



TOSHIBA

Blu-ray Disc Player **BDX3000KU**

OWNER'S MANUAL



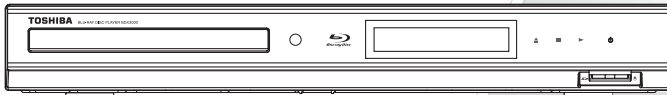
INTRODUCTION

CONNECTIONS

PLAYBACK

FUNCTION SETUP

OTHERS





Owner's Record

The model number and serial number are on the back of the unit. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this unit.

Model number:
Serial number:

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SAFETY PRECAUTIONS

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: VISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.		
AVIS	RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR	
WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



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



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in this owner's manual.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.



The symbol for Class II (Double Insulation)

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



ADDITIONAL SAFETY INSTRUCTIONS

15. Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. Never expose the apparatus to dripping or splashing or place items such as vases, aquariums, any other item filled with liquid, or candles on top of the unit.
17. Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
18. Do not place anything on top of this unit.
19. Do not place the apparatus on amplifiers or equipment that may produce heat.
20. Never block or cover the slots or openings in the unit.
Never place the unit: 1) on a bed, sofa, rug or similar surface; 2) too close to drapes, curtains, or walls; or 3) in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.
The slots and openings are provided to protect the unit from overheating and to help maintain reliable operation.
21. Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.
22. If the apparatus should emit smoke or an unusual odor, immediately disconnect the power cord from the wall outlet. Wait until the smoke or smell stops, then ask your dealer for a check and repair. Neglecting to do so may cause fire.
23. During thunderstorms, do not touch the connecting cables or the apparatus.
24. Warning: To prevent spread of fire, keep candles or other open flames away from this product at all times.



PRECAUTIONS

CAUTION:

- To prevent direct exposure to laser beam, do not try to open the enclosure. Visible and invisible laser radiation when open and interlocks defeated. DO NOT STARE INTO BEAM.
- Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

Warning: Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

FCC Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for compliance to these rules is:

Toshiba America Consumer Products, L.L.C.

82 Totowa Rd. Wayne, NJ 07470.

Ph: 1-800-631-3811

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

WARNING: Changes or modifications to this unit not expressly approved by Toshiba, or parties authorized by Toshiba, could void the user's authority to operate the equipment.

Notes On Copyright

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering or disassembly is prohibited.

On Placement

- Do not use this unit in places which are extremely hot, cold, dusty or humid.
- Do not restrict the air flow of this unit by placing it somewhere with poor air flow, by covering it with a cloth, or by placing it on bedding or carpeting.
- Be sure to remove the disc and unplug the AC power cord from the outlet before carrying the unit.

On Safety

- Do not handle the AC power cord with wet hands and do not put your fingers or objects into the unit.
- When connecting or disconnecting the AC power cord, grip the plug and not the cord itself. Pulling the cord may damage it and create a hazard.
- When you are not going to use the unit for a long period of time, disconnect the AC power cord.

On Condensation

- When left in a heated room where it is warm and damp, water droplets or condensation may form inside the equipment. When there is condensation inside the unit, the unit may not function normally. Let the unit stand for 1-2 hours before turning the power on or gradually heat the room and allow the unit to dry before use.

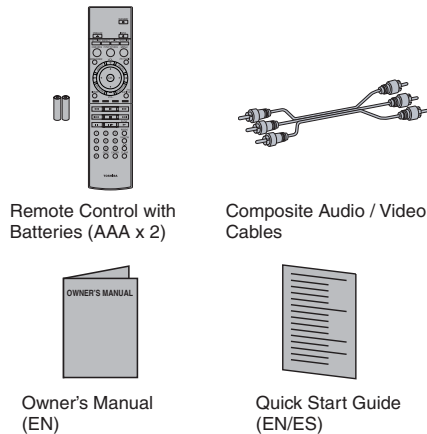
On Recycling

- This unit's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.
- Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.



Products that earn the ENERGY STAR® prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

Supplied Accessories



Symbols Used in this Manual

To specify for which media type each function is, we put the following symbols at the beginning of each item to operate.

Symbol	Description
	Description refers to BD-video and BD-RE / BD-R recorded in BDMV format
	Description refers to DVD-video
	Description refers to Audio CD / DTS-CD
	Description refers to DVD-RW/-R with AVCHD files
	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD Memory Card with MP3 files
	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD Memory Card with Windows Media™ Audio files
	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD Memory Card with JPEG files

If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media.

Trademark Information

"Blu-ray Disc™" and are trademarks of Blu-ray Disc Association.

Blockbuster is a registered trademark of Blockbuster, Inc.

Netflix is a registered trademark of Netflix Inc.

Pandora is a registered trademark of Pandora Media, Inc.

VUDU is a trademark of VUDU, Inc.

	"Wi-Fi CERTIFIED" logo is a registered trademark of Wi-Fi Alliance. "Wi-Fi PROTECTED SETUP" logo is a trademark of Wi-Fi Alliance.
	"DVD" logo is a trademark of DVD Format / Logo Licensing Corporation.
	HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
	Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
	Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio Essential and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.
	"x.v.Color" and "x.v.Color" logo are trademarks of Sony Corporation.
	"AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.
	"BONUSVIEW™", "BD-LIVE™" and "Blu-ray 3D™" are trademarks of Blu-ray Disc Association.
	Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.
	Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.



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INTRODUCTION

Features

Blu-ray Disc

You can enjoy Blu-ray Disc which is capable of storing five times more data than a conventional DVD.

BD-Java

With some BDs which support Java applications, you can enjoy the interactive functions such as games or interactive menus.

BD-Live

BD-Live (BD-ROM version 2 Profile 2.0) that allows interactive functions to be used when this unit is connected to the Internet in addition to the BONUSVIEW function. The various functions differ depending on the disc.

Full high-definition video playback

Watch movies in the highest picture quality available for your HDTV. This unit offers full high-definition video playback up to 1080p resolution for an amazing viewing experience. A highly detailed picture and increased sharpness delivers a more true-to-life picture.

DVD Upconversion for enhanced picture quality

Your current DVD will look even better than before thanks to video upconversion. Upconversion will increase the resolution of standard definition DVD to high definition up to 1080p over an HDMI connection. The picture will be less jagged and more realistic for a near high-definition experience.

Enjoy your content on different kinds of media

Full backwards compatibility with BD, DVD, CD and SD card ensures that you can continue to enjoy your current audio-video collection. Additionally, you can view JPEG digital pictures or listen to MP3 or Windows Media™ Audio music files.

Experience rich multi-channel surround sound

Multi-channel surround sound, which recognizes real-to-life sound and makes you feel like you are really there.

PIP (BONUSVIEW)

Some BD-videos have the PIP function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing **BONUSVIEW** whenever the scene contains the secondary video.

Pop-up menu

Some BD-video have pop-up menu which is a navigation menu that can be called up and be operated on the TV screen without interrupting the playback. You can call up the pop-up menu by pressing **POPUP/TOP MENU** or **MENU**. Contents in the pop-up menu vary depending on the disc.

Playback of Content from an SD Memory Card

You can play back MP3 / WMA / JPEG files stored in an SD Memory Card. You can store picture-in-picture commentary, subtitles or other extras for BD-ROM ver. 2 (Profile 2.0 / Profile 1.1) files in an SD Memory Card and play back with the BD-video.

Playing back AVCHD files

This unit supports playback of AVCHD format files (new format for high definition video camcorders) recorded on disc. Your high definition personal archive is playable in HD quality.

x.v.Color

This unit supports playback of video contents on discs recorded with "x.v.Color" technology. To watch this video content with the "x.v.Color", a TV or other display device supporting both video image reproduction using the "x.v.Color" standard and capable of manually switching its color setting is required. Please refer to the owner's manual of your display device for further information.

Wi-Fi CERTIFIED

The Wi-Fi CERTIFIED logo is an assurance that Wi-Fi Alliance has tested a product in numerous configurations and with a diverse sampling of other devices to ensure compatibility with other Wi-Fi CERTIFIED equipment that operates in the same frequency band.

Blu-ray 3D Feature

This product can play 3D contents through an HDMI cable.

To implement the 3D effect, connect a 3D device (3D-compliant AV receiver, 3D-compliant TV) to the product using an HDMI cable, and play the 3D content while wearing 3D vision glasses.

Easy and simple connection to your HDTV via HDMI

Connect this unit to your HDTV with one single HDMI (High-Definition Multimedia Interface) cable. It is recommended to use a High Speed HDMI Cable for better compatibility. The high definition video output signal will be transferred to your HDTV without conversion to analog signals, so you will get excellent picture and sound quality.

Thanks to other multiple outputs, you can also easily connect to your home theater system or amplifier.

HDMI CEC (Consumer Electronics Control)

This unit supports HDMI CEC, which allows integrated system control over HDMI and is part of the HDMI standard.

This function may not work properly on some devices.

HDMI 1080p/24F output (BD only)

This unit is equipped with a feature which can provide the smooth movement in the playback of film originated material with the frame rate of 24 frames per second with progressive scan. (Available only when the TV is connected by an HDMI cable and compatible with 1080p/24F frame input.)

Refer to "**Display Setting**" in "**Customizing the Function Settings**" on page 29.

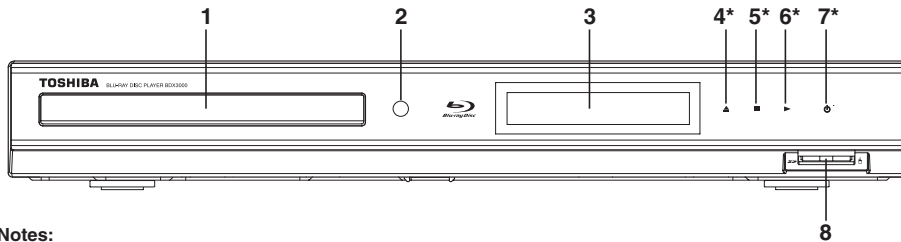
Copyright protection system

To play back the digital video images of a BD / DVD via an HDMI connection, it is necessary that both the unit and the TV (or an AV amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your TV (or AV amplifier) for more information.



Identification of Controls

Front panel



(*) Notes:

1. These indicators are located in the sensor field.
2. When this unit is off, these indicators are dimmed. If a finger is brought close to the sensor field, the indicators will be invoked and light up.

1. Disc tray

2. Remote sensor

3. Display

- Refer to "Front Panel Display" on page 10.

4. OPEN/CLOSE ▲ indicator

- When invoked (white), tap to open/close the disc tray.

5. STOP ■ indicator

- When invoked (white), tap to stop playback.

6. PLAY ► indicator

- When invoked (white), tap to start playback.

7. ON/STANDBY indicator

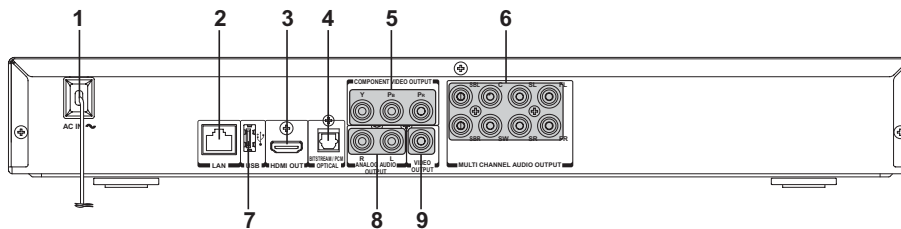
- When invoked (white), tap to turn on the unit, or to turn the unit into the standby mode. (To completely turn off the unit, you must unplug the AC power cord.)

8. SD card slot

How to Power On Your Unit ?

1. Connect to a standard AC outlet to supply power to this unit, the **ON/STANDBY** indicator lights in red and then turns white at once.
2. After about 10 seconds, the **ON/STANDBY** indicator will turn red automatically.
3. Touch the **ON/STANDBY** button to turn on the unit. The **ON/STANDBY** indicator will remain white (ON mode).

Rear panel



1. AC power cord

- Connect to a standard AC outlet to supply power to this unit.
- Unplug this cord from the AC outlet to completely turn off the unit.

2. LAN terminal

- Use to connect a network equipment with LAN cable.

3. HDMI OUT jack

- Use to connect a TV with an HDMI compatible port via an HDMI cable.

4. OPTICAL jack

- Use to connect an AV receiver / amplifier, Dolby Digital / DTS decoder or other device with a digital audio optical input jack using a digital audio optical cable.

5. COMPONENT VIDEO OUT jacks

- Use to connect a TV with component video inputs using a component video cable.

6. MULTI CHANNEL AUDIO OUTPUT jacks

- Use to connect an AV receiver / amplifier with a audio cable.

7. USB jack

- Use to connect USB flash drives (not included).

8. AUDIO OUT jacks

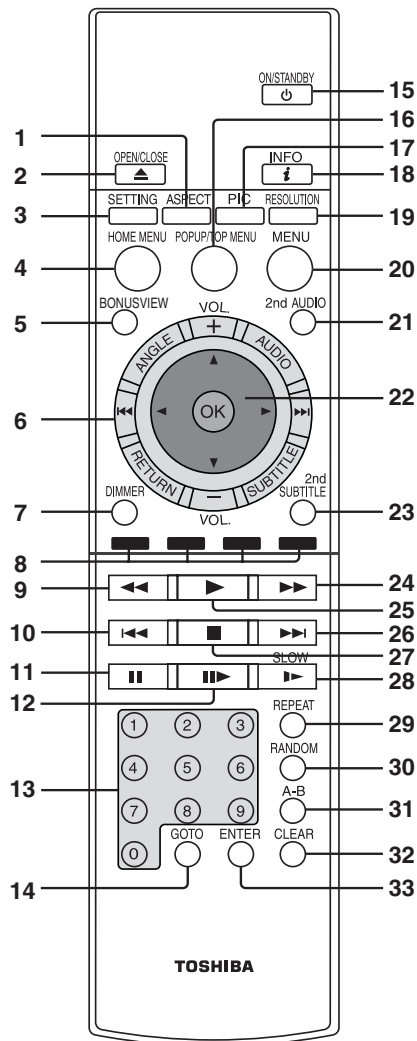
- Use to connect a TV, an AV receiver / amplifier or other device with a composite audio cable.

