Basic Manual

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For details about the Network Functions and listening modes, and information regarding the advanced settings, refer to the "Advanced Manual" available on our website.
What's in the box

1. Main unit (1)
2. Remote controller (RC-957R) (1), Batteries (AAA/R03) (2)
3. Speaker setup microphone (1)
   • Used during Initial Setup.
4. Indoor FM antenna (1)
5. AM loop antenna (1)
6. Power cord (1)
   • Quick Start Guide (1)
   • Basic Manual (This manual)

• Connect speakers with 4 Ω to 16 Ω impedance.
• The power cord must be connected only after all other cable connections are completed.
• We will not accept responsibility for damage arising from the connection of equipment manufactured by other companies.
• Functionality may be introduced by firmware updates and service providers may cease services, meaning that some network services and content may become unavailable in the future. Furthermore, available services may vary depending on your area of residence.
• Details on the firmware update will be posted on our website and through other means at a later date.
• Specifications and appearance are subject to change without prior notice.
Part Names

Front Panel

1. INPUT SELECTOR dial: Switch the input to be played.
2. MCACC indicator: This lights when you have enabled the speaker calibration made with MCACC.
3. FL OFF indicator: This lights when you have pressed DIMMER repeatedly to turn the display off.
4. DIMMER button: You can switch the display off or adjust the brightness of the display in three steps.
5. TUNING MODE button: Switches tuning to an AM/FM station between automatic tuning and manual tuning.
6. FAVORITE button: Used to register AM/FM radio stations.
7. HOME MENU button: Displays the Home. (*)
8. Display (P4)
9. Cursor buttons (↑ / ↓ / ← / →) and ENTER button: Select the item with the cursors and press ENTER to confirm. Use them to tune to stations when using TUNER (P26).
10. NETWORK indicator: This lights when "NET" is selected with the input selector and the unit is connected to the network. If the unit is in standby mode, this lights when functions such as HDMI CEC and network standby are enabled.
11. WIRELESS indicator: Lights when the unit is connected to the wireless network.
12. Remote control sensor: Receives signals from the remote controller.
   - The signal range of the remote controller is within about 16´/5 m, at an angle of 20° on the perpendicular axis and 30° to either side.
13. RETURN button: Returns the display to the previous state.
14. MASTER VOLUME
15. STANDBY/ON button
16. PHONES jack: Headphones with a standard plug (Ø1/4"/6.3 mm) are connected.
17. MCACC SETUP MIC jack: The supplied speaker setup microphone is connected.
18. Listening mode button: Press "AUTO/DIRECT", "SURROUND" or "STEREO" to switch the listening mode (P28). (*)
19. SOUND RETRIEVER button: Turns on/off the Sound Retriever function that provides better sound quality for compressed audio.
20. PURE DIRECT button: Switches to the Pure Direct mode. (P28)
21. USB port: A USB storage device is connected so that music files stored in it can be played. You can also supply power (5V/500 mA) to USB devices with a USB cable.
22. AUX INPUT jack: Connect a video camera, etc., using a stereo mini plug cable (Ø1/8/3.5 mm).

(*) You can find details in the Advanced Manual.

Display
1. This may light when performing operations with the "NET", "USB" input selector.
2. Lights in the following conditions.
   - 🌐: When connected by BLUETOOTH.
   - 📺: When connected by Wi-Fi.
   - NET: When "NET" is selected with the input selector and the unit is connected to the network. It will flash if the connection to the network is not correct.
   - USB: When "USB" is selected with the input selector and the unit is connected by USB and the USB device is selected. Flashes if the USB is not properly connected.
   - HDMI: When HDMI signals are input and the HDMI input is selected.
   - DIGITAL: When digital signals are input and the digital input is selected.
3. Lights according to the type of input digital audio signals and the listening mode.
4. Lights in the following conditions.
   - TUNED: Receiving AM/FM radio.
   - STEREO: Receiving FM stereo.
   - SLEEP: When the sleep timer is set.
   - AUTO STBY: Auto Standby is on.
5. Lights when headphones are connected.
6. Flashes when muting is on.
7. Displays various information of the input signals.
8. Lights when adjusting the volume.
9. Speaker/Channel display: Displays the output channel that corresponds to the selected listening mode.
Rear Panel

