Integrated home theater system

Owner's Manual





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Introduction

Please register your product on our Web site at www.harmankardon.com.

Note: You'll need the product's serial number. At the same time, you can choose to be notified about our new products and/or special promotions.

Thank You for Choosing Harman Kardon® Products!

In the years since harman kardon engineers invented the high-fidelity receiver, we have taken to heart this philosophy: Bringing the joy of home entertainment to as many people as possible, adding performance and ease-of-use features that enhance the experience. The BDS series of home entertainment systems offers a complete home entertainment solution with a wealth of listening and viewing options in one sleek receiver. Each BDS series system also includes a 5.1-channel, 2.1-channel or soundbar loudspeaker system, a system remote control and all the cables and accessories you need to enjoy movies and music in your own home, when you use them with your television or video display.

To get the maximum enjoyment from your new BDS system, we urge you to read this manual thoroughly and refer back to it as you become more familiar with your new system's features and their operation.

If you have any questions about this product, its installation or its operation, please contact your retailer or custom installer, or visit the Harman Kardon Web site at www.harmankardon.com.

Verify Line Voltage Before Using

Your BDS receiver has been designed for use with 110 - 240-volt, 50Hz/60Hz AC current. Your subwoofer has been designed for use with either 120-volt, 60Hz or 220 - 240-volt, 50/60Hz AC current, depending on where your system was sold. The receiver includes a detachable IEC power cable designed for use in the region where the system is sold.

Connection to a line voltage other than that for which the units are intended can create a safety and fire hazard and may damage the units. If you have any questions about the voltage requirements for your specific model or about the line voltage in your area, contact your dealer before plugging the unit into a wall outlet.

Unpacking

The carton and shipping materials used to protect your new receiver during shipment were specially designed to cushion it from shock and vibration. We suggest that you save the carton and packing materials for use in shipping if you move or if the unit ever needs repair.

To minimize the size of the carton in storage, you may wish to flatten it. You can do it by carefully slitting the tape seams on the carton's bottom and collapsing it. You can store cardboard inserts in the same manner. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag.

If you do not wish to save the packaging materials, please note that the carton and other sections of the shipping-protection materials are recyclable. Please respect the environment and discard those materials at a local recycling center.

Remove the protective plastic film from the front-panel lens. Leaving the film in place will affect the performance of your remote control.

Installation Location

- To ensure proper operation and to avoid the potential for safety hazards, place the unit on a firm and level surface. When placing the unit on a shelf, be certain that the shelf and any mounting hardware can support the weight of the product.
- Provide proper space both above and below the unit for ventilation. If this product will be installed in a cabinet or other enclosed area, make certain that there is sufficient air movement within the area. Under some circumstances, a fan may be required.
- Do not place the unit directly on a carpeted surface.
- Avoid installation in extremely hot or cold locations, or in an area that is exposed to direct sunlight or heating equipment.
- Avoid moist or humid locations.
- Do not obstruct the ventilation slots on the top and sides of the unit or place objects directly over or next to them.
- Do not place the receiver directly on top of a product that generates excessive heat.

- Due to the heat generated by the receiver and other components in your system, there is the remote possibility that the rubber padding on the bottom of the unit's feet may leave marks on certain wood or wood-veneer materials. Use caution when placing the unit on soft woods or other materials that heat or heavy objects may damage. Some surface finishes may be particularly sensitive to absorbing such marks, due to a variety of factors beyond harman kardon control, including the nature of the finish, cleaning materials used, normal heat and vibration caused by the use of the product, or other factors. Your warranty will not cover this type of damage to furniture, so exercise caution in choosing an installation location for the component and in performing normal maintenance practices.
- Your new harman kardon Blu-ray Disc[™] player requires a broadband Internet connection for BD-Live[™] interactivity.

Cleaning

receiver

When the unit gets dirty, wipe it with a clean, soft, dry cloth. If necessary, and only after unplugging the AC power cord, wipe it with a soft cloth dampened with mild soapy water, then a fresh cloth with clean water. Wipe it dry immediately with a dry cloth. NEVER use benzene, aerosol cleaners, thinner, alcohol or any other volatile cleaning agent. Do not use abrasive cleaners, as they may damage the finish of metal parts. Avoid spraying insecticide near the unit.

Speakers and Subwoofer

When needed, use a soft cloth to remove any fingerprints or dust from the enclosures or grilles. NOTE: Do not use any cleaning products or polishes on the enclosures or grilles.

Moving the Receiver

Before moving the receiver, disconnect any interconnection cords to other components, and disconnect the unit from its AC outlet.

NOTE: The built-in Blu-ray Disc/DVD player in your BDS receiver is designed and manufactured for compatibility with region management information that is encoded on most Blu-ray Disc recordings and DVD recordings:

• **BDS receivers sold in the USA** are designed only for playback of discs with Blu-Ray Disc Region Code A and DVD Region Code 1 information, or for discs that do not contain any region code information.



• **BDS receivers sold in Europe** are designed only for playback of discs with Blu-ray Disc Region Code B and DVD Region Code 2 information, or for discs that do not contain region code information.

If there is a Region Code on a disc other than the one your BDS player is designed for, it will not play in your BDS receiver.

System Components

Your BDS system includes the following components:

BDS 800 System

- 1 x BDS 5 5.1-channel Blu-ray Disc receiver
- 4 x SAT-TS60 satellite speakers
- 1 x SAT-TS60 center speaker
- 1 x HKTS200SUB powered subwoofer

BDS 700 System

- 1 x BDS 5 5.1-channel Blu-ray Disc receiver
- 4 x SAT-TS7 satellite speakers
- 1 x CEN-TS7 center speaker
- 1 x HKTS200SUB powered subwoofer

BDS 600 System

- 1 x BDS 5 5.1-channel Blu-ray Disc receiver
- 1 x SB10 soundbar speaker 1 x HKTS210SUB powered subwoofer

BDS 400 System

- 1 x BDS 2 2.1-channel Blu-ray Disc receiver
- 2 x SAT-TS60 satellite speakers
- 1 x HKTS200SUB powered subwoofer

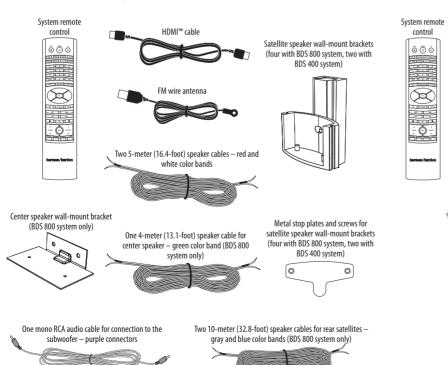
BDS 300 System

1 x BDS 2 2.1-channel Blu-ray Disc receiver 2 x SAT-TS11 satellite speakers 1 x HKTS200SUB powered subwoofer

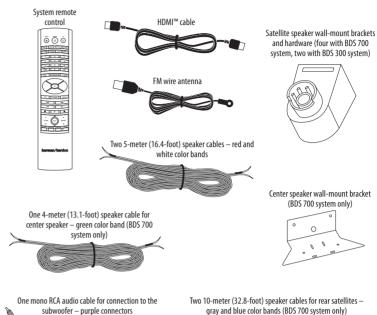
Supplied Accessories

If any of these items are missing, please contact harman kardon Customer Service via www. harmankardon.com

BDS 800, BDS 400 Systems



BDS 700, BDS 300 Systems



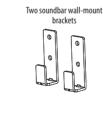


Two 10-meter (32.8-foot) speaker cables for rear satellites gray and blue color bands (BDS 700 system only)

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BDS 600 System







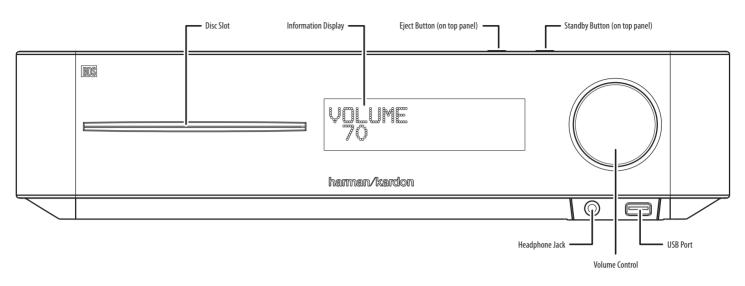
Three speaker cables

HDMI[™] cable

One mono RCA audio cable for connection to the subwoofer - purple connectors



Receiver Front-Panel Controls



Disc Slot: Insert a compatible disc into the slot. The BDS receiver's disc player will accept 5-inch (12cm) and 3-inch (8cm) discs.

Information Display: Various messages appear on this display in response to commands and to show the audio/video that is playing, the settings or other aspects of the BDS receiver's status as described throughout this manual.

Eject Button (on top of unit): Press this button to eject a disc from the BDS receiver's built-in disc player. Before pressing this button, make sure no objects are blocking the disc-slot opening. NOTE: If you do not remove the ejected disc within 90 seconds, it will automatically re-load back into the disc player for protection.

Standby Button (on top of unit): This button toggles the receiver between the On and Standby modes.

Power Indicator: This LED surrounds the Standby button. When the BDS receiver is plugged into AC power, the LED turns *amber* to indicate that the receiver is in Standby mode (ready to be turned on). When you turn the BDS receiver on (by the Standby button or the remote control's Power button), the LED turns *white*.

Headphone Jack: Insert the 3.5mm stereo mini connector from a set of headphones into this jack. NOTE: When a plug is inserted into the Headphone jack, the BDS receiver's speaker outputs automatically mute; the HDMI audio output remains active.

Volume Control: Rotate the disc clockwise to raise the volume; rotate counterclockwise to lower the volume. The volume level will appear on the Information Display and on the on-screen menu.

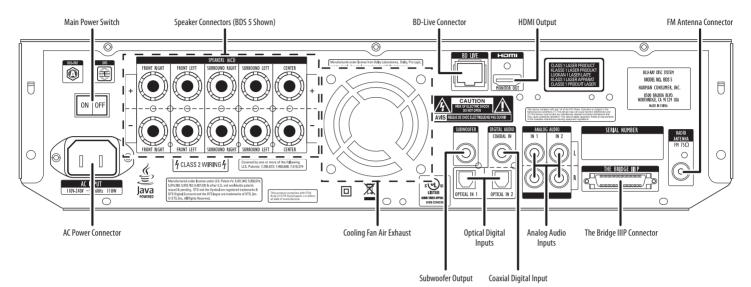
IMPORTANT: Do not turn the receiver's Volume control up to or past the point where the audio from the speakers becomes distorted. Doing so can damage the speakers.

USB 2.0 Port: Gently insert a flash drive or HDD disk drive with a USB Standard-A cable to this port.

IMPORTANT: Do not connect a PC or other USB host/controller to this port, or you may damage both the BDS receiver and the other device.

Orient the device's plug so it fits all the way into the BDS receiver's USB connector. You may insert or remove the device at any time – there is no installation or ejection procedure.

Receiver Rear-Panel Connections



NOTE: See the *Connections* section, on page 14, for detailed information about making connections.

AC Power Connector: After you have made and verified all other connections, plug the supplied AC power cord into this input and into an unswitched AC outlet.

Main Power Switch: This mechanical switch turns the BDS receiver's power supply on or off. After you have made and verified all connections (see the *Connections* section, on page 14), set this switch in the On position. During normal use you will usually leave this switch set to On; it cannot be turned on or off using the remote control. To conserve energy when you're not going to be using the receiver for an extended period of time, set this switch to Off.

Speaker Connectors: Use the speaker wires supplied with the speakers to connect the satellite and center speakers to the proper terminals.

- The BDS 5 receiver (shown) has connections for five speakers: front left, front right, surround left, surround right and center.
- The BDS 2 receiver (not shown) has connections for two speakers: front left and front right.

See Connections, on page 14, for more information.

Subwoofer Output: Use the supplied mono RCA audio cable (with the purple connectors) to connect this jack to the subwoofer's Line-Level In LFE jack. See *Connecting the Subwoofer*, on page 16, for more details about making connections.

BD-Live Connector: To be able to use the BD-Live feature, connect this port to your local area network (LAN) using a Cat. 5/Cat. 5e/RJ-45 network cable. See *BD-Live Interactivity*, on page 26, for details.

Optical Digital Inputs: Connect the optical digital output of an audio-only source component here. The signal may be a Dolby[®] Digital bitstream, a DTS[®] bitstream or a standard PCM digital-audio bitstream.

NOTE: Use only one type of digital connection for each source component.

Coaxial Digital Input: Connect the coaxial digital output of an audio-only source component here. The signal may be a Dolby Digital bitstream, a DTS bitstream or a standard PCM digital-audio bitstream.

NOTE: Use only one type of digital connection for each source component.

HDMI Output (HDMI ver. 1.3a): Connect the BDS receiver's HDMI output to your TV's HDMI input. Since the HDMI cable transmits both video and audio to the TV, we recommend that you set the receiver's HDMI audio output to Off in the receiver's Audio menu to take full advantage of your BDS system's superior audio performance. See *Audio Settings*, on page 21, for more information.

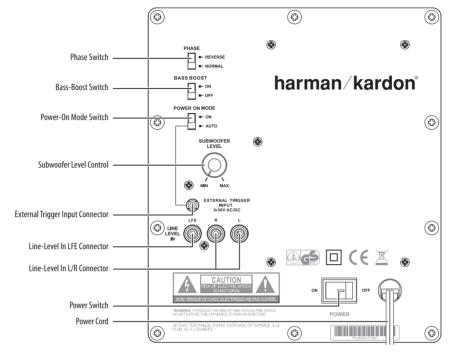
IMPORTANT: Your BDS receiver is in compliance with HDCP (High-Definition Copy Protection). Your TV must also be HDCP-compliant to be used with the BDS receiver's HDMI output. For best results, we do not recommend HDMI connections in excess of ten feet (about 3 meters) without a repeater. If your TV has a DVI input, you may use an optional HDMI-to-DVI cable or adapter for the video connection to the TV. (The DVI connection is video-only.)

Analog Audio Inputs 1 and 2: Use these inputs to connect to an audio-only source component (such as a tape deck). Do not connect a turntable to these jacks without a phono preamp.

The Bridge IIIP Connector: Connect The Bridge IIIP iPod/iPhone dock (available separately) to this terminal.

FM Antenna Connector: Connect the supplied FM antenna to this terminal.

Subwoofer Controls and Connections



Phase Switch: This switch determines whether the subwoofer driver's piston-like action moves in and out in phase with the satellite speakers. If the subwoofer were to play out of phase with the satellite speakers, the sound waves produced by the subwoofer could be cancelled out, reducing bass performance and sonic impact. This phenomenon depends in part on the relative placement of all the speakers in the room.

Although in most cases the Phase switch should be left in the "Normal" position, there is no absolutely correct setting for it. When the subwoofer is properly in phase with the satellite speakers, the sound will be clearer and have maximum impact. It will make percussive sounds like drums, piano and plucked strings sound more lifelike. The best way to set the Phase switch is to listen to music that you are familiar with and set the switch in the position that gives drums and other percussive sounds maximum impact.

Bass-Boost Switch: Set this switch to "On" to enhance the subwoofer's low-frequency performance. Set this switch to "Off" for normal low-frequency performance.

