LG
Life's Good

ENGLISH

OWNER'S MANUAL

HIGH PERFORMANCE 3D A/V RECEIVER SYSTEM

Please read this manual carefully before operating your set and retain it for future reference.

ARX8500 (ARX8500, S72P2-F/S/C/W)

MFL67787048

NA7520P-FU_DVNMLLX_ENG.indd 1 2013-08-19 4:30:55

Safety information



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.



This 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 product.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: Do not install this equipment in a confined space such as a book case or similar unit.

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

CAUTION: Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating. The openings shall be never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction has been adhered to.

CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;

That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized service center. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance. To disconnect power from the mains, pull out the mains cord plug. hen installing the product, ensure that the plug is easily accessible.

This device is equipped with a portable battery or accumulator.

Safety way to remove the battery or the battery from the equipment: Remove the old battery or battery pack, follow the steps in reverse order than the assembly. To prevent contamination of the environment and bring on possible threat to human and animal health, the old battery or the battery put it in the appropriate container at designated collection points. Do not dispose of batteries or battery together with other waste. It is recommended that you use local, free reimbursement systems batteries and accumulators. The battery shall not be exposed to excessive heat such as sunshine, fire or the like.

Copyrights

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission. This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs picture noise will appear. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p UNIT, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

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Unique features

Full HD up-scaling

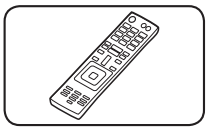
Views Full HD picture quality with simple setup.

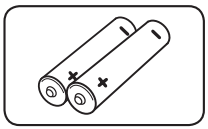
3D pass through

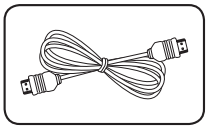
Enjoys 3D contents such as 3D movie, game, etc.

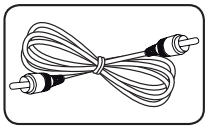
Accessories

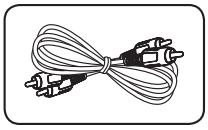
Please check and identify the supplied accessories.

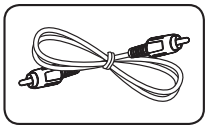

Remote control (1)

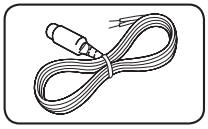

Batteries (2)

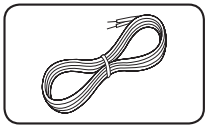

HDMI cable (1)


Coaxial cable (1)


Analog audio cable (1)


Composite video cable (1)


FM antenna (1)


Speaker cables (5)

Introduction

Symbols Used in this Manual

Note

Indicates special notes and operating features.

Caution

Indicates cautions for preventing possible damages from abuse.

About the "⊘" Symbol Display

"⊘" may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that specific media.

A section whose title has one of the following symbols is applicable only to the disc represented by the symbol.

MOVIE	Movie files contained in the USB
MUSIC	Music files contained in the USB
PHOTO	Photo files contained in the USB

Required cables

The hookup diagrams on the subsequent pages assume the use of the following connection cables.

You must purchase the connection cables separately if necessary.

- Analog audio cable

White (L)
Red (R)



- Composite video cable

Yellow



- Analog audio/Composite video cable

Yellow (Video)
White (L/audio)
Red (R/audio)



- Optical digital audio cable



- Coaxial digital audio cable



- USB cable



- HDMI cable



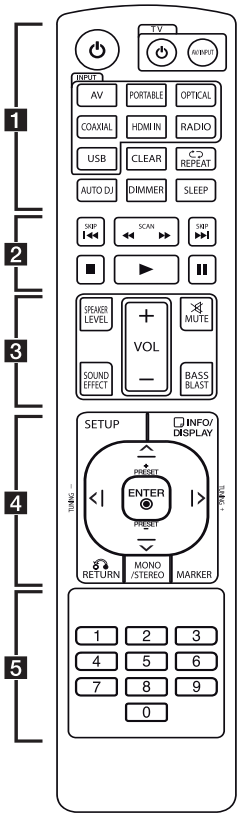
- Portable cable (ϕ 3.5 mm Stereo plug)



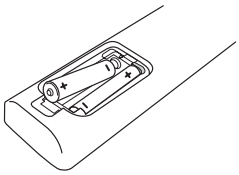
Note

- Turn off the power to all components before making any connections.
- When connecting an audio/video cable, be sure to match the color-coded pins to the appropriate jacks on the components: yellow (video) to yellow; white (left, audio) to white; and red (right, audio) to red.
- When connecting optical digital cables, insert the cable plugs straight in until they click into place.
- Do not bend or tie optical digital audio cables.

Remote control



Battery Installation



Remove the battery cover on the rear of the Remote Control, and insert two (size AAA) batteries with ⊕ and ⊖ matched correctly.

1

⏻ **:** Switches the unit ON or OFF.

TV control buttons **:** Controls the TV. (LG TV only)

- ⏻ **:** Turns the TV on or off.
- **AV/INPUT :** Switches the TV's input source between the TV and other input sources.

INPUT buttons **:** Selects the input source you want to use. (page 23)

- **AV :** Selects the input source connected to AV IN 1/2 jack.
- **PORTABLE :** Selects the input source connected to PORT. IN jack.
- **OPTICAL :** Selects the input source connected to OPTICAL IN 1/2 jack.
- **COAXIAL :** Selects the input source connected to COAXIAL IN 1/2 jack.
- **HDMI IN :** Selects the input source connected to HDMI IN 1/2 jack.
- **RADIO :** Selects the FM tuner.
- **USB :** Selects the input source connected to USB port.

CLEAR : Deletes preset stations. (page 26)

REPEAT : Selects a play mode. (Repeat playback/ Random playback) (page 30)

AUTO DJ : Selects the AUTO DJ mode. (page 30)

DIMMER : The display window is darkened by half and the lighting is turned off. (page 33)

SLEEP : Sets the system to turn off automatically at a specified time. (page 33)

2

I◀◀/▶▶I (SKIP) : Goes to the next or previous chapter / track / file.

◀◀/▶▶ (SCAN) : Searches backward or forward.

■ (Stop) **:** Stops playback.

▶(Play) **:** Starts playback.

II (Pause) **:** Pauses playback.

3

SPEAKER LEVEL : Sets the sound level of desired speaker. (page 24)

SOUND EFFECT : Selects a sound effect mode. (page 25)

VOL (-/+) : Adjusts speaker volume.

MUTE (🔇) : Turns off the sound temporarily. Press the button again to restore the sound.

BASS BLAST : Selects the BASS BLAST sound mode directly. (page 25)

4

SETUP : Displays or exits the [SETUP] menu.

RETURN (↩) : Moves backwards in the menu or exits the setup menu.

INFO/DISPLAY (▢) : Displays or exits On-screen Display. (Page 30, 31, 32)

ENTER (◉) : Acknowledges menu selection.