1. DIGITAL AUDIO IN OPTICAL/COAXIAL jacks: Input TV or AV component digital audio signals with a digital optical cable or digital coaxial cable.
2. VIDEO IN jacks: Input the AV component video signals with an analog video cable.
3. NETWORK port: Connect to the network with an Ethernet cable.
4. USB port: A USB storage device is connected so that music files stored in it can be played. You can also supply power (5 V/500 mA) to USB devices with a USB cable.
5. Wireless antenna: Used for Wi-Fi connection or when using a BLUETOOTH enabled device. Adjust their angles according to the connection status.
6. HDMI OUT jacks: Transmit video signals and audio signals with a HDMI cable connected to a TV.
7. HDMI IN jacks: Transmit video signals and audio signals with a HDMI cable connected to an AV component.
8. 12V TRIGGER OUT jack: Allows you to connect a device with 12V trigger input jack to enable link operation between the device and the unit.
9. IR IN port: Allows you to connect a multiroom remote control kit.
10. RS-232C port: For connection to the home control system.
11. AC IN: The supplied power cord is connected.
12. SIGNAL GND terminal: The ground wire of the turntable is connected.
13. AUDIO IN jacks: Input AV component audio signal with an analog audio cable.
14. ANTENNA AM LOOP/FM UNBAL 75Ω terminal: The supplied antennas are connected.
15. SUBWOOFER PRE OUT jack: Connect a powered subwoofer with a subwoofer cable. Up to two powered subwoofers can be connected. The same signal is output from each of the SUBWOOFER PRE OUT jacks.
16. SPEAKERS terminals: Connect speakers with speaker cables. (North American models are compatible with banana plugs.)
Remote Controller

1. STANDBY/ON button
2. Input selector buttons: Switches the input to be played.
3.  button: Select the input to be played.
4.  (AV ADJUST) button: Press during play to display the AV Adjust on the TV and display to adjust sound quality, etc. Note that there is no display on the TV screen when the input selector is “CD”, “TV”, “PHONO”, “AM”, or “FM”, so follow the display on the main unit while doing the operations. (*)
5. Cursor buttons and ENTER button: Select the item with the cursors and press ENTER to confirm your selection. When the folder or file lists are not shown on one screen on the TV, press / to change the screen.
6.  button: Displays the Home. (*)
7. Volume buttons
8.  button: Temporarily mutes audio. Press again to cancel muting.
9. LISTENING MODE buttons: Allows you to select the listening mode (P28). (*)
10. Play button: Used for play operations when playing Music Server or USB.
11.  button: Used for repeat or random play operations when playing Music Server or USB. Each time you press the button, the mode switches from  (1-track repeat), to  (folder repeat), to  (random).
   CLEAR button: Deletes all characters you have entered when entering text on the TV screen.
12.  (STATUS) button: Switches the information on the display.
13.  button: Returns the display to the previous state.
14. MODE button: Switches tuning to an AM/FM station between automatic tuning and manual tuning.
15. +Fav button: Used to register AM/FM radio stations.
   • MAIN, ZONE 2, ZONE 3 and ZONE are not used.

(*)You can find details in the Advanced Manual.
Installation procedure

This unit can be used in a number of ways, depending on the layout of the speakers you are installing, and the connections made to external devices. Read the following to help make the installation process smoother.

**Step1: Speaker Layout**

Select the speaker layout that suits the types of speakers you have and the conditions they will be used in from the choices presented on pages P8 to P12, then install the speakers by referring to the illustrations and explanations on the relevant page. Speaker layouts include systems that use surround back speakers, systems that use height speakers, and systems that use bi-amp speakers. Also refer to the combinations available in "Speaker combinations" on P13.

**Step2: Connect the Speakers**

To connect the speaker systems to this unit, refer to P14 if you are using a speaker layout described on one of P8 to P11, and to P15 to use a speaker layout using bi-amp speakers described on P12. The connection process will be smoother if you refer to the illustrations and explanations and prepare the required cables before hand.