Power-On Mode Switch: When this switch is set in the "Auto" position and when the Power switch is set to "On," the subwoofer will automatically turn itself on when it receives an audio signal. It will enter the Standby mode if it receives no audio signal for 20 minutes. When the Power-On Mode switch is set in the "On" position, the subwoofer will remain on whether or not it is receiving an audio signal.

An LED on the subwoofer's top panel indicates whether the subwoofer is in the On or Standby mode:

- When the LED glows white, the subwoofer is turned on.
- When the LED is not lit up, the subwoofer is in Standby mode.

When the Main Power Switch is set to Off, the LED will not light up, no matter what setting the Power-On Mode switch is in.

Subwoofer Level Control: Use this control to adjust the subwoofer's volume. Turn clockwise to increase the volume; turn counterclockwise to decrease the volume.

External Trigger Input Connector: NOTE: This connector is NOT used with the BDS receiver. If you connect the subwoofer to a different component that has a voltage trigger output connection, connect the External Trigger Input to the trigger output of the other compatible component. Whenever the subwoofer detects a trigger signal between 3V and 30V (AC or DC), the subwoofer's amplifier will turn on. The subwoofer's amplifier will turn off after the trigger signal ceases, even when the Power-On Mode switch is in the "Auto" position.

Line-Level In LFE Connector: Use the supplied mono RCA audio cable (with the purple connectors) to connect the Line-Level In LFE connector to the BDS receiver's Subwoofer output.

Line-Level In L/R Connectors: NOTE: These connectors are NOT used with the BDS receiver. If you connect the subwoofer to a different unit that does not have a dedicated, low-pass-filtered subwoofer output, use these connectors.

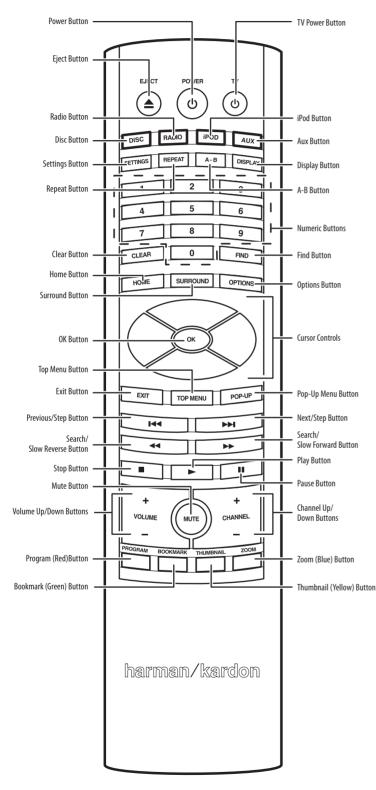
- If the unit has a separate subwoofer output, use the supplied mono RCA audio cable to connect the unit's subwoofer output to either one of the subwoofer's Line-Level In L/R connectors.
- If your unit does not have a separate subwoofer output, use two Y-adapters (not supplied). Connect one adapter's single end to the unit's preamp output for that channel. Connect one of this adapter's dual ends to the main amp input for that channel, and connect the adapter's other dual end to one of the subwoofer's Line-Level In L/R connectors. Repeat this process with the other Y-adapter, preamp channel, main amp input and subwoofer's Line-Level In L/R connector.

Main Power Switch: Set this switch in the On position to turn the subwoofer on. The subwoofer will then either be on or in Standby mode, depending on the setting of the subwoofer's Power-On Mode switch.

Power Cord: After you have made and verified all subwoofer and speaker connections described in this manual, plug the Power cord into an active, unswitched electrical outlet for proper operation of the subwoofer. DO NOT plug this cord into the accessory outlets found in some audio components.

Remote Control Functions

Remote Control Functions



Eject Button: Press this button to eject a disc from the BDS receiver's built-in disc player. Before pressing this button, make sure no objects are blocking the disc slot opening.

Power Button: Pressing this button toggles the BDS receiver between the On and Standby modes.

TV Power Button: After you program the remote control, pressing this button turns the TV's power on and off. See *Programming the Remote*, on page 18.

Disc Button: Pressing this button selects the BDS receiver's built-in disc player as the system's active audio and video source and plays a disc that has been inserted into the player. Pressing this button also puts the remote control into the disc player control mode. See *Using the Disc Player*, on page 24, for details. NOTE: Pressing this button when the BDS receiver is in the Standby mode will switch it on.

Radio Button: Pressing this button selects the BDS receiver's built-in FM radio as the system's active audio source. Pressing this button also puts the remote control into the control mode for the radio. See *Using the Radio*, on page 26, for details. NOTE: Pressing this button when the BDS receiver is in the Standby mode will switch it on.

iPod Button: Pressing this button selects an iPod inserted in a connected The Bridge IIIP dock (available separately) as the system's active audio source. Pressing this button also puts the remote control into the control mode for the iPod. See *Listening to Your iPod/iPhone*, on page 26, for details. NOTE: Pressing this button when the BDS receiver is in the Standby mode will switch it on.

Aux Button: Pressing this button selects the receiver's active rear-panel audio input as the system's active audio source. Repeatedly pressing the button cycles through all of the rear-panel audio inputs. See *Listening to Audio Sources*, on page 27, for details.

Pressing this button also places the remote into the auxiliary-component control mode, enabling the remote to use any pre-programmed and/or learned functions. See *Listening to Audio Sources*, on page 27, for details. NOTE: Pressing this button when the BDS receiver is in the Standby mode will switch it on.

Settings Button: Pressing this button displays the BDS receiver's Settings menu. See *Settings Menus*, on page 20, for details.

Repeat Button: When the BDS is playing a Blu-ray Disc recording or DVD, pressing this button cycles through the following repeat modes: Chapter, Title, All, Off. When the BDS is playing a CD or listening to media stored on an iPod or USB device, this button cycles through the following repeat modes: Track, All, Off.

A-B Button: Pressing this button activates the A-B repeat mode. The first press sets the "A" repeat point; the second press sets the "B" repeat point and begins repeating the section of the program between the two points. Pressing the A-B button while the A-B repeat mode is active cancels the A-B repeat mode. This feature works both for the built-in disc player and for content from a USB device. NOTE: This feature is disc-dependent. Some discs do not allow A-B repeat.

Display Button: When playing Blu-ray Disc and DVD recordings, pressing this button activates a bar display containing information about the currently-playing disc or program. The button does not function when the BDS is playing material from an iPod, a USB device, an auxiliary source or the radio.

Numeric Buttons: Use these buttons to enter numbers for various items.

Clear Button: This button clears an incorrect entry made using the Numeric buttons.

Find Button: Pressing this button during disc playback activates the search function, allowing you to jump to a specific location on the disc. You can find a location by title, chapter or time. NOTE: This feature is disc-dependent. Some discs do not allow finding locations by title.

Home Button: Pressing this button returns the on-screen display to the Home screen from whatever screen is active when the button is pressed.

Surround Button: Pressing this button cycles through all of the surround-sound modes that are available for the active program. Each press of the Surround button will change to the next mode in line. A pop-up display will appear, showing the modes as you cycle through them. NOTE: Not all surround modes will be available for all programs. See *Surround-Sound Modes*, on page 24, for more information.

Options Button: Pressing this button displays any available options for the item that is active at the time the button is pressed. When listening to an Aux source, pressing the Options button lets you adjust the audio delay to eliminate "lip sync" errors between the sound and picture when watching video programs with sound playing through one of the receiver's rear-panel audio inputs. See *Listening to Audio Sources*, on page 27, for details.

Cursor Controls: Use these buttons to navigate through items on the on-screen menu.

OK Button: Press this button to select the highlighted item on the on-screen menu.

Exit Button: Pressing this button exits the current on-screen menu and displays the previous screen.

Top Menu Button: Displays the top menu of the Blu-ray Disc recording or DVD that is playing. NOTE: This feature is disc-dependent. Not all DVDs have top menus. If the DVD has no top menu, pressing the Top Menu button may display the disc menu, depending on how the disc's menu system was authored. See *Using the Disc Player*, on page 24, for details.

Pop-Up Button: Pressing this button while playing a Blu-ray Disc recording or DVD displays its disc menu. NOTE: This feature is disc-dependent. Not all DVDs have pop-up menus. If the DVD has no pop-up menu, pressing the Pop-Up button may display the disc menu, depending on how the disc's menu system was authored.

Previous/Step Button: Press this button once to skip to the beginning of a track or, when viewing photos, to the previous photo. Press the button twice to skip to the beginning of the previous track. Press the button repeatedly to go back through the previous chapters or tracks. When video content is playing on Blu-ray Disc recordings and DVDs, press the Pause button first; afterwards, each subsequent press of the Previous/Step button reverses the video one frame.

Next/Step Button: Press this button once to skip to the beginning of the next track or, when viewing photos, to the next photo. Press the button repeatedly to advance through the next chapters or tracks. When video content is playing, press the Pause button first; afterwards, each subsequent press of the Next/Step button advances the video one frame.

Search/Slow Reverse Button: Press this button to reverse through a disc track. For Bluray Disc recordings and DVDs, each press cycles through 2x, 4x, 8x, 16x and 32x reverse speed. Pressing the button while a Blu-ray Disc recording or DVD is paused will reverse through the chapter in slow motion. Each press cycles through 1/2, 1/4, 1/8 and 1/16 normal speed. **Search/Slow Forward Button**: Press this button to fast-forward through the current disc track. For Blu-ray Disc recordings and DVDs, each press cycles through 2x, 4x, 8x, 16x and 32x normal speed. Pressing the button while a Blu-ray Disc recording or DVD is paused will play through the chapter in slow motion. Each press cycles through 1/2, 1/4, 1/8 and 1/16 normal speed.

Stop Button: Press this button to stop playback at the current point. (Pressing the Play button will resume playback from this point.) Press the Stop button twice to stop playback fully. NOTE: Some settings and functions will be available only when the player is fully stopped.

Play Button: Press this button to play a disc that has been loaded into the player's disc drawer or a music file that has been highlighted on the on-screen menu. Pressing this button when viewing photos begins a slide show of all photos in the current folder.

Pause Button: Press this button to pause a disc or music file that is playing. Pressing the button while a Blu-ray Disc recording or DVD is playing will freeze-frame on the current video frame. Pressing the button while the disc is paused will resume play. Pressing this button while viewing photos freezes the current photo on the screen.

Volume +/- Buttons: Press these buttons to increase or decrease the volume of the BDS receiver's speaker outputs. NOTE: The Volume +/- buttons do not change the volume of the HDMI audio outputs.

IMPORTANT: Do not turn the Volume buttons up to or past the point where the audio from the speakers becomes distorted. Doing so can damage the speakers.

Mute Button: Press this button to mute the sound from the BDS receiver's speaker outputs. Press the button again to un-mute the sound. NOTE: The Mute button does not mute the HDMI audio outputs.

Channel +/- **Buttons**: When Radio is the source selected on the remote control, the Channel +/- buttons select the next higher or lower preset station.

Bookmark (Green) Button: Press this button to activate the Bookmark function. See *Bookmark Function*, on page 25, for more information.

Thumbnail (Yellow) Button: Press this button while playing a photo slide show to display thumbnail images of all photos in the slide show.

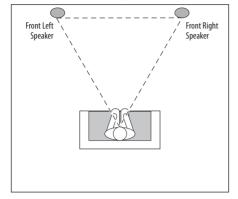
Program (Red) Button: Press this button to create a programmed playback list for the currently-playing disc. See *Programmed Play*, on page 25, for more information.

Zoom (Blue) Button: Press the Zoom button to zoom in on or recede from a video image or slide. Use the Navigation buttons to zoom in on different sections of the image. NOTE: This function is disc-dependent for Blu-ray Disc recordings and DVDs. Not all discs can be zoomed in on.

Red, Green, Yellow and Blue Buttons: When the BDS is playing a Blu-ray Disc recording, these buttons can activate features and menus that may vary from disc to disc. Refer to the menu instructions for each particular disc for more information. NOTE: These Bluray Disc functions may override the Bookmark, Thumbnail, Program and Zoom functions.

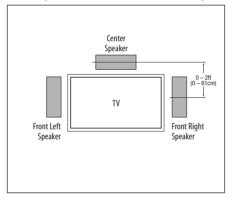
Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300 Systems)

Placing the Front Left and Front Right Speakers



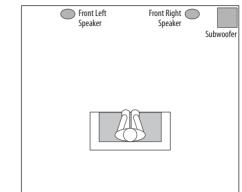
Place the front speakers the same distance from each other as they are from the listening position. Place them at about the same height from the floor as the listener's ears will be. You can also angle them toward the listener.

Placing the Center Speaker (BDS 800 and BDS 700 systems only)



Place the center speaker directly above or below the center of the TV screen. Its center should be no more than 2 feet (61cm) above or below the tweeters of the front left and front right speakers. If you have a CRT television, it may be convenient to set the center speaker on top of the television set.

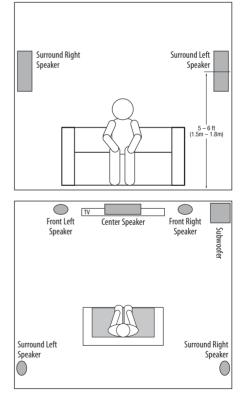
Placing the Subwoofer



Since our ears do not hear directional sound at the low frequencies where the subwoofer operates, it will perform well from just about any location in your room. However, the best bass reproduction is likely to be heard if you place the subwoofer in a corner along the same wall as the front left and right speakers.

You can experiment with subwoofer placement by temporarily placing the subwoofer in the listening position and playing music with strong bass content. Move around to various locations in the room while the system is playing, and listen until you find the location where the bass performance is best. Place the subwoofer in that location.

Placing the Surround Speakers (BDS 800 and BDS 700 systems only)

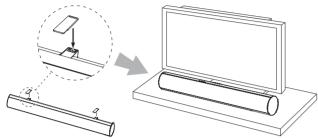


You should place the two surround speakers slightly behind the listening position, facing each other, 5-6 feet (1.5m-1.8m) from the floor. An alternate location would be on a wall behind the listening position, facing forward. The surround speakers should not call attention to themselves while they're playing. Experiment with their placement until you hear a diffuse, ambient sound from the front left, front right and center speakers.

Placing the Speakers (BDS 600 System)

Placing the Front Left and Front Right Speakers

If your TV is placed on a table, you can place the soundbar on the table directly in front of the TV, centered with the TV screen. Attach the supplied rubber feet to the soundbar as shown in the illustration.



If your TV is located in an entertainment or media center, you can mount the soundbar in a space directly above or below the TV.

WARNING: Do NOT place the soundbar directly on top of a TV or at the front edge of a table or cabinet. It could roll forward and injure someone.

Wall-Mounting the Soundbar

If your TV is attached to a wall, you can use the included wall-mount brackets to mount the soundbar on the wall directly below the TV screen.

- 1. Determine the location for the soundbar on the wall. Make sure that the top of the soundbar will not block your view of the TV screen when it is mounted on the wall.
- 2. Mark the locations of the soundbar wall-mount bracket holes on the wall. The holes for the left and right brackets are spaced 600mm apart. The top and bottom holes for each bracket are spaced 25mm apart. See the illustration below.

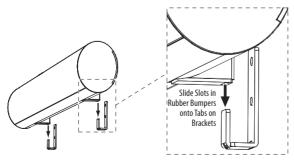


NOTE: To insure that the soundbar will be level, use a carpenter's level, a laser sight or another device to insure that the two sets of holes are at exactly the same height.

