cord's plug is not suitable for your socket outlets, cut it off and fit a suitable plug. Fit a suitable fuse in the plug.

ſF

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

WEEE

http://www.onkyo.com/manual/weee/weee.pdf

DISCLAIMER

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Features

A wide range of playback possibilities with Network Features

Connect to the router to the network to access a vast store of music.

- Many of the major Internet radio services such as TuneIn Radio are preregistered in the menu
- Supports Spotify. Play music from Spotify with high sound quality
- Home network feature that allows you to play music files from your computer (DLNA, Home Media)

Plays high-quality 192 kHz/24 bit high-res sources



You can play high-res sources in formats such as WAV, FLAC, or DSD files (*) distributed over the Internet by using the Home Network feature or connecting a USB storage device.

- Playback through the home network feature By connecting this unit to the same router as your computer, you can play the high-res sources you downloaded to your computer using the DLNA or Home Media features with simple operations on the remote control.
- Playback from connected USB storage devices

By connecting the USB storage device containing high-res sources to this unit, you can play them with simple operations on the remote control.

* The unit supports WAV and FLAC files up to 192 kHz/24 bit (up to 96 kHz when playing WAV files from a USB storage device). The unit can play 2.8 MHz and 5.6 MHz DSD files (only 2.8 MHz when playing from a USB storage device). See "Compatible devices/media/file formats" (⇔ 37) for details.

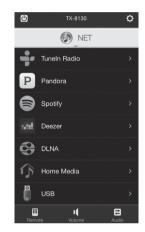
High-quality, fully-fledged audio design

- High-powered discrete amplifier that can drive even a large speaker system
- WRAT (Wide Range Amplifier Technology)
- · Closed loop circuit to stabilize the ground potential
- Heavy duty parts supported from below by the oval chassis
- Direct feature that outputs pure sound as it was intended by bypassing the tone control circuits during play
- Optimum Gain Volume Circuitry
- Two speaker terminal systems, A and B, SUBWOOFER PRE OUT jack
- DIGITAL IN and LINE IN terminals to play external players. Supports connection to a record player with a PHONO terminal or with a MM cartridge

Other functions

- Front USB port for playing music files on a USB storage device
- AM/FM tuner capable of presetting up to 40 stations
- BGM button that gives you access to Internet radio or AM/FM radio at the touch of a button
- Opt1 In Wakeup feature that starts this unit when a player connected with a digital optical cable starts
- A wide variety of music files are supported, including MP3, WAV, FLAC, DSD, WMA, MPEG4 AAC (with the Home Network feature and connection of a USB storage device)

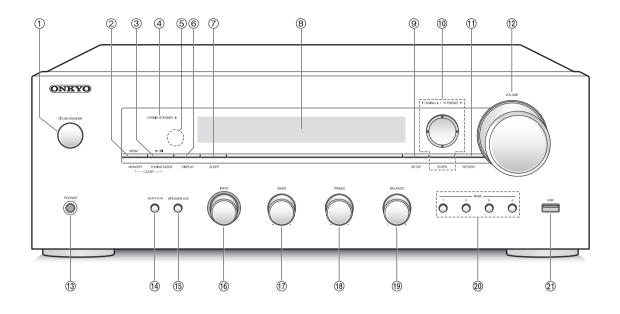
Onkyo Remote (smartphone app)



- Input source selection, volume adjustments, and other basic operations possible on your smartphone, which serves as the unit's remote control
- GUI screens that enable intuitive track selection operations on the Internet radio and DLNA

 Streaming of music data stored on your smartphone Supports iOS and AndroidTM devices. You will need a wireless LAN environment to use apps.

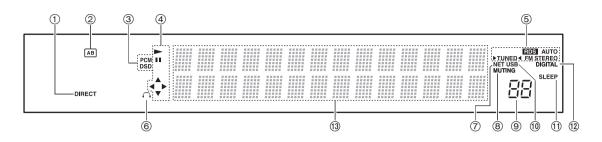
Names and functions of parts



Front

- (1) **(b) ON/STANDBY button:** Press this button to turn the unit on or put it in standby mode.
- ② MENU/MEMORY button: Press this button to display the menu or register a AM/FM station.
- ③ Playback (►)/Pause (■)/TUNING MODE button: Press this button to playback (*), pause (*), or switch the AM/FM tuning mode.
- ④ HYBRID STANDBY LED: Lights when any of Network Standby or Opt1 In Wakeup are on.
- **5** Remote control signal receiver
- 6 **DISPLAY button:** Change the information shown.
- SLEEP button: Press this button to set the sleep timer.
- ⑧ Display (⇔ 8)
- (9) **SETUP button:** Used to display the setup menu.
- 1 Direction/▼TUNING▲/ PRESET►/ENTER button: Move 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►.
- ① RETURN button: Returns the display to the previous state during setting or operation.
- 1 VOLUME control: Used to adjust the volume.

- 1 PHONES terminal: Connect headphones with a standard plug.
- RT/PTY/TP button: Use when receiving stations transmitting text information.
- (5) SPEAKER A/B button: Select the terminals to output audio from between SPEAKERS A/B.
- (i) INPUT control: Selects the source to playback.Turn the control to switch the source in the following order; BD/DVD→CBL/SAT→PC→GAME→CD→PHONO→ TV/TAPE→AM→FM→NET
- 1 BASS control: Adjusts the bass level.
- (18) TREBLE control: Adjusts the treble level.
- BALANCE control: Adjusts the audio output balance between the left and right speakers.
- BGM 1/2/3/4 buttons: Preset your favorite Internet radio or AM/FM radio stations.
- ② USB port: A USB storage device is connected so that music files stored in it can be played.
 - * Operate with USB storage device play or the home network feature (DLNA, Home Media).



Display

- () **DIRECT indicator:** This indicator appears when Direct of the audio quality setup is on.
- ② Speaker selection display (A/B): Displays the selected speaker terminals.
- ③ PCM/DSD: Lights according to the type of input digital signals.
- ④ Playback/Pause/Cursor display
- **(5)** AM/FM reception statuses

AUTO: This indicator appears when Auto Tuning Mode is selected.

FM STEREO: This indicator appears when the unit is tuned into a stereo FM broadcast.

RDS: This indicator appears when the unit receives RDS information.

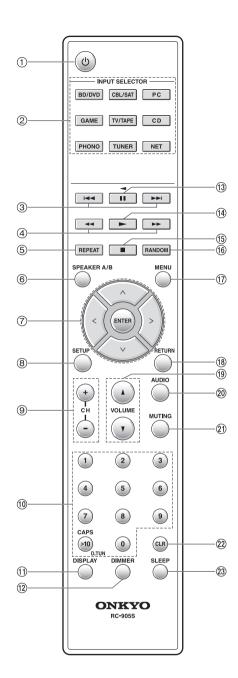
►TUNED ◄: This indicator appears when the unit is tuned into a radio station.

- 6 Headphone indicator: Stays lit when headphones are connected.
- ⑦ NET: Lights when "NET" is selected as the input source. It will flash if the connection is not correct.
- ⑧ MUTING indicator: This indicator flashes when audio is muted temporarily.
- 9 Volume level
- ① USB: Lights when "USB" is selected as the input source. It will flash if the connection is not correct.
- ① SLEEP indicator: This indicator appears when the sleep timer is set.
- ⑦ DIGITAL: Lights when the selected input source is digital.

 Message display area: Track information and menus appear here.

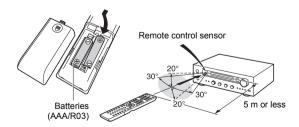
The following icons appear.

- : Folder
- : Track/Broadcast station name
- Is a start in the image is
- II : Paused
- ∷ Searching forward
- ☆ : Searching backward
- III : Artist name
- : Album name
- : Repeat all tracks
- 1 C: Repeat one track
- EREPEAT tracks in the folder or playlist (DLNA)
- : Random

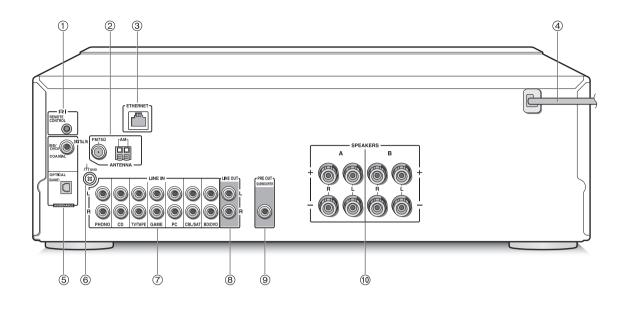


Remote control

- (1) **button:** Press this button to turn the unit on or put it in standby mode.
- ② INPUT SELECTOR buttons: Use these buttons to select the source.
- ③ Skip (► / ►) buttons (*)
- ④ Search (◀◀/▶►) buttons (*)
- (5) REPEAT button: Turns repeat play on and off and selects the mode. (*)
- (6) SPEAKER A/B button: Select the terminals to output audio from between SPEAKERS A/B.
- **⑦** Direction ($\land I \lor I < I >$)/ENTER buttons: Select items with the direction buttons and press the ENTER button to confirm.
- (8) SETUP button: Used to display the setup menu.
- ③ CH (+/-) buttons: Select registered stations.
- 10 Number buttons
- (1) **DISPLAY button:** Change the information shown.
- DIMMER button: Use this button to switch the display's brightness between normal, moderately dark and dark.
- 13 Pause (II) button (*)
- (④ Playback (►) button (*)
- (15) Stop (■) button (*)
- (6) **RANDOM button:** Plays tracks in the folder or playlist (DLNA) randomly. (*)
- (1) MENU button: Press this button to display the menu.
- (B RETURN button: Returns the display to the previous state during setting or operation.
- (19 VOLUME ▲/▼ button
- ② AUDIO button: Use this button to adjust sound quality, etc.
- 2 MUTING button: Temporarily mutes audio.
- CLR button: Use this button to clear the characters that you have input.
- SLEEP button: Press this button to set the sleep timer.
 - * Operate with USB storage device play or the home network feature (DLNA, Home Media).