**Step3: Connect the TV & AV Components**

Refer to P16 to P20 to connect your external devices such as your TV, Blu-Ray Disc Player, and also supplied accessories such as the antennas. The connection process will be smoother if you refer to the illustrations and explanations, confirm the connection types on the external devices, and prepare the required cables before hand.
Step 1: Speaker Layout

**7.1 Channel System**

Front speakers output front stereo sound and a center speaker outputs center sound such as dialogs and vocals. Surround speakers create back sound field. Powered subwoofer reproduces bass sounds and creates rich sound field.

This basic 5.1 Channel System with surround back speakers added is called a 7.1 Channel System. The connection of surround back speakers improves the sense of envelopment and connectivity of sound created by the back sound field and provides a more real sound field. Furthermore, by installing surround back speakers, you can select the Dolby Atmos listening mode, which realizes the most up-to-date 3D sound, when the input format is Dolby Atmos.

The front speakers should be positioned at ear height, while the surround speakers should be positioned just above ear height. Center speaker should be set up facing the listening position. Placing the powered subwoofer between the center speaker and a front speaker gives you a natural sound even when playing music. The optimal positioning is for surround back speakers to be at ear height.

- If you are including surround back speakers in the setup, surround speakers are required.

1,2 Front Speakers
3 Center Speaker
4,5 Surround Speakers
6 Powered Subwoofer
7,8 Surround Back Speakers
5.1.2 Channel System-1
(Front High Speakers/Rear High Speakers)

This is a basic 5.1 channel system consisting of front speakers, a center speaker, surround speakers, and a powered subwoofer, with the addition of front height speakers or rear high speakers, which are both types of height speakers. By installing height speakers, you can select the Dolby Atmos listening mode, which realizes the most up-to-date 3D sound including overhead sounds, when the input format is Dolby Atmos.

Front high speakers or rear high speakers should be situated at least 3’/0.9 m higher than the front speakers. Front high speakers should be situated directly above the front speakers and the distance between the rear high speakers should match the distance between the front speakers. Both should be set up facing the listening position.

7,8 Height Speakers
Choose one of the following:
- Front High Speakers
- Rear High Speakers
5.1.2 Channel System-2
(Ceiling Speakers)

This is a basic 5.1 channel system consisting of front speakers, a center speaker, surround speakers, and a powered subwoofer, with the addition of top front speakers, top middle speakers, or top rear speakers, which are types of height speakers. By installing height speakers, you can select the Dolby Atmos listening mode, which realizes the most up-to-date 3D sound including overhead sounds, when the input format is Dolby Atmos.

Fit top front speakers on the ceiling forward of the seating position, top middle speakers on the ceiling directly above the seating position, and top rear speakers on the ceiling behind the seating position. The distance between each pair should match the distance between the two front speakers.

- Dolby Laboratories recommends placing this type of height speakers to obtain the best Dolby Atmos effect.

7.8 Height Speakers
Choose one of the following:
- Top Front Speakers
- Top Middle Speakers
- Top Rear Speakers

(*1: 30° to 55°, *2: 65° to 100°, *3: 125° to 150°)
5.1.2 Channel System-3
(Dolby Enabled Speakers (Dolby Speakers))

This is a basic 5.1 channel system consisting of front speakers, a center speaker, surround speakers, and a powered subwoofer, with the addition of Dolby enabled speakers (front) or Dolby enabled speakers (surround), which are both types of height speakers. Dolby enabled speakers are special speakers designed to face the ceiling so that sound is heard after bouncing off the ceiling so that sound appears to be coming from overhead. By installing height speakers, you can select the Dolby Atmos listening mode, which realizes the most up-to-date 3D sound including overhead sounds, when the input format is Dolby Atmos. Place them either above the front speakers or above the surround speakers.

7,8 Height Speakers
Choose one of the following:
- Dolby Enabled Speakers (Front)
- Dolby Enabled Speakers (Surround)
Bi-Amping the Speakers

It is possible to connect front speakers supporting bi-amping to improve quality of the bass and treble. The maximum number of channels available with this connection is 5.1 because Bi-Amping speakers require one amplifier for the tweeter jacks and one amplifier for the woofer jacks. Other than front speakers, you can also connect a center speaker, surround speakers, and a powered subwoofer.