 Attach the two wall-mount brackets to the wall at the locations you marked, using hardware that is appropriate for the wall's construction and materials. Note that the soundbar weighs 8.1 lb (3.67kg). Be sure to use hardware that can support this weight.



 After making all of the connections described in the *Connections* section, on page 14, attach the soundbar to the brackets by sliding the slots in its rubber bumpers onto the brackets' vertical tabs.



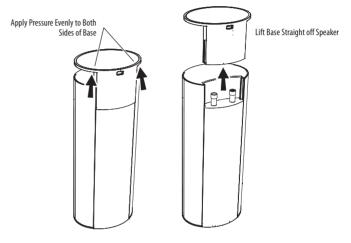
Placing the Subwoofer

Follow the subwoofer placement directions in *Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300 Systems)*, on page 10.

Mounting Options for Satellite and Center Speakers

Shelf Placement

You can place the satellite and center speakers on shelves. BDS 800 and BDS 400 satellite speakers have built-in bases for shelf placement. If you want, you can remove a base by pulling it straight off its speaker. Apply even pressure to both sides of the base and smoothly slide it off the speaker.

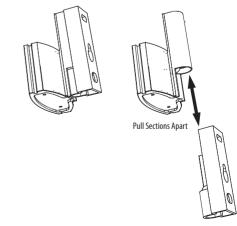


Wall-Mounting the BDS 800 and BDS 400 Satellite Speakers

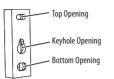
IMPORTANT: Read the *Connections* section, on page 14, before wall-mounting the satellite speakers. You will need to insert the speaker wires through the wall-mount brackets and connect the wires to the speakers during the process of installing the brackets.

NOTE: If you are using your own speaker wire, it must be no thicker than the wire supplied with the speakers. Thicker wire will prevent the wall-mount bracket from sliding onto the speaker.

- 1. Decide on the location for the speaker (see *Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300 Systems)*, on page 10).
- 2. Remove the speaker's base as explained in Shelf Placement, on this page.
- 3. Disassemble the wall-mount bracket by pulling the two sections apart.



4. Attach the wall portion of the wall-mount bracket onto the wall using hardware that is appropriate for the wall's construction and materials. We recommend first anchoring the bracket using its keyhole, then attaching it with another anchor through its top opening, as shown in the illustration. The satellite speakers weigh 3.3 lb (1.5kg). Be sure to use hardware that can support this weight.



NOTE: If you're running the speaker wire through the wall, you can bring it out directly behind the bracket location and insert it through the bottom opening in the wall portion of the bracket, as shown in the illustration. This move will keep the wire completely hidden from view once the installation is complete.



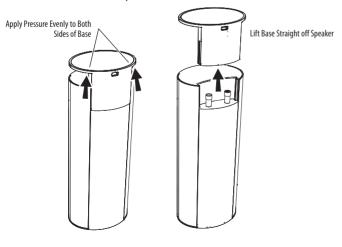
5. If you're not running the speaker wire through the wall, insert it through the wall portion of the wall-mount bracket as shown in the illustration.



6. Pass the speaker wire through the speaker portion of the wall-mount bracket as shown in the illustration.

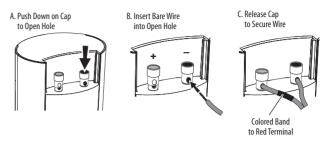


7. If you have not already removed the speaker's base, do so by pulling it straight off the speaker, as shown in the illustration. Applying even pressure to both sides of the base will allow it to slide off smoothly.



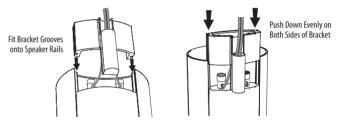
CAUTION: Before making speaker connections, be sure that the BDS receiver is turned OFF and, preferably, its AC cord is unplugged from the AC outlet.

8. Connect the speaker wire to the speaker terminals as shown in the illustration:

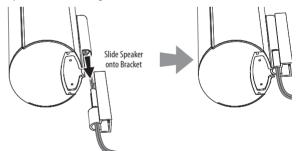


IMPORTANT: Make sure the (+) and (-) bare wires do not touch each other or the other terminal. Touching wires can cause a short circuit that can damage your receiver or amplifier.

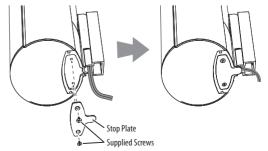
- 9. Slide the speaker portion of the wall-mount bracket onto the speaker as shown in the illustration below. Fit the grooves on the bracket onto the rails in the speaker, and apply even pressure on both sides of the bracket so it slides straight onto the speaker.
 - Push the bracket all the way onto the speaker until it snaps into place.
 - Pull any slack speaker wire back through the bracket as you slide the bracket onto the speaker.



10. Slide the speaker onto the bracket's wall section as shown in the illustration. Pull any slack speaker wire back through the bracket's wall section.

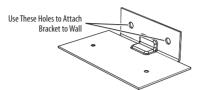


11. Fit the metal stop plate into the recess on the bottom of the bracket with the pad facing the bracket, and fasten it to the bracket using two of the supplied screws. Fastening it will prevent the speaker from detaching from the bracket and will hold the speaker's position as you rotate it on the mount.



Wall-Mounting the BDS 800 Center Speaker

- 1. Decide on the location for the speaker (see *Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300 Systems)*, on page 10).
- 2. Attach the center-speaker wall-mount bracket to the wall using hardware that is appropriate for the wall's construction and materials. Attach the anchors through the holes shown in the illustration.



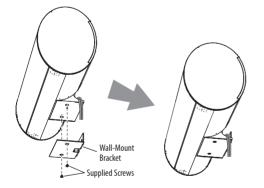
NOTE: The center speaker weighs 3.2 lb (1.45kg). Be sure to use hardware that can support this weight.

CAUTION: Before making speaker connections, be sure that your receiver or amplifier is turned OFF and, preferably, its AC cord is unplugged from the AC power source.

3. Connect the speaker wire to the speaker terminals.

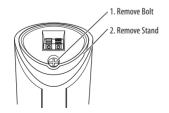


Using two of the supplied screws, attach the center speaker to the wall-mount bracket, as shown in the illustration.



Wall-Mounting the BDS 700 and BDS 300 Satellite Speakers

1. Remove the black shelf stand from the bottom of the speaker by unscrewing the bolt. Store the shelf stand and bolt in a safe place in case you need them in the future.



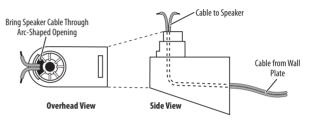
2. Determine the locations for the speakers. (See Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300), on page 10, for more information.) If possible, position the speakers so that the mounting screws (not included; use size #8) can be installed directly into a wall stud. If that is not possible, use optional wall anchors that are rated to support at least 25 lb (11.3kg) and are appropriate for the construction and materials

of your wall. The customer is responsible for the proper selection and use of mounting hardware, available through hardware stores, to wall-mount the speakers properly and safely.

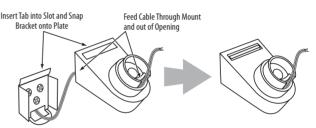
3. Bring the speaker cable through the wall-bracket attachment plate, and mount the attachment plate on the wall in the desired location.



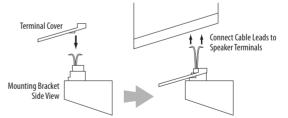
Thread the speaker cable through the arc-shaped opening on the top of the mounting bracket, not the screw hole.



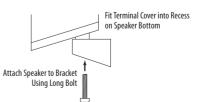
Attach the mounting bracket to the wall plate by inserting the tab at the top of the attachment plate into the slot on top of the bracket and snapping the bracket onto the attachment plate.



6. Fit the terminal cover onto the bracket as shown in the illustration below, then connect the speaker leads to the terminals on the underside of the speaker. Remember to observe the correct polarity. See *Connecting the Satellite and Center Speakers (BDS 700 and BDS 300 systems)*, on page 15, for more information.



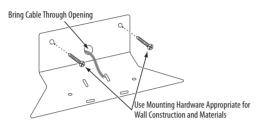
7. Fit the terminal cover into the opening on the underside of the speaker so that it is flush against the speaker and covers the terminals. Insert the supplied long bracket bolt up through the bottom of the bracket and terminal cover, and screw it into the threaded insert on the underside of the speaker. The bolt should be snug but not so tight as to prevent the speaker from pivoting on the bracket.



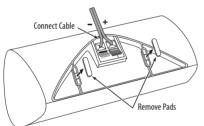
You can pivot the wall-mounted speaker from side to side; however, attempting to tilt it up or down will damage the bracket and possibly the wall, which would not be covered by your warranty.

Wall-Mounting the BDS 700 Center Speaker

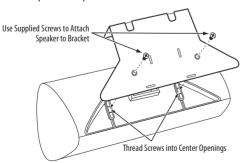
- Determine the location for the speaker (see *Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300 Systems)*, on page 10, for more information). If possible, position the speaker so that one of the mounting screws (not included; use size #10) can be installed directly into a wall stud. If that is not possible, use optional wall anchors that are rated to support at least 25 lb (11.3kg) and are appropriate for the construction and materials of your wall. The customer is responsible for the proper selection and use of mounting hardware, available through hardware stores, to wall-mount the speaker properly and safely.
- 2. Bring the speaker cable through the wall-bracket attachment plate as shown, and mount the attachment plate on the wall in the desired location.



3. Remove the rubber pads from the foot rests on the bottom of the center speaker and connect the speaker leads to the terminals on the underside of the speaker. Remember to observe the correct polarity. See *Connecting the Speaker Terminals (BDS 700 and BDS 300 systems)*, on page 15, for more information.



4. Use the supplied screws to attach the speaker to the wall-mount bracket. The screws thread into the center foot-rest openings that were exposed when you removed the rubber pads in the previous step.



Connections

CAUTION: Before making any connections to the BDS receiver, ensure that the receiver's AC cord is unplugged from the receiver and the AC outlet. Making speaker connections with the receiver plugged in and turned on could damage the speakers.

Speakers and receivers/amplifiers have corresponding (+) and (-) connection terminals. Your system's satellite speakers use red to denote the (+) terminal and black for the (-) terminal.

- The BDS 2 receiver uses white to denote the left channel (+) terminal and red for the right channel (+) terminal. Black is used to denote the (-) terminal of both channels.
- The BDS 5 receiver uses the following colors to denote the (+) terminals of the various channels:

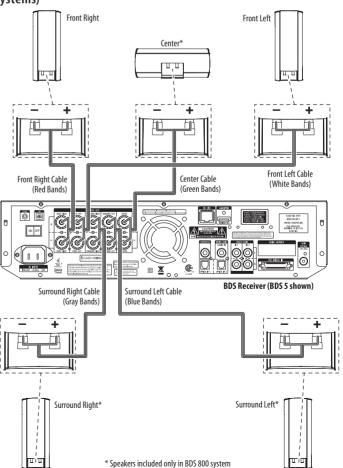
Front Left (+): White	Surround Left (+): Blue
Front Right (+): Red	Surround Right (+): Gray
Center (+): Green	
Black is used to denote the (-) ter	rminals of all channels on the BDS 5 receiver.

The speaker wires included with your system have colored bands at both ends of the (+) conductor; the colors correspond to the receiver's (+) terminal colors. This system helps you connect each speaker to the correct receiver or amplifier terminals. In addition to the colored bands at each end, each speaker wire's (+) terminal has ribs molded into its insulation to help identify it.

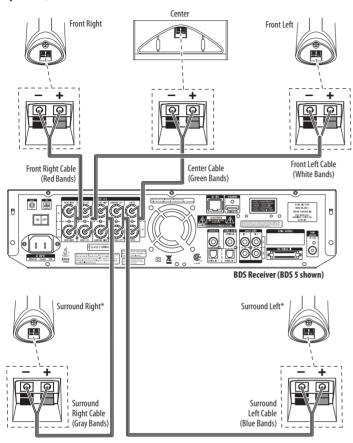
Be sure to connect each speaker identically: (+) on the speaker to (+) on the receiver or amplifier, and (-) on the speaker to (-) on the receiver or amplifier. Miswiring one or more speakers results in thin sound, weak bass and a poor stereo image.

CAUTION: Make sure the (+) and (-) bare wires do not touch each other or the other terminal. Touching wires can cause a short circuit that can damage your receiver or amplifier.

Connecting the Satellite and Center Speakers (BDS 800 and BDS 400 systems)

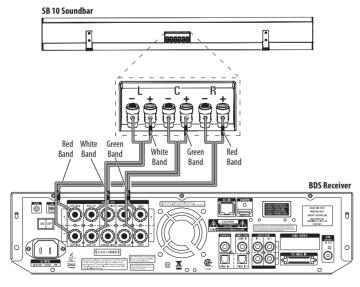


Connecting the Satellite and Center Speakers (BDS 700 and BDS 300 systems)

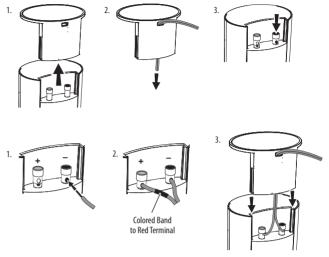


* Speakers included only in BDS 700 system

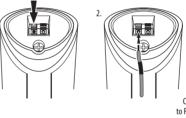
Connecting the Satellite and Center Speakers (BDS 600 system)

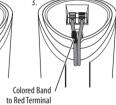


Connecting the Speaker Terminals (BDS 800 and BDS 400 systems)

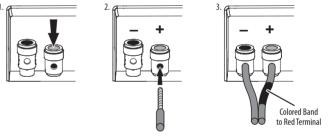


Connecting the Speaker Terminals (BDS 700 and BDS 300 systems)

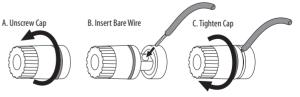




Connecting the Speaker Terminals (BDS 600 system)

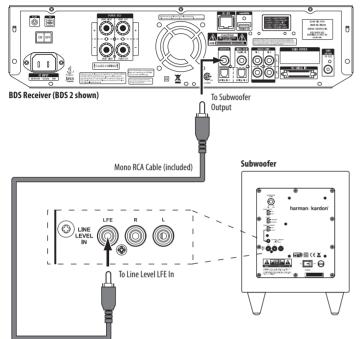


Connecting the Receiver Terminals (all systems)



Connecting the Subwoofer (all systems)

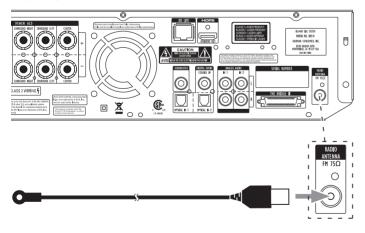
Use the supplied mono RCA audio cable (purple connectors) to connect the subwoofer's Line-Level LFE In connector to the BDS receiver's Subwoofer output.



IMPORTANT: Do not plug the subwoofer's AC power cord into an AC outlet at this time.

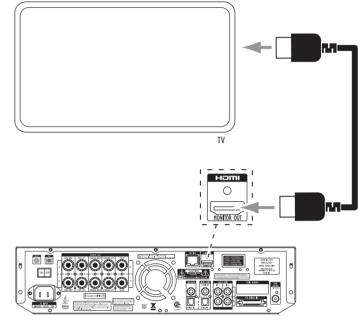
Connecting the Radio Antenna

Connect the supplied antenna to the Radio Antenna connection, as shown in the illustration below. Fully extend the antenna wire and move it to different positions until you get the best reception of your favorite stations.