9. VIDEO OUT jack

- Use to connect a TV, an AV receiver or other device with a composite video cable.

Using the Remote control

Remote control



No.	Item	Description
1	ASPECT	Press to adjust aspect ratio in full stop mode.
2	OPEN/CLOSE	Press to open or close the disc tray.
3	SETTING	Press to display the settings in home menu.
4	HOME MENU	Press to display the Connected in home menu.
5	BONUSVIEW	Press to switch picture-in-picture feature on or off (only applicable to BD-video which supports the PIP function). For more details, see "PIP (BONUSVIEW) Setting" on page 23.
	◀◀/▶▶	Same as SKIP / SKIP . For detailed operations, please refer to SKIP / SKIP .
6	ANGLE	Press to select a viewing angle if multiple angles are available on the disc.
	VOLUME +/-	Press to adjust the volume.
	AUDIO	Press to select the audio mode.
	SUBTITLE	Press to display the subtitle menu.
	RETURN	Press to return to the previous menu.
7	DIMMER	Press to adjust the brightness of display on the front of the Blu-ray disc player.
8	RED / GREEN / BLUE / YELLOW	<ul style="list-style-type: none"> Press to select items on some BD contents. When file list / thumbnail list is shown, press to switch between pages.
9	REV	During playback, press to fast reverse the playback.
10	SKIP	<ul style="list-style-type: none"> During playback, press once to return to the beginning of the current title, chapter, track or file. During playback, press twice to return to the previous title, chapter, track or file. During the JPEG playback, press to return to the previous file.
11	PAUSE	<ul style="list-style-type: none"> Press to pause playback. When playback is in pause mode, press repeatedly to forward the playback step by step.
12	▶▶	Press to advance one frame.

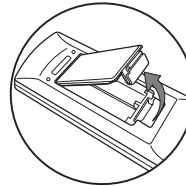


13	Number buttons	<ul style="list-style-type: none"> In playback mode, press GOTO, then press the number buttons to enter a title, chapter, track, time or file number. In menu mode, press to enter the parental code password.
14	GOTO	Press to display the search menu.
15	ON/STANDBY	Press to turn on the unit, or to turn the unit into the standby mode. (To completely turn off the unit, you must unplug the power cord.)
16	POPUP/TOP MENU	<ul style="list-style-type: none"> During Blu-ray Disc playback, press to open a menu that lets you control Blu-ray Disc playback. During DVD playback, press to open the DVD menu (if available).
17	PIC	<p>In playback mode, press to adjust picture quality according to your preference (Actual effect to picture may vary depending on TV.):</p> <ul style="list-style-type: none"> E.P.M (Enhanced Picture Mode): The picture is sharper with enhanced color. Sharpness
18	INFO	Press to display disc information.
19	RESOLUTION	Press to select the video resolution in full stop mode.
20	MENU	Press to return to the previous menu.
21	2nd AUDIO	In PIP mode, press to turn the audio for the secondary video on or off. For more details, see "PIP (BONUSVIEW) Setting" on page 23.
22	▲ / ▼ / ◀ / ▶ OK	Press to select items or settings. Press to confirm or select menu items.
23	2nd SUBTITLE	In PIP mode, press to turn the subtitle for the secondary video on or off.
24	FWD ►►	During playback, press to fast forward the playback.
25	PLAY ►	Press to start playback or resume playback.
26	SKIP ►►I	<ul style="list-style-type: none"> During playback, press to skip to the next title, chapter, track or file. During the JPEG playback, press to go to the next file.
27	STOP ■	Press to stop playback.
28	►►	Press to play back the disc in slow motion.
29	REPEAT	Press to toggle between various repeat modes.
30	RANDOM	Press to turn random function on or off.
31	A-B	Press to play back a defined section between point A and B repeatedly.
32	CLEAR	Press to clear an input error.
33	ENTER	Press to confirm or select menu items.

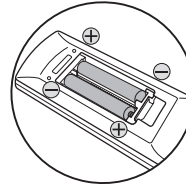
Installing batteries

Install the batteries (AAAx2) matching the polarity indicated inside battery compartment of the remote control.

1 Open the cover.

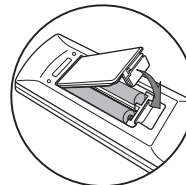


2 Insert batteries.



Make sure to match the + and - on the batteries to the marks indicated in the battery compartment.

3 Close the cover.



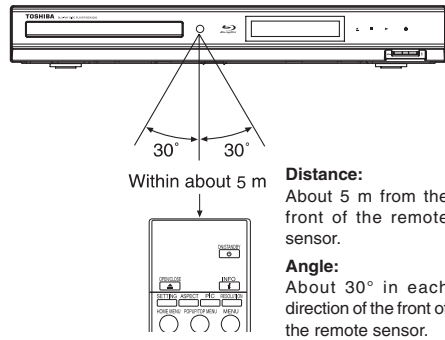
Caution: Never throw batteries into a fire.

Notes:

- Do not mix different battery types or combine used batteries with new ones.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace both batteries with new ones.
- If the batteries are dead or if you will not be using the remote control for a long time, remove the batteries to prevent battery acid from leaking into the battery compartment.

Operating with the remote control

Point the remote control at the remote sensor and press the buttons.

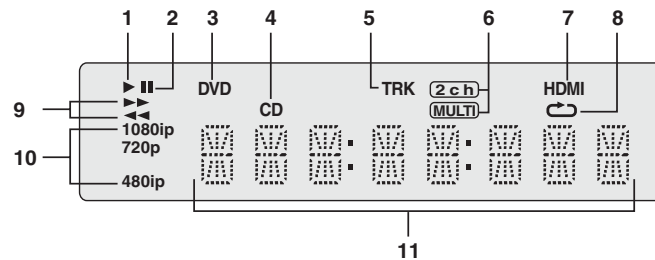


* Do not expose the remote sensor of the Blu-ray disc player to a strong light source such as direct sunlight or other illumination. If you do so, you may not be able to operate the Blu-ray disc player via the remote control.

Notes:

- Direct the remote control at the remote sensor of the Blu-ray disc player.
- When using the remote control, press the buttons at intervals of about 1 second to ensure the correct mode of operation.
- Do not drop or give the remote control a shock.
- Do not leave the remote control near an extremely hot or humid place.
- Do not spill water or put anything wet on the remote control.
- Do not open the remote control.
- If the remote control is not going to be used for a long time, remove the battery to avoid damage caused by battery leakage corrosion.

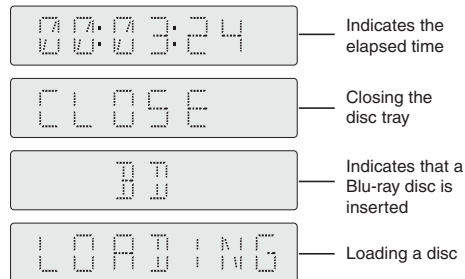
Front Panel Display



- 1. PLAY indicator**
Lights when playing.
- 2. PAUSE indicator**
Lights when paused.
- 3. DVD indicator**
Lights when a DVD disc is inserted.
- 4. CD indicator**
Lights when a CD disc is inserted.
- 5. TRK (TRACK) indicator**
Lights when a CD/MP3 disc is inserted.
- 6. Audio Channel indicator**
Shows the audio channel of the current DVD/BD.
- 7. HDMI indicator**
Lights when HDMI TV is connected.
- 8. (REPEAT) indicator**
Illuminates when REPEAT is pressed.
- 9. >>> / <<<< SKIP indicator**
Lights while in fast forward / fast reverse mode.

- 10. Resolution indicator**
Shows resolution of video output.

- 11. Character indicators**
Displays various kinds of information such as elapsed time or message, etc. (See **Example** shown as below.)



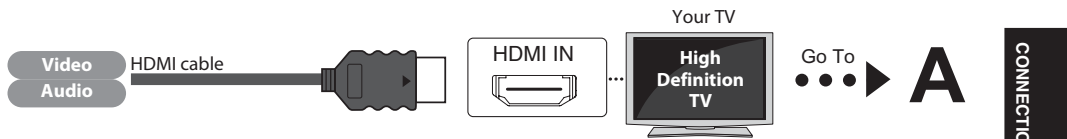


Connecting to a TV

Connect the Blu-ray player to your TV.

1. Choose the appropriate connection, then proceed to the corresponding instruction (A, B or C) on the next page.

Best (Supports up to 1080i/1080p, 1080p/24F resolution.)

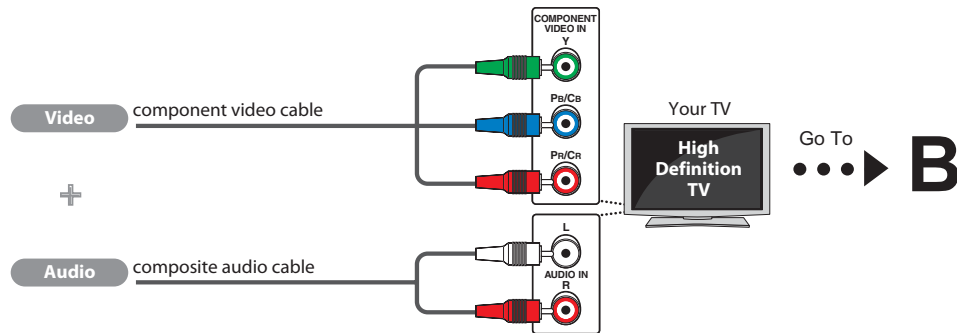


No analog audio connection required.

- To enjoy the viewing of 3D content, HDMI connection with High Speed HDMI cable must be required.

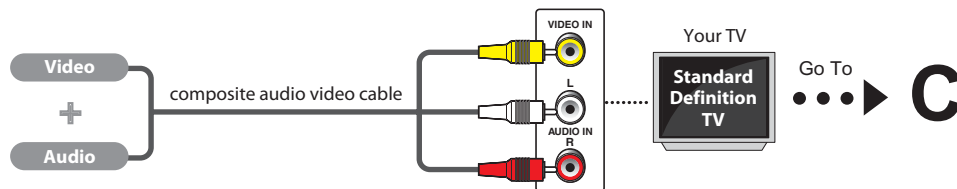
HDMI Cable NOT INCLUDED

Better (Supports up to 1080i resolution.)



Component Video Cable NOT INCLUDED

Basic (Supports only 480i resolution.)

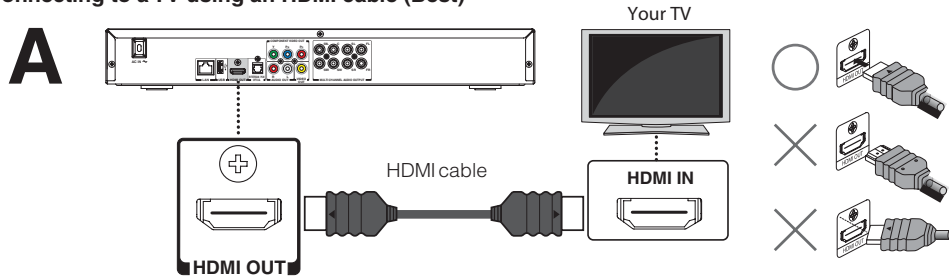


- Connect this unit directly to the TV. If the composite audio / video cables are connected to a VCR, pictures may be distorted due to the copyright protection system.

Composite Video / Audio Cables INCLUDED

2. Connect the cables by following the illustrations below.

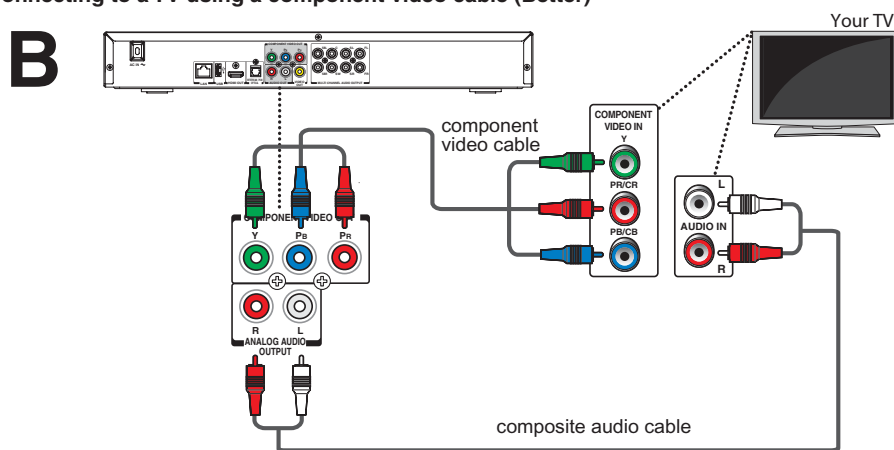
Connecting to a TV using an HDMI cable (Best)



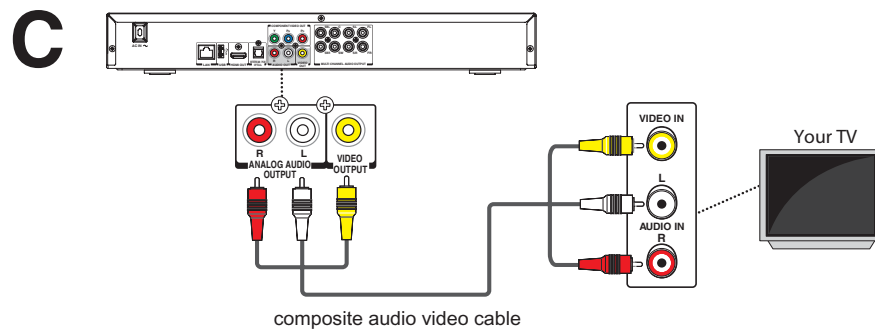
Notes:

- Do not tilt the connector when inserting it into the HDMI jack, and make sure the shapes of the jack and the connector are matched.
- When using non-HDCP compatible TV, the image will not display properly.
- An HDMI cable carries both video and audio signals. If you want to use TV speakers, you do not need to make an additional audio connection if you are using an HDMI cable.