If you intend not to use the remote control for a long time, remove the batteries to prevent damage from leakage or corrosion. Expired batteries should be removed as soon as possible to prevent damage from leakage or corrosion.



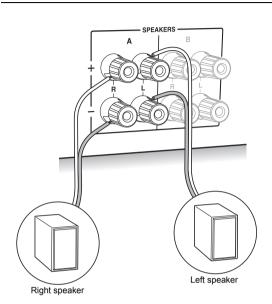
Rear

- RIREMOTE CONTROL jack: An Onkyo product with RI jack can be connected and synchronized with this unit.
- ② FM 75Ω and AM ANTENNA terminals: The supplied antennas are connected.
- ③ ETHERNET port: Connect to the router with an Ethernet cable.
- ④ Power cord: Connect the power cord to an AC outlet. Disconnect the power cord only after putting the unit into standby mode.
 - * Turning on the unit may cause a momentary power surge that might interfere with other electrical equipment on the same circuit. If this is a problem, plug the unit into a different branch circuit.
- ⑤ DIGITAL IN OPTICAL/COAXIAL terminals: Connected to players. Use a digital optical cable or digital coaxial cable for connection with the digital audio output jack of a player.
- ⑥ GND terminal: Connect if the record player has a ground wire.
- ⑦ LINE IN terminals: Connected to players. Use an RCA cable for connection with the LINE OUT terminal of a player.
- ⑧ LINE OUT terminals: Use when connecting recording devices, such as a cassette tape deck. Use an RCA cable to connect to the LINE IN terminal on a recording device.
- SUBWOOFER PRE OUT jack: Connect a subwoofer with a built-in amplifier to amplify bass output.
- (1) SPEAKERS A/B terminals: You can connect a set of left and right speakers to each of the A/B terminals.

Connections

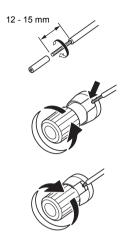
• The power cord must be connected only after all other cable connections are completed.

Connecting speakers



When connecting only one set of speakers, connect to the SPEAKERS A terminals as shown in the illustration. Make correct connection between the unit's jacks and speaker's jacks (+ to + and - to -) for each channel. If connection is wrong, a bass sound may become poor due to reverse phase.

Connect speakers with 4 Ω to 16 Ω impedance. You have to change the impedance setting if any of the speakers have 4 Ω or more to less than 6 Ω impedance. See setup menu "3. Hardware" - "Speaker Impedance" (⇔ 31).



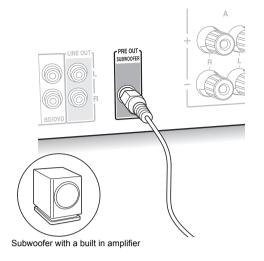
Twist the wires of the speaker cable tightly before inserting into the terminals. After inserting the cables, tighten the terminals firmly by turning to the right.

When also connecting to the SPEAKERS B terminals:

Connect using the same method described for SPEAKERS A. Connect speakers with 8 Ω to 16 Ω impedance to the both A/B terminals. In this case, change the impedance setting on this unit. See setup menu "3. Hardware"-"Speaker Impedance" (\Rightarrow 31).

 Press the SPEAKER A/B button on the unit or the remote control to switch the speakers. (The selection changes in the order SPEAKER A→SPEAKER B→SPEAKER A+B.)

When connecting a subwoofer:



Use a subwoofer cable to connect the SUBWOOFER PRE OUT jack to the LINE INPUT terminal on a subwoofer with a built in amplifier.

 Audio is output from the SUBWOOFER PRE OUT jack when you set either SPEAKER A or SPEAKER A+B as the speakers to output audio.

The following connections can cause damage so please be careful.



Short-circuiting the + cable and - cable



Contacting the cable core to the rear panel of the unit



Connecting two or more cables to one speaker terminal of this unit



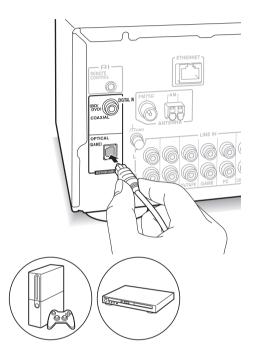
Connecting two or more cables to one terminal of a speaker

Connecting a player

You can enjoy the audio from players such as televisions, Blu-ray disc players, and game consoles.

DIGITAL IN connection

If the player has an optical or coaxial digital output terminal, connect using either a digital optical cable or digital coaxial cable to one of the DIGITAL IN terminals. To play, select the terminal name with the INPUT SELECTOR.

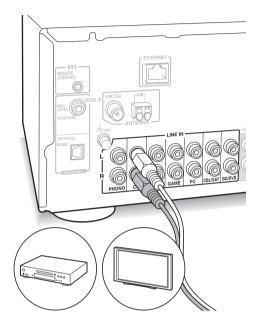


Note that this unit is equipped with an "Opt1 In Wakeup feature" so that when play starts on a player connected to the OPTICAL (GAME) terminal, this unit comes on and the INPUT SELECTOR automatically changes. (⇔ 31)

- The DIGITAL IN terminals can only handle PCM signals.
- As the digital in optical jack of the unit has a cover, push in the cable straight against the cover as it is turned inside.

LINE IN connection

Use an RCA cable to connect to the LINE OUT terminal on the player to one of the LINE IN terminal on this unit. To play, select the terminal name with the INPUT SELECTOR.



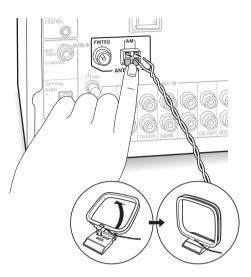
 Connect the record player (MM cartridge) to the LINE IN PHONO terminal. If the record player has a ground wire, connect it to the GND terminal of this unit. Note that if the connected record player has a built-in audio equalizer, connect it to a LINE IN terminal other than PHONO.



AM/FM antenna connections

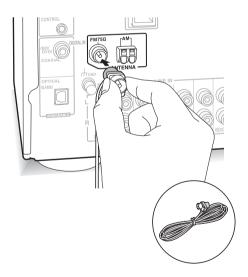
- Connect the antennas to listen to AM/FM broadcast.
- You may be unable to receive radio transmissions in some areas even if you connect an antenna.

AM antenna



Assemble the AM loop antenna (supplied) and connect it to the AM terminal.

FM antenna

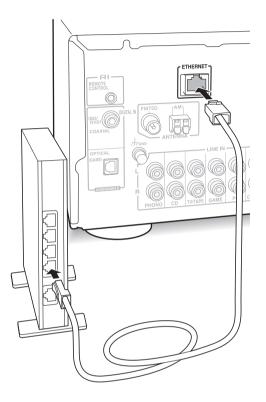


Connect the supplied FM antenna to the FM 75Ω terminal. Make sure the plug is pushed in all the way. Use a tack or similar to fix the antenna to a wall.

Network connection

This enables you to enjoy Internet radio services (*), Spotify, and the home network features. Connect to the same router as the smartphone, computer, or NAS you are going to use.

You need to be able to connect to the Internet.



Connect to the router to this unit's ETHERNET port with an Ethernet cable (*).

* Use a shielded CAT5 Ethernet cable (straight-type).

Listening to Internet radio

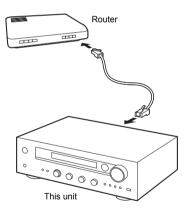
Some Internet radio services are registered to the unit by default. You can display the desired service, menu or radio station on the display and play the radio with simple remote control operation.

NET TuneIn Radio
NET Pandora
NET Deezer

You can also listen to broadcast stations that are not included in the preset services by registering them to "My Favorites", which appears when you press the NET button.