1,2 Front Speakers (Bi-Amping)
3 Center Speaker
4,5 Surround Speakers
6 Powered Subwoofer

*1: 22° to 30°, *2: 120°
**Speaker combinations**

- In any of the combinations, up to two powered subwoofers can be connected.

<table>
<thead>
<tr>
<th>Speaker Channels</th>
<th>FRONT</th>
<th>CENTER</th>
<th>SURROUND BACK</th>
<th>HEIGHT</th>
<th>Bi-Amp</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1 ch</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.1 ch</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
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<tr>
<td>4.1 ch</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>5.1 ch</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>6.1 ch</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
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<td>✓</td>
</tr>
<tr>
<td>2.1.2 ch</td>
<td>✓</td>
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<td></td>
<td></td>
<td>✓</td>
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<tr>
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<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
Step 2: Connect the Speakers

Standard Connections (Pages 8 to 11)

Make correct connection between the unit's jacks and speaker's jacks (+ to + and – to –) for each channel. If connection is wrong, reverse phase may make bass output poor. Up to two powered subwoofers can be connected. The same signal is output from each of the SUBWOOFER PRE OUT jacks.

Setup

- Settings for the speaker configuration you have connected need to be made in "1. Full Auto MCACC" in Initial Setup (P21).
- If any of the connected speakers have an impedance of 4 Ω or more to less than 6 Ω, after completing Initial Setup, you need to make some settings in the System Setup menu. Press  on the remote controller, and in the Home displayed set "System Setup" - "Speaker" - "Configuration" - "Speaker Impedance" to "4ohms".

Make sure the exposed wires of the speakers do not stick out of the speaker terminals when connecting. If the exposed wires of the speakers touch the rear panel or the + and – wires touch each other, the protection circuit will be activated.
Connecting with Bi-Amping Speakers (Page 12)

- Refer to "Standard Connections (Pages 8 to 11)" (P14) to connect the center speaker, surround speakers, and powered subwoofer.
- Make sure you remove the jumper bar fitted between the woofer jacks and tweeter jacks of the front speakers. Make correct connection between the unit's jacks and speaker's jacks (+ to + and – to –) for each channel. If connection is wrong, reverse phase may make bass output poor. Also refer to the instruction manual for your speakers when using connections for bi-amping.

Setup

- Settings for the speaker configuration you have connected need to be made in "1. Full Auto MCACC" in Initial Setup (P21).
- If any of the connected speakers have an impedance of 4 Ω or more to less than 6 Ω, after completing Initial Setup, you need to make some settings in the System Setup menu. Press on the remote controller, and in the Home displayed set "System Setup" - "Speaker" - "Configuration" - "Speaker Impedance" to "4ohms".

Make sure the exposed wires of the speakers do not stick out of the speaker terminals when connecting. If the exposed wires of the speakers touch the rear panel or the + and – wires touch each other, the protection circuit will be activated.
Step 3: Connect the TV & AV Components

1. Connect the TV

To ARC TV

For a TV that supports the ARC (Audio Return Channel) (*) feature, use an HDMI cable and connect according to illustration "a". Choose an HDMI IN jack on the TV that supports ARC when connecting.

Setup

- Settings are required to use the ARC function. Select "Yes" in "4. Audio Return Channel" (P22) in the Initial Setup.
- Please refer to the TV’s operation manual for directions on connections and setup for the TV.

To Non-ARC TV

For a TV that does not support the ARC (Audio Return Channel) feature (*), connect both the HDMI cable in illustration "a" and the digital optical cable in "b".

- Connection with a digital optical cable is not necessary if you will watch TV through a device such as a cable set-top box (that is, not use a tuner built into the TV) that you have connected to the input jack on this unit.

(*) The ARC feature:

This feature transfers TV audio signals via HDMI cable so that you can play the audio from the TV through this unit. Connection to an ARC compatible TV is complete with one HDMI cable. Refer to the instruction manual for your TV to see if it supports ARC.

a HDMI cable, b Digital optical cable
2. Connect the HDMI AV Component

This is an example of connection with an AV component that has an HDMI jack. With connection to an AV component that conforms with the CEC (Consumer Electronics Control) standard, you can use features such as the HDMI CEC feature (*) that links with the input selector, and the HDMI Standby Through feature which allows you to play video and audio from AV components on the TV even when this unit is in standby mode.