Connecting to a TV using a component video cable (Better)



Connecting to a TV using an A/V cable (Good)

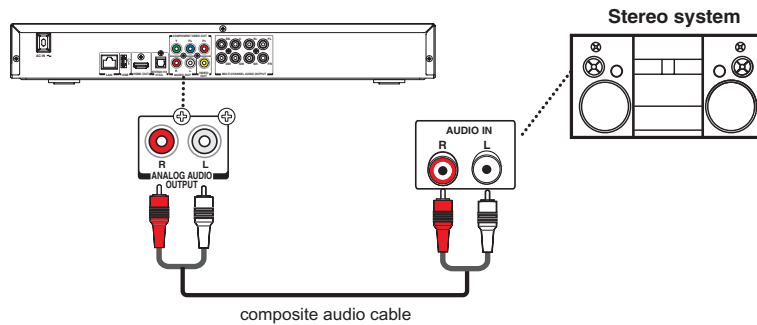




Connecting to an Audio System

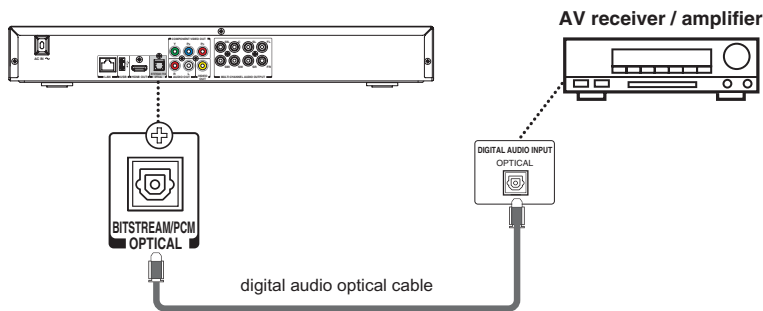
- When you change the connections, all devices should be turned off.
- Refer to the manual accompanying external devices for more information.

Via 2-Channel Analog Audio Output

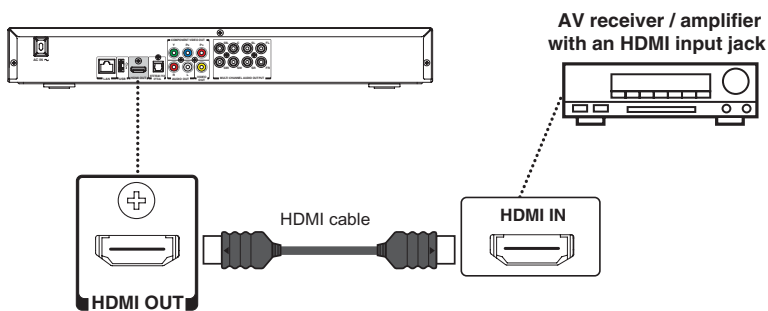


CONNECTIONS

Via Digital Audio Output



Via HDMI Audio Output



Digital Audio Optical Cable and HDMI Cable NOT INCLUDED.

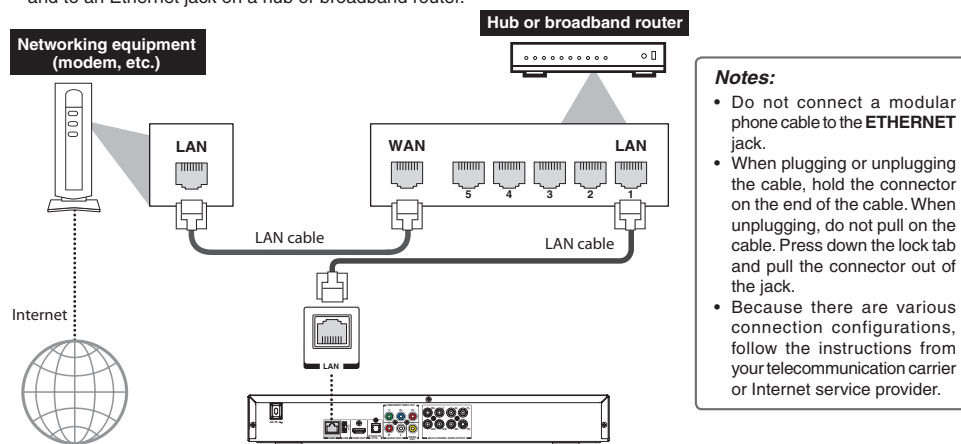
Network Connection

Your Blu-ray disc player can be connected to your home network:

- By connecting an Ethernet cable to the ETHERNET jack on the rear of your player and to a wired hub or router. Using a wired network provides the best performance, because the attached devices connect directly to the network and are not subject to radio frequency interference.
- By connecting through the built-in wireless device and a wireless access point or router.

Connecting your player to a wired router:

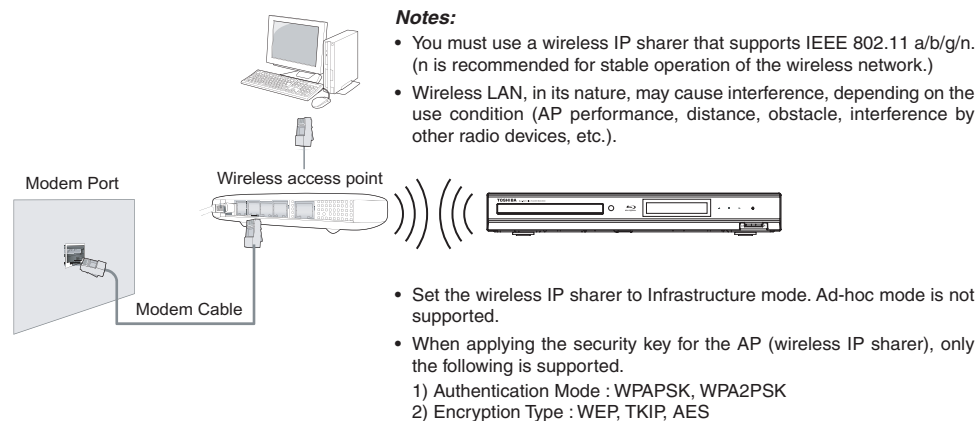
- Connect an Ethernet cable (CAT5 or better with RJ45 connector) to the ETHERNET jack on the back of your player and to an Ethernet jack on a hub or broadband router.



Connecting your player to a wireless access point or router:

Your Blu-ray disc player has an integrated Wi-Fi device and antenna. No physical connection to the wireless router is necessary.

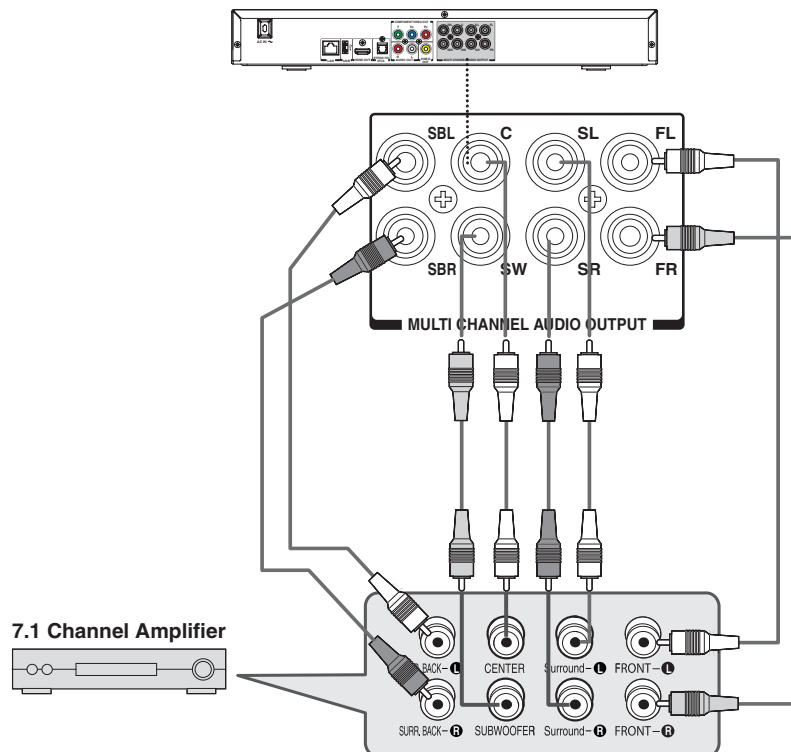
- Configure your player to access the wireless access point or router. For more information, see "Configuring a wireless Internet connection" on page 36.
- The network configuration and connection method may vary depending on the equipment in use and the network environment. Your Blu-ray disc player is equipped with an IEEE 802.11n wireless module, which also supports the 802.11 a/b/g/n standards. For the best wireless performance, we recommend using an IEEE 802.11n certified Wi-Fi network (access point or wireless router).



Connecting the Speakers (For 7.1 Audio Channel)

You can connect the speakers as shown in the following diagram to obtain the 7.1 audio channels effects. Using the audio cables, connect the **MULTI CHANNEL AUDIO OUTPUT** (SBL, SBR, C, SW, SL, SR, FL & FR) terminals on the rear of the Blu-ray disc player to 7.1 Channel ANALOG AUDIO IN terminals of your Amplifier.

For speaker configuration, please refer to "Speaker Setting" on page 32.



CONNECTIONS

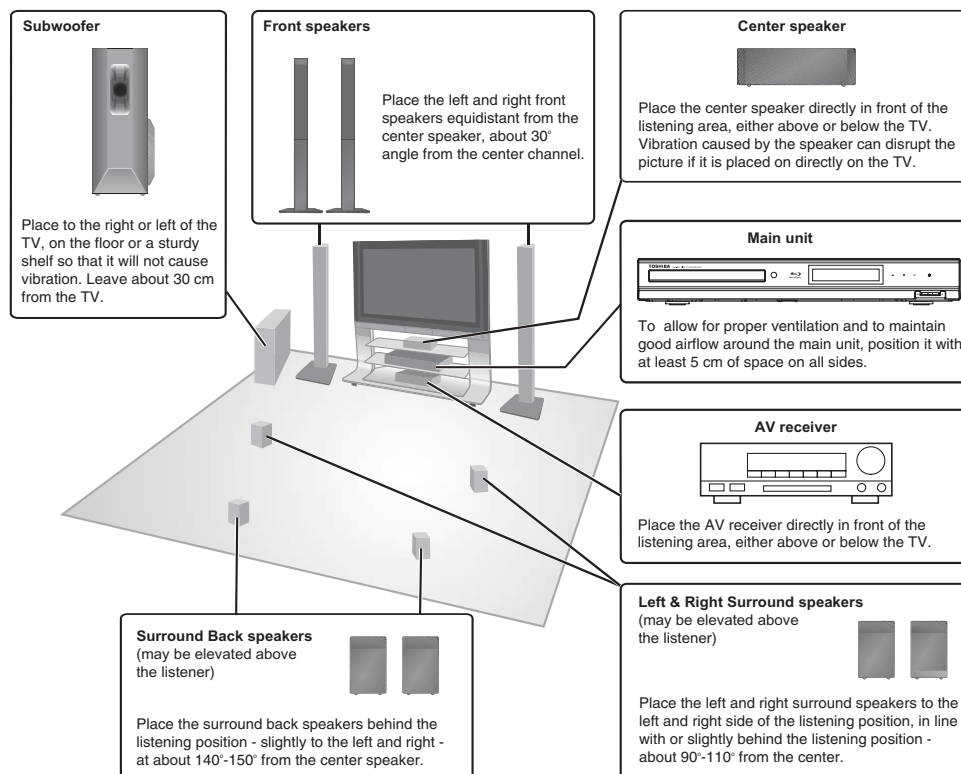
- Notes:**
- Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.
 - The position of terminals may vary depending on the Amplifier. Please refer to the user's manual of your Amplifier.
 - The front left and right outputs on your player and 7.1 channel amplifier must be connected to hear disc menu audio from certain Blu-ray discs.
 - When connecting to a 5.1 channel home theater or receiver, connect all the **MULTI CHANNEL AUDIO OUTPUT** jacks from the player except for the SBL (Surround Back Left) / SBR (Surround Back Right) outputs.

Positioning the Speakers (For 7.1 Audio Channel)

How you set up your speakers can affect the bass and the sound field. Note the following points:

- Place speakers on flat secure bases.
- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with thick curtains.
- Keep your speakers at least 10 mm away from the system for proper ventilation.

Setup example (For 7.1 audio channels)



Note:

The above setup illustration is a basic overview on what to expect when hooking speakers up to your home theater system. The placement may vary depending on how many and what type of loudspeakers you have, as well as your room size, shape, and acoustical properties.

Information on Playback

Before you start playing back a disc, read the following information.

Playable Discs and Files

This unit is compatible to play back the following discs / files.

To play back a disc / file, make sure that it meets the requirements for region codes and color systems as described below. You can play back discs that have the following logos.

Other disc types are not guaranteed to play back.

Playable discs	Logos
Blu-ray Disc - BD-ROM (single / dual layer) - BD-RE (single / dual layer) (Recorded in BDMV format) - BD-R (single / dual layer)(Recorded in BDMV format) (Unclosed discs may not be played back.)	
DVD-ROM	
DVD-RW	
DVD-R	
CD-DA (audio CD)	
CD-RW	
CD-R	
DTS-CD	-

Playable files	Media
AVCHD	DVD-RW/-R
MP3	BD-RE/-R, DVD-RW/-R, CD-RW/-R, SD Memory Card (including SDHC), miniSD Card, microSD Card
Windows Media™ Audio	
JPEG	

- This unit cannot playback the disc contents protected by Windows Media™ Digital Rights Management (DRM).

Readable cards

SD Memory Card (8 MB - 2 GB)
 SDHC Memory Card (4 GB - 8 GB)
 miniSD Card (8 MB - 2 GB)
 microSD Card (8 MB - 2 GB)

Playable files/data

MP3, Windows Media™ Audio, JPEG, picture-in-picture commentary, subtitles or other extras for BD-ROM

- This unit supports SD Memory Card with FAT12/FAT16 file system, and SDHC Memory Card with FAT32 file system.
- This unit does not support NTFS file system.
- This unit may not read the SD Memory Cards formatted on a computer. If that is the case, please reformat the SD Memory Cards in this unit and try again.
- This unit does not support miniSDHC and microSDHC Memory Card.
- For miniSD Card and microSD Card, the adapter is necessary.