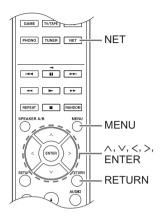
NET My Favorites

 Services available may vary depending on the region. If service from the service provider stops, use of that network services and contents might cease to be possible.



Tuneln Radio

With the radio stations and the on-demand programs registered, Tuneln Radio is a service where you can enjoy music, sports and news from all over the world.



Playing back

- 1. Press the NET button.
- Use the direction (∧/∨) buttons to select "TuneIn Radio" on the display and press the ENTER button.



- Press the direction (∧/∨) buttons to select a folder or menu item from the "TuneIn Radio" top list, and press the ENTER button.
 - The folders and menu items displayed on the top list are provided by the Internet radio service and categorised by genre, etc.
- Use the direction (∧/∨) buttons to select a radio station and press the ENTER button. Playback starts.
- If there are more than 10 items when you select a folder or menu, you can move through the list numbers 10 at a time each time you press the direction (</>) buttons.

Tuneln Radio Menu

If you press the MENU button or ENTER button while playing Tuneln Radio, the following Tuneln Radio menu items appear. To use each function, use the direction (\land/\lor) buttons to select a menu item on the display, and press the ENTER button. Menu items to be displayed differ depending on the broadcast station you are playing.

Add to My Presets: Registers radio stations and programs in your "My Presets" folder within TuneIn Radio. (When an item has been registered, the "My Presets" folder will be added to the "TuneIn Radio" top list.)

Remove from My Presets: Deletes a radio station or program from your "My Presets" folder. Clear recents: Clears all radio stations and programs from the "Recents" folder within "TuneIn Radio" top list.

Add to My Favorites: Registers radio stations and programs in "My Favorites".

 Other menu items include "View Schedule", which displays the program guide of radio stations and "Report a problem".

Regarding the TuneIn Radio Account

Creating an account on the Tuneln Radio website (tunein.com) and logging in it from the unit allows you to automatically add radio stations and programs to your "My Presets" folder on the unit as you follow them on the website.

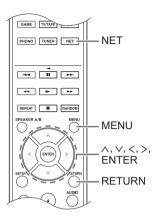
To log in from the unit: Select "Login" - "I have a TuneIn account" in the "TuneIn Radio" top list on the unit, and then enter your user name and password. If you select "Login" - "Login with a registration code" to display a registration code, access My Info on the TuneIn Radio website, and specify the device identity with the registration code, you will stay logged into the website until you log out from the unit.

 For information on how to input characters, see "Inputting characters" (⇒ 30) under "Various settings".

Pandora[®]-Getting Started

(Australia and New Zealand only)

Pandora is a free, personalized Internet radio service that plays the music you know and helps you discover music you'll love.



Playing back

- 1. Press the NET button.
- Use the direction (∧/∨) buttons to select "Pandora" on the display and press the ENTER button.

NET Pandora

3. Use the direction (∧/∨) buttons to select "I have a Pandora Account" or "I'm new to Pandora" and then press the ENTER button. If you are new to Pandora select "I'm new to Pandora". You will see an activation code on the display. Please write down this code. Go to an Internet connected computer and point your browser to www.pandora.com/onkyo. Enter your activation code and then follow the instructions to create your Pandora account and your personalized Pandora stations. You can create your stations by entering your favorite tracks and artists when prompted. After you have created your account and stations you can return to your Onkyo receiver and press the ENTER button to begin listening to your personalized Pandora.

If you have an existing Pandora account, you can add your Pandora account to your Onkyo receiver by selecting "I have a Pandora Account" and logging in with your email and password.

- For information on how to input characters, see "Inputting characters" (⇒ 30) under "Various settings".
- If you want to use multiple user accounts, see "Using Multiple Accounts" (⇔ 17). Login can be made from the "Users" display.
- To play a station, use the direction (∧/∨) buttons to select the station from your station list, and then press the ENTER button. Playback starts.

Create a New Station

Enter the name of a track, artist, or genre and Pandora will create a unique radio station for you based on the musical qualities of that track, artist, or genre.

Pandora Menu

- If you press the MENU button or ENTER button while playing Pandora, the following menu items appear.
- I like this track: Give a track "thumbs-up" and Pandora will play more music like it.

I don't like this track: Give a track "thumbs-down" and Pandora will ban that track from the current station.

Why is this track playing?: Discover some of the musical attributes that Pandora uses to create your personal radio stations.

I'm tired of this track: If you are tired of a track, you can put the track to sleep and Pandora will not play it for one month.

Create station from this artist: Creates a radio station from this artist.

Create station from this track: Creates a radio station from this track.

Delete this station: This will permanently delete a station from your Pandora account. All of your thumbs feedback will be lost should you choose to re-create the station with the same track or artist. Rename this station: Lets you rename the current radio station.

Bookmark this artist: Pandora will bookmark your favorite artist for your profile on www.pandora.com. Bookmark this track: Pandora will bookmark the current track and allow you to buy them all from Amazon or iTunes[®] in one step!

Add to My Favorites: Adds a station to My Favorites list.

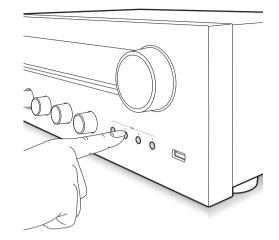
Using Multiple Accounts

The receiver supports multiple user accounts, which means you can freely switch between several logins. After registering user accounts, login is performed from the "Users" display.

Press the MENU button while "Users" is displayed. "Add new user", "Remove this user" menu appear. You can either store a new user account, or delete an existing one.

- Some of the services don't allow the use of multiple user accounts.
- You can store up to 10 user accounts.
- To switch between accounts you must first log out from the current account, and log in again on the "Users" display.

One touch play with the BGM button



By registering your favorite Internet radio stations to BGM buttons, you can start play with one press of a button.

 To register, press and hold one of the BGM 1 to 4 buttons while playing the station.
 "Preset Written" appears on the display, and the radio station being played is registered. If there is already a radio station registered, it is replaced.

Preset Written

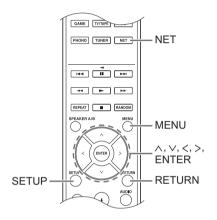
2. Press one of the BGM 1 to 4 buttons to play. If you press these buttons when the unit is in standby mode, it comes on and play starts.

Registering your favorite radio stations (My Favorites)

You can listen to your favorite radio stations by registering them to "My Favorites", which appears when you press the NET button. "My Favorites" allows you to register up to 40 stations.

NFT My Favorites

• This unit supports Internet radio stations that use the PLS, M3U and podcast (RSS) formats. Even if an Internet radio station uses one of these formats, playback might not always be possible depending on the type of data and playback format.



Registering a station in the "My Favorites"

There are two ways to register your favorite radio stations to "My Favorites": you can either use a PC or operate the unit.

Registering a station with PC

You will need the name and URL of the radio station to add during the storing procedure, so check them in advance. You have to connect your PC and this unit to the same network.

Input the IP address of the unit into an Internet browser on the PC to access Web Setup and register a station.

- 1. Press the SETUP button.
- Use the direction (∧/∨) buttons to select "5. Network" on the display and press the ENTER button.

5.Network

 Use the direction (∧/∨) buttons to display "IP Address".



Make a note of the IP address.

- 4. Turn the PC on and open Internet Explorer or another Internet browser.
- Input this unit's IP address into the Internet browser URL field. If the IP address displayed on the unit is "1 9 2 1 6 8 x x x y y y", input "192.168.xxx.yyy" into the URL field.

If the IP address is "1 9 2 1 6 8 x x y y y", input

"192.168.xx.yyy" into the URL field.

If the IP address is "1 9 2 1 6 8 x y y y", input "192.168.x.yyy" into the URL field.

This unit's Web Setup information screen will open in the Internet browser.

ONKYO			Web Setup
	*	- - h	
Device Information			C ⁴ Save
	Device Name: Friendly Name: DMR Max Volume: Auto Play:	TX-8130 64 (0-80)	
Control4			Identify

- Click the "★" tab and input the name and URL of the Internet radio station.
- Click "Save" to finish registering that Internet radio station.

Registering a station by operating the unit

You will need the name and URL of the radio station to add during the storing procedure, so check them in advance.

Input radio station information directly into "My Favorites" of the unit.

- 1. Press the NET button.
- Use the direction (∧/∨) buttons to select "My Favorites" on the display and press the ENTER button.

NET My Faworites

 Press the direction (\/\/</>) buttons to select a number to which a radio station is not registered, and press the MENU button.

```
My Favor 1/40
```

 Use the direction (∧/∨) buttons to select "Create new station" and press the ENTER button.



- 5. Input the name of the radio station.
 - For information on how to input characters, see "Inputting characters" (⇒ 30) under "Various settings".
- 6. Input the URL of the radio station.