MARKER : Marks music files on the [MUSIC] menu. (page 29)

PRESET (-/+) : Selects a preset stations.

TUNING (-/+) : Tunes in the desired radio station.

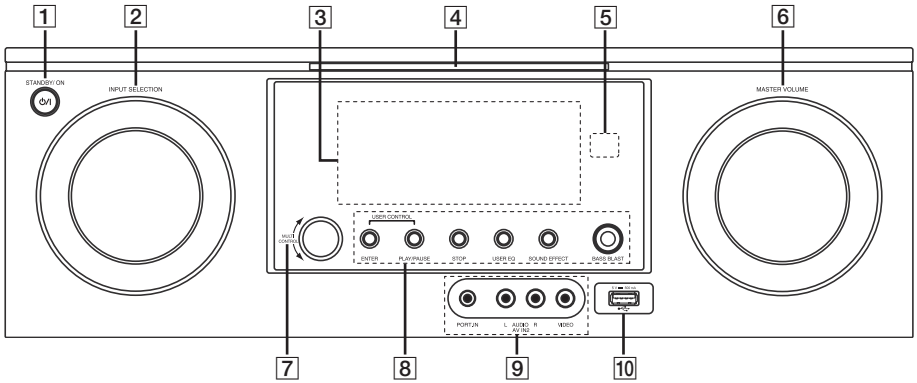
∧/∨/</> (up/ down/ left/ right)**:** Selects an option in the menu.

MONO/STEREO : Selects mono/stereo in FM mode. (page 26)

5

0 to 9 numerical buttons : Selects numbered options in a menu.

Front panel



1 STANDBY/ON (⏻/I)
Switches the unit ON or OFF.

2 INPUT SELECTION
Selects the input source.

3 Display window
Shows the current status of the unit.

4 Lighting
The lighting turns on when the unit is switched on.

5 Remote sensor

6 MASTER VOLUME
Adjusts the speaker volume.
Turn **MASTER VOLUME** clockwise or counterclockwise.

7 MULTI CONTROL
Adjusts the various options.

8 USER CONTROL
Sets up USER EQ by using **ENTER** and **PLAY/PAUSE**.

ENTER
Acknowledges menu selection.
Switches among sound modes.

PLAY/PAUSE
Starts playback.
Pauses playback, press it again to exit pauses status.
Moves to the BASS mode if you press **PLAY/PAUSE** on the front panel while the "USER EQ" is displayed in the display window.

STOP
Stops playback.

USER EQ
Sets the USER EQ mode (BASS, MIDDLE and TREBLE). (page 24)

SOUND EFFECT
Selects a sound effect mode. (page 25)

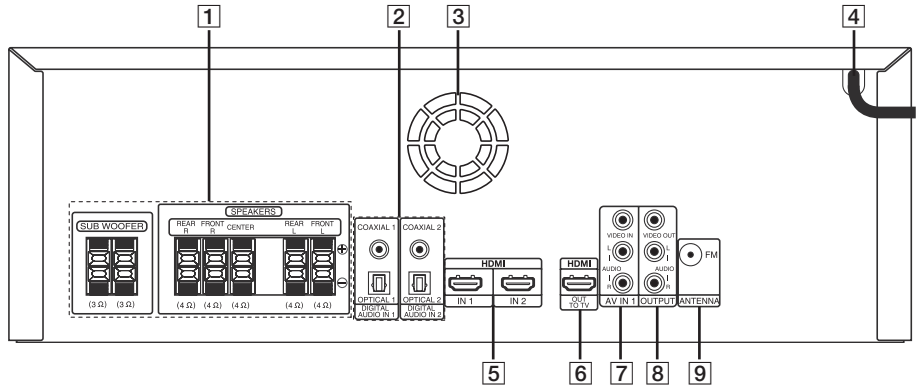
BASS BLAST
Selects the BASS BLAST sound mode directly. (page 25)

9 PORT. IN
Connects a portable device (MP3 player, etc) to PORT. IN jack.

AV IN 2 **(L-AUDIO-R, VIDEO)**
Connects the components with analog audio/video output jacks. (camcorder, video game console, etc)

10 USB port **(5 V ⎓ 500 mA)**
Connects an USB device to USB port.

Rear panel



1 Speakers connectors
Connects the speaker cables.

2 **DIGITAL AUDIO IN 1/2**

COAXIAL 1/2
Connects other components with a coaxial digital audio output.

OPTICAL 1/2
Connects other components with an optical digital audio output.

3 Cooling fan

4 Power cord

5 **HDMI IN 1/2**
Connects the component with HDMI output.

6 **HDMI OUT TO TV**

7 **AV IN 1 (VIDEO IN, L-AUDIO-R)**
Connects the components with analog audio/video output jacks.

8 **OUTPUT (VIDEO OUT, L-AUDIO-R)**
Connects the components with analog audio/video input jacks.

9 **ANTENNA**
FM – Connects the FM wired antenna.

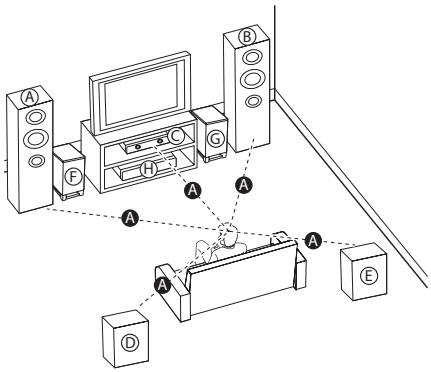
Before connecting

Please make sure to disconnect the AC power cord before making any connection between the unit and any other device.

Positioning the system

The following illustration shows an example of positioning the system. Note that the illustrations in these instructions differ from the actual unit for explanation purposes.

For the best possible surround sound, all the speakers other than the subwoofer should be placed at the same distance from the listening position (Ⓐ).



Ⓐ/Ⓑ Front speaker (L/R)

Place the front speakers to the sides of the monitor or screen and as flush with the screen surface as possible.

Ⓒ Center speaker

Place the center speaker above or below the monitor or screen.

Ⓓ/Ⓔ Rear speaker (L/R)

Place these speakers behind your listening position, facing slightly inwards.

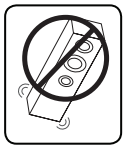
Ⓕ/Ⓖ Subwoofer

The position of the subwoofer is not so critical, because low bass sounds are not highly directional. But it is better to place the subwoofer near the front speakers. Turn it slightly toward the center of the room to reduce the wall reflections.