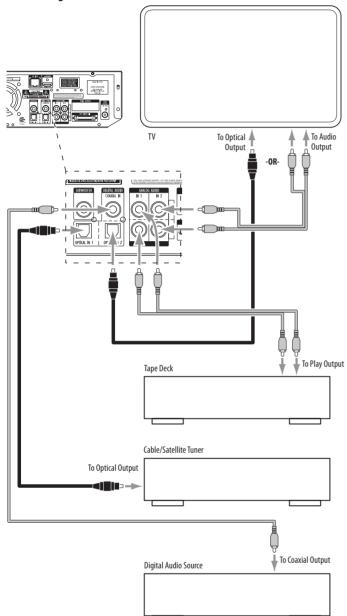
Connecting a TV or Video Display

Use the supplied HDMI cable to connect the BDS receiver's HDMI output to your TV/video display's HDMI input. The BDS receiver is HDMI version 1.3a.



NOTE: The HDMI connection will deliver both video and audio to your TV or video display. We suggest disabling your TV or video display's audio system to take full advantage of your BDS system's superior audio reproduction.

Connecting Audio Sources



Analog Audio Inputs 1 and 2: If you have an audio-only analog source component (such as a tape deck), connect its left and right analog outputs to the Analog Audio Input 1 or Analog Audio Input 2 jacks as shown in the illustration.

NOTE: To hear a TV show through your BDS system, you need to connect the audio output of your TV to the BDS receiver. If your TV has a digital-audio output, you can connect it to one of the BDS receiver's digital inputs (see below). If your TV does not have a digital-audio output, you will need to connect the TV's analog-audio output to the BDS receiver's Analog Audio Input 1 or Analog Audio Input 2 jacks.

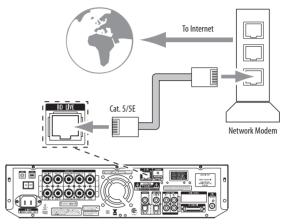
Coaxial In and Optical 1/Optical 2 In: If you have an audio-only digital source component (such as a CD changer or video game), you can connect it to one of these inputs, as shown in the illustration. When using the Optical 1 and Optical 2 digital connections, gently push the cable connector through the panel connector's built-in shutter until it is firmly seated in the connector.

NOTE: Use only one type of digital connection for each source component.

Connecting to a Local Area Network (LAN)

Use a CAT. 5/RJ45 network cable (not supplied) to connect the BDS receiver's BD-Live connector directly to a network router, a network switch, a network modem or an Ethernet network wall jack that has Internet access.

NOTE: The BDS receiver can not access content on other networked devices. The Network connection enables only the receiver's BD-Live features. See *BD-Live Interactivity*, on page 26, for details.



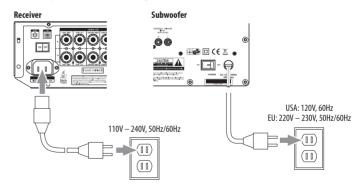
Connecting the AC Power

The BDS receiver comes with a detachable AC power cord. This type of cord makes it easier for you to install and connect all other system wiring to the receiver's rear panel. The subwoofer has a non-detachable power cord.

NOTES:

- The power requirement for the BDS receiver is 110V 240V AC, 50/60Hz, 110W (BDS 5 receiver) or 70W (BDS 2 receiver). The power requirement for the subwoofer is 110V 120V AC, 60Hz, 200W (USA) or 220V 240V AC, 50/60Hz, 200W (EU). Connecting to a power source other than the ones listed may damage the receiver or subwoofer, or cause abnormal operation.
- Before connecting the AC power cords to wall outlets, confirm that you have correctly
 made all of the speaker connections, video connections and audio-component
 connections.

Connect the female end of the receiver's detachable power cord to the receiver's AC Power Input connector. Plug the other end into a working, unswitched AC outlet. Plug the subwoofer's power cord into a working, unswitched AC outlet as well.



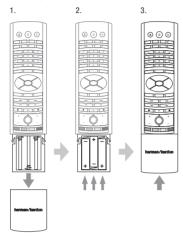
Set the receiver's and subwoofer's Main Power switches in the "On" position. The receiver's Power indicator will turn amber, indicating that the receiver is in the Standby mode.

 The subwoofer's LED will not light up until it receives a turn-on signal. See Subwoofer Controls and Connections, on page 7, for details.

Preparing the Remote Control

Installing the Batteries

Your BDS system remote control uses 3 AAA batteries (supplied). Insert the batteries as shown in the illustration, making sure to observe the correct polarity.



Using the Remote

When using the remote, remember to aim it toward the receiver's front panel. Make sure that no objects, such as furniture, block the remote's view of the receiver. Bright lights, fluorescent lights, and plasma-video displays may interfere with the function of the remote.

- The remote has a range of about 20 feet (6.1m), depending on the lighting conditions.
- You can use the remote at an angle of up to 30° to either side of the BDS receiver.

If the remote seems to operate intermittently, or if pressing a button on the remote does not cause one of the buttons to light up, make sure that the batteries are inserted correctly. If the remote still operates intermittently, replace all three batteries with new ones.

Programming the Remote

In addition to controlling the BDS receiver, you can program the remote to control one auxiliary (Aux) component. The remote is also capable of learning codes directly from other remotes. This ability allows you to combine learned commands with programmed codes, making the remote capable of controlling more than one Aux component. Typical Aux components would be your TV, a satellite receiver or a cable receiver.

The remote will control the Aux component(s) only when the Aux source button has been pressed. Pressing any other source button will put the remote back into the BDS receiver control mode.

To program the remote to control an Aux component:

- 1. Look up the codes for the product type (e.g. TV, cable TV box) and the brand name of your source in the *Aux Component Remote-Control Code List*, on page 31.
- 2. Turn your auxiliary component on.
- 3. Press and hold the Aux button for three seconds as it turns red, goes dark and turns *red* again. Then release the button.

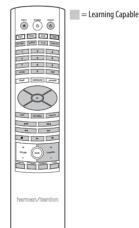
NOTE: The remote will remain in the programming mode for 20 seconds. You must perform Step 4 within 20 seconds.

- 4. Aim the remote toward the component you just turned on and enter a code number from Step 1, above. If the component turns off, check that its own remote-control buttons control the component as expected. If they do, press the Aux button again to save the code. The button will flash three times and the remote will exit the programming mode.
- If any of the buttons do not work as expected, or if the device does not turn off when you enter the code number, repeat Step 4 with another code number from the list for that manufacturer.

- 6. If you run out of codes, you can search through all of the codes in the remote's library for that product type.
 - a) Press and hold the Aux button for three seconds. The button will turn *red*, go dark and turn *red* again. Then release the button.
 - b) For a conventional US TV, enter "0999"; for a conventional EU TV, enter "1999"; for an HDTV, enter "2999"; for a US cable box, enter "3999"; for an EU cable box, enter "4999"; for a US satellite tuner, enter "5999"; for an EU satellite tuner, enter "6999."
 - c) Aim the remote control toward the component and press the remote's Cursor Up button. Each press of the button sends the "Power" signal for one setup code number. Holding down the Cursor Up button quickly scans through all of the setup code numbers.
 - d) Release the Cursor Up button as soon as the component turns off. If you pass the correct setup code number, you can return to it by pressing the Cursor Down button, one setup code number at a time, until the component turns back on.
 - e) Check that the other remote-control buttons control the component as expected. If they do, press the Aux source selector button again to save the code. The button will flash three times, and the remote will exit the programming mode.
 - f) If the remote does not operate as expected, repeat Steps c e. Note that some components may not respond to all of the above commands and may support only some of the commands listed.

To teach individual button codes to the remote:

You can teach codes from other component remotes onto the BDS receiver remote buttons shown shaded in the following illustration:



- 1. Place the BDS remote and the remote from which you want it to learn codes head-tohead about 1 inch (2.5cm) apart, with their IR transmitter windows facing each other.
- 2. Press and hold the Settings button on the BDS receiver remote for more than three seconds. The remote's Aux button will light up.
- 3. Press the button on the BDS receiver remote to which you want to teach the command. The Learn mode will remain active for 20 seconds after the button is pushed.
- 4. Press the button on the other remote that you want to "teach" to the BDS receiver remote. When the IR code has been received and stored, the Aux button's LED will flash three times, and the BDS receiver remote will remain in the learning mode, ready to learn another code. If no IR code is received within 20 seconds, the Aux LED will flash rapidly several times, and the remote will exit the learning mode. To resume programming, return to Step 2.
- Repeat Step 3 and Step 4 for each command you want to teach the BDS receiver remote. NOTE: If the Aux button's LED goes out at any time, you will need to begin again from Step 2.

Programming Remote Control "Punch-Through" Commands

After programming the remote to control an auxiliary (Aux) component, you can also program it so it will control the Aux component's channel up/down and transport functions (Play, Pause, etc.) even when the remote is not in the Aux-control mode. For example, if the

Preparing the Remote Control and Setting Up the Receiver

remote is programmed to operate your TV in the Aux control mode, you can also have the TV's channel +/- functions "punch through" and operate even when the remote is in the Disc, Radio or iPod control modes.

- 1. Press and hold the button for the main device the remote will be operating. The button will light up, go dark and then light up again. Release the button.
- 2. Select the type of punch-through programming.
 - a) For "punch-through" channel control, press the Channel Up button.
- b) For "punch-through" transport control, press the Play button.
- 3. Press the Aux button. The original source button will flash to confirm.

You can repeat Step 1 — Step 3 for any of the remote's source-selector buttons (Aux, Radio etc.). NOTE: "Punch-through" channel and transport commands will override the existing commands for those buttons in the source modes you program.

To undo "punch-through" programming, follow the same steps as above, but press the same source selector button in Step 1 and Step 3.

Using the Remote After it is Programmed

Pressing the remote's Aux source-selector button will put the remote into the auxiliarycontrol mode, and it will control the auxiliary component(s) via the codes you have programmed into it.

To switch the remote back to the BDS receiver-control mode from the auxiliary-control mode, press any one of these buttons: Disc, Radio, iPod or Home.

Setting Up the Receiver

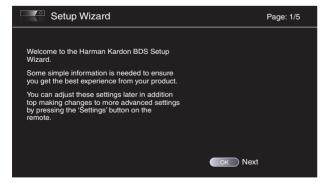
NOTE: The menu screens shown in this manual are for illustrative purposes and may differ somewhat from the actual displays.

To set up your BDS system, you will use the remote to navigate through all of the on-screen menus and make selections from them.

- Use the Cursor Up/Down buttons to navigate through the menu list. When an item is highlighted, a border will appear around it.
- To select a highlighted item, press the OK button. The screen will change depending on your selection.
- To return to the previous screen, press the Exit button.

Setup Wizard

When you turn your BDS receiver on for the first time, the on-screen menu will display the Setup Wizard.



Before you can use your BDS system, you need to set the language and make a few basic settings so that the BDS receiver's video output will work properly with your TV. Press the OK button and the Wizard's language screen will appear.



After setting the language you want the on-screen menus to use, press the OK button, and the Wizard's TV-resolution screen will appear.

Setup Wizard	Page: 3/5
Please select the highest resolution that your TV supports. If you are unsure, select 'Auto'. Upon making a selection the screen will be changed to the chosen resolution. You will be presented with the option to continue with the new resolution or 'Cancel' to return to the previous resolution. If the screen remains blank, please wait 15 seconds without pressing anything and the system will automatically return to the previous resolution.	Auto 480p/576p 720p 1080i 1080p
Previous	ок Next

After selecting your TV's highest resolution, press the OK button and the Wizard's aspect-ratio screen will appear. NOTE: If you're unsure of your TV's highest resolution, select "Auto," and BDS will automatically select the optimal resolution for you.



After selecting the aspect ratio that best fits your TV, press the OK button to save your setting, and then press it again to exit the Setup Wizard.

Setting Up the Receiver

BDS

Settings Menus

Pressing the remote's Settings button displays the receiver's settings menus, which allow you to configure the receiver's various functions. Use the remote's Cursor Left/Right buttons to change from one menu to another, use the Cursor Up/Down buttons to navigate through the lists that appear on the various screens, and use the OK button to select highlighted items. Press the Exit button at any time to return to the previous screen.

♦ Optimized a settings	\bigcirc	1
System		
Language		
Playback		
Parental Control		
Network		
Select to adjust general settings		

General Settings

General Settings		1
System	Front Panel Brightness	100%
Language	Screen Saver	Off
Playback	Auto Power Off	Off
Parental Control	System Upgrade	More
Network	Setup Wizard	
Select to adjust system	settings	

System: The System option allows you to set the following system features:

Front Panel Brightness: This option sets the brightness of the BDS receiver's information display.

Screen Saver: To prevent image burn-in, we recommended activating the Screen Saver when using the BDS receiver with a CRT or plasma TV.

Auto Power Off: This option sets the amount of time the BDS receiver remains on while idle until it automatically enters the Standby mode.

System Upgrade: Select this option when you want to install a BDS firmware upgrade for your BDS receiver that you've downloaded from a harman kardon Web site or other harman kardon source.

Setup Wizard: This option activates the receiver's Setup Wizard (see *Setup Wizard*, on page 19).

BD-Live Storage: This option lets you set up how the BDS receiver will handle stored BD-Live content. You can choose to store the content either in the receiver's internal memory or on a USB memory device via the receiver's USB port. See *BD-Live Interactivity*, on page 26, for details.

Restore Defaults: This option restores the receiver to its factory-default setting values. Note: This procedure deletes all preset FM stations and restores the parental-control password back to the factory default of 0000.

Language: This setting lets you set the language for the disc player and the disc menus, the preferred audio language and the preferred subtitle language.

NOTE: If the selected language is not available on the particular disc being played, use the disc's menu to set the language from those available on the disc.

Playback: The Playback option allows you to set the following disc playback features:

- Show Angle Icon: This option lets you select whether or not the angle icon will automatically be displayed when a disc with multiple camera angles is played.
- Auto Play: This option lets you select whether discs will automatically begin playing when they are loaded into the BDS receiver's disc player.
- Show PIP Icon: This option lets you select whether or not the picture-in-picture (PIP) icon will automatically be displayed when a Blu-ray Disc recording with PIP content is played.
- Show Secondary Audio Icon: This option lets you select whether or not the Secondary Audio Icon will automatically be displayed when a Blu-ray Disc recording with secondary audio content is played.
- Disc Resume: This option lets you select whether or not a disc that has been ejected while playing will resume play from that location when it is re-inserted into the receiver's disc player.
- **DivX® VOD DRM**: This option displays your receiver's DivX registration information.

Parental Control: This option lets you set the receiver's parental-control password and the level of parental control you want active. NOTE: The default password is 0000.

Network: This option allows you to set the following network features:

- Information: This option displays your network's IP, subnet mask, gateway and DNS addresses.
- Test Connection: This option tests for a proper network connection to the BDS receiver.
- IP Configuration: This option lets you enter your network settings, either automatically or manually. Unless your network administrator instructs you otherwise, you should use the Auto option.
- BD-Live Connection: This option lets you set the receiver's BD-Live connection
 preferences. "Always Allow" allows downloading of BD-Live content whenever a disc with
 BD-Live content is played. "Limit" allows downloading only if the disc is officially BD-Live
 certified. "Prohibited" does not allow any BD-Live access.
- Proxy Setting: "Enabled" allows you to select and set the Proxy Host and Proxy Port if your network requires a proxy setting. "Disabled" bypasses any Proxy Host and Proxy Port settings and prevents their selection. This option is for advanced users only and in most cases should be left set to "Disabled."