Playing a registered radio station

- 1. Press the NET button.
- 2. Use the direction (\wedge / \vee) buttons to select "My Favorites" on the display and press the ENTER button.



 Use the direction (\/\/</>) buttons to select a radio station and press the ENTER button. Playback starts.

To remove a radio station that has been added:

- 1. Select the radio station in the "My Favorites" and press the MENU button.
- Use the direction (∧/∨) buttons to select "Delete from My Favorites" and press the ENTER button. A message requesting confirmation appears.
- 3. Press the ENTER button.

To change the name of a radio station that has been added:

- 1. Select the radio station in the "My Favorites" and press the MENU button.
- 2. Use the direction (\wedge/\vee) buttons to select "Rename this station" and press the ENTER button.
- 3. Input the name of the radio station.
 - For information on how to input characters, see "Inputting characters" (⇒ 30) under "Various settings".

Playing music with Spotify

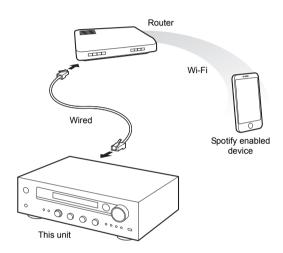
To use Spotify, you must install the Spotify app on your smartphone or tablet and create a Spotify Premium account.

- You will need a wireless LAN environment to use Spotify.
- The unit and smartphone or tablet must be connected to the same router.
- Information on how to set up Spotify can be found here:

www.spotify.com/connect/

The Spotify software is subject to third party licenses found here:

www.spotify.com/connect/third-party-licenses



Playback

- 1. Start up the Spotify app on the smartphone or tablet.
- 2. On the track playback screen, click the Connect icon and select the unit. Spotify's streaming will start.



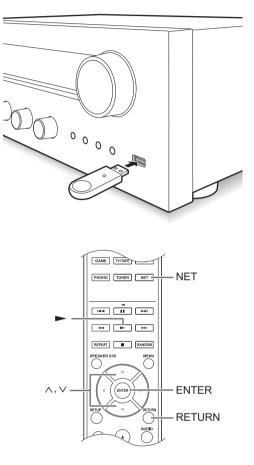
If the volume setting on the Spotify enabled device is low, the sound will not be output from this unit, so adjust the volume to an appropriate level.

If "3. Hardware"-"Network Standby" (⇔ 31) is set to "On" in the setup menu, then once Spotify starts, this unit switches on automatically and the "NET" input source is selected. Even if this setting is "Off", if the unit is already on then the "NET" input source is selected.

Playing tracks stored on a USB storage device

You can connect a USB storage device to the USB port on the front panel and play music files on it.

 You can play high-res sources in formats such as WAV, FLAC, or DSD files distributed over the Internet. For information on supported devices and file formats, see "Compatible devices/media/file formats" (⇔ 37).



- 1. Press the NET button.
- 2. Use the direction (\wedge/\vee) buttons to select "USB" on the display and press the ENTER button.



- Connect a USB storage to the USB port. When a USB storage is detected, "USB" appears on the display. If "USB" indicator flashes, check whether the USB storage device is plugged in properly.
 - Depending on the USB storage device, reading data from it may take some time.
 - If the media you connect is not supported or cannot be connected properly, the message "No storage" will be displayed.
- 4. Press the ENTER button. The name of the track or folder appears.

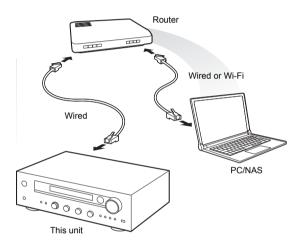
d, "USB" appears on Ishes, check whether Jed in properly. ge device, reading

- Use the direction (∧/∨) buttons to select a track and press the playback (►) button.
 - If you have selected a folder, when you press the playback (▶) button, play starts from the first track in the folder. You can select tracks inside the folder by pressing the ENTER button.
 - Only the music files in the same level of the folder are played. You can also set repeat playback mode to Full and play all tracks stored on the USB storage device.
 - The USB port of this unit conforms to the USB 1.1 standard. Depending on the content being played, the transfer rate may not be sufficient, which can cause interruptions.

Playing music stored on DLNA-compatible devices

The unit allows you to use DLNA (*) to play music files stored on a PC or a NAS device. You can play high-res sources in formats such as WAV, FLAC, or DSD files distributed over the Internet. For information on supported devices and file formats, see "Compatible devices/media/file formats" (⇔ 37).

- You must connect the unit and PC or NAS to the same router.
 - * Digital Living Network Alliance (DLNA) can be referred to as a technology standard or the industry group to develop the technology standard to interconnect and use AV components, PCs and other devices in a home network.



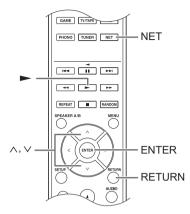
Setting up Windows Media[®] Player Windows Media[®] Player 11

- 1. Turn on your PC and start Windows Media[®] Player 11.
- 2. In the "Library" menu, select "Media Sharing" to open a dialog box.
- Select the "Share my media" check box and click "OK" to display the compatible devices.
- 4. Select this unit and click "Allow".
 - The icon of this unit is checked when you click it.
- 5. Click "OK" to close the dialog box.

Windows Media[®] Player 12

- 1. Turn on your PC and start Windows Media[®] Player 12.
- In the "Stream" menu, select "Turn on media streaming" to open 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.
- 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 "Allowed".
- 5. Click "OK" to close the dialog box.
- When using the Play To feature, open the "Stream" menu and check that "Allow remote control of my Player..." is checked.

Playing music files by operating the unit



You can play music files stored on a server by operating the unit.

- Start the server (Windows Media[®] Player 11, Windows Media[®] Player 12, or NAS device) containing the music files to play.
- 2. Press the NET button.
- Use the direction (∧/∨) buttons to select "DLNA" on the display and press the ENTER button.



4. Use the direction (\wedge/\vee) buttons to select the server and press the ENTER button.

The server folder will be shown.

- You can check the server name of your PC from the PC properties.
- Depending on server functions or sharing settings, some contents might not be shown.
- Use the direction (∧/∨) buttons to select the audio file that you want to play, and press the ENTER button or playback (►) button.
 - If information cannot be retrieved from a server, "No Item" will appear on the display. If this occurs, check the server and network connections.

Using the Play To feature

Using a controller device or PC that complies with the DLNA standard, you can play music files stored on a server.

In this section, we explain the steps to perform remote playback with Windows Media[®] Player 12.

- 1. Turn this unit on.
- 2. Turn on your PC and start Windows Media[®] Player 12.
- Select the file that you want to play in Windows Media[®] Player 12 and right-click it. This opens a pop-up menu.
 - To use the Play To feature with audio files on a different server, open that server from the list that appears under "Other Libraries" and select the audio file that you want to play.
- 4. Click the "Play to" and select this unit from the Play To list.

Open the Windows Media[®] Player 12 "Play To" dialog box, and start playback from this unit.

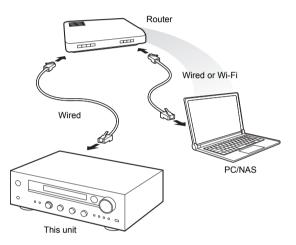
Use the "Play To" dialog box to control remote playback.

- Remote playback is not possible when you are performing a different operation that uses the network on the unit or playing a music file stored on a USB storage on the unit.
- If your PC is running on Windows[®] 8, click "Play To", and then select this unit.
- 5. Adjust the volume using the volume bar on the "Play To" dialog box.
 - The default maximum volume level is 64. You can change the level using Web Setup. For information on how to access Web Setup, see "Registering your favorite radio stations (My Favorites)" (⇒ 18) under "Listening to Internet radio".
 - Some times, the volume displayed on the "Play To" dialog box may differ from that appeared on the display of the unit.
 - When the volume is adjusted from the unit, the value is not reflected in the "Play To" dialog box.
- Depending on the version of Windows Media[®] Player, the names of the items you need to select may differ from the explanation here.

Music streaming from a shared folder (Home Media)

A shared folder is configured in a network device such as a PC or a NAS device for access from other users. You can play music files in a shared folder on your PC or NAS device connected to the same home network as that of this unit. You can play high-res sources in formats such as WAV, FLAC, or DSD files distributed over the Internet. For information on supported devices and file formats, see "Compatible devices/media/file formats" (⇔ 37).

- You must connect the unit and PC or NAS to the same router.
- You must configure the relevant settings of the PC or NAS in advance. For information on the setup, see the instruction manual for each device. In this section, we explain the setup with Windows[®] 7 and Windows[®] 8.