Ⓗ Unit

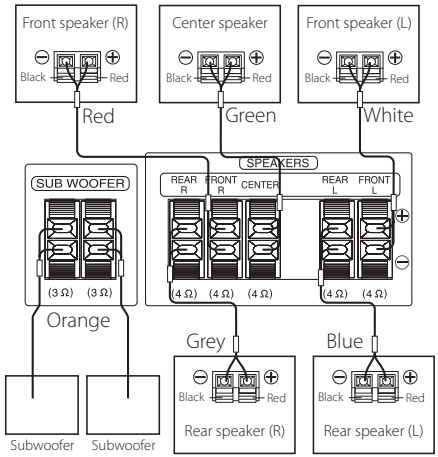
⚠ Caution

- Do not stack the speakers and be careful that the speaker should not fall down. Otherwise it may result in the speaker malfunction and causing personal injury and/or property damage.

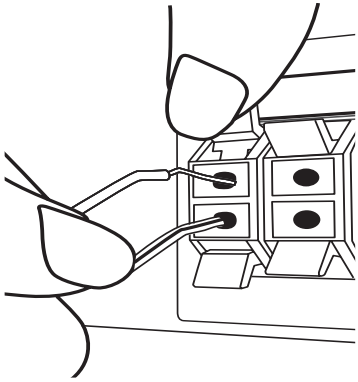


- Make sure to install the speaker with other people in order to prevent it from falling and causing injuries to the installer.

Connecting speakers



1. Connect the wires to the unit. To connect the cable to the unit, press each plastic finger pad to open the connection terminal. Insert the wire and release the finger pad.



Connect the black end of each wire to the terminals marked -(minus) and the other end to the terminals marked + (plus).

2. Connect the wires to the speakers. Connect the other end of each wire to the correct speaker according to the color coding.

Color	Speaker	Position
Green	Center	Center
Orange	Subwoofer	Any front position
Red	Front	Front right
White	Front	Front left
Grey	Rear	Rear right
Blue	Rear	Rear left

To connect the cable to the speakers, press each plastic finger pad to open the connection terminals on the base of each speaker. Insert the wire and release the finger pad.

Caution

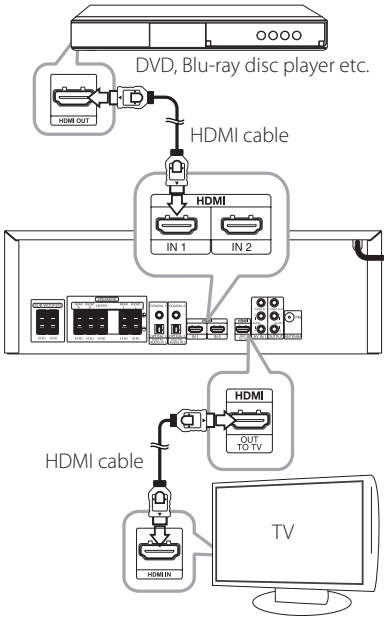
- Be careful to make sure children not to put their hands or any objects into the *speaker duct.
  *Speaker duct : A hall for plentiful bass sound on speaker cabinet (enclosure).
- Place the center speaker at a safe distance from the child's reach. Otherwise it may result in the speaker falling down and causing personal injury and/or property damage.
- The speakers contain magnet parts, so color irregularity may occur on the TV screen or PC monitor screen. Please use the speakers far away from either TV screen or PC monitor.

Connecting video devices

You can watch the input image from your video device. There are two ways of connecting your video device to AV Receiver System.

Using an HDMI cable

Since HDMI offers both audio and video signal over one cable, you can enjoy them without additional audio cable.



1. Connect the HDMI IN 1/2 jack on AV Receiver System to your video device with HDMI OUT jack using HDMI cable.
2. Connect the HDMI OUT TO TV jack on AV Receiver System to the HDMI IN jack on your TV.
3. Set the input source to HDMI (page 23).

Note

- HDMI is the abbreviated name for High Definition Multimedia Interface. It is an interface which transmits video and audio signals in digital format. If a connected HDMI device does not accept the audio output of the unit, the HDMI device's audio sound may be distorted or may not output.
- When you use HDMI connection, you can change the resolution for the HDMI output. (Refer to "Resolution Setting")
- When you connect a HDMI or DVI compatible device make sure of the followings :
  - Try switching off the HDMI/DVI device and this unit. Next, switch on the HDMI/DVI device and leave it for around 30 seconds, then switch on this unit.
  - The connected device's video input is set correctly for this unit.
  - The connected device is compatible with 720 x 576i (or 480i), 720 x 576p (or 480p), 1280 x 720p, 1920 x 1080i or 1920 x 1080p video input.
- Not all HDCP-compatible HDMI or DVI devices will work with this unit.
- The picture will not be displayed properly with non-HDCP device.
- This unit does not playback and TV screen is changed to black screen.
- If there are noises or lines on the screen, please check the HDMI cable (length is generally limited to 4.5 m(15 ft).
- Changing the resolution when the connection has already been established may result in malfunctions. To solve the problem, turn off the unit and then turn it on again.
- When the HDMI connection with HDCP is not verified, TV screen is changed to black screen. In this case, check the HDMI connection, or disconnect the HDMI cable.

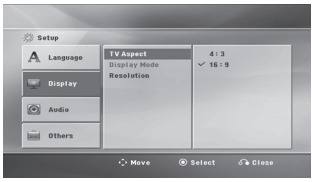
Resolution Setting

The unit provides several display resolutions for HDMI OUT TO TV jack. You can change the resolution by using [Setup] menu.

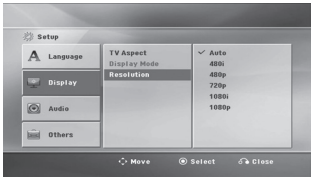
1. Press **SETUP.**
   The [Setup] menu appears.



2. Use Λ/V to select [Display] option then press > to move to the second level.



3. Use Λ/V to select the [Resolution] option then press > to move to the third level.



4. Use Λ/V to select the desired resolution then press **ENTER** (◉) to confirm your selection.

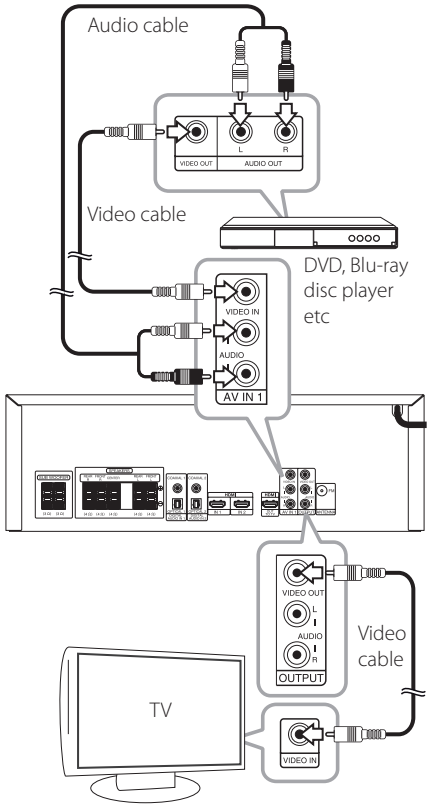
Note

If your TV does not accept the resolution you have to set on the unit, you can set resolution to 576p (or 480p) as follows :

Press ■ for more than 5 seconds.