- To play 4K or 1080p video, use a high speed HDMI cable.

Setup
- To use the HDMI CEC feature and HDMI Standby Through feature, settings are required in the System Setup menu after Initial Setup is complete. Press on the remote controller, and from Home go to "System Setup" - "Hardware" - "HDMI" and set "HDMI CEC" to "On" to enable HDMI CEC, and the HDMI Standby Through setting becomes "Auto (Eco)". Note that "HDMI CEC" is set to "On" automatically if you have selected "Yes" in "4. Audio Return Channel" (P22) in the Initial Setup.
- To enjoy digital surround sound including Dolby Digital, audio output should be set to "Bitstream output" on the connected Blu-ray Disc player or other device.

(*) The HDMI CEC feature:
You can control features such as linking input switching with the input selector and players conforming to the CEC standard, switching audio to output it from the TV or from this unit, and adjusting the volume using the remote controller of a CEC-compliant TV, and automatically switching this unit to standby when the TV is turned off.
3. Connect the Non-HDMI AV Component

This is an example of connection with an AV component that does not have an HDMI jack. Make the connections to the AV component to match the jacks it has. When video input connection is to the CBL/SAT jack, the audio input connection should also be to the CBL/SAT jacks, and so on, so that you connect the video input jacks to the jacks with the same name as the audio input jacks. Note that video signals input to the VIDEO IN jack will be converted to HDMI video signals and then output from the HDMI OUT jack.

- To enjoy digital surround playback in formats such as Dolby Digital, you need to make a connection for audio signals with a digital coaxial cable or a digital optical cable.
- It is possible to change assignment of the input jacks you see in the illustration at left, so you can also connect to any jack other than CBL/SAT. For details, see the Advanced Manual.

Setup

- To enjoy digital surround sound including Dolby Digital, audio output should be set to "Bitstream output" on the connected Cable/Satellite set-top box or other device.
4. Connect the Audio Component

Example of a connection with an audio component. Connect a CD player using a digital coaxial cable. You can also connect a turntable that has an MM-type cartridge to the PHONO jack.

- If the turntable has a built-in audio equalizer, connect it to another AUDIO IN jack. Further, if the turntable uses an MC type cartridge, install an audio equalizer compatible with the MC type cartridge between the unit and the turntable, then connect to any AUDIO IN jack other than the PHONO jack.

If the turntable has a ground wire, connect it to the SIGNAL GND terminal of this unit.

a Analog audio cable, b Digital coaxial cable
5. Connect Other Cables

Antenna Hookup

Move the antenna around while playing the radio to find the position with the best reception. Use a thumb tack or similar to attach the indoor FM antenna to a wall.

Network Hookup

Connect this unit to the network using wired LAN or Wi-Fi (wireless LAN). You can enjoy network features such as internet radio by connecting the unit to the network. If you connect by wired LAN, connect with an Ethernet cable to the NETWORK port as shown in the illustration. To connect by Wi-Fi, then after selecting “Wireless” in “3. Network Connection” (P22) in Initial Setup, select the desired setting method and follow the onscreen instructions to configure the connection.

Power Cord Hookup

This unit includes removable power cords. Connect the power cord to the power outlet after completing all other connections. Connect the power cord to AC IN of the unit and then connect to the outlet. Always disconnect the outlet side first when disconnecting the power cord.
Initial Setup with Auto Start-up Wizard

1. Switch the input on the TV to that assigned to the unit.
2. Put batteries into the remote controller of this unit.
3. Press Í on the remote controller to turn the unit on.
4. Select the item with the cursors of the remote controller and press ENTER (a) to confirm your selection. To return to the previous screen, press  (b).

If you terminate the procedure on the way or want to change a setting made during Initial Setup, press  on the remote controller, and from the Home select "System Setup" - "Miscellaneous" - "Initial Setup", and press ENTER.

1. Full Auto MCACC

Place the supplied speaker setup microphone in the listening position, measure the test tones emitted by the speakers, then the unit automatically sets the optimum volume level for each speaker, the crossover frequencies, and the distance from the listening position. This also automatically adjusts the equalizers for the speakers and enables correction of distortion caused by the acoustic environment of the room.
Calibration takes between 3 and 12 minutes to be completed. The speakers emit the test tone at high volume during measurement, so be careful of your surroundings. Keep the room as quiet as possible during measurement.