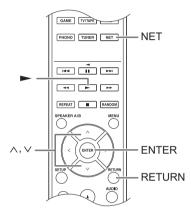
Setting up Windows Configuring the sharing options

- 1. Turn the PC on.
- 2. Select "Choose homegroup and sharing options" in the "Control Panel".
 - If the menu is not displayed, check that "View by" is set to "Category".
- 3. Select "Change advanced sharing settings".
- Check that the following radio buttons are selected in the "Home or Work" (Windows 7) or "Private" and "All Networks" (Windows 8):
 - "Turn on network discovery"
 - "Turn on file and printer sharing"
 - "Turn on sharing so anyone with network access can read and write files in the Public folders" "Turn off password protected sharing"
 - "Turn off password protected sharing"
- Select "Save Changes" and click "OK" in the dialog box.

Creating a shared folder

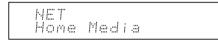
- 1. Select and right-click the folder to share.
- 2. Select "Properties".
- 3. Select "Advanced Sharing" on the "Sharing" tab.
- 4. Select the "Share this folder" check box and click "OK".
- 5. Click "Share" for "Network File and Folder Sharing".
- Select "Everyone" from the pull-down menu. Click "Add" and click "Share".
 - To set a user name and password to a shared folder, set "Permissions" in "Advanced Sharing" in the "Sharing" tab.
 - Check that a workgroup is set.

Playing back



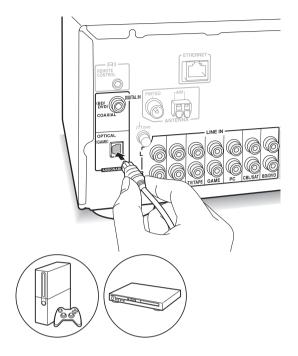
You can play music files in a shared folder stored on each device by operating the unit.

- 1. Press the NET button.
- Use the direction (∧/∨) buttons to select "Home Media" on the display and press the ENTER button.

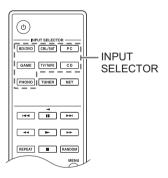


- Use the direction (∧/∨) buttons to select the server that you want to use and press the ENTER button.
 - You can check the server name of your PC from the PC properties.
- Use the direction (</>) buttons to select the shared folder that you want to use and press the ENTER button.
- 5. When a user name and password are required, input the necessary account information.
 - For information on how to input characters, see "Inputting characters" (⇔ 30) under "Various settings".
 - Use the account information set when you created the shared folder. After inputting the account information once, it is saved, so you will not need to input it the next time.
- Press the direction (∧/∨) buttons to select the music file to play and press the ENTER button or playback (►) button.

Listening to the sound from a connected player



You can enjoy the audio from players such as televisions, Blu-ray disc players, and game consoles. See "Connecting a player" (⇔ 12) for connection.



- Switch the input source with the INPUT SELECTOR button to match the terminals you have connected the players to. (If you connected to the BD/DVD terminal, select "BD/DVD".)
- 2. Start play on the player.

If "3. Hardware"-"Opt1 In Wakeup" (⇔ 31) is set to "On" in the setup menu, then once play starts on a device connected to the OPTICAL terminal, this unit switches on automatically and the input source is selected.

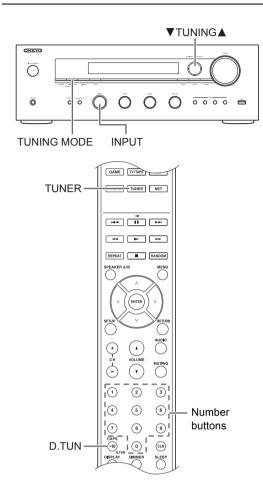
• While playing an analog source, if a digital signal is input to the input source with the same name, play switches to the digital signal.

By connecting an Onkyo component with RI jack to the unit by using an RI cable and an RCA cable, you can link the unit's power and input selection and enable operation with this unit's remote control. For details, refer to the instruction manual of the component with the RI jack.

- Part of the function may not operate even if it is connected via RI depending on the equipment.
- To connect to the RI dock and enable the link, you
 must rename the input selectors on the unit. Turn
 the INPUT control on the main unit to select
 "GAME" on the display. Next press and hold the
 ENTER button for about 3 seconds to change the
 input source name to "DOCK".

Listening to AM/FM radio

Tuning into a radio station



Tuning into stations automatically

- 1. Turn the INPUT control on the main unit to select "AM" or "FM" on the display.
- Press the TUNING MODE button so that the "AUTO" indicator on the display lights.
- Press the ▼TUNING▲ buttons to start automatic tuning.
 - Searching automatically stops when a station is found. When tuned into a radio station, the ">TUNED <" indicator on the display lights. When tuned into an FM radio station, the "FM STEREO" indicator lights.

Ва	nd	Frequency	
F	м (37.50MHz	

When the reception of FM broadcasts is poor: If the radio wave reception is weak or there is excess noise in your location, refer to "Tuning into stations manually" on the next section to change the reception setting to

monaural. This can minimise the noise and audio interruptions.

Tuning into stations manually

If you tune into an FM radio station manually, it will be received in monaural sound.

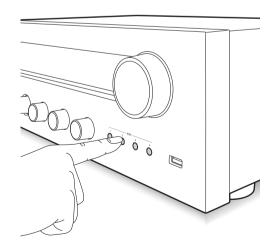
- Turn the INPUT control on the main unit to select "AM" or "FM" on the display.
- Press the TUNING MODE button so that the "AUTO" indicator on the display goes off.
- 3. Press the ▼TUNING▲ buttons to select the desired radio station.
 - The frequency changes by 1 step each time you press the button. The frequency changes continuously if the button is held down and stops when the button is released.
 - You can change the AM frequency step. See "3. Hardware"-"AM Freq Step" (⇒ 31) of the Setup menu.

Tuning into stations by frequency

It allows you to directly enter the frequency of the radio station you want to listen to.

- Press the TUNER button of the remote control repeatedly to select either "AM" or "FM" on the display.
- 2. Press D.TUN button.
- 3. Using the number buttons, enter the frequency of the radio station within 8 seconds.
 - To enter 87.50 (FM), for example, press [8], [7], [5], [0]. If the entered number is incorrect, press the D.TUN button again and re-enter the number.

One touch reception with the BGM button



By registering your favorite radio stations to BGM buttons, you can receive it with one press of a button.

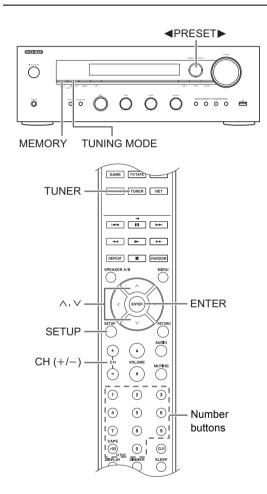
1. To register, press and hold one of the BGM 1 to 4 buttons while receiving the station.

"Preset Written" appears on the display, and the radio station being received is registered. If there is already a radio station registered, it is replaced.

Preset Written

 Press one of the BGM buttons 1 to 4 to listen to the stations you have preset. If you press these buttons when the unit is in standby mode, it comes on and starts receiving the station.

Presetting a radio station



It allows you to register up to 40 of your favorite radio stations. Registering radio stations in advance allows you to tune into your radio station of choice directly.

Registering radio stations

- 1. Tune into the AM/FM radio station you want to register.
- 2. Press the MEMORY button on the unit.
- Press the PRESET buttons several times to select a number between 1 and 40 while the preset number is flashing (about 8 seconds).
- 4. Press the MEMORY button again to register the station.

The preset number stops flashing and lights to indicate that the station is registered.

Selecting preset stations

- Press the TUNER button of the remote control repeatedly to select either "AM" or "FM" on the display.
- 2. Press CH (+/-) buttons to select a preset number.

Naming a preset radio station:

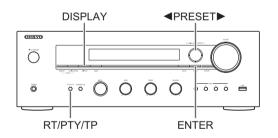
- Press the SETUP button of the remote control while a preset number is displayed, use the direction (∧/ ∨) buttons to select "4. Source", and press the ENTER button.
- 2. Use the direction (\wedge/\vee) buttons to select "Name Edit" and press the ENTER button.
- 3. Enter a name up to 10 characters long.
 - For information on how to input characters, see "Inputting characters" (⇒ 30) under "Various settings".

Erasing a preset radio station:

1. Press and hold the MEMORY button on the main unit and press the TUNING MODE button to delete the preset number.

The preset number is deleted, and the number on the display goes off.

Receiving RDS



RDS stands for Radio Data System and is a method of transmitting data in FM radio signals.

- RDS works only in areas where RDS broadcasts are available.
- In some cases, the text information appeared on the display is not identical to the content transmitted by the RDS station. Furthermore, unexpected characters may be displayed when the unit receives unsupported characters. However, this is not a malfunction.
- If the signal from an RDS station is weak, the RDS data may be displayed continuously or not at all.

PS (Program Service): Tuning into a radio station distributing Program Service information displays the radio station name. Pressing the DISPLAY button displays the frequency for 3 seconds.