- Portions of this product are protected under copyright law and are provided under license by ARIS / SOLANA / 4C.
- Please keep the SD Memory Cards in their cases when you are not using them.
- Do not try to open or modify the card.
- Do not touch the terminal surface with your fingers or any metals.
- Do not attach additional labels or stickers to cards.
- Do not remove the label of the SD Memory Cards.
- This unit recognizes up to 8 characters of file name in the SD Memory Card. Characters after 8th will not be displayed.

Unplayable Discs and Files

The following discs will not be played back in this unit.

- CD-ROM
- CD-I (compact disc-interactive)
- DVD-RAM
- VSD (video single disc)
- DVD-audio
- HD DVD
- VIDEO CD
- Unfinalized disc
- SACD
- BD / DVD / SD Memory Card contains DivX® files.
- BD / DVD hybrid disc (played back as a BD-video only)
- BD that contains AVCHD files
- DVD-RW/-R recorded in non compatible recording format.
- Super Audio CD - Only the sound on the CD layer can be heard. The sound on the high-density Super Audio CD layer cannot be heard.
- Playability of dual discs are not guaranteed.



Playback

Color Systems

BD-video and DVD-video are recorded in different color systems throughout the world. The most common color system is NTSC (which is used primarily in the United States and Canada).

Region Codes

This unit has been designed to play back BD-video with region "A" and DVD-video with region "1" or "ALL". You cannot play back BD-video or DVD-video that are labeled for other regions. Look for the symbols on the right on your BD-video or DVD-video.

If these region symbols do not appear on your BD-video or DVD-video, you cannot play back the disc in this unit. The letter or number inside the globe refers to region of the world. A BD-video or DVD-video labeled for a specific region can only be played back in the unit with the same region code.



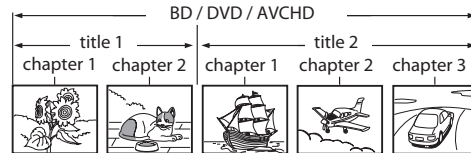
BD-video



DVD-video

Structure of Disc/SD Card Contents

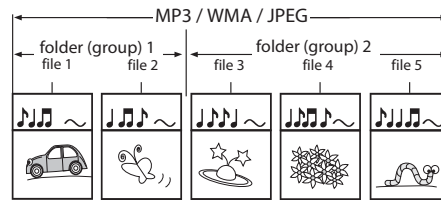
The contents of BD / DVD / AVCHD are generally divided into titles. Titles may be further subdivided into chapters.



Audio CD is divided into tracks.



Data discs, USB device, SD Memory Cards containing MP3 / WMA / JPEG are divided into folders, and the folders are subdivided into files.





Playing a Disc

This section shows you the basics on how to play a disc.

CAUTION:

Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.

Basic playback

Preparations

- When you want to view a disc, turn on the TV and select the video input connected to the Blu-ray disc player.

1 Press the ON/STANDBY button.



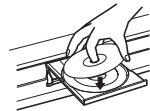
The Blu-ray disc player turns on.

2 Press OPEN/CLOSE.



The disc tray opens.

3 Place the disc on the disc tray.



With the playback side down

4 Press OPEN/CLOSE to close the disc tray.



Playback starts.

If you insert a Blu-ray disc or a DVD that contains a top menu, a menu may appear. Use **▼/▲/◀/▶** to select the title you want to view, then press **OK** to start playback.

- You may need to press the **POPUP/TOP MENU** or **MENU** button to display disc menu (depending on the actual Blu-ray disc or DVD.)

■ To start playback in the stop mode

Press **▶ PLAY**.

■ To pause playback (still mode)

Press **⏸ PAUSE** during playback.

To resume normal playback, press the **▶ PLAY** button.

- The sound is muted during still mode.

■ To stop playback

Press **■ STOP**. The home menu is displayed.

For Blu-ray discs, press **▼/▲** to select BD-ROM, then press **OK** to start playback at the beginning of the disc.

For DVDs/audio CDs, press **▶ PLAY** to resume normal playback.

- Depending on the disc, playback starts where it stopped or at the beginning of the disc.

- If you press **■ STOP** twice, playback stops completely. To start playback again, press **▶ PLAY**. Playback starts at the beginning of the disc.

■ To remove the disc

Press **OPEN/CLOSE**.



Remove the disc after the disc tray opens completely.

Be sure to press the **OPEN/CLOSE** button to close the disc tray after you remove the disc.

■ To turn the power off

Press **ON/STANDBY** button to turn the unit off.

PLAYBACK

Variable Speed Playback

You can play discs at various speeds, and resume playback from the location where you stopped playback.

Playing in fast reverse / forward directions

Press ◀◀ or ▶▶ during playback.

▶▶ : Fast forward playback

◀◀ : Fast reverse playback

Each time you press this button, the fast-forward or fast-reverse speed changes in the following sequence:

Fast x 2 → Fast x 4 → Fast x 8 → Fast x 16
→ Fast x 32 → Fast x 64 → Fast x 128.

■ To resume normal playback

Press ▶ PLAY.

Notes:

- The Blu-ray disc player mutes sound and subtitles during reverse and forward scan.
- The playback speed may differ depending on the disc.

Playing frame by frame

Press ■▶▶ during still playback.



Each time you press this button, the picture advances one frame.

■ To resume normal playback

Press ▶ PLAY.

Note: The sound is muted during frame by frame playback.

Playing in slow motion

Press ■▶ during playback.



Each time you press this button, the slow-motion speed changes in the following sequence:

Slow x 1/2 → Slow x 1/4 → Slow x 1/8

■ To resume normal playback

Press ▶ PLAY.

Notes:

- The sound is muted during slow-motion playback.
- 3 speeds are available.

Locating a Desired Section

Normally, Blu-ray discs and DVDs are divided into titles, and the titles are sub-divided into chapters. Audio CDs are divided into tracks. You can quickly locate any specific title, chapter, or track.

Locating a title using the top menu

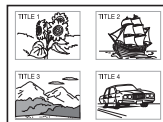
1 Press POPUP/TOP MENU.

POPUP/TOP MENU



The top menu appears on the TV screen.

e.g.



2 Press ▼ / ▲ / ◀ / ▶ to select the title you want.

If the titles in the top menu are assigned a number, you can directly locate a specific title by pressing its designated number with the number buttons.

3 Press OK.

Playback starts from Chapter 1 of the selected title.



Locating a specific chapter or track



Press **⏮** or **⏭** repeatedly to access the chapter or track number you want.

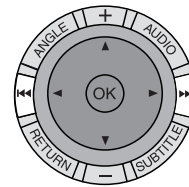
Playback starts from the selected chapter or track.

⏭ To locate succeeding chapters or tracks.

⏮ Playback starts from the beginning of the current chapter or track. When you press twice in quick successions, playback starts from the beginning of the preceding chapter or track.

⏭ and **⏮** refer to item 26 and item 10 on page 9 and page 8 respectively.

You can also press **⏮** or **⏭** (shown as in the right illustration) on the remote control to access the desired chapter or track.



Note: Some titles may not display chapter numbers.

Accessing a Specific Location Directly

Locating a specific title/chapter/time



PLAYBACK

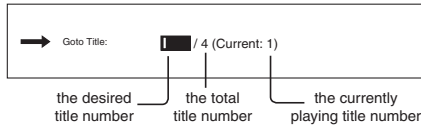
1 Press GOTO.

The Goto menu appears on the TV screen.

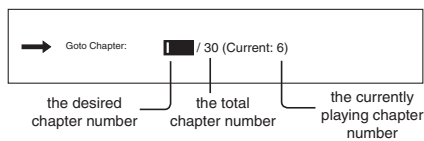
GOTO
○ e.g.



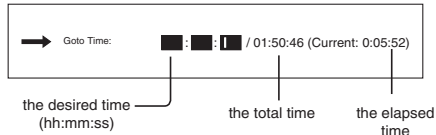
a. Press the GOTO button once:



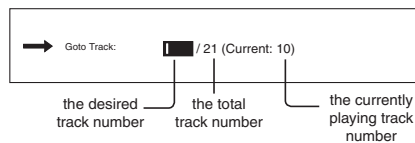
b. Press the GOTO button twice:



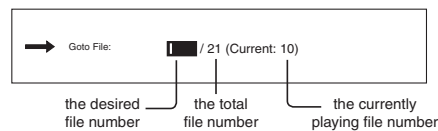
c. Press the GOTO button for 3 times:



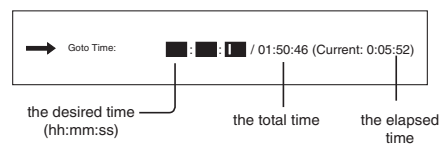
CD (Press GOTO once)



MP3 **WMA** (Press GOTO once)



MP3 **WMA** (Press GOTO twice)



2 Press the number buttons to enter title, chapter (track) number or time.

While accessing the TIME using number buttons, just enter 2 digits in order.

The first two numbers you entered represent hours. The second two numbers you entered represent minutes.

The third two numbers you entered represent seconds.

Press the **CLEAR** button to reset the numbers.

3 Press OK.

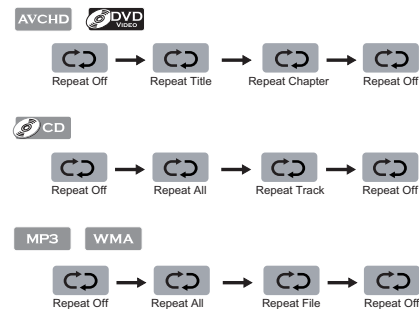
Playback starts from the selected section.

Repeating a Title, Chapter, Track or Specific Segment

Repeating a title, chapter or track

Press **REPEAT** repeatedly to select the desired repeat mode during playback.

e.g.



Notes:

- The repeat setting will be cancelled when you stop playback.
- The chapter, title or track repeat will be cleared when moving to another chapter, title, track / file or folder.
- Repeat playback does not function during A-B repeat playback.
- Chapter and title repeat are not available with some scenes.
- When the repeat setting is set for a MP3 or WMA folder (file), the repeat setting will be cancelled if you select other MP3 or WMA folder (file) to playback.

Repeating a specific segment

1 Press **A-B** at the desired starting point **A** during playback.



2 Press **A-B** at the desired ending point **B** during playback.



The BD player automatically returns to point A and starts repeat playback of the selected segment (A-B).

■ To resume normal playback

Press **A-B** until  is displayed.


Notes:

- Some discs may not permit A-B repeat operation.
- You can specify a segment only within the current title or track.
- You cannot set the A-B repeat function for a segment that includes multiple camera angles.
- A-B repeat does not function during chapter, title, track or all repeat playback.

Playing in a Random Order

Playing tracks or files in a random order

Press **RANDOM** repeatedly to select **Random ON** during playback.

Once you turn **RANDOM** function on, the **RANDOM**  indicator will be activated and the system will play all files in a random sequence.

■ To resume normal playback

Press **RANDOM** repeatedly until  is displayed.



PIP (BONUSVIEW) Setting

Some Blu-ray discs have the PIP function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing **BONUSVIEW** whenever the scene contains the secondary video. See the documentation that came with the disc for playback instructions.

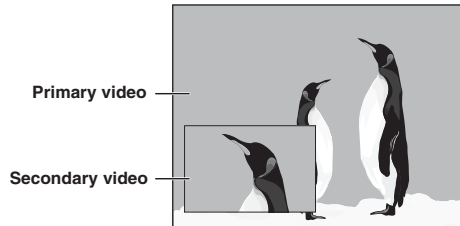
- 1 Press BONUSVIEW during playback to turn PIP mode on.**



- 2 Press 2nd AUDIO to turn the audio for the video in the PinP window on or off.**



- 3 Press 2nd SUBTITLE to turn the subtitle for the video in the PinP window on or off.**



■ To resume normal playback

Press **BONUS VIEW** to turn off the PIP mode.

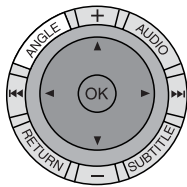
Note: PIP audio cannot be heard unless **Bitstream Mixed** has been selected on the Audio menu. For more information, see "Audio Setting" on page 31.

PLAYBACK

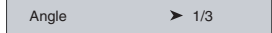
Camera Angle

Some BD-video and DVD-video contain scenes which have been shot simultaneously from various angles.

- 1 During playback, press ANGLE.**



The selected angle will be displayed on the display bar at the top of the TV screen.

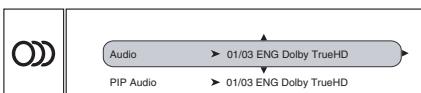
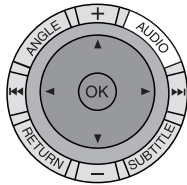


The first digit indicates the current viewing angle, and the second digit indicates the total number of viewing angles.

- 2 Press \blacktriangleright , then use \blacktriangledown / \blacktriangle to select the desired angle.**

Audio Selection

- 1 During playback, press AUDIO.**



In the example "01/03 ENG Dolby TrueHD", "01" indicates the currently selected audio channel. "03" indicates the total number of audio channels. "ENG" indicates the audio language. "Dolby TrueHD" describes the currently selected audio format.

- 2 Press \blacktriangleright , then use \blacktriangledown / \blacktriangle to select the desired audio language and audio format.**

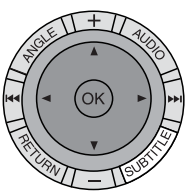
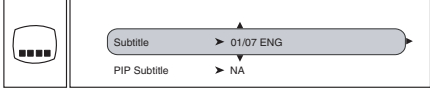
Notes:

- The available options of Audio vary from different disc format.
- PIP Audio is not available for all discs. It only applies to Blu-ray discs that supports picture-in-picture features.



Subtitle Selection

1 During playback, press **SUBTITLE**.


In the example "01/07 ENG",
 "01" indicates the currently selected subtitle.
 "07" indicates the total number of subtitles.
 "ENG" indicates the subtitle language.




















2 Press **▶**, then use **▼ / ▲** to select the desired subtitle.

Notes:

- The available options of Subtitle vary from different disc format.
- PIP Subtitle is not available for all discs. It only applies to Blu-ray discs that support picture-in-picture features.