Using a composite video cable

To enjoy both sounds and pictures from your device, you have to connect analog audio cable as well as composite video cable.



1. Connect the VIDEO IN jack on AV Receiver System to the VIDEO OUT jack on your video device using a composite video cable.
2. Connect the left and right AUDIO IN jacks of AV Receiver System to the left and right AUDIO OUT jacks on your video device using an audio cables.
3. Connect the VIDEO OUT jack on your AV Receiver System to the VIDEO IN jack on your TV.
4. Set the input source to AV 1(page 23).

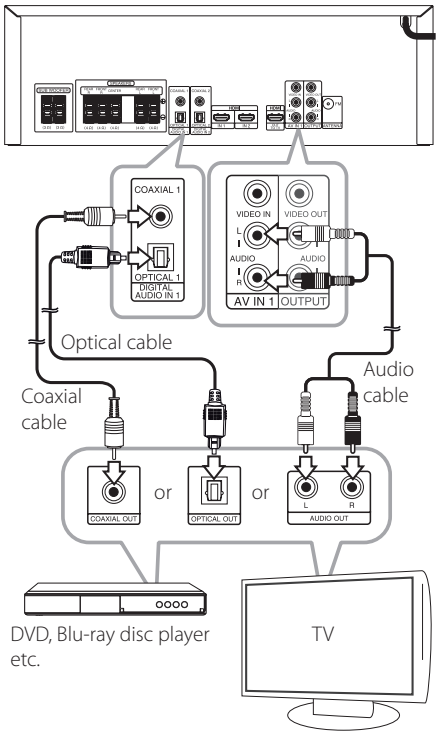
Note

When connecting an audio/video cable, be sure to match the color-coded pins to the appropriate jacks on the components: yellow (video) to yellow; white (left, audio) to white; and red (right, audio) to red.

Connecting audio devices

You can hear the sound from your TV, DVD player, Blu-ray player, CD player, etc.

It is not necessary to connect all the cables. Connect AV Receiver System to an AV IN, a COAXIAL or an OPTICAL jack on your device you want to connect.



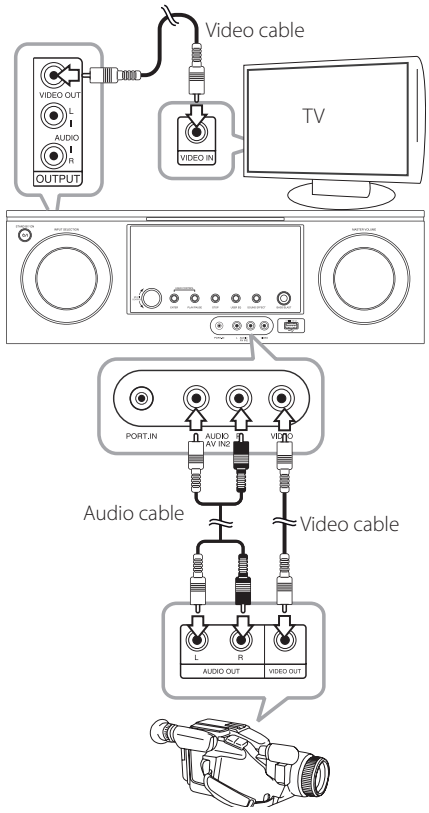
1. Connect AV IN 1, COAXIAL 1/2 or OPTICAL 1/2 jack on AV Receiver System to your audio device's OUTPUT jack you want.
2. Set the input source to AV IN 1, COAXIAL 1/2 or OPTICAL 1/2 you connect (page 23).

Note

When connecting an audio/video cable, be sure to match the color-coded pins to the appropriate jacks on the components: yellow (video) to yellow; white (left, audio) to white; and red (right, audio) to red.

Connecting other devices

You can easily connect other devices (camcorder, game console, etc) to the jacks on the front panel of AV Receiver System.



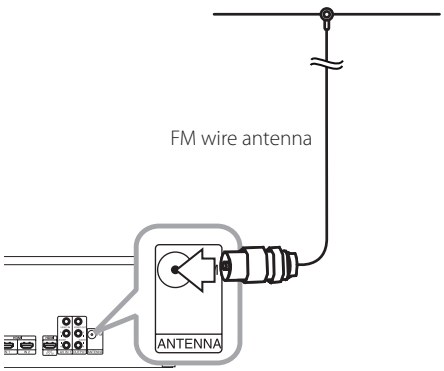
1. Connect the VIDEO IN jack on the front panel of AV Receiver System to the VIDEO OUT jack on your device using a video cable.
2. Connect the left and right AUDIO IN jacks on the front of AV Receiver System to the audio left and right OUT jacks on your device using an audio cables.
3. Connect the VIDEO OUT jack on the back panel of AV Receiver System to the VIDEO IN jack on your TV.
4. Set the input source to AV 2 (page 23).

Note

When connecting an audio/video cable, be sure to match the color-coded pins to the appropriate jacks on the components: yellow (video) to yellow; white (left, audio) to white; and red (right, audio) to red.

Connecting the antenna

1. Connect the FM wire antenna to the FM antenna connector.



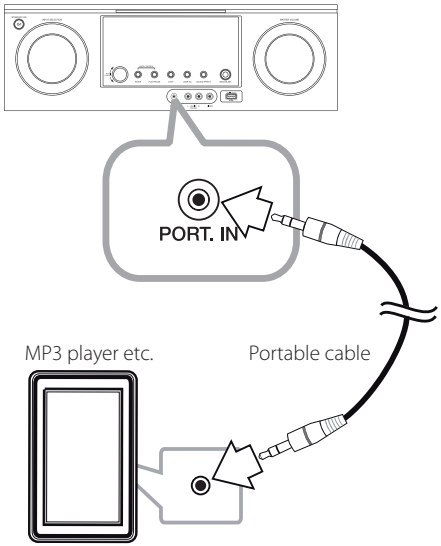
2. Set the input source to FM tuner (page 23).

Note

Be sure to fully extend the FM wire antenna. After connecting the FM wire antenna, keep it horizontal.

Connecting portable devices

1. Connect the PORT. IN jack on AV Receiver System to the head phone or LINE OUT jack on your portable device (MP3 player, etc.) using a portable cable (∅ 3.5 mm stereo plug).



2. Set the input source to PORTABLE (page 23).

Settings

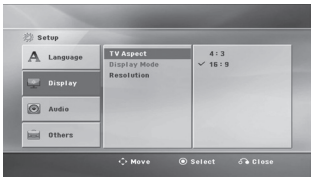
Adjusting the Setup Settings

You can change the settings of the unit in the [Setup] menu.