RT (Radio Text): Tuning into a radio station transmitting Radio Text information displays text on the display of the unit.

PTY (Program Type): Allows you to search for RDS stations by program type.

TP (Traffic Program): Allows you to search for radio stations transmitting traffic information.

Displaying Radio Text (RT)

 Press the RT/PTY/TP button of the unit once. The Radio Text (RT) is displayed scrolling across the display. "No Text Data" is displayed when no text information is available.

Searching by Type (PTY)

- 1. Press the RT/PTY/TP button of the unit twice. The current program type appears on the display.
- Press the <PRESET► buttons to select the type of program to search for.

The following RDS station types are displayed: None

News (News reports) Affairs (Current affairs) Info (Information) Sport Educate (Education) Drama Culture Science (Science and technology) Varied Pop M (Pop music) Rock M (Rock music) Easy M (Middle of the road music) Light M (Light classics) Classics (Serious classics) Other M (Other music) Weather Finance Children (Children's programmes) Social (Social affairs) Religion Phone In Travel Leisure Jazz (Jazz music) Country (Country music) Nation M (National music) Oldies (Oldies music) Folk M (Folk music) Document (Documentary)

- 3. Press the ENTER button to search the radio stations of the selected type.
- When such a radio station is found, the indication on the display flashes. Then, press the ENTER button again.
 - If no stations are found, the message "Not Found" is displayed.

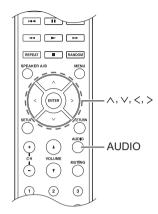
Listening to Traffic Information (TP)

 Press the RT/PTY/TP button of the unit three times. "[TP]" will be displayed if traffic information is transmitted by the radio station you are tuned in. "TP" only is displayed if no traffic information is available.

- 2. Press the ENTER button to search a radio station distributing traffic information.
- 3. When a radio station is found, searching stops and traffic information is received.
 - If no stations are found, the message "Not Found" is displayed.

Various settings

Adjusting sound quality, etc.



- 1. Press the AUDIO button.
- Press the direction (</>
) buttons to select the setting you want to adjust.
- Press the direction (</>) buttons to adjust the setting.

Direct

You can use the Direct feature that outputs pure sound as it was intended by bypassing the tone control circuits during play.

On

- Off (default setting)
- "DIRECT" appears on the display when "On" is selected.
- "Bass" and "Treble" are disabled when "On" is selected.

Bass

Adjusts the bass level.

Select between **-10 dB** and **+10 dB** in 2 dB increments. (default setting: 0 dB)

Treble

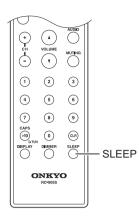
Adjusts the treble level. Select between -10 dB and +10 dB in 2 dB increments. (default setting: 0 dB)

Balance

Adjusts the audio output balance between the left and right speakers.

Select between L+10 and R+10 in 2 steps increments. (default setting: 0)

Sleep timer

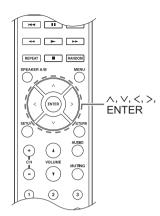


With the sleep timer, you can set the unit so that it automatically turns off after a specified period.

- 1. Press the SLEEP button repeatedly to select the time.
 - With the SLEEP button, you can set the sleep time from 90 to 10 minutes in 10 minute increments.
 The setting is complete 5 seconds after you have displayed the desired time.
 - When the sleep timer has been set, "SLEEP" appears on the display.

■ Checking the remaining time: If you press the SLEEP button, the remaining time until the unit will be put into standby mode appears.

■ To cancel the sleep timer: Press the SLEEP button repeatedly until "SLEEP" disappears.



While performing network settings or in the Internet radio menu, etc., when the following appears on the display, you can enter characters. Enter characters using the following procedure.

>abcdefShijklm

 Use the direction (<//>/</>/>/>) buttons to select a character or symbol and press the ENTER button. Repeat this procedure to input more. The following characters can be used.

С

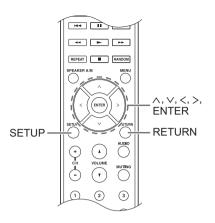
6	a	b	С	d	е	f	g	h	i	j	k	1	m
r	۱	0	р	q	r	s	t	u	۷	W	Х	у	Ζ
1		2	3	4	5	6	7	8	9	0	-	^	\
Γ,			/	;	:	@	[]	S	р	а	С	е
		A	A / a	ι		<-	->	В	S	0	Κ		

b

А	В	С	D	Е	F	G	Н	Ι	J	Κ	L	Μ
Ν	0	Ρ	Q	R	S	Т	U	V	W	Х	Υ	Ζ
!	"	#	\$	%	&	,	()	_	=	2	
<	>	?	+	*	`	{	}	S	р	а	С	е
	F	A / a	ι		<-	->	В	S	0	Κ		
	A N ! <	A B N O ! " < >	N O P ! " # <	N O P Q	N D P Q R ! " # \$ % <	N O P Q R S ! " # \$ % & <	N O P Q R S T ! " # \$ % & ' <	A B C D E F G H N O P Q R S T U ! " # \$ % & ' (> ? + * ` { }	A B C D E F G H I N O P Q R S T U V ! " # \$ % & ' () <	A B C D E F G H I J N O P Q R S T U V W ! " # \$ % & ' () _ <	A B C D E F G H I J N N O P Q R S T U V W X ! " # \$ % & ' () _ = <	A B C D E P G H I J K L N O P Q R S T U V W X Y ! " # \$ % & ' () _ = ~ <

- A/a*: Changes the characters shown. (a \rightarrow b)
- **Space**: Inputs a blank space that is one character wide.
- ← (left) / → (right): Moves the cursor in the text input area.
- **BS (backspace)****: Deletes characters to the left of the cursor. Move the cursor left.
- aä: When this is displayed, you can select it to change the characters shown to umlaut characters.
- * You can also change them by pressing the [>10] button.
- ** You can press the CLR button to delete all the input characters at once.
- After completing input, use the direction (\/\/</>) buttons to select "OK" and press the ENTER button.

Setup menu



The unit allows you to configure advanced settings to provide you with an even better experience. Set using the following procedure.

- 1. Press the SETUP button.
- 2. Use the direction (</>) buttons to select the setting you want to change and press the ENTER button.
 To cancel the operation, press the SETUP button.
- Use the direction (∧/∨) buttons to select the sub menu you want to change.
- Use the direction (</>) buttons to change setting values.
- 5. After you complete making settings, press the SETUP button to quit the menu.

1. Digital Audio Input

You can change input assignment between the input selectors and DIGITAL IN COAXIAL/OPTICAL jacks. If you do not assign a jack, select "-----". The default setting is as follows:

COAXIAL1	:	BD/DVD
OPTICAL1	:	GAME

 Sampling rates for PCM signals (stereo, mono) from a digital input are 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz/16 bit, 20 bit, and 24 bit.

2. Main Volume

Make the volume setting.

Maximum Volume: Set the maximum volume for the volume control.

Off (default setting) 30 to 79

PowerOn Volume: Set the volume for when the unit is turned on.

Last (default setting): The volume is the same as it was when the unit was last switched to standby. Min to Max

HeadphoneLevel: Set the volume level for when headphones are used.

-12 dB to +12 dB (default setting: 0 dB)

3. Hardware

Speaker Impedance: If any of the connected speakers have 4 Ω or more to less than 6 Ω impedance, or if you have connected a different set of left and right speakers to the SPEAKERS A/B terminals, set the impedance to 4 Ω .

• Reduce the volume to minimum before setting. $\mathbf{6}\Omega$ (default setting)

4Ω

Auto Standby: The unit will automatically enter standby mode if there is no operation for 20 minutes with no audio signal input.

On (default setting) Off

Network Standby: you can turn on the power of the unit via network using an application such as Onkyo Remote.

On

Off (default setting)

- When "Network Standby" is used, the power consumption increases even when the unit is on standby. However, the increase in power consumption is kept to a minimum by automatically entering the HYBRID STANDBY mode, where only the essential circuit is operating.
- If it is not displayed, wait for a moment until the network feature starts.

Opt1 In Wakeup: When an audio signal is input through the OPTICAL terminal while this unit is in standby, this feature automatically detects it.

Off (default setting)

On: This unit is turned on and outputs the audio.

• When a cable is connected to the OPTICAL terminal and this setting is enabled, power consumption increases even when the unit is on standby, however, the increase in power consumption is kept to a minimum by automatically entering the HYBRID STANDBY mode, where only essential circuits are operating.

AM Freq Step: Changes the AM radio frequency step.
 9kHz (default setting): The frequency is adjusted in increments of 9 kHz.

10kHz: The frequency is adjusted in increments of 10 kHz.

4. Source

IntelliVolume: Even when the volume control is the same on this unit, there may be differences in the volume depending on the connected devices. Adjust this when you want to alleviate this difference. To set, select each input source.