Display Settings



TV: This option allows you to set the following display parameters:

- Aspect Ratio: This option lets you select how you want 4:3 programs displayed on a
 16:9 TV, or 16:9 programs displayed on a 4:3 TV. "16:9 Full" stretches 4:3 material to fill
 a 16:9 TV screen. "16:9 Normal" displays 4:3 material on a 16:9 TV with black boxes on
 either side of the picture, preserving the program's original visual composition without
 distortion. "4:3 Pan & Scan" zooms in on widescreen material to fill a 4:3 screen. "4:3
 Letterbox" displays 16:9 material with black bars above and below the picture, preserving
 the program's original visual composition without distortion.
- **Resolution**: This option lets you select your TV's highest resolution. "Auto" automatically selects the best resolution for your TV.
- Film Mode: If your TV can handle a 1080p 24Hz signal (if it is 1080p resolution and has a video-refresh rate that is a whole-number multiple of 24), set Film Mode to "On" to get maximum resolution from Blu-ray Disc content mastered at 24 frames per second. If your display cannot handle a 1080p/24Hz signal, set this option to "Off," and the BDS receiver will upconvert 24-frame-per-second film material to the standard video 30Hz refresh rate.
- HDMI Deep Color: This option allows you to adjust the resolution of color output to your TV. If your TV accepts Deep Color, this option allows your TV to display an enhanced color palette.
- On: The BDS receiver outputs 36-bit Deep Color if your TV supports it. If your TV does not, the receiver will output 30-bit color.
- Off: The BDS receiver does not output Deep Color (color resolution remains at 24 bits).

Video Processing: This option allows you to set the BDS receiver's internal video processing.

Video Mode: This setting lets you select a preset video-processing option to optimize the picture for the current program by adjusting the brightness, contrast, color and sharpness:

- Standard: Neutral control settings
- Vivid: For video games
- Cinema: For movies and many television broadcasts
- Custom: This option lets you adjust the picture settings manually. The Brightness, Saturation (color saturation), Hue, Contrast, Sharpness and CTI settings appear as sliders. The default setting for each adjustment is 0. Use the Cursor Left/Right buttons to change each setting's value.

Audio Settings



Tone Controls: This option lets you increase or decrease the amount of bass (low frequencies) and treble (high frequencies) in the sound. The adjustment ranges from -10dB to +10dB, in 1dB increments.

Audio Output: This option lets you set the following items:

- HDMI Audio Out: In addition to digital video signals, the BDS receiver's HDMI connection also carries digital audio signals. Four settings are available:
 - Auto: This option causes the receiver's HDMI output to output the digital-audio format that best matches the surround-sound decoding capabilities of the component it's connected to.
 - Bitstream Native: This option outputs the program in its native audio format via the HDMI output.
 - PCM: This option outputs a two-channel downmix derived from the program's native audio format via the HDMI output.
 - Off: This option turns the receiver's HDMI audio output off. We recommend setting this
 option to "Off," so you can take full advantage of the superior audio capability of your
 BDS system's receiver and speakers.

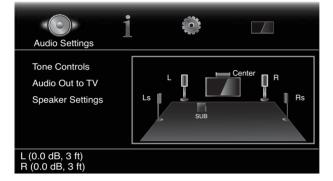
Dynamic Range Control: This setting makes the loud and quiet parts of a movie or music closer to the same volume (a process known as compression). Compression lets you turn up the volume so you can hear the quiet parts without the loud parts disturbing others. NOTE: This feature works only with Dolby Digital programs that have been specially encoded. Three settings are available:

- Off: Never applies compression. Use this setting when the volume may be as loud as you
 desire.
- On: Always applies compression. Use this setting when you want the volume to be as quiet as possible without making it difficult to hear spoken dialogue.
- Auto: Applies compression based on information encoded in the Dolby Digital bitstream. The receiver will selectively apply compression only during the most dynamic parts of the soundtrack.

Speaker Settings: This setting allows you to set up the receiver to work properly with the speakers included in your BDS system. The available configurations are:

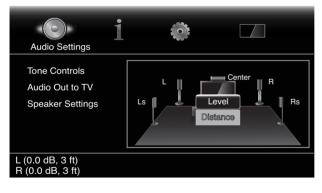
- 2.0: This configuration consists of left and right main speakers but no subwoofer. Selecting this configuration sends all of the bass to the left and right speakers, so be sure that they are full-range and can handle deep bass.
- 2.1: This configuration consists of left and right main speakers, plus a subwoofer. BDS 400 and BDS 300 systems are factory-set to this configuration.
- 3.1: This configuration consists of front left, center and front right speakers, plus a subwoofer. You must manually select this configuration for the BDS 600 system.
- 5.1: This configuration consists of front left, front right, center, surround left and surround right speakers, plus a subwoofer. BDS 700 and BDS 800 systems are factory-set to this configuration.

After you select your system's configuration, the speaker setup screen will appear (BDS 800 and BDS 700 5.1-channel system screen shown):

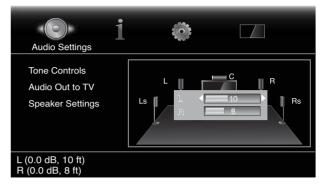


Setting the speaker distances:

1. The front left and front right speakers will be highlighted. Press the OK button. The Level and Distance selection screen will appear.



2. Press the Cursor Down button to highlight Distance, and press the OK button. The Distance adjustment bars will appear.



- 3. Measure the distance from the listening position to each of your system's speakers, including the subwoofer. Write down the distances.
- Use the left and right arrow buttons to adjust the "L" bar until it shows the distance you
 measured to the front left speaker (the arrowheads indicate which speaker is being
 adjusted).
- 5. Press the Exit button twice to return to the speaker setup screen (the front left and front right speakers will still be highlighted).
- 6. Press the Cursor Down button. The subwoofer will be highlighted. Press the OK button. The Level and Distance screen will appear.
- Repeat Steps 2 6 for the subwoofer. If you have a BDS 800, BDS 700 or BDS 600 system, repeat Steps 2 – 6 again for the center speaker, and if you have a BDS 800 or BDS 700 system, repeat Steps 2 – 6 again for the surround left and surround right speakers.
- 8. When you have entered the distances to all of your system's speakers, press the Exit button repeatedly until the harman kardon logo screen appears.

NOTE: Leave all the speaker levels set at "0" for now. You will be able to adjust the individual speaker levels once your system is set up and you're playing music or films. See *Adjusting Individual Speaker Volumes*, on this page.

Information Menu



The Information menu will display the receiver's software/firmware version number and the player's factory-assigned network MAC Address. This screen is for information only and allows no user adjustments.

Using the Receiver

NOTE: Before using your new BDS system, be sure to set the speaker distances, as explained in Audio Settings: Speaker Settings, on page 22.

Home Menu

Press the Home button to display the Home Menu screen:



The available sources are listed on the left

If a disc has been inserted into the receiver's built-in disc slot, it will appear on the list as either "CDDA" (CD), "DVD Video" (DVD) or "Blu-ray Disc."

NOTE: Audio sources connected to the receiver's rear-panel digital and line inputs will not appear on the list.

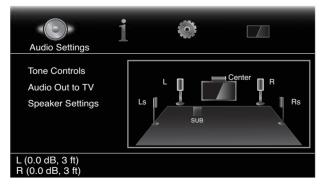
To select a source from the list, use the remote control's Cursor Up/Down buttons to highlight the desired source, then press the OK button to select it. To use the Playlist function, see Using Playlists, on page 29.

You can also select a source directly by pressing its button (Radio, Aux, etc).

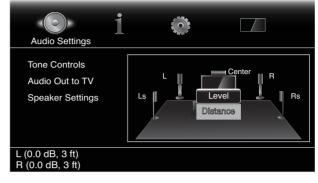
Adjusting Individual Speaker Volumes

You can adjust the volumes of the system's individual speakers while you're listening to music or watching films.

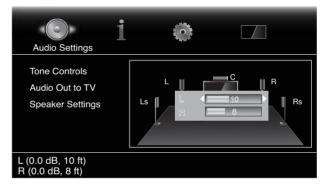
- 1. Press the Settings button. The Settings menu will appear.
- 2. Select the Audio option. The Audio menu will appear.
- Select Speaker Settings, then select Configuration, and then select your system's speaker 3. configuration. After you select your system's configuration, the speaker setup screen will appear (BDS 800 5.1 system screen shown).



4. The front left and front right speakers will be highlighted. To adjust either of them, press the OK button. To adjust a different speaker, use the cursor buttons to highlight it and press the OK button. The Level and Distance selection screen will appear.



5. Make sure that Level is highlighted, and press the OK button. The Volume adjustment bars will appear.



- 6. Select the speaker you want to adjust, and use the left and right arrow buttons to adjust its volume. You can vary the volume from +10dB to -10dB, in 1dB increments.
- 7. Press the Exit button twice to return to the speaker setup screen (the front left and front right speakers will still be highlighted). To adjust the volume of a different speaker, use the cursor buttons to highlight it and press the OK button. Repeat Steps 5 - 6 for that speaker.
- 8. When you are finished adjusting the volumes of all of your system's speakers, press the Exit button repeatedly until the harman kardon logo screen appears.

Notes on Setting Speaker Volumes in 5.1-Channel Systems:

While setting your system's individual speaker volume levels is ultimately up to your personal taste, here are some ideas you may find helpful:

- For films and video-music programs, your overall goal should be to create an enveloping, realistic sound field that draws you into the film or music program without drawing your attention away from the action on the screen.
- For multichannel music recordings, some music producers will create a sound field that places the musicians all around you; others will create a sound field that places the musicians in front of you, with more subtle ambience in the surround speakers (as you would experience in a concert hall).
- In most 5.1-channel films, the surround channels are not intended to be as loud or as active as the front channels. Adjusting the surround speakers so they are always as loud as the front channels could make dialogue difficult to understand and will make some sound effects sound unrealistically loud.

Notes on Setting Subwoofer Volume:

- Sometimes the ideal subwoofer volume setting for music is too loud for films, while the ideal setting for films is too quiet for music. When setting the subwoofer volume, listen to both music and films with strong bass content and find a "middle ground" volume level that works for both.
- If your subwoofer always seems too loud or too quiet, you may want to place it in a
 different location. Placing the subwoofer in a corner will always tend to increase its bass
 output, while placing it away from any walls or corners will always tend to lessen its bass
 output.

IMPORTANT: Do not turn the receiver's volume up to or past the point where the audio from the speakers becomes distorted. Doing so can damage the speakers.

Surround-Sound Modes

Your BDS receiver can decode and play audio programs in these native audio formats:

- Dolby Digital
- Dolby Digital Plus
- Dolby TrueHD
- DTS Digital
- DTS-HD High Resolution Audio
- DTS-HD Master Audio[™]
- PCM
- WMA (DRM-free version only): WMA9, CBR @192kbps, VBR @ 355kbps
- MP3: 32kbps 320kbps bitrates, including variable bitrate encoding

The audio formats available for any particular program depend on the program and on how you have configured your BDS receiver in the *Audio Settings* menu:

Available Audio Formats

	Artuna bic	Addit Formats			
	2.0- and 2.1- Channel Setup Configuration	3.1-Channel Setup Configuration	5.1-Channel Setup Configuration		
2.1-Channel Programs	Dolby Virtual Speaker Wide (default)/Dolby Virtual Speaker Reference/ Stereo	Dolby PLII Movie (default)/Dolby PLII Music/Dolby Virtual Speaker Wide/Dolby Virtual Speaker Reference/ Stereo	Original (default)/ Dolby PLII Movie/ Dolby PLII Music/Dolby Virtual Speaker Wide/ Dolby Virtual Speaker Reference/Stereo		
3.1-Channel Programs	Dolby Virtual Speaker Wide (default)/Dolby Virtual Speaker Reference/ Stereo	Original (default)/ Dolby Virtual Speaker Wide/ Dolby Virtual Speaker Reference	Original (default)/ Dolby PLII Movie/ Dolby PLII Music/Dolby Virtual Speaker Wide/ Dolby Virtual Speaker Reference/Stereo		
4.1-/5.1- /6.1- Channel Programs	Dolby Virtual Speaker Wide (default)/Dolby Virtual Speaker Reference/ Stereo	Dolby Virtual Speaker Wide (default)/Dolby Virtual Speaker Reference/ Stereo	Original (default)/ Dolby Virtual Speaker Wide/ Dolby Virtual Speaker Reference		

To switch between the available surround-sound modes for the program currently playing, press the Surround button. Each press of the Surround button will change to the next available mode in line. A pop-up display will appear on the TV, showing the modes as you cycle through them.

Listening Through Headphones

Your BDS receiver's headphone connection accepts a standard 3.5mm stereo headphone plug. When you insert the headphone plug into the connector, the receiver's speaker outputs will mute; the HDMI audio output will not mute.

When headphones are connected to the receiver's Headphone connector, pressing the remote's Surround button cycles between these two modes:

- HARMAN Headphone, which virtualizes a multichannel surround soundtrack down to two channels. This mode retains the soundtrack's original directional cues, allowing you to enjoy an enveloping surround-sound experience on any ordinary pair of stereo headphones.
- Headphone Bypass, which downmixes surround-sound programs into normal stereo. This mode does not retain any multichannel directional cues that may be in the original surround-sound program.

Using the Disc Player

Disc Handling Precautions

• To keep the disc clean, handle the disc by its edge. Do not touch the surface.



- Do not stick paper or tape on the disc. If there is glue (or a similar substance) on the disc, remove the substance completely before using the disc.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it
 in a car parked in direct sunlight, as there can be a considerable rise in temperature inside
 the car.
- After playing, store the disc in its case.
- Do not write on the label side with a ballpoint pen or other sharp writing utensils.
- Be careful not to drop or bend the disc.

Disc Cleaning Precautions

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzene, paint thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

Regional Coding

BDS receivers sold in the USA are designed only for playback of discs with Blu-Ray Disc region code A and DVD Region Code 1 information, or for discs that do not contain any region code information. BDS receivers sold in Europe are designed only for playback of discs with Blu-ray Disc region code B and DVD Region Code 2 information, or for discs that do not contain region code information.

If there is a region code on a disc other than the one your BDS receiver is designed for, it will not play in the receiver's disc player.

Copyright

Audio-visual material may consist of copyrighted works, which must not be recorded without the permission of the owner of the copyright. Please refer to relevant laws covering copyright protection.

Copy Protection

Your BDS receiver is in compliance with HDCP (High-Definition Copy Protection), and a video display connected via the HDMI output must also be HDCP-compliant.

The BDS receiver supports Macrovision copy protection. On Blu-ray Disc recordings and DVD discs that include a copy-protection code, if the contents of the disc are copied using a VCR, the copy-protection code prevents the videotape copy from playing normally.

Supported Disc Formats

The BDS receiver can play the following types of discs (in 5"/12cm and 3"/8cm size):

- BD-Video (single-layer or double-layer)
- DVD-Video
- DVD+R/+RW
- DVD-R/-RW
- CDDA (CD digital audio)
- CD-R/RW

NOTE: The compatibility and performance of dual-layer discs is not guaranteed.