Displaying On-screen Information

You can check information about the current disc by pressing .

On-Screen display       	
	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">On-Screen Display</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>Title 1 Chapter 1/25</p> <p>0:02:00 1:57:35</p> </div> <div style="margin-left: 20px;"> <p>Off ▶</p> </div> </div> </div>
 	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>Title 1 Chapter 1/18</p> <p>0:02:00 1:57:35</p> </div> <div style="margin-left: 20px;"> <p>Off ▶</p> </div> </div> </div>
	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>Track 1/12</p> <p>0:00:20 0:05:35</p> </div> <div style="margin-left: 20px;"> <p>Off ▶</p> </div> </div> </div>
 	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>File: 1/5 song1.mp3</p> <p>Title: Cool Track</p> <p>Artist: Ricardo Funiccio</p> <p>Album: Dead Dux</p> <p>0:02:00 0:30:00</p> </div> <div style="margin-left: 20px;"> <p>Off ▶</p> </div> </div> </div>
	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>File: 4/13 flower.jpg</p> </div> <div style="margin-left: 20px;"> <p>Off </p> </div> </div> </div>



Playing AVCHD/MP3/WMA/JPEG Files

AVCHD MP3 WMA JPEG

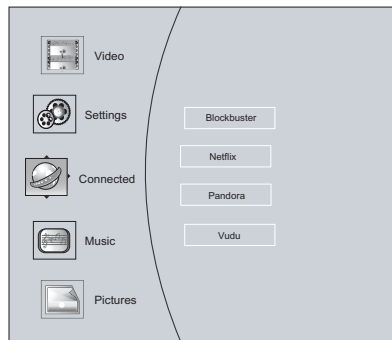
You can play AVCHD, MP3, WMA or JPEG files that have been recorded on a disc on the Blu-ray disc player.

Playing files on a data disc

When you insert a data disc containing picture, music, or video files into your player, icons are added to the menu to indicate that video, music, or picture files are available for playback.

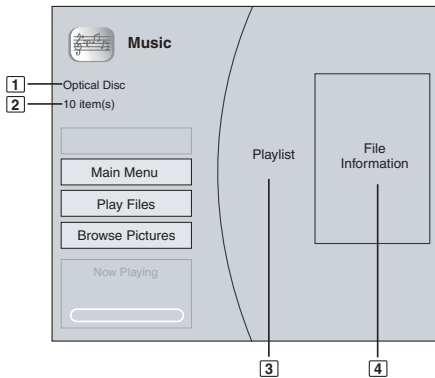
1 Press OPEN/CLOSE to open the disc tray, place a disc that contains video/MP3/JPEG files.

A selection menu will appear on the screen.



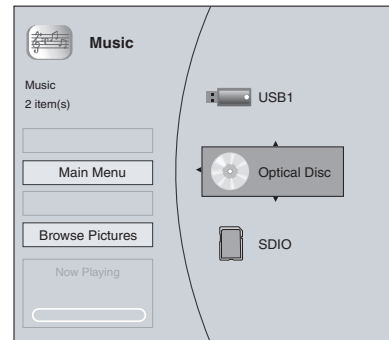
2 Press ▼ / ▲ to select the Music or Pictures, and then press OK. (For example: selecting the Music)

If no USB device or SD card is inserted, the system will directly access the following screen:



- 1: displays source (Optical Disc/USB/SD) device name.
- 2: defines the total number of files that a device contains.
- 3: shows all files name.
- 4: shows the information on the currently selected file.

If a USB device and a SD card containing music are inserted at the same time, the system will enter the source selection screen shown as below:



For SD card and USB device operation, please refer to "Using an SD card" on page 26 and "Using a USB Device" on page 27.

3 Press ▼ / ▲ to select the desired MP3 file, and then press OK to start playing.



- ⌘: Press **RANDOM** repeatedly to turn random playback on or off.
- ↺: Press **REPEAT** repeatedly to select the desired repeat mode.

4 To view JPEG picture files while playing music files, follow the following steps:

1. Press **RETURN**.
2. Use ▼ / ▲ to select Browse Pictures, then press **OK**.
3. Select the desired JPEG file and press **OK** to start viewing.

PLAYBACK

1: displays source (Optical Disc/USB/SD) device name.
2: defines the total number of files that a device contains.
3: shows the currently playing file number.
4: shows all pictures in thumbnail mode.

Settings: This option enables you to define Slide Show Effects (None, Horizontal Scroll, Fade and Shutter) and Slide Show Delay (5 Seconds, 2 Seconds, 1 Seconds, No Delay, 10 Seconds, 15 Seconds and 30 Seconds). After setting, press **▼** to highlight Ok and then press **OK** to confirm.

Main Menu: Returns to the main menu.
Media Menu: Returns to select the source. This item only appears if your optical disc, USB device or SD card is inserted.
Previous Folder: This item only appears if your optical disc, USB device or SD card contains several different picture folders.
Start Slide Show: This option enables you to view picture (files) one after another automatically.
Browse Music: Goes back to Music folder.

5 To stop playing and return to the main menu, follow one of the steps described below:

- Press **STOP**.
- Press **RETURN**.
- Press **◀**, then use **▼ / ▲** to highlight Main Menu and then press **OK** to confirm.

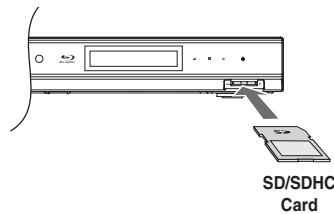
Using an SD Card

This unit supports the use of a Secure Digital (SD) card (not included).

CAUTION: Before inserting the SD card, please read carefully the relevant information on **“Playable Discs and Files”** on page 17.

Inserting an SD card

1 Inserting an SD card fully into the slot on the front of Blu-ray disc player until it clicks as illustrated.



2 Press **▼ / ▲** to select Music or Pictures, and then press **OK**.

If no USB device or optical disc containing music or pictures is inserted, the system will directly load the data on the inserted SD card. Otherwise, it will enter the source selection screen. If so, please follow the operation instructions in **“Playing files on a data disc”** on page 25 for details.

■ **To pause playback**

Press **||** during playback. To resume normal playback, press **▶ PLAY**.

■ **To stop playback**

Press **■ STOP**.

■ **Removing the SD card**

In stop mode, gently push the SD card into the slot and then pull it out slowly.

Notes:

- If you cannot easily insert the memory card, you may have inserted it incorrectly. Try to turnover the card and then insert again. Do not force the memory card into the memory card slot.
- Do not remove the SD card during playback.



Using a USB Device

You can play MP3, WMA or JPEG files that have been stored on USB devices on the Blu-ray disc player.

Operating a USB device

1 Inserting a USB device into the USB slot on the back of Blu-ray disc player until it clicks.

2 Press **▼ / ▲** to select Video, Music or Pictures, and then press **OK**.

If no optical disc or SD card containing music or pictures is inserted, the system will directly load the data on the USB device. Otherwise, it will enter the source selection screen. If so, please follow the operation instructions in "Playing files on a data disc" on page 25 for details.

■ **To pause playback**

Press **⏸** during playback. To resume normal playback, press **▶ PLAY**.

■ **To stop playback**

Press **■ STOP**.

■ **Removing the USB device**

In stop mode, gently pull the USB device out slowly.

Notes:

- If you cannot easily insert the USB device, you may have inserted it incorrectly. Try to turnover the device and then insert again.
- Do not remove the USB device during playback.

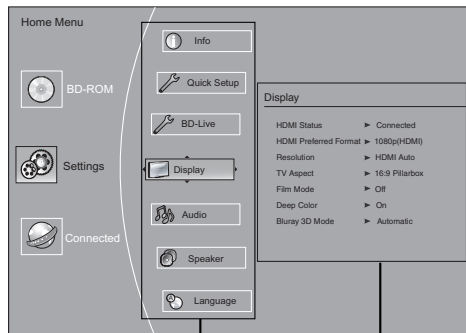
PLAYBACK

Customizing the Function Settings

You can change the default settings to customize performance to your preference.

General Operations

1. Press **▼ / ▲** to select **Settings** in home menu while in full stop mode, the Settings menu appears.
2. Press **▶** button, then use **▲ / ▼** button to select the setting options.
3. Press **OK** button.
4. Press **◀** or **RETURN** button to return to the previous menu.



Settings menu items submenu display area

3. Follow the on-screen instructions to customize the following settings to your preference:

- **OSD Language Settings**
- **Resolution**
- **TV Aspect**
- **Wireless**
- **Optical Disc Auto Play**
- **Screen Saver Duration**

4. After setting, press **OK** to confirm and exit the setup.

Note: If it is the first time for the player to start up or users restore all settings to factory defaults, the system will prompt you to perform Quick Setup. Repeat the steps described as above to complete the setup.

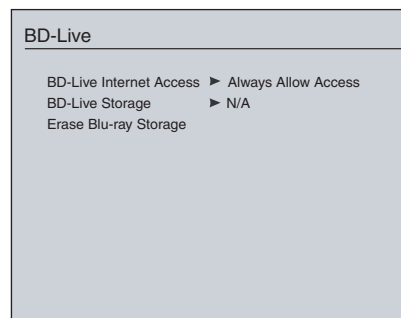
Using BD-Live™ Features

Some (but not all) BD discs contain additional features that are made available to players that are connected to the internet, and have additional memory added. These additional features may include things like:

- the ability to download new movie trailers
- additional 'commentary' by actors and directors
- multiplayer game play and chat

In order to access BD-Live functions, the player must be properly configured for BD-Live internet access, and it must be equipped with additional memory.

1. In the main menu of **Settings**, press **▶** button, then use **▲ / ▼** button to select **BD-Live**, then press **OK**.



2. Press **▲ / ▼** to select an option, and then press **OK**.
3. Use **▲ / ▼** to select the desired setting, and then press **OK** to confirm.
4. Press **◀** to go to the previous menu.

Info Menu

This submenu displays the following information:

- **Software Version**
- **Software Date**
- **Netflix ESN**

1. In the main menu of **Settings**, press **▶** button, then use **▲ / ▼** button to select **Info** to display the software version, software date and Netflix ESN.
2. Press **◀** or **RETURN** to go to the previous menu.

Performing Quick-Setup

1. In the main menu of **Settings**, press **▶** button, then use **▲ / ▼** button to select **Quick Setup**, and then press **OK** to confirm.

2. Press **OK** to perform Quick Setup.

To exit the setup menu:

- Use **▼** button to highlight "No thanks. I'll go through the full setup menu later", and then press **OK**.
- Or press **◀** button directly.

Customizing the Function Settings

BD-Live Internet Access:

- **Limit Access** — Allows Internet access with valid “BD-Live” network access approval.
- **Always Allow Access** — Always allows BD-Live Internet access.
- **Prohibit Access** — Never allows BD-Live Internet access.

In order to set the player up for BD-Live Internet Access, perform the following steps:

1. In the main menu of **Settings**, press ► button, then use ▲ / ▼ to select **BD-Live**, then press **OK**.
2. Press ▲ / ▼ to select “**BD-Live Internet Access**”, and then press **OK**.
3. Use ▲ / ▼ to select the desired setting, and then press **OK** to confirm.
4. Make sure that “**Limit Access**” or “**Always Allow Access**” is checked.
5. Once the USB device or SD card has been inserted, if there is not at least 100Mbyte of free space on the device, you should choose “**Erase Blu-ray Storage**” from the BD-Live setup menu.
6. Press ◀ to return to the main menu of **Settings**, then use ▲ / ▼ to highlight **Network**, and then press **OK**. (For details, please refer to “Network Connection Setting” on Page 36.)

Notes:

- Depending on your connection environment, it may take time to connect to the Internet or the Internet may not be connected.
- When BD-Live function are used and the unit is connected to the Internet, you may be charged for this communication.
- Do not remove the USB device or SD card when using the BD-Live function.

BD-Live Storage:

This option is used to tell the BD player whether or not to use an inserted SD card or USB device to store BD-Live content (movie trailers, additional scenes, etc.).

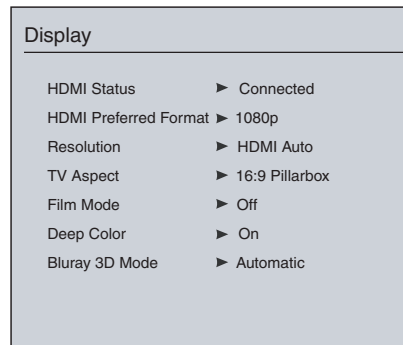
In order to add BD-Live memory for BD-Live Internet Access, insert an USB device or SD card (1GB is recommended) into the USB slot or SD card slot on the player.

Erase Blu-ray Storage:

If you choose **OK** to erase Blu-ray storage, all bookmarks and BD-Live content saved in memory are deleted.

Display Setting

1. In the main menu of **Settings**, press ► button to select **Display**, and then press **OK** to confirm.
2. Press ▲ / ▼ to select an option, and then press **OK**.
3. Use ▲ / ▼ to select the desired option, and then press **OK** to confirm your selection.
4. Press ◀ to go to the previous menu.



HDMI Status:

This option displays the HDMI status. If an HDMI TV is connected, **Connected** appears. If an HDMI TV is not connected, **Disconnected** appears.

HDMI Preferred Format:

This option shows the best HDMI format for the connected TV.

Resolution:

You can define the video output resolution in this option. In case that the menu of “Resolution” setting disappears, make composite video (yellow) connection to restore it, then select the resolution which is compatible with the connected TV.

Notes:

- Selecting a resolution the TV does not support could result in an unstable picture or loss of the picture. See the documentation that came with the TV to find the resolutions the TV supports.
- Only the HDMI output on your player supports 1080p video output at any frame rate. If the TV is connected to the component output, the video output is limited to 1080i or lower.

Customizing the Function Settings

TV Type	Resolution
If your TV is a high-definition TV (HDTV) connected to the HDMI jack on your player and you want your player to set the output resolution based on information exchanged between the TV and your player over the HDMI cable.	HDMI Auto
If the TV is a high-definition TV (HDTV) capable of 1080p (any frame rate) connected to the HDMI jack on your player	1080p
If your TV is a high-definition TV (HDTV) capable of 1080i only	1080i
If your TV is a high-definition TV (HDTV) capable of 720p only	720p
If your TV is an enhanced-definition TV (EDTV)	480p
If your TV is a standard-definition NTSC TV (American or Asian SD TV)	480i

TV Aspect:

Depending on the type of television you have, you may want to adjust the screen setting.