- If you have connected a subwoofer, check the power and volume of the subwoofer. Set the subwoofer volume to more than halfway.
- If the power of this unit suddenly turns off, the wires in the speaker cables may have touched the rear panel or other wires and tripped the protection circuit. Twist the wires again properly and make sure they do not stick out of the speaker terminals when connecting.

1. Place the supplied speaker setup microphone in the listening position, and connect to the MCACC SETUP MIC jack on the main unit.

The image on the screen changes as you choose the number of channels in "Speaker Channels", so refer to it when performing the settings.

3. Test tones are emitted by the speakers, and firstly the unit detects the speakers connected and the noise in the environment.

4. After the results of the above measurements are displayed, select "Next", press ENTER on the remote controller, and the test tones are emitted again, and the unit automatically makes settings such as the optimum volume level and the crossover frequency.

5. When the measurement is completed, the measurement result is displayed. Press the cursors on the remote controller to check the settings. Press ENTER when "Save" is selected to save the settings.

6. Disconnect the speaker setup microphone.

**2. Source Connection**

Check that each input source is connected correctly. Follow the guidance, select the input you want to confirm, start play of the selected player, and confirm that the images appear on the TV and that sound is played.

**3. Network Connection**

Set up Wi-Fi connection with an access point such as a wireless LAN router. There are the following two methods of connecting by Wi-Fi:

- "Scan Networks": Search for an access point from this unit. Find out the SSID of the access point beforehand.
- "Use iOS Device (iOS7 or later)": Share the iOS device’s Wi-Fi settings with this unit.

If you select "Scan Networks", there are a further two choices of connection method. Check the following.

- "Enter Password": Enter the password (or key) of the access point to connect.
- "Push Button": If the access point has an automatic connection button, you can connect without entering a password.

If the SSID of the access point is not displayed, then in the screen listing the SSIDs, select "Other..." with the cursors on the remote controller and press ENTER, then follow the onscreen instructions.

**Keyboard Input**

To switch between upper and lower case, select "A/a" on the screen and press ENTER. To select whether to mask the password with "*" or display it in plain text, press +Fav on the remote controller. Press CLEAR to delete all the input characters.

A confirmation screen asking you to agree to the privacy policy is displayed during network setting. Select "Accept" and press ENTER to indicate agreement.

**4. Audio Return Channel**

If you have connected a TV that supports ARC, select "Yes". This unit’s ARC setting turns on and you can listen to the TV’s audio through this unit.
AV Component Playback

**Basic Operations**
You can play the audio from AV components such as Blu-ray Disc players through this unit.

Perform the following procedure when the unit is on.
1. Switch the input on the TV to that assigned to the unit.
2. Press the input selector (a) on the remote controller with the same name as the jack to which you connected the player to switch the input. For example, press BD/DVD to play the player connected to the BD/DVD jack. Press TV to listen the TV's sound. To play a device connected to the STRM BOX, PHONO jack or the AUX INPUT jack on the front panel, press (b) repeatedly to select the input.
   - When the CEC link function works, the input switches automatically when you have connected a CEC compliant TV and player to this unit using HDMI connection.
3. Start play on the AV component.

BLUETOOTH® Playback

**Pairing**
1. When you press the button, "Now Pairing..." is displayed on this unit's display, and the pairing mode is enabled.
   - This unit is displayed as "Pioneer VSX-LX102 XXXXXX".
   - To connect another BLUETOOTH enabled device, press and hold until "Now Pairing..." is displayed, then perform step 2. This unit can store the data of up to 8 paired devices.
   - The coverage area is 48’/15 m. Note that connection is not always guaranteed with all BLUETOOTH enabled devices.
2. Enable (turn on) the BLUETOOTH function of the BLUETOOTH enabled device, then select this unit from amongst the devices displayed. If a password is requested, enter "0000".
   - This unit is displayed as "Pioneer VSX-LX102 XXXXXX".
   - To connect another BLUETOOTH enabled device, press and hold until "Now Pairing..." is displayed, then perform step 2. This unit can store the data of up to 8 paired devices.