Supported Media Codecs

The BDS receiver can play media recorded in the following audio/video codecs:

- MPEG 1, Layer 1
- MPEG 2, Layer 2
- MPEG 2, Layer 3
- H.264
- VC-1
- MP3 (from CD-R/RW, DVD+R/+RW, BD-R/RE and USB)
- JPEG (from CD-R/RW, DVD+R/+RW, BD-R/RE and USB)
- DivX 3.x/4.x/5.x (from CD-R/RW, DVD+R/+RW and USB)
- WMA (WMA9, CBR at 192kbps, VBR at 355kbps, DRM-free)

NOTE: Due to differences in the formats of certain discs, some discs may include a mix of features, some of which are not compatible with the disc player. Similarly, although Blu-ray Disc recordings and DVDs are capable of a wide range of features, not every disc includes every capability of its system. For example, although the BDS receiver is compatible with multi-angle discs, the multi-angle feature is possible only when the disc is specially encoded for multiple-angle play. To make certain that a specific feature or soundtrack option is available, please check the options noted on the disc jacket.

The playback capability of recordable discs may vary due to variations in the quality of the disc and the recorder used to create the disc.

Loading and Playing Discs

Hold the disc horizontally when loading it, and insert it gently into the Disc slot. The disc loading mechanism will take the disc and slide it into the unit.

- Do not load more than one disc into the Disc slot.
- Do not load the disc upside down.

After loading a disc into the player, press the Play button to begin playback.

Use the Play, Pause, Stop, Prev/Step, Next/Step, Search Down/Slow and Search Up/ Slow buttons to control disc playback. See *Remote Control Functions*, on page 8, for more information about the functions of these buttons.

Playback Features

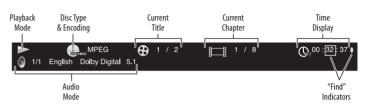
Repeat: When you are playing a Blu-ray Disc recording or DVD, pressing the Repeat button cycles through the following repeat modes: Chapter, Title, All, Off. When you are playing a CD, this button cycles through the following repeat modes: Track, All, Off.

A-B: When playing a Blu-ray Disc recording, DVD or music CD, pressing the A-B button places the player into the A-B repeat mode. The first press sets the "A" repeat point; the second press sets the "B" repeat point and begins repeating the section of the disc between the two points. Pressing the A-B button while the player is in the A-B repeat mode takes the player out of that mode. NOTE: This feature is disc-dependent. Not all Blu-ray Disc recordings support A-B repeat.

Find: Pressing the Find button during disc playback activates the search function, allowing you to jump to a specific location on the disc. You can find a location by title, chapter or time. See *Top Menu Button* (below) for more information. NOTE: Not all discs allow searching by title. On these discs, use the disc menu to change titles.

Options: Pressing the Options button displays any available options for the currentlyplaying disc. Blu-ray Disc options include title, chapter, time display, audio options, angle options and subtitle options. DVD options include title, chapter, time display, playback modes, audio options and angle options. Audio CD options include track selection, time display, playback modes, bitrate, instant search and instant replay.

Display Button: When playing Blu-ray Disc recordings and DVDs, pressing the Display button toggles the information bar on and off.



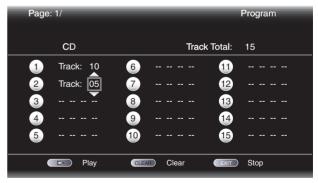
Top Menu Button: Pressing this button displays the top menu for the Blu-ray Disc recording or DVD that is currently playing. NOTE: This feature is disc-dependent. Not all DVDs have top menus. If the DVD has no top menu, pressing the Top Menu button may display the disc menu, depending on how the disc's menu system was authored.

Popup Button: Pressing this button while playing a Blu-ray Disc recording displays the pop-up menu. (DVDs will display the disc menu.) NOTE: If the Blu-ray Disc recording does not support a pop-up menu, the disc menu will be displayed.

Bookmark Function: The bookmark function lets you mark up to 12 locations on the disc currently playing. Press the Bookmark button to mark the current location on the disc. To play the disc from one of your selected bookmark locations, hold the Bookmark button to display the bookmark list. Use the Navigation left/right buttons to select the desired bookmark, and press the OK button to play the disc from that location. NOTE: The bookmark function is disc-dependent. Not all discs allow bookmark operation.

Programmed Play: This option lets you create a programmed playlist for a disc. The program function works for CDs, DVDs and some Blu-ray Disc recordings (not all Blu-ray Disc recordings allow programmed play).

1. Press the Program button. The Program screen will appear.



2. Press the OK button and use the Navigation Up/Down buttons to select the title on the disc (Blu-ray Disc/DVD) or track (CD) for your first program entry.

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- 3. Press the right Navigation button and use the Navigation Up/Down buttons to select the chapter for your first program entry (Blu-ray Disc/DVD only).
- 4. Repeat Steps 2 3 for every entry in your programmed list.
- 5. When you're finished programming your list, press the Play button to play the list.

The programmed list will remain active until the list has completed playing. Pressing the Stop button twice or ejecting the disc deletes the programmed list.

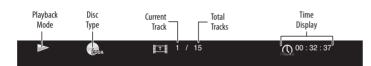
BD-Live Interactivity

BD-Live interactivity is available on select Blu-ray Disc recordings. When you select the BD-Live features from a disc's menu, you may be able to download additional content or other information via the Internet (through the Network connection).

If you have difficulty accessing the Internet while using a BD-Live disc, press the Settings button and navigate to the Network Setup menu. Select "Test Connection." If the BDS receiver is able to access the Internet, then the computer server the BD-Live disc is trying to access may be at fault. Check the disc jacket for more information or contact the content provider. If the "Test Connection" function fails, contact your Internet service provider (ISP) to obtain the correct settings for the BDS receiver's IP Configuration menu. If the problem persists, contact your ISP for further assistance.

Playing Music CDs

When the BDS is playing a music CD, the top bar shows the current playback mode icon, the type of disc, the track currently playing, the number of total tracks on the disc and the time display.



Listening to Your iPod/iPhone

Playing iPod Content

Insert your iPod or iPhone into The Bridge IIIP dock and press the BDS remote control's iPod button. If the Home screen is displayed, highlight iPod and press the OK button. The iPod Now Playing screen will appear on the TV.



NOTE: The BDS receiver will not play video content stored on the iPod or iPhone.

In addition to playing the iPod through the system, pressing the iPod button places the remote in the iPod control mode. Use the following remote control buttons to browse and select content on your iPod and to control your iPod during playback:

Cursor and OK Buttons: Use these buttons to navigate and select items from the iPod menus.

Exit Button: Pressing this button while playing content displays the iPod menu. Pressing this button while a menu is displayed exits that menu and displays the previous screen.

Previous/Step Button: Press this button once to skip to the beginning of the current track. Press the button twice to skip to the beginning of the previous track.

Next/Step Button: Press this button to skip to the beginning of the next track.

Search/Slow Reverse Button: Press this button to search backward through the current track.

Search/Slow Forward Button: Press this button to search forward through the current track.

Stop Button: Press this button to stop playback.

Play Button: Press this button to play the item appearing on the receiver's display.

Pause Button: Press this button to pause the item that is playing. Pressing this button while the iPod is paused will resume play.

Channel +/- Buttons: Pressing the Channel + button moves up ten items in the open menu. Pressing the Channel – button moves down ten items in the active menu. Use these buttons to navigate through long menu lists quickly.

Home Button: Pressing the Home button will switch the display to the Home screen while you continue to hear the iPod content through the BDS system. To display the iPod Now Playing screen again, press the Exit or Cursor Left button.

Red Button: Pressing the red button will toggle between the following modes: Random play (albums), Random play (songs), Random off.

Repeat Button: Pressing the Repeat button will cycle the iPod between Repeat Song, Repeat All, Repeat Off.

Receiver Information Display

When songs are playing, the display's top line will scroll "Artist <Artist Name>,""Song <Song Name>."The display's bottom line will show the time according to the iPod time display. When the iPod is in the menu mode, the receiver's display will mimic the behavior of the menu that is active on the iPod screen.

Using the Radio

Press the Radio button on the remote control, or if the Home screen is displayed on the TV, highlight Radio and press the OK button. The Radio Now Playing screen will appear on the TV.



The top line of the receiver's information display will show the currently tuned-in FM frequency; the bottom line of the display will show the RDS information for the currently-tuned station (if available).

In addition to playing the radio through the system, pressing the Radio button places the remote in the radio-control mode. Use the following remote-control buttons to control the receiver's FM radio:

Cursor Up/Down Buttons: Pressing these buttons increases or decreases the tuned frequency by 0.05MHz.

Using the Radio, Listening to Audio Sources and Playing Files from USB Devices and CD Data Discs

ENGLISH

OK Button: Pressing this button sets the currently tuned-in frequency as a preset station. See Setting and Recalling Preset Stations, below, for details.

Previous/Step Button and Next/Step Button: Pressing these buttons scans to the next higher or lower receivable radio station.

Search/Slow Reverse Button and Search/Slow Forward Button: Pressing these buttons scans to the next higher or lower receivable radio station.

Channel +/- Buttons: Pressing these buttons changes to the next higher or lower preset station

Number Buttons: Pressing a number button or a combination of number buttons will change to the corresponding preset station. See Setting and Recalling Preset Stations, below, for details

Home Button: Pressing the Home button will switch the TV to the Home screen while the radio continues to be heard through the BDS system. To display the Radio Now Playing screen again, press the Exit or Cursor Left button.

Setting and Recalling Preset Stations

You can set up to 30 preset stations for easy recall.

To set the currently tuned-in station as a preset:

- 1. Press and hold the OK button for three seconds. The bottom line of the receiver's information display will read "Set Preset ___," with the "___" characters flashing.
- 2. Use the number buttons to enter the preset number you want the current station saved to. If you do not enter a number within ten seconds, the display line will revert back to the RDS text readout for the current station.

To listen to a preset station:

Press the Channel + or Channel - button. The radio will tune to the next higher or lower preset station.

- OR

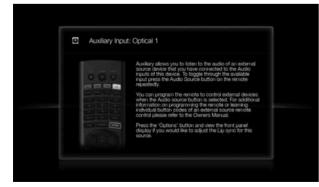
Use the number buttons to enter the preset number.

- For presets 1 9, press the corresponding 1 9 button.
- For presets 10 and higher, press the "0" button, then use the number buttons to enter the preset number.

Listening to Audio Sources

Press the Aux button on the remote control. The receiver will switch to the audio input that was selected last. Subsequent presses of the Aux button will advance through the audio inputs in the following order: Coaxial Digital, Optical Digital 1, Optical Digital 2, Analog L/R 1 and Analog L/R 2.

The Aux Input Now Playing screen will appear on the TV.



In addition to plaving the Aux source through the system, pressing the Aux button places the remote in the Aux-control mode. If you programmed the remote to control auxiliary components (either by entering in a code number or teaching commands to the remote), the remote will now operate according to that programming.

Lip Sync Delay: When playing an Aux source, audio and video processing circuitry may create a slight delay between the picture and sound. Pressing the Options button lets you adjust the audio delay to eliminate "lip sync" errors that may occur between the sound and picture in video programs with sound playing through one of the receiver's rear-panel audio inputs. Use the Cursor Up/Down buttons to increase or decrease the audio delay until the perceived lip-sync errors disappear and the sound and picture are properly synchronized.

Playing Files from USB Devices and CD Data Discs

Your BDS receiver can play MP3 (up to 320kbps bitrate) audio files, display JPEG photos and show MPEG 1 (layer 1), MPEG 2 (layers 2 and 3), and DivX home theater profile audio/video files stored on a USB device or a CD data disc.

IMPORTANT: Only media in the FAT32 file system are compatible with your **BDS receiver**.

To access files on a device inserted into the receiver's USB port, press the Home button and select USB from the source list on the screen.

Hom	e Menu		
- - -	USB FM Radio Playlist Settings		Type:USB Size:595.375M FS:FAT32
1 / 4		HOME Exit	OPTIONS Option

rdless of the device's file structure, the screen wil ed "Photo," "Music" and "Video." Select the type of folders.	
∎ 🚰 USB	
Image: Constraint of the second se	Type:Folder

HOME) Exit The screen will then show the device's file structure. Selecting a folder will show all files of the selected type of media in the folder. If there are files of the selected type in the device's

Dotion

To move up one directory level, press the Cursor Left button or select the arrow folder.

Rega

nam three

1/3

root directory, they will also be shown.

Viewing Photos

In the top directory, select "Photo." Select a folder containing photo files and highlight a photo file in the folder. A thumbnail of the highlighted photo will appear on the right of the screen.



Use these remote buttons while viewing photos:

Play Button: Press this button to begin a slide show that displays the photos in the current folder or directory level (starting with the highlighted JPEG) for 15 seconds in the order they appear in the folder.

Pause Button: Press this button to freeze the current photo on the screen. Press the Play button to resume the slide show.

Stop Button: Press to end the slide show and return to the directory.

Next/Step and Previous/Step Buttons: Press these buttons to skip to the next or previous photo file in the slide show or directory.

Cursor Up Button: Pressing this button while a photo is displayed rotates the photo 180°. Pressing this button while the directory list is displayed highlights the previous item in the directory.

Cursor Down Button: Pressing this button while a photo is displayed shows a mirrorimage reflection of the photo. Pressing this button while the directory list is displayed highlights the next item in the directory.

Cursor Left Button: Pressing this button while a photo is displayed rotates the photo 90° counterclockwise. Pressing this button while the directory list is displayed jumps to the next higher directory level.

Cursor Right Button: Pressing this button while a photo is displayed rotates the photo 90° clockwise.

Options Button: Pressing this button while a photo is displayed shows the Options menu, which gives you the following options:

- File: Select a file to view.
- Play Mode: View files in their normal order, in random order (until you press the Stop button) or in shuffle order (the screen displays each image in the folder one time in random order, then returns to the directory).
- Slide Show: Select fast (to display each image for five seconds), middle (to display each image for 15 seconds) or slow (to display each image for 30 seconds) slide-show speed.
- Transition: Select from various types of image-to-image transitions (fade, wipe, etc).

Pressing the Options button when a directory is displayed shows the Playlist Options box. See *Using Playlists*, on page 29, for more information.

Thumbnail (yellow) Button: Pressing this button while playing a slide show displays thumbnail images of all photos in the slide show. Use the Cursor and OK buttons to highlight and select images to view.



Zoom (blue) Button: Pressing this button during a slide show freezes an image and zooms in 2x size. Additional presses of the button change the zoom to 3x, 4x, 1/2x, 1/3x and 1/4x size.

Playing Music Files

In the top directory, select "Music." Select a folder containing music files and highlight a music file in the folder. Information about the highlighted file will appear on the right of the screen.



Selecting a music file plays the file. If there are other music files in the folder that follow the selected file, the receiver will play them in the order they appear on the on-screen display. The following screen will appear while music files play:



If a selected MP3 file has an album cover-art ID3 tag, the art will be displayed on the screen.

Playing Files from USB Devices and CD Data Discs and Using Playlists

Use the Play, Pause, Stop, Prev/Step, Next/Step, Search Down/Slow and Search Up/Slow buttons to control music-file playback. See *Remote Control Functions*, on page 8, for more information about the functions of these buttons.

When the BDS is playing music files from a USB device or CD data disc, the Repeat and Options functions are slightly different from their functions when the unit is playing Blu-ray Disc recordings, DVDs and music CDs:

Repeat Button: Pressing this button cycles through the following repeat modes: 1 (song), All (folder), Off. The active repeat mode is indicated in the screen's top bar.