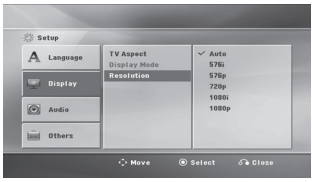
1. Press **SETUP**.
   The [Setup] menu appears.



2. Use Λ/V to select the first setup option, and press > to move to the second level.



3. Use Λ/V to select a second setup option, and press > to move to the third level.



4. Use Λ/V to select a desired setting, and press **ENTER** (⦿) to confirm your selection.

[Language] Menu

Menu Language

Select a language for the [Setup] menu and on-screen display.

[Display] Menu

TV Aspect

Select which screen aspect to use based on the shape of your TV screen.

[4:3]

Select when a standard 4:3 TV is connected.

[16:9]

Select when a 16:9 wide TV is connected.

Display Mode

The Display Mode setting works only when the TV Aspect mode is set to 4:3.

[Letterbox]

Displays a wide picture with bands on the upper and lower portions of the screen.

[Panscan]

Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

Resolution

Sets the output resolution of the HDMI video signal. Refer to "Resolution Setting" for details about the resolution (page 15).

[Auto]

If the HDMI OUT jack is connected to TVs providing display information (EDID), automatically selects the resolution best suited to the connected TV.

[576i] or **[480i]**

Outputs 576 (or 480) lines of interlaced video.

[576p] or **[480p]**

Outputs 576 (or 480) lines of progressive video.

[720p]

Outputs 720 lines of progressive video.

[1080i]

Outputs 1080 lines of interlaced video.

[1080p]

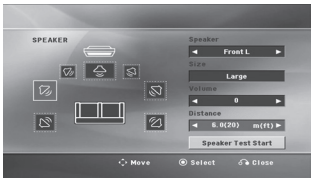
Outputs 1080 lines of progressive video.

[Audio] Menu

Speaker Setup

Make the following settings for the built-in 5.2 channel surround speaker.

1. Select [Speaker Setup] on the [Audio] menu.
2. Press **ENTER** (⊙)
   The [SPEAKER] menu appears.



3. Use </> to select the desired speaker.
4. Adjust options using Λ/V/</> buttons.
5. After adjusting the desired options, press **RETURN**(↩). The menu moves to the previous screen.

[Speaker]

Select a speaker that you want to adjust.

Note

Certain speaker settings are prohibited by the Dolby Digital licensing agreement.

[Size]

Since the speaker settings are fixed, you cannot change the settings.

[Volume]

Press </> to adjust the output level of the selected speaker.

- Front L/R : 0 to -5
- SubWoofer 1/2, Rear L/R, Center : 5 to -5

Note

There is the other way to adjust the speaker levels. Refer to page 24.

[Distance]

After you connected speakers to your unit, set the Distance between the speakers and your listening point if the distance of Center or Rear speakers is bigger than the distance of Front speakers. This allows the sound from each speaker to reach the listener at the same time. Press </> to adjust the distance of the selected speaker. This distance is equivalent to a difference of the distance between Center or Rear speaker and Front speakers.

[Speaker Test Start] / [Speaker Test Stop]

Select [Speaker Test Start] by using the ∧/∨ and press **ENTER** (⊙). Press **ENTER** (⊙) again to stop. Adjust the volume to match the volume of test signals memorized in the system.

DRC (Dynamic Range Control)

When a title encoded in Dolby Digital or Dolby Digital Plus is playing back, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). This allows you to listen to a movie at a lower volume without losing clarity of sound. Set [DRC] to [On] for this effect.

HD AV Sync

Sometimes Digital TV encounters a delay between picture and sound. If this happens you can compensate by setting a delay on the sound so that it effectively 'waits' for the picture to arrive: this is called HD AV Sync. Use ∧/∨ (on the remote control) to scroll up and down through the delay amount, which you can set at anything between 0 ms and 300 ms.

Note

This function is operated only on the source of USB.

[Others] Menu

DivX(R) VOD

ABOUT DIVX VIDEO : DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND :This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

[Register]

Displays the registration code of your unit.

[Deregister]

Deactivate your unit and display the deactivation code.

Basic operations

Selecting the input source

This section explains how to select the input source (i.e., the AV component that you want to listen to or watch).

It is necessary to connect the equipment you want to enjoy such as DVD, Blu-ray disc player, USB etc.

By using the knob on the unit

1. Press ⏻ / ❙ (**STANDBY/ON**) on the unit.
2. Select a source by using **INPUT SELECTION** on the unit. The selected source appears on the display window.

To select	Display
Component connected to AV IN 1 jack	AV 1
Component connected to AV IN 2 jack	AV 2
Portable device connected to PORT. IN jack	PORTABLE
Component connected to OPTICAL IN 1 jack	OPTICAL 1
Component connected to OPTICAL IN 2 jack	OPTICAL 2
Component connected to COAXIAL IN 1 jack	COAXIAL 1
Component connected to COAXIAL IN 2 jack	COAXIAL 2
Component connected to HDMI IN 1 jack	HDMI IN - 1
Component connected to HDMI IN 2 jack	HDMI IN - 2
FM radio	FM
USB device connected to USB port	USB

By using the remote control

1. Press ⏻ on the remote control.
2. Select a source by pressing the button on the remote control once or twice.

To select	Button
Component connected to AV IN 1/2 jack	**AV**
Portable device connected to PORT. IN jack	**PORTABLE**
Component connected to OPTICAL IN 1/2 jack	**OPTICAL**
Component connected to COAXIAL IN 1/2 jack	**COAXIAL**
Component connected to HDMI 1/2 jack	**HDMI IN**
FM radio	**RADIO**
USB device connected to USB port	**USB**

Adjusting the speaker levels

You can adjust the level of each speaker. These settings are applied to all sound fields. You can adjust from -5 to +5 in 1 step.

1. Press **SPEAKER LEVEL** on the remote control repeatedly to select a desired speaker to set.

   The indicator changes cyclically in the display window as follows.

   SW -> FL -> C -> FR -> RR -> RL

2. Press **VOL -/+** to adjust the sound level of the selected speaker while the indicator is displayed in the display window.

Display	Description
SW	Subwoofer 1,2 (-5 to +5)
FL	Front speaker (left) (-5 to 0)
C	Center speaker (-5 to +5)
FR	Front speaker (right) (-5 to 0)
RR	Rear speaker (right) (-5 to +5)
RL	Rear speaker (left) (-5 to +5)

3. Repeat and adjust the sound level of the other speakers.

Enjoying various sound mode

You can enjoy various sound mode. For details, refer to Setting the USER EQ, Sound effect and Bass Blast.

Setting the USER EQ

You can listen to music with desired sound effect by adjusting the BASS, MIDDLE and TREBLE.

1. Press **USER EQ** on the front panel.
   "USER EQ" appears on the display window.
2. Press **PLAY/PAUSE** on the front panel while the "USER EQ" is displayed in the display window.
3. Select the BASS, MIDDLE or TREBLE by pressing **ENTER** on the front panel.
4. Rotate **MULTI CONTROL** on the front panel to set sound level.
5. Press **PLAY/PAUSE** on the front panel to finish the settings.