-12 dB to +12 dB (default setting: 0 dB)

Name Edit: Enter a simple name of up to 10 characters in length for the input sources or preset AM/FM stations. To set, select each input source or select the preset number of the registered station.

• For information on how to input characters, see "Inputting characters" (⇒ 30).

5. Network

Make the network setting.

- If it is not displayed, wait for a moment until the network feature starts.
- When LAN is configured with a DHCP, set "DHCP" to "Enable" to configure the setting automatically. ("Enable" is set by default) To assign fixed IP addresses to each components, you must set "DHCP" to "Disable" and assign an address to this unit in "IP Address" as well as set information related to your LAN, such as Subnet Mask and Gateway.

MAC Address: View this unit's MAC address.

DHCP: Enable (default setting) Disable

IP Address: View/set the IP address.

Subnet Mask: View/set the subnet mask.

Gateway: View/set the default gateway.

DNS Server: View/set the DNS server address.

Proxy URL: Set the proxy server address.

Proxy Port: Set the proxy port number.This only appears when Proxy URL has been set.

Friendly Name: Change the name for this unit to a simple one for display on the equipment connected by network. Press the ENTER button and input 31 or less characters.

• For information on how to input characters, see "Inputting characters" (⇔ 30).

Network Check: You can check the network connection. Press the ENTER button when "Start" is displayed.

6. Firmware Update

Make the firmware update setting.

• If it is not displayed, wait for a moment until the network feature starts.

Update Notice: Availability of a firmware update will be notified via network.

Enable (default setting) Disable

Version: The current firmware version will be displayed.

Update via NET: Press the ENTER button to select when you want to update the firmware via network.

 You will not be able to select this setting if you do not have Internet access or there is nothing to update.

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

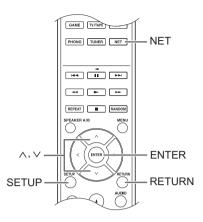
• You will not be able to select this setting if a USB storage device is not connected or there is nothing to update in the USB storage device.

7. Lock

SetupParameter: The Setup menu will be locked to protect the settings.

Locked Unlocked (default setting)

Firmware update



Update the firmware via network or USB connection. Visit the Onkyo website to download the latest firmware. (If no firmware is listed, no firmware update is available.)

Limitation of liability

The program and accompanying online documentation are furnished to you for use at your own risk. Onkyo 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 Onkyo 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

You can update the firmware by connecting the unit to a network.

Precautions when updating the firmware

- Confirm that the unit is on and connected to a network.
- Before starting an update, stop the Internet radio, USB device, server or any other device that is playing audio.
- While updating, never disconnect or turn off this unit.
- While updating, never disconnect and reconnect the Ethernet cable.
- While updating, never disconnect and reconnect the power cord.
- Do not access this unit from a PC while updating.
- · Updating takes about 30 minutes to be completed.
- · Settings you made are retained after updating.

Update procedures

- 1. Press the SETUP button.
- Use the direction (∧/∨) buttons to select "6. Firmware Update" and press the ENTER button.
 - If it is not displayed, wait for a moment until the network feature starts.
- Use the direction (∧/∨) buttons to select "Update via NET" and press the ENTER button.
 - The option does not appear when no firmware update is available.
- 4. Press the ENTER button with "Update" selected to start update.

"Completed!" appears on the display when updating is completed.

- 5. Press the ON/STANDBY button on the front panel to put the unit into standby.
 - Do not use the button on the remote control for this operation.

The update is complete. The unit's firmware has been updated to the latest version.

When an error message appears

When an error occurs, "*_** Error!" appears on the display of this unit. (Characters and numbers appear in place of the asterisks.) Refer to the descriptions below to check the meaning.

Error code

*-01, *-10: The Ethernet cable could not be recognized. Connect the Ethernet cable properly.

-02,-03,*-04,*-05,*-06,*-11,*-13,*-14,*-16,*-17,*-18,

-20,-21: Internet connection could not be established. Check the following points.

- Whether the router is turned on
- Whether this unit and router are connected to 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 and reconnect the power cord, and retry updating.

Updating the firmware via USB connection

You need a 64 MB or larger capacity USB storage for updating.

Precautions when updating the firmware

- Before updating, stop playback and disconnect anything connected to the USB port.
- While updating, never put the unit into standby mode, or disconnect the power cord or the USB storage being used for the update.
- Do not access this unit from a PC while updating.
- Updating takes about 30 minutes to be completed.
- Settings you made are retained after updating.

Update procedures

- 1. Connect a USB storage to the PC that you are using and delete any files on it.
- Download the firmware file to the PC from our website. Decompress the downloaded file on the PC.The number of unzipped files and folders varies depending on the model.
- 3. Copy the decompressed files and folders to the root folder of the USB storage.
 - Do not copy any files other than the decompressed files. Do not copy the compressed file.
- 4. Press the NET button.
- Use the direction (∧/∨) buttons to select "USB" on the display and press the ENTER button.
- Connect the USB storage with the decompressed files to the USB port.
 - Loading the USB storage takes about 20 to 30 seconds.
- 7. Press the SETUP button.
- Use the direction (∧/∨) buttons to select "6. Firmware Update" and press the ENTER button.
 - If it is not displayed, wait for a moment until the network feature starts.
- Use the direction (∧/∨) buttons to select "Update via USB" and press the ENTER button.
 - The option does not appear when no firmware update is available.

10. Press the ENTER button with "Update" selected to start update.

"Completed!" is displayed when the update is complete.

- 11. Disconnect the USB storage from the unit.
- 12. Press the 也 ON/STANDBY button on the front panel to put the unit into standby.
 - Do not use the button on the remote control for this operation.

The update is complete. The unit's firmware has been updated to the latest version.

When an error message appears

When an error occurs, "*-** Error!" appears on the display of this unit. (Characters and numbers appear in place of the asterisks.) Refer to the descriptions below to check the meaning.

Error code

*-01, *-10: USB storage device not found. Check whether the USB storage device or USB cable is correctly inserted to the USB port of the 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 and reconnect the power cord, and retry updating.

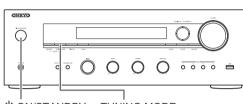
Troubleshooting

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.

Resetting the unit

Resetting the unit to the status at the time of shipment may solve the problem. If the measures mentioned in the troubleshooting do not solve the problem, reset the unit with the following procedure.



ON/STANDBY TUNING MODE

While the unit is on, press and hold the TUNING MODE button and press the () ON/STANDBY button. "Clear" is displayed on the display, the unit enters standby mode, and the unit is reset to the state it was in at the time of purchase.

Cannot turn on the unit.

- Make sure that the power cord is properly plugged into the wall outlet.
- Unplug the power cord from the wall outlet, wait 5 seconds or more, then plug it in again.

The unit turns off unexpectedly.

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

There is no sound, or it is very quiet.

- Make sure the speaker set A or B is on. (⇒ 11)
- Make sure the correct input source is selected.
- If the MUTING indicator is shown on the display, press the MUTING button of the remote control to unmute the receiver.
- The PCM signal can be input only to digital input terminals. Make sure that PCM is selected on the playback component.
- Check the digital audio output setting on the connected component. On some game consoles, such as those that support DVD, the default setting is off.
- Make sure that the polarity of the speaker cables is correct, and that no bare wires are in contact with the metal part of speaker terminals.
- Make sure that the speaker cables are not shorting.

 If your record player uses an MC cartridge, you must connect an audio equalizer and either an MC head amp or an MC transformer.

Noise can be heard.

- Using cable ties to bundle audio cables with power cords, speaker cables, etc. may degrade the audio performance, so refrain from doing it.
- An audio cable may be picking up interference. Try repositioning your cables.

Remote control does not work.

- Make sure that the batteries are installed with the correct polarity.
- If the remote control doesn't work reliably, try replacing the batteries. Don't mix new and old batteries or different types of batteries.
- Do not place obstructions between the main unit and the remote control. The remote control might not work if the remote control signal receiver on the unit is exposed to direct sunlight or bright light. If this occurs, try moving the unit.
- Beware that use of this remote control could cause the unintentional operation of other devices that can be controlled by infrared rays.
- If the unit is installed in a rack or cabinet with colored glass doors or if the doors are closed, the remote control may not work reliably.

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 connecting to Internet from other components is possible. If connecting is not possible, turn off all components connected to the network, wait for a while, and then turn on the components again.
- If a specific radio station is unavailable for listening, make sure the registered URL is correct, or whether the format distributed from the radio station is supported by this unit.

USB storage device is not displayed.

- Check whether the USB storage device or USB cable is correctly inserted to the USB port of the unit.
- Remove the USB storage device from the receiver once, and then try re-connecting.
- USB storage devices with security functions may not be played.

Cannot access the network server.

- This unit needs to be connected to the same router as the network server.
- Make sure your network server has been started up.
- Make sure your network server is properly connected to the home network.
- Make sure your network server is correctly set.
- Make sure that the router LAN side port is properly connected to the receiver.