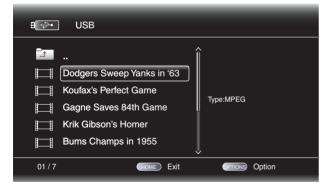
Options Button: Pressing this button displays any available options for the song currently playing:

- File: Select a song to play.
- Time: Display the track's elapsed time or the track's time remaining.
- Play Mode: Plays songs in their normal order, in random order (until you press the Stop button) or in shuffle order (plays each song in the folder one time in random order, then returns to the directory).
- Bitrate: Shows the bitrate of the song currently playing.
- Advance: Performs a rapid audible search forward through the song.
- Replay: Each press of the OK button jumps back ten seconds during play.
- Transition: Select from various types of image-to-image transitions (fade, wipe, etc).

While playing music files from a USB device or data CD, you can also view photos that are on the same media. Press the Home button while the music file is playing, navigate to a folder containing photo files, and select a photo file to begin a slide show.

Playing Videos

In the top directory, select "Video." Select a folder containing video files and highlight a video file in the active folder.



The video will automatically play. If there are other video files in the folder, the BDS receiver will play each one in the order they appear on the on-screen menu.

Use the Play, Pause, Stop, Prev/Step, Next/Step, Search Down/Slow and Search Up/Slow buttons to control music file playback. See *Remote Control Functions*, on page 8, for more information about the functions of these buttons.

When the BDS is playing video files from a USB device or CD data disc, the Repeat and Options functions are slightly different from playing Blu-ray Disc recordings and DVDs:

Repeat Button: Pressing this button cycles through the following repeat modes: 1 (current video), All (folder), Off.

Options Button: Pressing this button displays any available options for the song currently playing:

- File: Select a file to play.
- Title: Select a title to play (if available).
- Chapter: Select a chapter to play (if available).
- Time: Display the elapsed time or the time remaining.
- Play Mode: Plays videos in their normal order, in random order (until you press the Stop button) or in shuffle order (plays each video in the folder one time in random order, then returns to the directory).
- Audio: Select audio options (if available).

Using Playlists

Because USB devices and CD data discs can contain large numbers of playable files, you can create a playlist for each disc to help you to access selected files.

To Create a Playlist

NOTE: The procedure is the same for a CD-R playlist and a USB playlist.

- 1. Press the Home button. The Home menu will appear.
- 2. Select CD data disc or USB. The Photo, Music and Video folders will appear.
- 3. Select the type of file you want to create the playlist for. You can create a playlist for each type of file.
- Search through the directory structure. When you see a file that you want to include in the playlist for that file type, highlight it and press the Options button. The playlist options box will appear.
- 5. To add the item to the playlist, select "Add to Playlist."
- 6. Repeat steps 4 5 for all items that you want to add to the playlist.

To create a playlist for a different file type, repeat steps 1-6; but in step 3, select a different file type.

To Play a Playlist

- 1. Press the Home button. The Home menu will appear.
- 2. Select Playlist. The Photo/Music/Video screen will appear.
- 3. Select the file type of the playlist you want to play. The playlist will open.
- 4. Select the first item in the playlist and press the Play button. The playlist will play.

To repeat the playlist, press the Repeat button. You can repeat one item ("1") or the entire playlist ("All").

Troubleshooting

If your BDS system isn't performing the way you think it should, check to see if the problem is covered in this section before calling your dealer or contacting a harman kardon representative.

Problem	Solution
The receiver won't power up (the Power indicator is not lit):	• Check that the receiver's Power cord is properly plugged into the receiver's AC Power Inpu connector.
	• Check that the Power cord is plugged into a working AC outlet. If the outlet is controlled by a switch, make sure the switch is set in the "On" position.
	 Check that the receiver's Main Power switch (located on the rear panel) is in the "On" position.
Sound plays through the BDS system speakers, but there is no TV picture:	Check the HDMI connection between the receiver and the TV.
	Check that the TV is turned on and is set to the proper input source.
	Unplug the HDMI cable from the TV and plug it back in again.
There is no sound coming from just the subwoofer:	Check that the subwoofer's Power cord is plugged into a working AC outlet.
	Check that the subwoofer's Power switch is in the "On" position.
	 Check that the Subwoofer Level control is not turned all the way down (fully counterclockwise).
	 Check that the audio connection between the receiver and the subwoofer has been properly made.
	• Check the receiver's Settings: Configuration menu to make sure that the subwoofer volume has not been set at -10dB.
There is a constant hum in the sound:	Check that all input cables are plugged all the way into their connectors.
	Check that all cables are at least 10 ft (3,5m) from fluorescent lights.
	 Check that all cable connectors are clean. If necessary, wipe them with a cloth slightly moistened with alcohol.
	 Set the subwoofer's Power switch to "Off." If the hum goes away, there is a ground loop between the subwoofer and the receiver. Plugging the subwoofer's Power cord into the same AC outlet that the receiver is plugged into should eliminate the ground loop.
The disc does not play:	Check that the disc is inserted correctly (label side up).
	 Check that the disc is the correct type: BD-Video (single-layer or double-layer), DVD-Video, DVD+R/+RW, DVD-R/-RW, CDDA (CD digital audio), CD-R/RW. Other disc types will not play
	Check that the disc surface is clean and not scratched.
There is noise or other interference in the picture while playing a Blu-ray Disc recording or DVD:	Check that the disc surface is clean and not scratched.
The sound and picture are out of sync when listening to an Aux source:	 Press the Options button and perform the Lip Sync adjustment to bring the sound and picture into synchronization.
Cannot tune in radio stations:	Check that the FM antenna is correctly connected.
	 Adjust the antenna's position. If necessary, use a powered FM antenna or an outdoor FM antenna.
The receiver does not respond to remote-control commands:	• Replace all three remote-control batteries with fresh ones, and make sure that they are installed with the correct polarity.
	Hold the remote closer to the receiver.
	• Check that the receiver's remote sensor is in the line of sight of the remote control.
The remote does not control programmed components (TV or video):	Check that you have pressed the remote's Aux button before trying to operate the component.
	Re-program and/or re-teach the component's commands into the remote.
The Ø symbol appears on the screen when you press a remote-control button:	• The selected function is not permitted at the time you press the button.
The receiver does not respond to commands, or it behaves in an erratic way:	• Unplug the receiver's Power cord from the AC outlet, wait 30 seconds, then plug it back in.
You can find additional troubleshooting information in the FAQs link on the Support page at www.harmankardon.com.	

ENGLISH

Aux Component Remote-Control Code List

TV/DVR							TV/DVR						
Manufacturer	Code N	lumbers					Manufacturer	Code N	lumbers				
ADMIRAL	0192	0123	1088	1105			DAYTRON	0132	0128				
AIWA	1110						DECCA	1091	1032				
AKAI	1011	1020	1022	1042	1053	1056	DECCA (UK)	1038					
	1089	1093					DEGRAAF	1015					
ALBA	1020	1040					DISH NETWORK	2012					
ANAM	0122	0112	0109	0106	0045		DIXI	1022					
AOC	0128	0123	0122	0037			DUMONT	1201	1199	1096	1088	1023	
APEX	2014	2016					DUMONT-FINLUX	1044	1012				
ARC EN CIEL	1017	1019	1024	1056	1059		DYNATECH	0063					
ARCAM	1017						DYNATRON	1022	1020				
ARISTONA	1022 1060	1023 1086	1025	1033	1047	1048	DYNEX	0014					
ASA	1012	1023	1088	1096	1201		ELECTROHOME	0132	0115				
AUDIOVOX	0012	1025	1000	1070	1201		EMERSON	0205	0162	0159	0158	0157	0139
AUTOVOX	1025	1044	1088					0132	0128	0123	0045	1195	1088
BANG & OLUFSEN	1088						FUJITSU	0041	0042				
BARCO	1202						FUNAI	0045					
BASICLINE	1020						FUTURETECH	0045					
BAUR	1075	1076	1077	1102			GE	0163 0121	0159 0087	0145 0029	0133	0128	0123
ВЕКО	1022						GRUNDIG	0193		0027			
BLAUPUNKT	0084	1011	1075	1076	1077		HALL MARK	0128					
BRANDT ELECTRONIQUE	1017	1019	1024	1056	1059		harman kardon	0201					
BRION VEGA	1023	1088	1203				HITACHI	0147	0144	0132	0128	0123	
BROCKSONIC	0206	0205					НҮТЕК	0016					
BUSH	1010	1020	1040	1043	1092		INKEL	0120					
BUSH (UK)	1044						JCPENNEY	0145	0132	0128	0123	0115	
CENTURY	1023	1088					JENSEN	0019					
CITIZEN	0132	0128	0123	0045			JVC	0134	0087	0079			
COMTEL	1032						KEC	0045					
CONTEC	0045						KLH	0006					
CONTINENTAL EDISON	1017	1019	1024	1056	1059		KTV	0162	0132	0123	0045		
CRAIG	0159	0158	0157	0045			LG (GOLDSTAR)	0132	0128	0122	0110	0101	0002
CROSLEY	1023	1088						0013	2004				
CROWN	0132	0045					LLOYTRON	0173	0172				
CURTIS MATHES	0128	0123	0132				LODGENET	0069					
DAEWOO	0132	0128	0127	0119	0116	0114	LXI	0148	0145	0077			
	0111 1022	0108	0106	0105	0102	0087	MAGNAVOX	0148 0040	0145 2007	0132 2008	0128 2009	0123 201	0030 2011
DANSAI	1022						MARANTZ	0148	0123	0115			

TV/DVR

Manufacturer	Code N	lumbers				
MEMOREX	0128	0069				
METZ	0084					
MGA	0128	0123	0115			
MITSUBISHI	0168 0077	0167	0160	0128	0123	0115
MTC	0176	0175				
MOTOROLA	2005					
NATIONAL	0182	0181	0180	0179	0177	0148
NEC	0125	0123	0121	0115	0010	
OLEVIA	0007					
OPTONICA	0077					
ORION	0211	0210	0209	0208	0207	
PANASONIC	0169	0148	0087			
PHILCO	0148	0132	0128	0123	0115	0045
PHILIPS	0148 0035	0145 0034	0132 0033	0128	0123	0036
PIONEER	0128	0123	0024			
POLAROID	0003	0004	0005	0006	0043	
PORTLAND	0132	0128				
PROSCAN	0133					
PROTON	0165	0132	0128	0122	0059	8000
QUASAR	0087	0032				
RADIO SHACK	0197	0196	0180	0132	0128	0045
RCA	0163 0115	0161 0021	0145 2001	0133 2012	0128	0123
REALISTIC	0196	0167	0045			
RUNCO	0153	0152	0044	0046		
SAMPO	0128	0123	0059			
SAMSUNG	0145 2003	0132	0128	0124	0022	0020
SANYO	0054	0026				
SCOTT	0132	0128	0045			
SEARS	0145	0132	0128			
SHARP	0132	0128	0077			
SIEMENS	0084					
SIGNATURE	0069					
SONY	0212 0028	0194	0136	0130	0117	0031
SOUNDESIGN	0128	0045				
SYLVANIA	0148	0145	0128	0123	0025	
SYMPHONIC	0184					

TV/DVR						
Manufacturer	Code N	lumbers				
TANDY	0077					
TATUNG	0063	2018				
TECHNICS	0181					
TECHWOOD	0128					
TEKNIKA	0132	0128	0123	0115	0069	0045
TELERENT	0069					
TERA	0156					
THOMSON	0191	0190				
TIVO	0051	0052	2020	2021		
ТМК	0128					
TOSHIBA	0202	0129	0063			
TOTEVISION	0132					
VIDEO CONCEPTS	0160					
VIDTECH	0128					
VIEWSONIC	0011	0038	0039	0047		
VIZIO	0001	0002				
WARDS	0148	0132	0128	0069		
WESTINGHOUSE	0017	0018	0023			
YAMAHA	0128	0123				
YORK	0128					
ZENITH	0090	0069	2002	2008	2019	

ENGLISH

Cable Tuners

ABC 3011 3001 ALLEGRO 3111 AMERICAST 3212 ARCHER 3112 BELCOR 3113 BIT CABLE 4007 CABLE STAR 3113 SOUT 4012 CABLE STAR 3113 SOUT 4012 CABLESTAR 3113 SOUT 4012 CABLESTAR 3113 SOUT 4012 CABLESTAR 3113 CABLESTAR 3111 CLYDE CABLEVISION 4017 COMCAST 3007 4014 DESCAT CANAL 4010 DIGI LINK 3114 EASTERN 3070 3066 EMERSON 3112 FILMNET 4018 4020 FOXTEL 4019 FRANCE TELECOM 4013 GEC 4017 GELECTRONICS 3113 GEC 4017 GENERAL 3210 GENERAL 3210 HANLIN 3208 3175	Manufacturer	Code N	lumbers				
AMERICAST 3212 ARCHER 3112 BELCOR 3113 BT CABLE 4007 CABLE STAR 3113 3033 CABLE M 4007 CABLE STAR 3113 3033 CABLE STAR 3111 4016 CITIZEN 3111 5 COMCAST 3007 4014 DESCAT CANAL 4010 5 DIGI LINK 3114 5 EASTERN 3070 3066 EMERSON 3112 5 FILMNET 4018 4020 FOXTEL 4019 5 FRANCE TELECOM 4013 4021 GL 3097 3096 3017 3011 3001 GEC 4017 5 5 5 5 GENERAL INSTRUMENT 3210 3113 3100 3099 </td <td>ABC</td> <td>3011</td> <td>3001</td> <td></td> <td></td> <td></td> <td></td>	ABC	3011	3001				
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BELCOR 3113 BT CABLE 4007 CABLE STAR 3113 3033 CABLESTAR 3113 3033 CABLETIME 4008 4011 4012 4016 CITIZEN 3111	AMERICAST	3212					
BT CABLE 4007 CABLE STAR 3113 3033 CABLETIME 4008 4011 4012 4016 CITIZEN 3111	ARCHER	3112					
CABLE STAR 3113 3033 CABLETIME 4008 4011 4012 4016 CITIZEN 3111	BELCOR	3113					
CABLETIME 4008 4011 4012 4016 CITIZEN 3111	BT CABLE	4007					
CITIZEN 3111 CLYDE CABLEVISION 4017 COMCAST 3007 4014 DESCAT CANAL 4010 DIGI LINK 3114 EAGLE 3186 EASTERN 3070 3066 EMERSON 3112 FILMNET 4018 4020 FOXTEL 4019 FRANCE TELECOM 4013 4021 G.I. 3097 3096 3017 3011 3001 GE ELECTRONICS 3113 5 5 5 5 GENERAL 3210 5	CABLE STAR	3113	3033				
CLYDE CABLEVISION 4017 COMCAST 3007 4014 DESCAT CANAL 4010 DIGI LINK 3114 EAGLE 3186 EASTERN 3070 3066 EMERSON 3112 FILMNET 4018 4020 FOXTEL 4019	CABLETIME	4008	4011	4012	4016		
COMCAST 3007 4014 DESCAT CANAL 4010	CITIZEN	3111					
DESCAT CANAL 4010 DIGI LINK 3114 EAGLE 3186 EASTERN 3070 3066 EMERSON 3112 FILMNET 4018 4020 FOXTEL 4019	CLYDE CABLEVISION	4017					
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EAGLE 3186 EASTERN 3070 3066 EMERSON 3112 FILMNET 4018 4020 FOXTEL 4019 FRANCE TELECOM 4013 4021 G.I. 3097 3096 3017 3011 3001 GC ELECTRONICS 3113	DESCAT CANAL	4010					
EASTERN 3070 3066 EMERSON 3112	DIGI LINK	3114					
EMERSON 3112 FILMNET 4018 4020 FOXTEL 4019	EAGLE	3186					
FILMNET 4018 4020 FOXTEL 4019	EASTERN	3070	3066				
FOXTEL 4019 FRANCE TELECOM 4013 4021 G.I. 3097 3096 3017 3011 3001 GC ELECTRONICS 3113	EMERSON	3112					
FRANCE TELECOM 4013 4021 G.I. 3097 3096 3017 3011 3001 GC ELECTRONICS 3113	FILMNET	4018	4020				
G.I. 3097 3096 3017 3011 3001 GC ELECTRONICS 3113	FOXTEL	4019					
GC ELECTRONICS 3113 GEC 4017 GEMINI 3060 3032 GENERAL 3210 GENERAL 3210 HANLIN 3208 3175 3117 3101 3100 3099 HITACHI 3188 3001 J J J J JERROLD 3111 3100 3099 3073 3091 4001 4022 LINSAY 3118 3162 3097 3096 3073 3001 4001 4022 LINSAY 3118 3101 3001 4001 4022 LINSAY 3068 3019 3017 MACOM 3191 S039 3035 S035 S035 </td <td>FRANCE TELECOM</td> <td>4013</td> <td>4021</td> <td></td> <td></td> <td></td> <td></td>	FRANCE TELECOM	4013	4021				
GEC 4017 GEMINI 3060 3032 GENERAL 3210	G.I.	3097	3096	3017	3011	3001	
GEMINI 3060 3032 GENERAL 3210	GC ELECTRONICS	3113					
GENERAL 3210 GENERAL INSTRUMENT 3210 HANLIN 3208 3175 3117 3101 3100 3099 HITACHI 3188 3001 J J J J J JASCO 3111 J	GEC	4017					
GENERAL INSTRUMENT 3210 HANLIN 3208 3175 3117 3101 3100 3099 HIANLIN 3208 3175 3117 3101 3100 3099 HITACHI 3188 3001	GEMINI	3060	3032				
HANLIN 3208 3056 3175 3117 3101 3100 3099 HITACHI 3188 3001	GENERAL	3210					
3056 HITACHI 3188 3001 JASCO 3111	GENERAL INSTRUMENT	3210					
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JERROLD 3210 3017 3188 3017 3162 3001 3097 3001 3096 4001 3073 4022 LINSAY 3118	HITACHI	3188	3001				
3017 3011 3002 3001 4001 4022 LINSAY 3118	JASCO	3111					
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MAGNAVOX 3068 3019 3017 MOVIE TIME 3039 3035 NSC 3190 3035	LINSAY	3118					
MOVIE TIME 3039 3035 NSC 3190 3035	MACOM	3191					
NSC 3190 3035	MAGNAVOX	3068	3019	3017			
	MOVIETIME	3039	3035				
OAK 3220 3197	NSC	3190	3035				
	ОАК	3220	3197				