Sound effect

This system has a number of preset sound effects. You can select a suitable sound effect. Press **SOUND EFFECT** on the remote control repeatedly until the desired sound effect appears on the display window.

Display	Description
NAT PLUS	You can enjoy the natural sound effect same as 5.2 channel.
NATURAL	You can enjoy comfortable and natural sound.
Local specialization equalizer	Regionally optimized sound effect. (DANGDUT/ ARABIC/ PERSIAN/ INDIA/ REGUETON/ MERENGUE/ SAMBA/ SALSA/ CUMBIA/ AFRO HIP HOP)
AUTO EQ	Sets the sound equalizer to the mode that is the most similar to the genre which is included in the MP3 ID3 tag of song files.
POP CLASSIC JAZZ ROCK	This program lends an enthusiastic atmosphere to the sound, giving you the feeling you are at an actual rock, pop, jazz or classic concert.
MP3-OPT	This function is optimized for compressible MP3 file. It improves the treble sound.
BASS BLAST	During playback, reinforces the bass sound.
LOUDNESS	Improves the bass and treble sound.
3D SOUND	3D Sound features deliver sound creating a wider spot so you can enjoy more immersive and cinematic surround sound.
BYPASS	You can enjoy the sound without equalizer effect.

Note

- In some of surround modes, some speakers, there's no sound or low sound. It depends on the mode of surround and the source of audio, it is not defective.
- You may need to reset the surround mode, after switching the input, sometimes even after the sound track changed.
- Depending on region, specific Local specialization equalizer is selected.

Bass Blast

You can set the BASS BLAST sound mode directly. Press **BASS BLAST** repeatedly.

Display	Description
BASS BLAST	During playback, reinforces the bass sound.
BYPASS	You can enjoy the sound without equalizer effect.

To activate the mute function

Press **MUTE (🔇)** on the remote control. "MUTE" appears on the display window.

To cancel, press **MUTE (🔇)** on the remote control again or change the volume level.

Radio Operations

Be sure that FM aerial is connected.

Listening to FM radio

1. Press **RADIO** on the remote control or turn **INPUT SELECTION** on the unit until FM appears on the display window.

   The last received station is tuned in.

2. Automatically :

   Press and hold **TUNING. -/+** for about 2 seconds until the frequency indication starts to change, then release. Scanning stops when the unit tunes in a station.

   Manually :

   Press **TUNING. -/+** on the remote control repeatedly or turn **MULTI CONTROL** on the unit.

3. Adjust the volume by pressing **VOL+/-** on the remote control or turn **MASTER VOLUME** on the unit.

Improving poor FM reception

Press **MONO/STEREO** on the remote control. This will change the tuner from stereo to mono and usually improve the reception.

Presetting the Radio Stations

You can preset 50 stations for FM.

Before tuning, make sure to turn down the volume.

1. Tune in to a radio station.
2. Press **ENTER** (⊙). A preset number will blink in the display window.
3. Press **PRESET +/-** to select the preset number you want.
4. Press **ENTER** (⊙). The station is stored.
5. Repeat steps 1 to 4 to store the other stations.
6. To listen to a preset station, press **PRESET +/-** or 0 to 9 numerical buttons.

Deleting the saved stations

Each of the saved stations

1. Select the saved station you want to delete.
2. Press **CLEAR**. A preset number will blink on the display window.
3. Press **CLEAR** again while the preset number is displayed.

all the saved stations

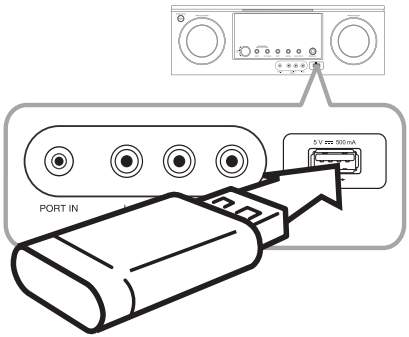
1. Press and hold **CLEAR** on the remote control for about two seconds. "ERASE ALL" will blink on the display window.
2. Press **CLEAR** again while "ERASE ALL" is displayed. All the saved stations are cleared.

Playing the USB device

This unit can play movie, music and photo files contained in the USB device.

Basic operation

1. Connect the USB device to the USB port until it fits into the port.



2. Select the USB function by pressing **USB** on the remote control or by turning **INPUT SELECTION** until "USB" appears on the display window.

The music files start playing automatically if there are only music files in the USB device.

If there are different types of files in the USB, you should select one from [USB] menu.



[USB] menu

3. Select [Music], [Movie] or [Photo] by using < / > and press **ENTER** (⦿).

To stop playback

MUSIC **MOVIE** **PHOTO**

Press ■ during playback.

To pause playback

MUSIC **MOVIE**

Press II during playback.
Press ▶ to resume playback.

To scan forward or backward

MUSIC **MOVIE**

Press ◀◀ or ▶▶ to play fast forward or fast reverse during playback.

You can change the various playback speeds by pressing ◀◀ or ▶▶ repeatedly.

Press ▶ to return to normal speed.

To skip to the next/previous chapter/ track/file

MUSIC **MOVIE**

During playback, press I◀◀ or ▶▶I to go to the next chapter/track/file or to return to the beginning of the current chapter/track/file.

Press I◀◀ twice briefly to step back to the previous chapter/track/file.

PHOTO

During playback, press I◀◀ or ▶▶I to go to the previous/next file.

To slow down the playing speed

MOVIE

While the playback is paused, press ►► repeatedly to play various speeds of slow motion.

Resume playback

MUSIC **MOVIE**

The unit records the point where you pressed the ■ depending on the file.
If "II■" appears on the screen briefly, press ► to resume playback (from the scene point).
If you press ■ twice, "■" appears on the screen. The unit will clear the stopped point.

Removing the USB device from the unit

1. Choose a different function/mode or press ■ twice in a row.
2. Remove the USB device from the unit.

MP3/WMA music file requirement

Music file compatibility with this unit is limited as follows :

- Sampling frequency : within 32 to 48 kHz (MP3), within 32 to 48 kHz (WMA)
- Bit rate : within 32 to 320 kbps (MP3),40 to 192 kbps (WMA)
- Support Version : v2, v7, v8, v9
- Maximum files : Under 999
- File extensions : ".mp3"/ ".wma"

Compatible USB Devices

- MP3 Player : Flash type MP3 player.
- USB Flash Drive : Devices that support USB 2.0 or USB 1.1.
- Some USB device may not work with this unit.