Playback stops while listening to music files on the network server.

- Make sure the network server is compatible with this unit.
- 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.

WARNING: If smoke, smell or abnormal noise is produced by the unit, unplug the power cord from the wall outlet immediately and contact the dealer or Onkyo Support.

The unit contains a microcomputer for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this should happen, unplug the power cord, wait at least 5 seconds, and then plug it again.

Onkyo is not responsible for damages (such as CD rental fees) due to unsuccessful recordings caused by the unit's malfunction. Before you record important data, make sure that the material will be recorded correctly.

Compatible devices/media/file formats

Compatible devices/media

USB storage device

The unit supports USB storage devices that support the USB Mass Storage Class

- FAT16 and FAT32 formats are supported for USB storage devices.
- If a USB storage device is divided into multiple partitions, this unit will recognize them as separate volumes.
- This unit supports up to 20,000 files and 16 folder levels within a single folder.
- This unit does not support USB hubs or devices with USB hub functions. Never connect such devices to this unit.
- This unit cannot play back audio files if copyright protection is used.
- · If you connect an audio player that supports USB devices to the unit, information on the audio player's screen may differ from information on the unit's display. In addition, the unit does not support management functions provided by the audio player (music file classification, sorting, supplementary information, etc.)
- · Do not connect PCs to this unit's USB ports. Audio from PCs cannot be input through this unit's USB ports.
- This unit might not be able to use media that is loaded into a USB card reader.
- · Depending on the USB storage device, the unit might not be able to read its data correctly or supply power properly.
- During the use of USB storage devices, please be aware that our company will take no responsibility should data be lost or changed, a USB storage device become damaged or other harm occur.
- · We recommend backing up data saved on a USB storage device before using it with this unit.
- · Performance of the hard disk that receives power from the USB port of the unit is not guaranteed.
- · If your AC adapter is supplied with your USB storage device, connect the AC adapter to an AC outlet to use the device.
- When using an audio player powered by a battery, check that its remaining capacity is sufficient.
- This unit does not support USB flash drives with security functions.

Network server

- This unit supports the following network server. Windows Media[®] Player 11
 - Windows Media® Player 12
 - Servers that comply with DLNA
- · This unit supports up to 20,000 files and 16 folder levels within a single folder.
- The Digital Living Network Alliance (DLNA) is a group that is advancing the standardization of reciprocal connections and the exchange of audio, image, video and other data among PCs, game devices and digital household appliances over ordinary home networks (LAN). This unit complies with version 1.5 of the DLNA guidelines.
- Depending on the type of media server, this unit might not recognize it or be able to play audio files saved on it.

File format

This unit can play the following types of audio files over a USB or network connection.

This unit supports gapless playback of a USB storage device in the following conditions When WAV, FLAC and Apple Lossless files are consecutively

played back and they have the same format, sampling frequency, channels and quantization bit rate

- The Play To feature does not support the following: Gapless playback
 - FLAC, Ogg Vorbis, DSD
- · Variable bit-rate (VBR) files are supported. However, playback times may not be displayed correctly.

.mp3, .MP3
MPEG-1/MPEG-2 Audio Layer-3
8 k/11.025 k/12 k/16 k/22.05 k/24 k/32 k/
44.1 k/48 kHz
8 kbps–320 kbps or VBR

WMA

MP3

wma WMA Extension Sampling Frequency 8 k/11.025 k/16 k/22.05 k/32 k/44.1 k/ 48 kHz Bit rate 5 kbps-320 kbps or VBR WMA Pro and Voice are not supported.

WMA Lossless

Extension	.wma, .WMA
Sampling Frequency	44.1 k/48 k/88.2 k/96 kHz
Quantization bit rate	16/24-bit

WAV

Extension	.wav, .WAV
Sampling Frequency	8 k/11.025 k/12 k/16 k/22.05 k/24 k/32 k/
	44.1 k/48 k/64 k/88.2 k/96 k/176.4k/
	192 kHz
Quantization bit rate	8/16/24-bit

· WAV files contain uncompressed PCM digital audio.

For playback from a USB storage device, sampling rates of 176.4 kHz and 192 kHz are not supported.

AAC

Extension	.aac, .m4a, .mp4, .3gp, .3g2, AAC, M4A,
	.MP4, .3GP, .3G2
Standard	MPEG-2/MPEG-4 Audio
Sampling Frequency	8 k/11.025 k/12 k/16 k/22.05 k/24 k/32 k/
	44.1 k/48 k/64 k/88.2 k/96 kHz
Bit rate	8 kbps–320 kbps or VBR

FLAC

Extension	.flac, .FLAC
Sampling Frequency	8 k/11.025 k/12 k/16 k/22.05 k/24 k/32 k/
	44.1 k/48 k/64 k/88.2 k/96 k/176.4 k/
	192 kHz
Overstimetics hit sets	0/40/04 64

8/16/24-bit Quantization bit rate

· For playback from a USB storage device, sampling rates of 176.4 kHz and 192 kHz are not supported.

Oaa Vorbis

	Extension	.ogg, .OGG
	Sampling Frequency	8 k/11.025 k/16 k/22.05 k/32 k/44.1 k/
		48 kHz
	Bit rate	32 kbps–500 kbps or VBR
•	Incompatible files cannot be played back.	

LPCM (Linear PCM)

Sampling Frequency 44.1 k/48 kHz 16-bit

Quantization bit rate Playback only supported over DLNA.

Apple Lossless

Extension	.m4a, .mp4, .M4A, .MP4
Sampling Frequency	8 k/11.025 k/12 k/16 k/22.05 k/24 k/32 k/
	44.1 k/48 k/64 k/88.2 k/96 kHz
Quantization bit rate	16/24-bit

DSD

- Extension
- .dsf. .DSF Sampling Frequency 2.8224 M/5.6448 MHz
- Only sampling rates of 2.8224 MHz is supported for playback from USB

Specifications

Amplifier section

•	
Rated Output Power (IEC):	2 ch $ imes$ 110 W at 6 ohms, 1 kHz, 1 ch Driven of 1 % THD
MAXIMUM Effective Output	
Power (JEITA):	2 ch $ imes$ 115 W at 6 ohms, 1 kHz,
	2 ch Driven of 10 % THD
Dynamic Power (*):	
* IEC60268-Short-term ma	aximum output power
	170 W (3 Ω, Front)
	150 W (4 Ω, Front)
	90 W (8 Ω, Front)
THD+N (Total Harmonic Distor	
	% (20 Hz - 20,000 Hz, half power)
Input Sensitivity and Impedanc	(, , , , , , , , , , , , , , , , , , ,
input Sensitivity and impedance	200 mV/47 kΩ (LINE)
	3.5 mV/47 kΩ (PHONO MM)
Rated RCA Output Level and I	,
•	$7/680 \Omega$ (SUBWOOFER PREOUT)
Phono Overload:	70 mV (MM 1 kHz 0.5 %)
Frequency Response:	10 Hz - 100 kHz/+1 dB, -3 dB
	(DIRECT)
Tone Control Characteristics:	±10 dB, 100 Hz (BASS)
Tone control characteristics.	±10 dB, 10 kHz (TREBLE)
Signal to Noise Ratio:	106 dB (IHF-A, LINE IN, SP OUT)
0) dB (IHF-A, PHONO IN, SP OUT)
	4 0 - 16 0
Speaker Impedance:	
Headphone Output Impedance:	390 Ω 200 mW
Headphone Rated Output:	
	(32 Ω, 1 kHz, 10 % THD)

Tuner section

FM Tuning Frequency Range:	87.5 MHz - 108.0 MHz, RDS
AM Tuning Frequency Range:	522/530 kHz - 1611/1710 kHz
Preset Channel:	40

Network section

Ethernet LAN:

10BASE-T/100BASE-TX

General

Power Supply: Power Consumption:	AC 230 V, 50 Hz 200 W 0.2 W (Standby) 2.0 W (Hybrid Standby) 45 W (No-sound)
Dimensions (W × H × D): Weight:	435 mm × 149 mm × 328 mm 7.9 kg
Audio inputs	
Digital:	OPTICAL (GAME) Maximum Fs: 96 kHz COAXIAL (BD/DVD) Maximum Fs: 96 kHz
Analog:	RCA (BD/DVD, CBL/SAT, PC, GAME, TV/TAPE, CD, PHONO)
Audio outputs	
Analog:	SUBWOOFER PRE OUT LINE OUT L/R
Speaker Outputs:	SPEAKERS A: FRONT L/R SPEAKERS B: FRONT L/R
Phones:	PHONES (ϕ 6.3)
Others USB: RI: Ethernet:	1 (USB1.1, 1.0 A) 1 1

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busybo libmms dnsmas dbus libstdc++ wpa_supplicant

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (ziib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format). (15) Apole Lossless

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