**Playing Back**
1. Perform the connection procedure on the BLUETOOTH enabled device. The input on this unit automatically switches to "BLUETOOTH".
2. Play music. Increase the volume of the BLUETOOTH enabled device to an appropriate level. 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.
Network Functions

Basic Operations

By connecting this unit to the network you can enjoy internet radio services such as Tunein, streaming from Spotify Connect, and wireless playback using AirPlay® features. Furthermore, you can use the Music Server feature to stream music files stored on PCs or NAS devices that support the home network feature. The basic operations for Network Functions are introduced in the Basic Manual. For more advanced operations, see the Advanced Manual. There may also be additional network functions provided through firmware updates for this unit. Also see the Advanced Manual for information about new features.

0 The network needs to be connected to the internet in order to play internet radio services.
0 Depending on the internet radio service, the user may need to register from their computer first.
0 To enable Spotify Connect, install the Spotify application on your smartphone or tablet and create a Spotify premium account.
0 Refer to the following for Spotify settings: www.spotify.com/connect/
0 The network servers compatible with the Music Server feature are those PCs with players installed that have the server functionality of Windows Media® Player 11 or 12, or NAS that are compatible with home network functionality. Note that with PCs, only music files registered in the library of Windows Media® Player can be played.
0 You may need to make some settings on the PC in advance to use Windows Media® Player 11 or 12 with the Music Server feature.

Perform the following procedure when the unit is on.

1. Switch the input on the TV to that assigned to the unit.
2. Press NET (a) on the remote controller to display a list of Network Functions on the TV.
3. Select the Network Function with the cursors of the remote controller and press ENTER (b) to confirm your selection. With internet radio services, follow the on-screen instructions, using the cursors to select radio stations and programs, then press ENTER to play. With Spotify or AirPlay, select this unit with your smartphone to play. With Music Server, select the server with the cursors, then select the desired music file and press ENTER to play.

To return to the previous screen, press ç (c).
USB Storage Device

Basic Operations
You can play music files stored on a USB storage device.

Perform the following procedure when the unit is on.
1. Switch the input on the TV to that assigned to the unit.
2. Plug your USB storage device with the music files into the USB port either on the front panel or rear panel of this unit.
3. Press USB (b) on the remote controller and select “USB FRONT” or “USB REAR”.
   - If the “USB” indicator flashes on the display, check whether the USB storage device is plugged in properly.
   - Do not unplug the USB storage device while “Connecting···” is appeared on the display. This may cause data corruption or malfunction.
4. Press ENTER on the remote controller in the next screen. The list of folders and music files on the USB storage device are displayed. Select the folder with the cursors and press ENTER to confirm your selection. (a)
5. With the cursors on the remote controller, select the music file, and then press ENTER to start playback.
   - To return to the previous screen, press (c).
   - The USB port of this unit conforms with the USB 2.0 standard. The transfer speed may be insufficient for some content you play, which may cause some interruption in sound.
   - Operation cannot be guaranteed for all USB storage devices.
   - This unit can use USB storage devices that comply with the USB mass storage device class standard. The unit is also compatible with USB storage devices using the FAT16 or FAT32 file system formats.
Listening To the AM/FM Radio

You can receive AM and FM radio stations on this unit with the built-in tuner. Perform the following procedure when the unit is on.

- **Tuning into a Radio Station**
  - **Tuning Automatically**
    1. Press TUNER (a) on the remote controller repeatedly to select either "AM" or "FM" on the display.
    2. Press MODE (e) on the remote controller or TUNING MODE on the main unit, so that the "TunMode: Auto" is displayed on the display.
    3. When you press the cursors y / z (b) on the remote controller, automatic tuning starts, and searching stops when a station is found. When tuned into a radio station, the "TUNED" indicator lights. When tuned into an FM radio station, the "STEREO" indicator lights.
  - **When FM broadcasts reception is poor:** Perform the procedure for "Tuning Manually" in the following section. Note that if you tune manually, the reception for FM broadcasts will be monaural rather than stereo, irrespective of the sensitivity of the reception.