Cable Tuners						
Manufacturer	Code N	lumbers				
PACE	3179					
PANASONIC	3214	3189	3177	3176	3053	
PANTHER	3114					
PHILIPS	3090	3085	3020	3019	3013	4023
PIONEER	3216 3001	3215 4002	3209	3171	3119	3041
RADIO SHACK	3213	3112	3111			
RCA	3214	3053				
RECOTON	3116					
REGAL	3208	3101	3100	3099	3056	
REMBRANT	3032					
SAGEM	4028					
SAMSUNG	3003	3186	3072	4002	4003	4024
SATBOX	4004					
SCIENTIFIC ATLANTA	3222 4025	3221 4026	3203	3183	4005	4006
SEAM	3121					
SIGNATURE	3188	3001				
SPRUCER	3189	3177	3081	3053		
STARCOM	3163	3011	3002			
STARGATE	3120					
TANDY	3024					
TELECAPATION	3028					
TELESERVICE	4011					
TEXSCAN	3036					
TFC	3122					
TIVO	3029	3030	4029	4030		
ТОСОМ	3205	3170				
TUDI	4027					
UNITED CABLE	3011	4001				
UNIVERSAL	3113	3042	3039	3034	3033	
VIDEOWAY	3211	3124				
VIEWSTAR	3190	3089	3086	3053	3025	3019
VISIOPASS	4009					
WESTMINSTER CABLE	4007					
ZENITH	3219	3211	3125	3065		

Satellite Tuners

Manufacturer	Code N	umbers				
AIWA	6041					
AKAI	6033					
ALBA	6001	6011				
AMSTRAD	6032					
ANKARO	6021					
ASTRO	6076 6082	6077 6083	6078	6079	6080	6081
BARCOM	6021					
BIRDVIEW	5025					
BLAUPUNKT	6038	6090				
BUSH	6006	6048				
BUSH (UK)	6053					
CANAL	6013					
CANAL DIGITAL	6013					
CANAL PLUS (CANAL +)	6013					
CHANNEL MASTER	5061	5025	5021	5020		
CHAPARRAL	5051	5016	5015			
СІТОН	5060					
DIRECTV	5009	5010	5014	6002	6003	6005
DISH NETWORK	5064					
DRAKE	5081	5013	5018	5017	5013	
DX ANTENNA	5083	5079	5052	5031		
ECHOSTAR	5085 5052	5084 5097	5078 5095	5077 5064	5063 6047	5053
ELECTRO HOME	5092					
FERGUSON	6006	6011	6024	6045	6048	6052
FINLUX	6009	6010				
FOXTEL	6016					
FTE	6080					
FUBA	6014	6021	6047			
FUJITSU	5034	5029	5024			
GENERAL INSTRUMENT	5074 2011	5068 5003	5054	5003	5065	5023
GOODMANS	6011					
GRUNDIG	6015	6038	6053	6067	6090	
HITACHI	5055	5004	6006	6011		
HOUSTON TRACKER	5063					
HUGHES	5089	5037	5005	5006		

Satellite Tuners						
Manufacturer	Code N	umbers				
HUMAX	6007					
ITT	6067					
ITT-NOKIA	6067					
JANIEL	5066					
JERROLD	5084	5068	5054			
KATHREIN	6001	6033	6080	6090		
KOSMOS	6080					
KYOTO GMI ATLANTA	6043					
LEGEND	5053					
LEMON	6074					
LOEWE	6075					
LORENZEN	6061	6063	6064	6065	6074	
MACOM	5071	5070	5069	5065	5017	
MAGNAVOX	5073	5061				
MARANTZ	6033					
MASPRO	6006	6053				
MEMOREX	5053					
METZ	6090					
MINERVA	6090					
MITSUBISHI	5007	6090				
MOTOROLA	5012	5019				
MULTISTAR	6080					
NEC	6030	6036	6046	6073		
NETA P562	6040					
NEXTWAVE	5023					
NOKIA	6067					
NORSAT	5073	6046				
OPTIMUS	5066					
OTTO VERSAND	6090					
PACE	5087 6064	5028 6067	6024	6048	6053	6063
PACE MSS SERIES	6067					
PANASONIC	5069	5066	5057	5053	6024	6031
PANSAT	5020					
PERSONAL CABLE	5018					
PHILIPS	5075 6053	6019	6021	6024	6032	6033
PICO	5007					

ENGLISH

Satellite Tuners

В

Manufacturer	Code N	lumbers				
PREMIERE	6008					
PRESIDENT	5004	5081				
QUADRAL	6066	6067	6068	6069	6070	6071
QUELLE	6090					
RADIOLA	6053					
RADIX	6047					
RCA	5090	5065	5039	5001	5058	5058
REALISTIC	5080	5049				
SAMSUNG	5042	5022	5026	6027	6032	6080
SAT	6027					
SATELLITE SERVICE	5088	5035				
SCIENTIFIC ATLANTA	5039	5056				
SCHNEIDER	6053					
SIEMENS	6038	6090				
SKY	6006					
SKY MASTER	6033					
SKYLAB	6021					
SONY	5005	5062				

Satellite Tuners						
Manufacturer	Code N	lumbers				
STAR CHOICE DBS	5059					
STARCAST	5047					
SUPER GUIDE	5023	5027				
TECHNISAT	6047					
TEECOM	5009	5093	5091	5090	5033	5030
TELECOM	6041					
TELEFUNKEN	6083					
THORN-FERGUSON	6023	6045	6048	6052	6053	6063
TOPPFIELD	6011					
TOSHIBA	5070	5062	5061	5060	5026	5002
UNIDEN	5080 5054	5079 5051	5066 5050	5003 5049	5089 5048	5083 5032
VIASAT	6012					
VORTEC	6032	6042				
WISI	6004	6022	6026	6027	6047	
ZEHNDER	6027	6080				
ZENITH	5088	5019	5094	5087	5085	5084

Specifications

BDS 5 receiver (BDS 800, BDS 700, BDS 600 systems) BDS 2 receiver (BDS 400, BDS 300 systems)

Audio Section

Continuous average power, stereo mode (BDS 5, BDS 2):	65 watts per channel, 20Hz – 20kHz, @ <0.1% THD, both channels driven into 6 ohms
Multichannel power (BDS 5 only):	65 watts per channel, 20Hz – 20kHz, @ <0.1% THD, into 6 ohms
Input sensitivity/impedance (line inputs):	250mV/46k ohms
Signal-to-noise ratio (IHF-A):	-90dB
Frequency response @ 1W (±0.5dB):	20Hz – 20kHz
Slew rate:	40V/µsec

FM Tuner Section

Frequency range:	87.5MHz – 108.0MHz (US and EU)
Usable sensitivity IHF:	>14dBf
Signal-to-noise ratio (mono/stereo):	-60dB/-55dB
Distortion (mono/stereo):	0.3%/0.5%
Stereo separation:	-45dB @ 1kHz
Image rejection:	-70dB
IF rejection:	-80dB

Disc Player Section

Supported disc formats:	5-inch (12cm) or 3-inch (8cm) BD-Video (single-layer or double-layer), DVD-Video, DVD+R/+RW, DVD-R/-RW, CDDA (CD digital audio), CD-R/RW discs
Region code (BD/DVD):	A/1 (USA); B/2 (EU)
Audio formats:	Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS Digital, DTS-HD High Resolution Audio, DTS-HD Master Audio, PCM, WMA (DRM-free version only): WMA9, CBR @ 192kbps, VBR @ 355kbps; MP3: 32kbps — 320kbps bitrates, including variable-bitrate encoding
Still-image format:	JPEG
Video signal system:	NTSC (USA) or PAL (EU)
Frequency response:	20 Hz $- 20$ kHz ± 0.5 dB
Signal-to-noise ratio:	-90dB (A-weighted)
Dynamic range:	90dB (16-bit)
THD @ 1kHz (DVD/CD):	0.1%
Wow & flutter:	Below measurable limits

Video Section

Television format:	NTSC or PAL (selectable)
HDMI version:	1.3a, with 30/36-bit Deep Color

General

Power requirement:	110 – 240V AC, 50/60Hz
Power consumption:	110W maximum (BDS 5), 70W maximum (BDS 2); <1W standby
Dimensions (H x W x D):	102mm x 401mm x 260mm (4" x 15-25/32" x 10-1/4")
Weight:	6.5kg (14.3 lb) (BDS 5); 6.4kg (14 lb) (BDS 2)

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	SAT-TS60 Satellites (BDS 800 and BDS 400 systems)	CEN-TS60 Center (BDS 800 system)
Midrange transducer:	Two x 3" (75mm) flat-panel drivers, video-shielded	Two x 3" (75mm) flat-panel drivers, video-shielded
High-frequency transducer:	1" (25mm) CMMD [®] Lite dome, video-shielded	1" (25mm) CMMD Lite dome, video-shielded
Recommended power:	10 – 120 watts	10 – 150 watts
Impedance:	8 ohms	8 ohms
Sensitivity:	86dB (2.83V/1m)	83dB (2.83V/1m)
Connector type:	Push-spring terminal	Push-spring terminal
Enclosure type:	Sealed	Sealed
Dimensions (H x W x D):	299mm x 110mm x 88mm (11-25/32" x 4-11/32" x 3-15/32") (Height measurement includes removable stands)	110mm x 272mm x 88mm (4-11/32" x 10-11/16" x 3-15/32")
Weight:	1.5kg (3.3 lb)	1.5kg (3.3 lb)

	SAT-TS11 Satellites (BDS 300 system)	CEN-TS11 Center (BDS 700 system)	SAT-TS7 Satellites (BDS 700 system)
Midrange transducer:	Two x 3" (75mm) cones, video-shielded	Two x 3" (75mm) cones, video-shielded	3" (75mm) cone, video-shielded
High-frequency transducer:	3/4" (19mm) dome, video-shielded	3/4" (19mm) dome, video-shielded	1/2" (13mm) dome, video-shielded
Recommended power:	10 – 120 watts	10 – 120 watts	10 – 80 watts
Impedance:	8 ohms	8 ohms	8 ohms
Sensitivity:	86dB (2.83V/1m)	86dB (2.83V/1m)	86dB (2.83V/1m)
Connector type:	Push-spring terminal	Push-spring terminal	Push-spring terminal
Enclosure type:	Sealed	Sealed	Sealed
Dimensions (H x W x D):	243mm x 100mm x 92mm (9-9/16" x 3-15/16" x 3-5/8")	102mm x 241mm x 92mm (4" x 9-1/2" x 3-5/8")	167mm x 100mm x 92mm (6-5/8" x 3-15/16" x 3-5/8")
Weight:	1.0kg (2.2 lb)	1.0kg (2.2 lb)	0.6kg (1.3 lb)

SB 10 Soundbar (BDS 600 system)

Low-frequency transducer	
Left: Right: Center:	3" (76mm) paper cone, video-shielded 3" (76mm) paper cone, video-shielded Two 3" (76mm) paper cones, video-shielded
High-frequency transducer	
Left: Right: Center:	3/4" (19mm) silk dome, video-shielded 3/4" (19mm) silk dome, video-shielded 3/4" (19mm) silk dome, video-shielded
Recommended power	
Left and Right: Center:	60 watts (each) 100 watts
Impedance:	8 ohms
Sensitivity:	84dB (2.83V/1m) (each channel)
Connector type:	Push-spring terminal
Enclosure type:	Sealed
Dimensions (H x W x D):	110mm x 920mm x 89mm (4-5/16" x 36-1/4" x 3-1/2")
Weight:	3.67kg (8.1 lb)

HKTS200SUB and HKTS210SUB Subwoofer (all systems)

Low-frequency transducer:	8" (200mm) down-firing cone
Amplifier power:	200 watts
Frequency response:	45Hz – 200Hz (–6dB)
Controls:	Volume, phase, bass boost
Connections:	LFE input, left and right RCA line-level inputs
Enclosure type:	Sealed
Power requirement:	120V, 60Hz (USA)
	220V – 240V, 50/60Hz (EU)
Power consumption:	<1W (standby); 200W (maximum)
Dimensions (H x W x D):	353mm x 267mm x 267mm (13-29/32" x 10-1/2" x 10-1/2") (Height measurement includes feet)
Weight:	9.0kg (19.8 lb)





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