- **16:9 wide** — You can view the full 16:9 picture on your widescreen TV.
- **16:9 Pillarbox** — Movie will be displayed in the center of the screen and vertical bars will appear on sides of the screen.
- **4:3 Pan and Scan** — Select when you want to see the 16:9 video supplied by the Blu-ray Disc/DVD without the black bars on top and bottom, even though you have a TV with a 4:3 ratio screen. The extreme left and right portion of the movie picture will be cut off.
- **4:3 Letterbox** — Select when you want to see full 16:9 ratio image supplied by a Blu-ray Disc/DVD, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

Notes:

- Depending on the disc type, some aspect ratios may not be available.
- If you select an aspect ratio and option which is different from the aspect ratio of your TV screen, the picture might appear distorted.

Film Mode:

Movies are recorded on film at a rate of 24 pictures (frames) per second. Many of the movies on Blu-ray discs are placed on the discs at this frame rate. If your TV supports 24 frames per second, but you would prefer viewing the video at a higher frame rate, you should turn off Film Mode. **Off** selects a 60 frames/second output format.

Deep Color:

This option decides whether to turn off the Deep Color (color depth) setting for video signals output from the HDMI OUT jack.

Connecting the player and a TV that supports Deep Color allows more accurate color reproduction than when connecting it to a TV that does not support Deep Color. It is recommended to set this option **Off** if the picture is unstable or colors appear unnatural.

Bluray 3D Mode:

Select whether to play a Blu-ray Disc with 3D contents in 3D Mode.

Automatic: The 3D Blu-ray disc is played in 3D mode if your product detects a TV which supports it. It is played in 2D mode if your product detects a TV which can not support it.

Forced 2D: The 3D Blu-ray disc is played in 2D mode at all times. Select this option to view a picture without 3D effect or when a TV cannot support 3D Blu-ray discs.

Notes:

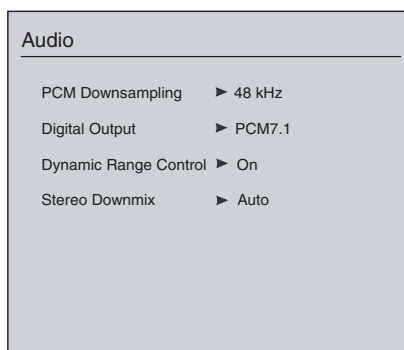
- If you or any viewer experiences the following symptoms or any other discomfort from viewing 3D video images, stop viewing and contact your health care provider:
Convulsions, Eye or muscle twitching, Loss of awareness, Altered vision, Involuntary movements, Disorientation, Eye Strain, Nausea/Vomiting, Dizziness, Headaches or Fatigue
- Carefully read instructions provided with your display and/or 3D glasses before 3D viewing.
- If you want to enjoy a 3D content, connect a 3D device (3D compliant AV receiver or TV) to the product and wear a 3D glass before playing the 3D content.
- While watching the 3D video, all analogue component and composite signals will be blocked automatically.
- All 3D signals are output only using the HDMI cable and through the HDMI OUT port.
- As the video resolution in 3D play mode is fixed according to the resolution of the original 3D video, you can not change the resolution to your preference.
- You must use a high-speed HDMI cable for a proper output of the 3D signal.
- You can not use this product for switching a 2D content to 3D.

Customizing the Function Settings

Audio Setting

The settings in the Audio menu will configure the BD player's digital audio outputs (**HDMI** or **Optical**).

1. In the main menu of **Settings**, press ► button, then use ▲ / ▼ button to select **Audio**, then press **OK** button.



2. Press ▲ / ▼ to select an option, and then press **OK**.
3. Use ▲ / ▼ to select your preferred audio items, and then press **OK** to confirm your selection.
4. Press ◀ to go to the previous menu.

PCM Downsampling:

If you don't have a surround sound receiver connected to the BD player, you should **leave the PCM downsampling to 48 kHz**, and proceed to the next setup menu item. This is true regardless of whether the audio is connected to the TV with HDMI or the analog stereo outputs.

If you have a surround sound receiver connected to the BD player, and you have connected to the surround receiver via the BD player's analog multichannel audio outputs, this setting has no effect on the audio going to the analog outputs of the player. Leave the PCM downsampling to 48 kHz, and proceed to the next setup menu item.

If you have a surround sound receiver connected to the BD player, and you have connected to the surround receiver via the BD player's HDMI output, this setting has no effect on the audio going to the HDMI output of the player. **Leave the PCM downsampling to 48 kHz**, and proceed to the next setup menu item.

If you have a surround sound receiver connected to the BD player via optical cable, set this menu item to the maximum PCM sampling rate that your surround receiver can accept (48 kHz or 96 kHz). **If in doubt, consult your surround receiver's manual or set to 48 kHz.**

Note: Incorrectly setting the digital audio output's PCM sampling rate too high may result in unpredictable audio playback.

Digital Output:

- **PCM Stereo** — Sets the output to PCM Stereo if you have not an audio receiver connected to your Blu-ray disc player or the audio receiver connected to Blu-ray disc player is not a 5.1/7.1 channel receiver.
- **Bitstream HD** — Lets your player send Dolby TrueHD or DTS-HD MA bitstreams over HDMI (if your player is connected to a compatible HDMI audio receiver). If your player is not connected to a compatible HDMI receiver (for example, your player is connected directly to the TV or your player is connected to an audio receiver using an optical cable), a compatible audio signal is automatically sent over the HDMI and optical connections. With this setting, Blu-ray audio is limited to the soundtrack for the main movie (no PIP audio).
- **Bitstream Legacy** — Sends a DTS or Dolby Digital bitstream from the disc over the HDMI and optical connections. Blu-ray audio is limited to the soundtrack for the main movie (no PIP audio).
- **Bitstream Mixed** — Sends a mixed (PIP audio and movie audio) DTS audio stream over the HDMI and optical connections. This mode is primarily intended for use when you want to hear both PIP audio and the movie audio.
- **PCM 5.1** — Sends a PCM audio signal of up to 5.1 channels over the HDMI connection and up to 2 channels over the optical connection.
- **PCM 7.1** — Sends a PCM audio signal of up to 7.1 channels over the HDMI connection and up to 2 channels over the optical connection.

Dynamic Range Control:

Dynamic Range Control means that you can allow the BD player to make the loud parts of a movie's audio track quieter than they would be in the theatre, without making the dialog of the actors any quieter.

This would be useful, for instance, when you want to watch a movie in the evening when others might be sleeping.

Notes: This setup menu item **has no effect** unless:

- The device playing the disc's audio (TV or surround audio receiver) is connected to the BD player's analog audio outputs; OR
- you have selected "Bitstream Mixed" in the BD player's audio setup menu.

When **Dynamic Range Control** is set to **Off**, movie soundtracks are played with the standard dynamic range.

When movie soundtracks are played at low volume or from smaller speakers, you can set **Dynamic Range Control** to **On**. Your player applies appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.

Customizing the Function Settings

Selecting the "Auto" option turns on the Dynamic Range Control for all BD movie soundtracks except Dolby TruHD. If you have selected a TruHD track on the BD disc, the "auto" selection tells the BD player to only turn on dynamic range control if information embedded in the TruHD sound track tells it to do so.

Stereo Downmix:

Select whether to downmix the multi-channel audio into fewer channels.

- **Auto** — Downmixes the multi-channel audio into the specific stereo that the connected equipment supports.
- **Stereo (LoRo)** — Downmixes the multi-channel audio into two channel stereo. Choose when the Blu-ray disc player is connected to the equipment that does not support virtual surround function such as Dolby Pro Logic.
- **Surround Encoded (LtRt)** — Downmixes the multi-channel audio into surround compatible stereo. Choose when the Blu-ray disc player is connected to the equipment that supports virtual surround function such as Dolby Pro Logic.

Speaker Setting

Once the speakers are connected to the system and properly configured, you can check to verify that the connections to the speakers are correct by running an audio speaker test.

To run this test, follow the instructions described as below:

1. In the main menu of **Settings**, press **▶** button, then use **▲/▼** button to select **Speaker**, then press **OK**.

Note: This setup menu item has no effect unless:

- If you have selected 'Bitstream Mixed' in the audio menu, these menu choices will have no effect. (Each channel's full audio spectrum will be sent to each speaker, regardless of the speaker size selected)
 - If you don't know the type of speakers attached to your surround sound system, consult the manual for your speaker system.
2. Use **▼/▲/▶/◀** to highlight the desired speaker, then press **OK** to enter.
 3. Press **▼/▲** to choose the desired audio signal, and then press **OK** to confirm.

Front Left & Right Speakers:

- By setting the front left speaker's size, the front right speaker's size is automatically changed to match.
- The front speakers can not be turned off. They can only be set to 'Small' or 'Large'.

Center Speaker:

- If the front speakers have been set to small, the center speaker can only be set to 'Small' or 'Off'.
- Setting a speaker to 'off' will result in no sound being delivered to that speaker.

Subwoofer:

- If you don't know the crossover frequency of your subwoofer, consult the manual for your speaker system.

Surround Left & Right Speakers:

- By setting the left surround speaker's size, the right surround speaker's size is automatically changed to match.
- If the front speakers have been set to small, the surround speakers can only be set to 'Small' or 'Off'.

Rear Left & Right Speakers:

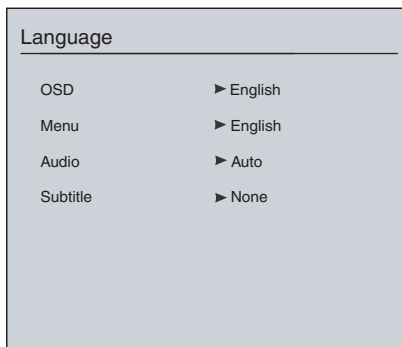
- By setting the left rear speaker's size, the right rear speaker's size is automatically changed to match.
- If the front speakers have been set to small, the rear speakers can only be set to 'Small' or 'Off'.

4. Use **▼/▲/▶/◀** to move the highlight box to the **Test** button on the bottom, then press **OK**. A message will appear.
5. Press **▼/▲** to choose the desired audio signal. You can select between Pink, 1kHz Sine and White.
6. Press **OK** to begin the speaker test. The audio signal will be sent to a different speaker every approximately every two seconds. The audio test will highlight which speaker is supposed to be getting the sound on the screen.
7. To stop the audio test, press one of the **▼/▲/▶/◀** buttons.
8. Press **◀** or **RETURN** to go to the previous menu.

Customizing the Function Settings

Language Setting

1. In the main menu of **Settings**, press **▲ / ▼** to select **Language**, and then press **OK**.



2. Press **▲ / ▼** to select **OSD**, **Menu**, **Audio** or **Subtitle**, and then press **OK**.
3. Use **▲ / ▼** to select your preferred language, and then press **OK** to confirm your selection.
4. Press **◀** to go to the previous menu.

OSD:

This option enables you to select the on-screen menu language.

Menu:

This option lets you to select the disc menu language.

Notes:

- Not all languages are available on all discs.
- Most discs only have one menu language.

Audio:

You can choose the audio language from this option to your preference.

Notes:

- Not all languages are available on all discs.
- Some discs do not let you select the audio language using your player's menu. Instead, you have to select the audio language from the disc setup menu (the menu that appears after you insert the disc).

Subtitle:

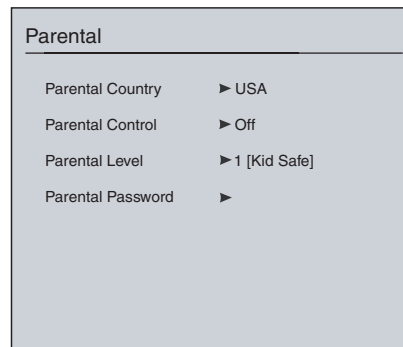
You can customize your preferred subtitle language in this option.

Notes:

- Not all languages are available on all discs.
- Some discs do not let you select the subtitle language using your player's menu. Instead, you have to select the subtitle language from the disc setup menu (the menu that appears after you insert the disc).
- You can also select the subtitle language from the subtitle menu in the on-screen menu.

Parental Control

1. In the main menu of **Settings**, press **▶**, then press **▲ / ▼** to select **Parental**, and then press **OK**.



2. Press **▲ / ▼** to select **an option**, and then press **OK**.
3. Use **▲ / ▼** to select the desired option, and then press **OK** to confirm your selection.
4. Press **◀** to go to the previous menu.

Note: If **Parental Control** was previously turned **On**, you will be prompted to enter the parental control password before being allowed to change these settings. (See "Turning parental control on or off" on page 34 for details.)

Selecting the parental country

Parental Country is fixed in USA.

Turning parental control on or off

1. In the main menu of **Settings**, press **▶**, then press **▲ / ▼** to select **Parental**, and then press **OK**.
2. Press **▲ / ▼** to select **Parental Control**, then press **OK**.
3. Press **▲ / ▼** to select **On** or **Off**, then press **OK**.
4. Press **◀** to go to the previous menu.

Customizing the Function Settings

Setting the parental control level

1. In the main menu of **Settings**, press **►**, then press **▲ / ▼** to select **Parental**, and then press **OK**.
2. Press **▲ / ▼** to select **Parental Level**, then press **OK**.
3. Press **▲ / ▼** to select the rating level you want to block, then press **OK**. The rating and all higher ratings will be blocked. You can select:
 - **1 [Kid Safe]** — Suitable for all children.
 - **2 [G]** — General audiences.
 - **3 [PG]** — Parental guidance suggested.
 - **4 [PG-13]** — Not suitable for anyone under 13.
 - **5 [PG-R]** — Parental guidance recommended.
 - **6 [R]** — Not suitable for anyone under 17 unless supervised by a parent or adult guardian.
 - **7 [NC-17]** — Not suitable for anyone under 17.
 - **8 [Adult]** — All BDs and DVDs can be played.
4. Press **◀** to go to the previous menu.