- **Tuning Manually**
  1. Press TUNER (a) on the remote controller repeatedly to select either "AM" or "FM" on the display.
  2. Press MODE (e) on the remote controller or TUNING MODE on the main unit, so that the "TunMode: Manual" is displayed on the display.
  3. While pressing the cursors y / z (b) on the remote controller, select the desired radio station.

  - **Frequency step setting:**
    - Press * on the remote controller, and from Home displayed select "System Setup" - "Miscellaneous" - "Tuner" - "AM/ FM Frequency Step", and select the frequency step for your region. For Taiwanese models, the setting is "10 kHz / 0.2 MHz" at the time of purchase. Please change it to "9 kHz / 0.05 MHz". Note that when this setting is changed, all radio presets are deleted.
Presetting a Radio Station
You can preset up to 40 stations.

Registration Procedure
1. Tune into the AM/FM radio station you want to register.
2. Press +Fav (d) on the remote controller or +FAVORITE on the main unit so that the preset number on the display flashes.
3. While the preset number is flashing (about 8 seconds), repeatedly press the cursors ◀/▶ (b) on the remote controller to select a number between 1 and 40.
4. Press +Fav again on the remote controller or +FAVORITE on the main unit to register the station. When registered, the preset number stops flashing. Repeat this procedure for all of your favorite AM/FM radio stations.

Selecting a Preset Radio Station
1. Press TUNER (a) on the remote controller.
2. Press cursors ◀/▶ (b) on the remote controller to select a preset number.

Deleting a Preset Radio Station
1. Press TUNER (a) on the remote controller.
2. Press cursors ◀/▶ (b) on the remote controller to select the preset number to delete.
3. After pressing +Fav (d) on the remote controller or +FAVORITE on the main unit, press CLEAR (c) while the preset number is flashing to delete the preset number. When deleted, the number on the display goes off.
Listening Mode

This unit is equipped with a variety of listening modes. The basic operations are introduced in the Basic Manual. For more details, see the Advanced Manual.

- The listening mode last selected for the source is remembered for each of the AUTO/DIRECT, SURR, and STEREO buttons. If content you play is not supported by the listening mode you selected last, the listening mode that is standard for that content is selected automatically.

AUTO/DIRECT button (a)
Press repeatedly and the listening modes suited to the input signal are switched between "Auto Surround", "Direct", and "Pure Direct". After selecting one of them, "Auto Surround" (or "Direct" or "Pure Direct") is displayed on the display of the main unit, then the listening mode selected automatically (Dolby Digital for multi-channel input signals, Stereo for 2 channel input signals, etc.) is displayed. The "Direct" mode shuts down some processing that can affect sound quality, such as the tone control features, so you can enjoy even better sound quality. The "Pure Direct" mode shuts down even more processes that affect sound quality, so you get a more faithful reproduction of the original sound. In this case, the speaker calibration made with MCACC is disabled.

- Depending on the input signal and speaker configuration, the Dolby Surround and DTS Neural:X modes that expand 2 channel and 5.1 channel input signals to 5.1 or 7.1 channels may be automatically selected.

SURR button (c)
You can select a variety of listening modes to suit your taste. There are the Dolby Digital, DTS-HD Master Audio, and Stereo modes that you can choose to suit the input signal, or the Dolby Surround and DTS Neural:X modes that can expand 2 channel and 5.1 channel input signals to 5.1 or 7.1 channels. You can also enjoy original surround modes such as Ext.Stereo and Drama modes.

STEREO button (d)
You can select the “Stereo” mode to playback only from the front speakers and subwoofer.

Checking the Input Format and Listening Mode
Press \( \text{(b)} \) on the remote controller several times to switch the display of the main unit as follows.

<table>
<thead>
<tr>
<th>Input source &amp; volume</th>
<th>BD/DVD</th>
<th>-42.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listening mode</td>
<td>Dolby D</td>
<td></td>
</tr>
<tr>
<td>Signal format</td>
<td>Dolby D</td>
<td>5.1</td>
</tr>
<tr>
<td>The display changes few seconds later.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sampling frequency</td>
<td>fs: 48kHz</td>
<td></td>
</tr>
<tr>
<td>Input signal resolution</td>
<td>1080p/60 16:9</td>
<td></td>
</tr>
</tbody>
</table>
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![Dolby Atmos and Dolby Vision Compatible](image)

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