USB device requirement

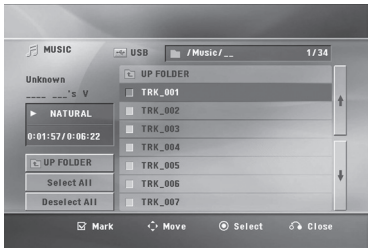
- Devices which require additional program installation connected to a computer, are not supported.
- Do not extract the USB device while in operation.
- For a large capacity USB, it may take longer than a few minute to be searched.
- Regular back up is recommended to prevent data loss.
- If you use a USB extension cable or USB hub, the USB device is not recognized.
- Using NTFS file system is not supported. (Only FAT(16/32) file system is supported.)
- This unit is not supported when the total number of files is 1000 or more.
- External HDD, Multi Media Card readers, Locked devices, or hard type usb devices are not supported.
- USB Port of the unit cannot be connected to PC. The unit cannot be used as a storage device.
- Digital camera and mobile phone are not supported.

Listening to music

You can play music files contained in a USB device.

1. Select [Music] by using < / > on the [USB] menu.
2. Press **ENTER(⊙)**. The music files start playing automatically.

Using the [Music] menu



Options	Description	Buttons
UP FOLDER	Returning to the upper folder.	Select a desired option by using ∧/∨/</>.
Select All	Marking all the files.	
Deselect All	Deselecting all the marked files.	
↑/↓	Moving to the previous or next page.	
☑ Mark	Marking the selected files.	**MARKER**
▲▼◀▶ Move	Moving to another file.	∧/∨/</>
⊙ Select	Activating a file.	**ENTER** (⊙)
↶ Close	Returning to the [USB] menu.	**RETURN** (↶)

Playing your favorite music

It enables you to listen to music by marking your favorite files.

1. During playback, select your favorite files by using ∧ / ∨.
2. Press **MARKER**. The ☑ indicator appears on the [MUSIC] menu.
3. Repeat steps 1-2.
4. Press ▶ or **ENTER(⊙)**.

   The play mode is displayed on the [MUSIC] menu.

Mark Play
Current Play

5. Select the desired play mode by using ∧ / ∨.

   [Mark Play] : Plays the marked files in order.

   [Current Play] : Plays all the files in a folder in order.
6. Press **ENTER(⊙)**.

Note

- If you want to delete a marker, select the marked file, and then press **MARKER** again.
- The markers are also cleared when the USB device is removed, the unit is switched to power off or the function is switched to the others.

Playing repeatedly or randomly

During playback, press ↻ **REPEAT** repeatedly to select a desired mode.

Display	Description
REPEAT	The current file will be played repeatedly.
REPEAT ALL	All the files will be played repeatedly.
RANDOM	The files will be played in random order.
Off (No display)	Returns to normal playback.

AUTO DJ playback

AUTO DJ blends the end of one song into the beginning of another for seamless playback.

During playback, press **AUTO DJ** repeatedly to select a desired mode.

Display	Description
AUTO DJ RANDOM	The music is played randomly on this mode.
AUTO DJ SEQUENTIAL	The music is played repeatedly on this mode.
AUTO DJ OFF	Returns to normal playback.

Playing a movie file

You can play movie files contained in a USB device.

1. Select [Movie] using < / > on the [USB] menu.
2. Select a file using Λ / V / < / >, and press ► or **ENTER** (●) to play the file.

Displaying content information on-screen

You can display and adjust various information and settings about the content.



1. During playback, press **INFO/DISPLAY** (▢) to show various playback information.

1 **Title** – Current title number / Total number of titles

2 **Time** – Elapsed playing time / Total playback time

3 **Audio** – Selected audio language or channel

4 **Subtitle** – Selected subtitle

5 **Code Page** – Selected subtitle code page

2. Select an option using Λ / V.
3. Use < / > to adjust the selected option value.
4. Press **INFO/DISPLAY** (▢) or **RETURN** (↶) to exit the On-Screen display.

Note

If no button is pressed for a few seconds, the on-screen display disappears.

Playing from selected time

1. Press **INFO/DISPLAY (▢)** during playback. The time search box shows the elapsed playing time.
2. Select the [Time] option and then input the required start time in hours, minutes, and seconds from left to right.

   For example, to find a scene at 2 hours, 10 minutes, and 20 seconds, enter "21020".
3. Press **ENTER (◉)** to start playback from selected time.

Hearing different audio

1. During playback, press **INFO/DISPLAY (▢)** to display the On-Screen display.
2. Use **∧ / ∨** to select the [Audio] option.
3. Use **< / >** to select desired audio language, audio track or audio channel.

Selecting a subtitle language

1. During playback, press **INFO/DISPLAY (▢)** to display the On-Screen display.
2. Use **∧ / ∨** to select the [Subtitle] option.
3. Use **< / >** to select desired subtitle language.
4. Press **RETURN (↶)** to exit the On-Screen display.

Changing subtitle code page

If the subtitle is not displayed properly, you can change the subtitle code page to view the subtitle file properly.

1. During playback, press **INFO/DISPLAY (▢)** to display the On-Screen display.
2. Use **∧ / ∨** to select the [Code Page] option.
3. Use **< / >** to select desired code option.
4. Press **RETURN (↶)** to exit the On-Screen display.

Movie file requirement

Movie file compatibility with this unit is limited as follows.

- Available resolution: within 720 x 576 (W x H) pixels.
- The file name of the DivX subtitle should be entered within 45 characters.
- If there is impossible code to express in the DivX file, it may be displayed as " _ " mark on the display.
- Frame rate : less than 30 fps.
- If the video and audio structure of recorded files is not interleaved, either video or audio is outputted.
- Playable movie file : ".avi", ".mpg", ".mpeg", ".divx"
- Playable Subtitle format : SubRip (*.srt/ *.txt), SAMI (*.smi), SubStation Alpha (*.ssa/ *.txt), MicroDVD (*.sub/ *.txt), SubViewer 2.0 (*.sub/ *.txt), Vobsub (*.sub)
- Playable Codec format : "DIVX3.11", "DIVX4""DIVX5", "DIVX6", "MP4V3", "3IVX"
- Playable Audio format : "AC3", "PCM", "MP3", "WMA"
- Sampling frequency : within 32 to 48 kHz (MP3), within 32 to 48 kHz (WMA)
- Bit rate : within 32 to 320 kbps (MP3), 40 to 192 kbps (WMA)
- If the name of movie file is different from that of the subtitle file, during playback of a DivX file, subtitle may not be display.
- If you play a DivX file differ from DivX spec, it may not operate normally.
- The DTS is not supported. In case of DTS audio format, audio is not output.

Viewing a photo

You can view photo files contained in a USB device.