Setting the parental control password

1. In the main menu of **Settings**, press **►**, then press **▲ / ▼** to select **Parental**, and then press **OK**.
2. Press **▲ / ▼** to select **Parental Password**, then press **OK**.
3. Enter a 4-digit number for the parental password, then use **▼** to highlight **Ok**, and then press **OK** to confirm.
If you forget your password, reset your player to the factory defaults. For more information, see "**Restore factory defaults**" on page 35.
4. Press **◀** to go to the previous menu.

System Setting

1. In the main menu of **Settings**, press **►** button, then use **▲ / ▼** button to select **System**, then press **OK**.

System

```

Optical Disc Auto Play  ► Enable
Time Zone               ► EST (GMT-05:00)
Screen Saver Duration   ► 5 Minutes
CEC Support             ► Off
Update Via Network
Restore factory defaults
  
```

2. Press **▲ / ▼** to select an option, and then press **OK**.
3. Use **▲ / ▼** to select the desired setting, and then press **OK** to confirm.
4. Press **◀** to go to the previous menu.

Optical Disc Auto Play:

If **Enable** is selected, it will load data and play back automatically when you insert a Blu-ray disc. When **Disable** is selected and if you insert a Blu-ray disc, the disc you can select will be displayed on the Settings menu.

Time Zone:

This option allows you to select the desired time zone.

Screen Saver Duration:

This Blu-ray disc player has a screen saver feature that turns the screen black when your player is inactive. You can set the interval time you want your player to wait before activating the screen saver.

Note: The unit shuts down automatically in about thirty minutes if it remains idle and no activities are made.

CEC Support:

This option is used to allow the TV remote control to control certain functions of the Blu-ray disc player; and for the Blu-ray player to control certain functions of the TV.

On: Allow mutual control of devices through HDMI.

Off: Do not allow CEC control.

Notes:

- Not all TVs are compatible with your Blu-ray disc player.
- The default setting is **Off**. Select **On** if CEC control is necessary.

Customizing the Function Settings

Update Via Network:

This option displays the required storage space if the BD player is connected to internet for upgrade.
For detailed upgrade operation, please refer to "Upgrading Your Player's Firmware" on this page.

Restore factory defaults:

Choose one of the following 7 options, then press **OK** to pop up a dialog box, choose **OK** in the box, and then press **OK** to confirm.

To apply the deactivation, please plug off the player after operating deactivation.

Actions	Response
Restore factory settings and deactivate all connected applications	All settings (including Parental Password) will be restored to the factory defaults and all connected applications will be deactivated.
Restore factory settings	Restores all settings (including Parental Password) to the factory defaults.
Deactivate all connected applications	Deactivates all connected applications (Netflix / Pandora / Blockbuster / VUDU)
Deactivate Netflix	Deactivates the connected Netflix application
Deactivate Pandora	Deactivates the connected Pandora application
Deactivate Vudu	Deactivates the connected VUDU application
Deactivate Blockbuster	Deactivates the connected Blockbuster application

Upgrading Your Player's Firmware

The company that produced this player may occasionally offer upgrades to the player's software.

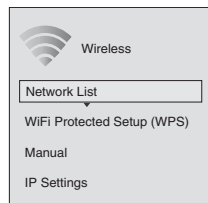
Automatic upgrades over the Internet

1. Make sure that your player is successfully connected to the Internet. If new software is available, you will see a message prompting you whether to update your firmware.
2. If you want to update the player's firmware, use **▶** / **◀** to highlight "OK", and then press **OK**. The software will begin downloading, and a status bar will appear on the TV screen.
3. Once the update is complete, a message will appear indicating that the player will turn itself off and on.

Customizing the Function Settings

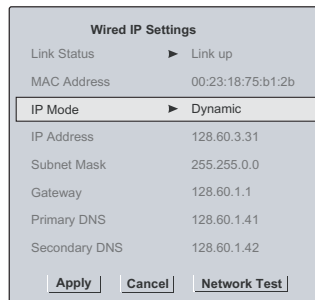
Network Connection Setting

- Press \blacktriangledown / \blacktriangle to select **Network** in stop mode, then press \blacktriangleright button,
- If no Ethernet cable is connected to the ETHERNET jack on the back of your player, a screen similar to the following appears:



For detailed operations, refer to the “**Configuring a wireless Internet connection**”.

- If a wired connection is made to your player, a screen similar to the following appears:



Refer to the “**Configuring a wired Internet connection**” for details.

Notes:

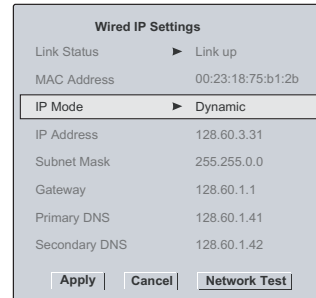
- “Wireless” and “Wired” are optional and do not appear at the same time. Normally, “Wireless” is shown without wired connection. While using a wired Internet connection, “Wireless” is disabled and “Wired” is activated.

Configuring a wired Internet connection

- Press \blacktriangledown / \blacktriangle to select **Network** in stop mode, then press \blacktriangleright button to enter the following screen:

If the network connection is active, **Link Up** appears next to Link Status. If the network connection is not active, **Link Down** displays next to Link Status.

- Press \blacktriangledown / \blacktriangle to select **IP Mode**, then press **OK**.



- Press \blacktriangledown / \blacktriangle to select an IP mode. You can select:
 - Off** — Disables the network interface.
 - Manual** — Lets you manually configure network settings, such as IP address, subnet mask, and gateway settings.
 - Dynamic** — Uses DHCP to automatically obtain an IP address.
- Press \blacktriangledown / \blacktriangle / \blacktriangleright / \blacktriangleleft to highlight **Network Test**, and press **OK** to test your network connection.
- Press \blacktriangleleft or **RETURN** to go to the previous menu.

Configuring a wireless Internet connection

This section describes how to configure the BD player for accessing the internet via a WiFi connection. The procedure for connecting to a wireless network depends on various network parameters. Read the following configuration methods to determine which instructions to use to connect to your network.

I. Connection to the wireless Network which you select

- Connecting to an Unencrypted Wireless Network
- Connecting to an Encrypted Wireless Network

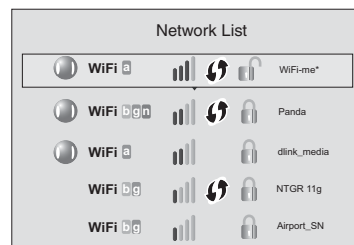
II. Connection to the wireless Network using Wi-Fi Protected Setup (WPS)

- Connecting to a Wireless Network Using WPS Pushbutton
- Connecting to a Wireless Network Using WPS PIN

III. Connection to the wireless Network using Manual IP Configuration

Description of the Wireless Network List Display

Choosing “**Network List**” in the wireless network setup menu will cause a list of available WiFi networks to appear, as shown below:

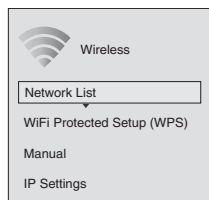


Customizing the Function Settings

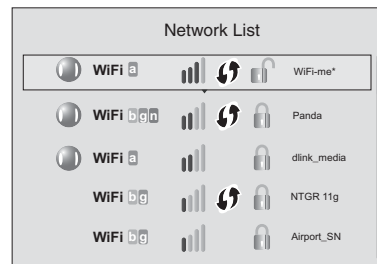
The symbols that might appear next to each listed wireless network in the network list are as follows:

Category	Icon	Definition
Connected		When the BD player is turned on, it will connect to the wireless network displaying this symbol. Typically, this is the last wireless network connected before powering down.
	*	Indicates that the BD Player is currently connected to this network.
Saved		The wireless network properties have been saved in the BD player's memory.
Wireless Security		The wireless network data is not encrypted.
		The wireless network data is encrypted; a 'security key' must be entered so that the BD player can share data over the network.
		The wireless network data is encrypted; the encryption scheme is not supported by the BD player.
Wireless Protocol		The wireless network supports 802.11a
		The wireless network supports 802.11b
		The wireless network supports 802.11g
		The wireless network supports 802.11n
		The wireless router supports the WPS standard.
Signal Strength		Strong Signal
		Good Signal
		Medium Signal
		Weak Signal
		No Signal

I. Connection to the wireless Network which you select

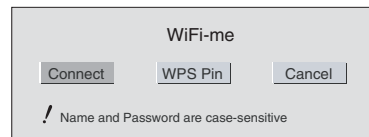


- In the "Wireless" menu, press **▼ / ▲** to select **Network List**, then press **OK**. A list of existing wireless networks near the BD player will appear (It may take several seconds for this list to be created). For example:



- Press **▼ / ▲** to select the desired wireless network, and press **OK** to confirm.

- If the BD player is connected to an **Unencrypted Wireless Network**, a menu similar to the following will appear:



- Press **◀ / ▶** to highlight **Connect**, and press **OK**. If the wireless network is functioning, icon and a message "Connection to XXX...Success" will appear on the TV.
- Press **OK** to close the message. The BD disc player is now connected to the network. From now on, when you turn on the player, it will automatically connect to the network; there is no need to repeat these steps again.

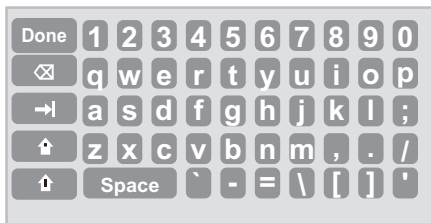
Note: If you do not see this message, the BD player was not able to connect to the network.

- If the BD player is connected to an **Encrypted Wireless Network**, a menu similar to the following will appear:



- Press **ENTER** to activate the on-screen keyboard. Carefully enter the network password by using the **▲ / ▼ / ◀ / ▶** to highlight the desired letter on the keyboard, and then pressing **OK**. (If you make a mistake, use the backspace key to erase the mistake.)

Customizing the Function Settings



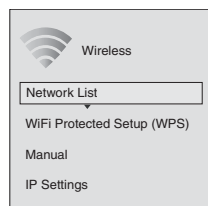
- Use ▲/▼/◀/▶ to highlight **Done** on the upper-right corner of the keyboard, and press **OK** to remove the keyboard from the screen.
- Use ▼ to highlight **Connect**, and press **OK**. If the wireless network is functioning, icon and a message "Connection to XXX...Success" will appear on the TV.
- Press **OK** to close the message. The BD player is now connected to the network. From now on, when you turn on the player, it will automatically connect to the network; there is no need to repeat these steps again.

Notes:

- If you do not see this message, the BD player was not able to connect to the network.
- If the wireless network is **encrypted using an unsupported encryption** (it appears in the network list with an icon), you cannot connect to the network. You must change the router's encryption type before proceeding.

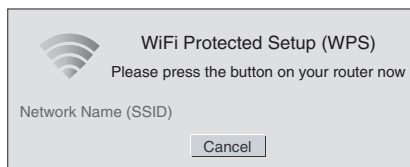
II. Connection to the wireless Network using Wi-Fi protected Setup(WPS)

- Press ▼ / ▲ to select **Network** in stop mode, then press ▶ button to enter the following screen:



a. If the BD player is connected to a Wireless Network Using WPS Pushbutton:

- Press ▼ / ▲ to select **WiFi Protected Setup (WPS)**, then press **OK**.

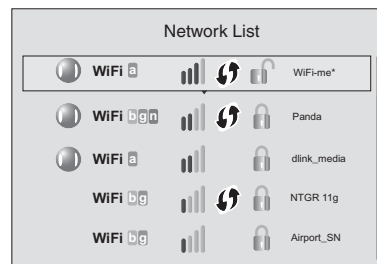


- Press the WPS button on the top of your router.
- Once you see "Success" on the button at the bottom of the screen, the BD player is connected to the router.

Note: If you do not see this message, the BD player was not able to connect to the network. Repeat steps 1-4 again.

b. If the BD player is connected to a Wireless Network Using WPS PIN:

- Press ▼ / ▲ to select **Network List**, then press **OK**. A list of existing wireless networks near the BD player will appear (It may take several seconds for this list to be created). For example:



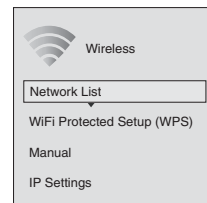
- Press ▼ / ▲ to select the desired wireless network, and press **OK** to confirm.
- Press ◀ / ▶ to highlight **WPS PIN**, and press **OK**. The following screen will appear:



- Press ◀ / ▶ to highlight connection method you desire, and press **OK**.
- Follow the on-screen message to continue operating the connection.

III. Connection to the wireless Network using Manual IP Configuration

- In the "Wireless" menu, press ▼ / ▲ to select **Manual**, then press **OK**.



- Follow the on-screen message to continue operating the connection.

Using the Connected Applications

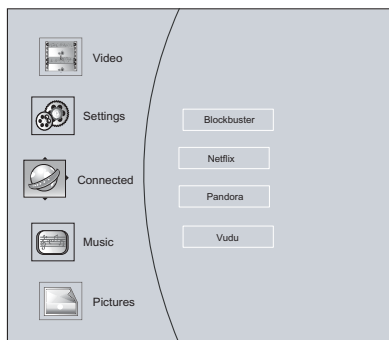
Some players are equipped with the capability to watch movies over the internet (from Blockbuster, Netflix or Vudu), or to listen to Pandora internet radio.

Watching Movies with Netflix®

To use Netflix service, connect this player to your network, and make the network settings if they are not finished yet.

1. Launching Netflix movie

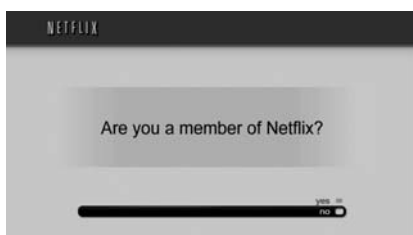
In Home Menu, press ▲ / ▼ to select **Connected**, then use ►, and then press ▲ / ▼ to highlight "Netflix", and then press OK to enter.



2. Creating Netflix account

If you are not a Netflix Member:

Select "no". Read the instructions displayed on the TV screen, and visit <http://www.netflix.com/toshiba> from your PC. Sign up to create your account, then select "I'm now a member".