1. Select [Photo] using </> on the [USB] menu. The [PHOTO] menu appears.



Options	Description	Buttons
UP FOLDER	Returning to the upper folder.	Select a desired option by using ∧/∨/</>.
⬆/⬇	Moving to the previous or next page.	
▶ Slide Show	Viewing a slide show.	▶
▲▼◀▶ Move	Moving to another file or content.	∧/∨/</>
⊙ Select	Viewing a particular file.	**ENTER (⊙)**
↶ Close	Returning to the [USB] menu.	**RETURN** (↶)

2. Select a file using ∧ / ∨ / </>, and press ▶ or **ENTER (⊙)** to play the file.

Options	Description	Buttons
▶ Slide Show	Viewing a slide show.	▶
⊙ Select	Viewing a particular file.	**ENTER (⊙)**

To stop a slide show

Press ■ during slide show.

To pause a slide show

Press ❚❚ during slide show. Press ▶ or ❚❚ to re-start the slide show.

To skip to the next/previous photo

While viewing a photo in full screen, press < or > to go to the previous or next photo.

Options while viewing a photo

You can use various options while viewing a photo in full screen.

1. While viewing a photo in full screen, press **INFO/DISPLAY (🗨)** to display the option menu.
2. Select an option using ∧ / ∨ / </>.



1 **Current photo/Total number of photos** – Use </> to view previous/next photo.

2 **Slide Show** – Press **ENTER (⊙)** to start or pause slide show.

3 **Speed** – Use **ENTER (⊙)** to select a delay time between photos in a slide show.

4 **Rotate** – Press **ENTER (⊙)** to rotate the photo clockwise/counterclockwise.

5 **Go to list** – Press **ENTER (⊙)** to return [Photo] menu.

3. Press **RETURN** (↶) or **INFO/DISPLAY (🗨)** to exit the option menu.

Photo file requirement

Photo file compatibility with this unit is limited as follows :

- Max pixel in width : 2760 x 2048 pixel
- Maximum files : Under 999
- Some files may not operate due to a different recording format or the condition of file.
- File extensions: ".jpg", ".jpeg"

Other Operations

Dimmer

Press **DIMMER** once. The display window is darkened by half and the lighting is turned off.

To cancel it, press **DIMMER** again.

Screen Saver

The screen saver is available only on the USB device mode. The screen saver appears when you leave the unit in Stop mode for about five minutes.

Using the Sleep Timer

You can set the unit to turn off automatically at a specified time. Press **SLEEP** repeatedly.

The indicator changes cyclically in the display window as follows.

SLEEP 180 -> 150 -> 120 -> 90 -> 80 -> 70 -> 60 -> 50 -> 40 -> 30 -> 20 -> 10 -> Off (No display)

To check the remaining time, press **SLEEP**. The remaining time appears on the display window.

To cancel the sleep function, press **SLEEP** repeatedly until "SLEEP 10" appears, and then press **SLEEP** once again while "SLEEP 10" is displayed.

Note

When the sleep timer is activated, the display window dims and the lighting is turned off.

Troubleshooting

PROBLEM	CAUSE & CORRECTION
No Power	• The power cord is unpluged. Plug in the power cord. • Check the condition by operating other electronic devices.
No sound	• The speaker wires are disconnected. Check the speaker connections. • The volume is set to minimum. Adjust the volume level. • Incorrect input source is selected. Check the input source and select the correct input source. • The mute function is activated. Press **MUTE** or adjust the volume level to cancel the mute function.
No lighting	• The Dimmer or the Sleep function is activated. Press **DIMMER** or **SLEEP** to cancel the function.
Radio stations cannot be tuned in properly.	• The antenna is positioned poorly. Adjust its position. • The signal strength of the radio station is too weak. Tune to the station manually. • No stations have been preset or preset stations have been cleared (when tuning by scanning preset channels). Preset some radio stations, see page 26 for details.
The remote control does not work properly.	• The remote control is too far from the unit. Operate the remote control within about 23 ft (7m). • There is an obstacle in the path of the remote control and the unit. Remove the obstacle. • The batteries in the remote control are exhausted. Replace the batteries with new one.

Trademarks and licenses



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Maintenance

Handling the unit

When shipping the unit

Please save the original shipping carton and packing materials. If you need to ship the unit, for maximum protection, re-pack the unit as it was originally packed at the factory.

Keeping the exterior surfaces clean

- Do not use volatile liquids such as insecticide spray near the unit.
- Wiping with strong pressure may damage the surface.
- Do not leave rubber or plastic products in contact with the unit for a long period of time.

Cleaning the unit

To clean the player, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

Specifications

General	
Power requirements	Refer to the main label.
Power consumption	Refer to the main label.
Dimensions (W x H x D)	430 x 144.5 x 330 mm
Net Weight (Approx.)	4.2 kg
Operating temperature	41 °F to 95 °F (5 °C to 35 °C)
Operating humidity	5 % to 90 %
Bus Power Supply	DC 5 V ⎓ 500 mA

Input/Output	
ANALOG AUDIO IN	2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) x 2
ANALOG VIDEO IN	1.0 Vrms (p-p), 75 Ω, sync negative, RCA jack x 2
OPTICAL IN	3.0 Vrms (p-p), Optical jack x 2
COAXIAL IN	3.0 Vrms (p-p), Coaxial jack x 2
PORT. IN	0.5Vrms (⌀ 3.5 mm stereo jack) x 1
HDMI IN/OUT	19 pin (Type A, HDMI™ connector) x 2
AUDIO OUT	2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) x 1
VIDEO OUT	1.0 Vrms (p-p), 75 Ω, sync negative, RCA jack x 1

Tuner	
FM Tuning Range	87.5 to 108.0 MHz or 87.50 to 108.00 MHz

Amplifier		
Stereo mode	170 W +170 W (4 Ω at 1 kHz)	
Surround mode	Front	170 W x 2 (4 Ω at 1 kHz)
	Center	170 W x 1 (4 Ω at 1 kHz)
	Rear	170 W x 2 (4 Ω at 1 kHz)
	Subwoofer	200 W x 2 (3 Ω at 1 kHz)

Front speakers	
Type	2 Way 2 Speaker
Impedance	4 Ω
Rated Input Power	170 W
Max. Input Power	340 W
Net Dimensions (WxHxD)	274 x 941 x 277 mm
Net Weight(1EA)	13.8 kg

Center speakers	
Type	2 Way 3 Speaker
Impedance	4 Ω
Rated Input Power	170 W
Max. Input Power	340 W
Net Dimensions (WxHxD)	546 x 185 x 238 mm
Net Weight(1EA)	4.9 kg

Rear speakers	
Type	1 Way 1 Speaker
Impedance	4 Ω
Rated Input Power	170 W
Max. Input Power	340 W
Net Dimensions (WxHxD)	273 x 185 x 228 mm
Net Weight(1EA)	2.3 kg

Subwoofer	
Type	1 Way 1 Speaker
Impedance	3 Ω
Rated Input Power	200 W
Max. Input Power	400 W
Net Dimensions (WxHxD)	273 x 390 x 364 mm
Net Weight(1EA)	7.4 kg

Designs and specifications are subject to change without prior notice.


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