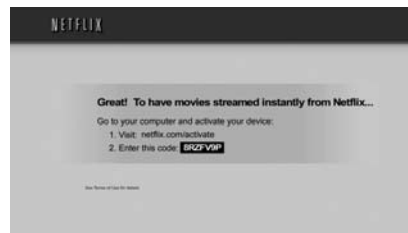


If you are a Netflix Member:

Select "Yes".

3. Activating Netflix player

To play streaming video via Netflix service, Netflix player needs to be activated. Read the instructions displayed on the TV screen, and visit <http://www.netflix.com/activate> on your PC. Sign in to your Netflix account, if necessary. Enter the activation code displayed on the TV screen.



4. Preparing Instant Queue

To play streaming video via Netflix service, Netflix player needs to be activated. Read the instructions displayed on the TV screen, and visit <http://www.netflix.com/activate> on your PC. Sign in to your Netflix account, if necessary. Enter the activation code displayed on the TV screen.

Now you can view Netflix streaming video.

After having activated Netflix player and prepared Instant Queue, movies and TV episodes in your Instant Queue appear on the TV screen. Select your desired one using the remote control of the player. You can control Netflix streaming video with the following keys of the remote control of this player:

▶	To start playing movie. To pause playback while in PLAY mode.
■	To stop playing and return to a list of movie titles.
	To pause playing movie. To start playing while in PAUSE mode.
▶	To pause playing and open a list of scenes. Pressing further proceeds to the next scene.
◀	To pause playing and open a list of scenes. Pressing further proceeds to the previous scene.
▲	To stop playing and return to a list of movie titles.
▶▶	To pause playing and open a list of scenes. Fast forward play starts.
◀◀	To pause playing and open a list of scenes. Fast reverse play starts.
HOME MENU	To stop playing and return to Home Menu.
OK	To pause playing of Trick play screen while in PLAY mode. To start playing the movie in case of during Trick play screen.

Note: Resolution of video streamed from Netflix varies depending on communication speed or bitrate of each content, etc.

Using the Connected Applications

Watching Movies with BLOCKBUSTER®

This Blu-ray Disc Player enables you to use the following services provided by Blockbuster.

1. In Home Menu, press **▲** / **▼** to select **Connected**.
2. Press **▶**, then press **▲** / **▼** to highlight **Blockbuster**, and then press **OK** to enter Blockbuster main menu.
 - **Movies** : Display movies.
 - **TV Shows** : Display TV Shows.
 - **Find** : Search for a desired movie or TV show by entering it manually.
 - **My Library** : Display a title that you bought or rented.
 - **My Favorites** : Display a title that has been added to My Favorites.
 - **Configure** : Activate or deactivate the Blu-ray Disc Player.
 - **Help** : Get customer service contact information and check the current software version.
3. If you don't have a Blockbuster account yet, visit www.blockbuster.com to create your account.
4. Use **▼** / **▲** / **▶** / **◀** to select the **Configure**, then press **OK**.
5. Use the number buttons on the remote control to enter the activation code that is created by the web site, then use **▼** to highlight **Activate**, and press **OK** to confirm.

When the Blu-ray Disc Player is activated, you will move to the Home page.
6. Press **▶** / **◀** to select the **Movies** or **TV Shows**, then press **OK**.
7. Press **▼** / **▲** / **▶** / **◀** to select the desired title, then press **OK**.
8. Press **▶** / **◀** to select the **Rent** or **Buy**, then press **OK**.
9. Press **▶** / **◀** to select the **Submit Order**, then press **OK**. If you want to play any of the titles that your bought, simply click **Play Now**.
10. Press **◀** to go to the previous menu.

Watching Movies with VUDU™

Creating a VUDU account on your player

1. In Home Menu, press **▲** / **▼** to select **Connected**.
2. Press **▶**, then press **▲** / **▼** to highlight **Vudu**, and then press **OK** to confirm.
3. Follow the instructions to create an account, it will ask for an email address.
4. Enter YOUR email address using the keyboard that appears on the screen. VUDU will then display a message on the TV "**Sending you an email**".

Creating a VUDU account on your PC

1. VUDU will send you an email with a hyper-link; click on the link.
2. In the Vudu page that comes up on your PC's browser after clicking the link, enter the e-mail and password of the owner of the account.
3. VUDU will then display a message "**Enabling your device to view movies. The email message on your TV screen will disappear when done**".
4. On your TV, you can now navigate to a Vudu movie, and 'buy' or 'rent' it.



Using the Connected Applications

Listening to Music with PANDORA®

Using an existing Pandora account

1. In Home Menu, press ▲ / ▼ to select **Connected**.
2. Press ►, then press ▲ / ▼ to highlight **Pandora**, and then press **OK** to confirm.
3. Select **"I have a Pandora account"** from the option list.
4. Sign in with your test account.

Creating a new account on the BD player

1. In Home Menu, press ▲ / ▼ to select **Connected**.
2. Press ►, then press ▲ / ▼ to highlight **Pandora**, and then press **OK** to confirm.
3. Select **"I am new to Pandora"** from the option list.
4. You will be given an activation code. Use this activation code to generate a new account and link it to the BD player using a PC.

Creating a new Pandora account on your PC

Go to <http://www.pandora.com/> to create a new account.

Troubleshooting & Maintenance

Troubleshooting

If the unit does not perform properly when operated as instructed in this manual, check the unit, consulting the following checklist.

Problem	Solution
No power	<ul style="list-style-type: none"> - Check if the AC cord is properly connected. - Unplug the AC cord once, and wait for 5-10 seconds and then plug it in again.
No sound or picture	<ul style="list-style-type: none"> - Check if the connected TV is turned on. - Check if the connections are made securely and correctly. - Check whether the connected TV or other device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.) - Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device.
Distorted picture	<ul style="list-style-type: none"> - Sometimes a small amount of picture distortion may appear. This is not a malfunction. - Connect this unit directly to the TV. If the composite audio / video cables are connected to a VCR, pictures may be distorted due to the copyright protection system.
Completely distorted picture or black / white picture with BD / DVD	<ul style="list-style-type: none"> - Make sure the disc is compatible with this unit.
No sound or distorted sound	<ul style="list-style-type: none"> - Adjust the volume. - Check if speakers are connected correctly. - Check the HDMI connections. - Check the settings in "Audio" menu.
Picture freezes momentarily during playback	<ul style="list-style-type: none"> - Check the disc for fingerprints / scratches and clean with a soft cloth wiping from center to edge. - Clean the disc.
Disc cannot be played back	<ul style="list-style-type: none"> - Clean the disc. - Ensure the disc label is facing up. - Check if the disc is defective by trying another disc. - Cancel the ratings control or change the control level. - Insert a correct disc that can be played back on this unit.
SD Memory Card cannot be read	<ul style="list-style-type: none"> - The format of the card does not match that accepted by this unit or the card is not compatible.
No return to start-up screen when disc is removed	<ul style="list-style-type: none"> - Reset this unit by turning it off, then on again.
The unit does not respond to the remote control	<ul style="list-style-type: none"> - Aim the remote control directly at infrared sensor window on the front panel. - Reduce the distance to infrared sensor window. - Replace the batteries in the remote control. - Re-insert the batteries with their polarities (+ / - signs) as indicated.
Buttons do not work or the unit stops responding	<ul style="list-style-type: none"> - To completely reset the unit, unplug the AC cord from the AC outlet for 5-10 seconds.
The unit does not respond to some operating commands during playback	<ul style="list-style-type: none"> - Operations may not be permitted by the disc. - Refer to the instructions of the disc.
The unit cannot read BD / DVD / CD	<ul style="list-style-type: none"> - Dew condensation may form inside the unit. Do not use this unit for at least a few hours until its inside gets dry. - Wipe the dirt off the disc or replace the disc.
Angle does not switch	<ul style="list-style-type: none"> - The angle cannot be switched for BD / DVD which do not contain multiple angles. In some cases multiple angles are only recorded for specific scenes.
Playback does not start when the title is selected	<ul style="list-style-type: none"> - Check the settings in "Parental" menu.

Troubleshooting & Maintenance

Problem	Solution
The password for rating level has been forgotten	- If you forget your password, reset your player to the factory defaults and your forgotten password will be cleared. For more information, see "Restore factory defaults" on page 35.
Cannot connect to the network	- Check if the LAN cable connection is properly made. - Turn on the modem or broadband router. - Check if the broadband router and/or modem is correctly connected. - Check the "Network Connection Setting".
Cannot connect to the network while my PC is connected to the network	- Check the content of your Internet service contract to see if your Internet service provider prevents multiple terminals connecting at the same time.
Cannot use the BD-Live function	- Use an SD card with enough space.
The playback of BD-video or download of data does not perform properly	- Check if an SD Card is correctly inserted. Do not remove the card during playback as some BD-videos require an SD Card during playback.

Notes

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this manual for details on correct operations.
- Some functions are prohibited on some discs.

Maintenance

Servicing

- Please refer to relevant topics on "Troubleshooting & Maintenance" before returning the product.
- If this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power plug, and please call our helpline to locate an Authorized Service Center.

Cleaning the cabinet

- Never use a solvent, thinner, benzene or alcohol to clean the unit. Do not spray insecticide liquid near the unit. Such chemicals may discolor the surface or damage the unit.

Cleaning discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center to out. Do not wipe in a circular motion.
- Do not use solvents such as benzene, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analog records.

Cleaning the disc lens

- If this unit still does not perform properly although you refer to the relevant sections and to "Troubleshooting" in this manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

Disc handling

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.
- Note that discs with special shapes (heart-shaped discs, octagonal discs, etc.) cannot be played back on this unit. Do not attempt to playback such discs, as they may damage the unit.

IR signal check

- If the remote control is not working properly, you can use a digital camera (including a cellular phone with built-in camera) to see if it is sending out an infrared signal.

Glossary

Analog Audio

An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound.

Aspect Ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as it is high).

AVCHD

AVCHD is a new format for high definition video camcorders which can record and play high-resolution HD images.

BD-Java

With some BD which support Java applications, you can enjoy the interactive functions such as games or interactive menus.

BD-Live

BD-Live is a BD-video (BD-ROM version 2 Profile 2.0/Profile 1.1) which contains new functions (e.g. Internet connection), in addition to the BONUSVIEW function.

Blu-ray 3D

Blu-ray 3D is a BD-video (BD-ROM version 3 Profile 5.0) which contains 3D view function, in addition to the BD-Live/BONUSVIEW function.

Blu-ray Disc (BD)

Blu-ray Disc is a next generation optical video disc which is capable of storing much more data than a conventional DVD is. The large capacity makes it possible to benefit from the features such as high-definition videos, multi-channel surround sounds, interactive menus and so on.

Chapter

Just as a book is split up into several chapters, a title on a BD-video or DVD-video is usually divided into chapters.

Component Video Output

Each signal of luminance (Y) and component (P_B/C_B , P_R/C_R) is independent to output so that you can experience picture Color as it is.

Also, due to compatibility with progressive video (525p/480p), you can experience higher-density picture than that in interlace (525i/480i).

Digital Audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers.

DNS Server

A server which translates Internet domain names into IP addresses.

Dolby Digital

The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo (2ch) or multi-channel audio.

Dolby Digital Plus

Dolby Digital Plus is the next generation digital audio compression technology developed as an extension to Dolby Digital. Blu-ray Disc supports 7.1 multi-channel surround sound output.

Dolby TrueHD

Dolby TrueHD is a lossless coding technology developed for next generation optical discs. Blu-ray Disc supports 7.1 multi-channel surround sound output.

DTS

DTS is a multi-channel surround sound system. By connecting to DTS decoder, you can enjoy movie dynamic and realistic sound like movie theater. DTS surround sound technologies were developed by DTS, Inc.

DTS-HD

DTS-HD is a lossless coding technology developed as an extension of the original DTS Coherent Acoustics format. Blu-ray Disc supports 7.1 multi-channel surround sound output.

Gateway

IP Address of the electronic devices (such as router) which provide Internet access.

HDMI (High-Definition Multimedia Interface)

A digital interface between audio and video source. It can transmit component video, audio, and control signal with one cable connection.

Hub

A device used for connecting multiple device to the network.

IP Address

A set of numbers which are assigned to devices participating in a computer network.

JPEG (Joint Photographic Experts Group)

JPEG is a method of compressing still picture files. You can copy JPEG files on BD-RE/-R, DVD-RW/-R, CD-RW/-R or SD Memory Card from a computer and play back the files in this unit.



Glossary

LAN (Local Area Network)

A group of computer networks covering a small area like a company, school or home.

Local Storage

A storage area of sub contents for playing virtual packages on BD-video.

MP3 (MPEG audio layer 3)

MP3 is a method of compressing files. You can copy MP3 files on BD-RE/-R, DVD-RW/-R, CD-RW/-R or SD Memory Card from the computer and play back the files on this unit.

PCM (Pulse Code Modulation)

The most common system of encoding digital audio, found on CD and DAT. Excellent quality that requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital, DTS, and MPEG audio to PCM.

Proxy Server

Proxy server is a server which acts as an intermediary between a workstation user and the Internet to ensure security.

Region Code

Regions associate discs and players with particular areas of the world. This unit will only play back discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Router

A networking device which distinguishes the IP address assigned to each device and routing and forwarding information in the computer network.

Sampling Frequency

The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

Subnet Mask

A mask which is used to determine what subnet an IP address belongs to.

Title

A collection of chapters on BD-video or DVD-video.

Track

Audio CD use tracks to divide up the content of a disc. The BD-video or DVD-video equivalent is called a chapter. See also "Chapter".

Virtual Package

The function which copies data to other media (local storage) from the Internet and play the secondary video, secondary audio and the subtitle at the same time. The method of the playback varies depending on discs.

Windows Media™ Audio

Windows Media™ Audio is the audio compressing technology developed by Microsoft. You can copy Windows Media™ Audio files on BD-RE/-R, DVD-RW/-R, CD-RW/-R or SD Memory Card from a computer and play them back on this unit.

x.v.Color

"x.v.Color" is a promotion name given to the products that have the capability to realize a wide color space based on the xvYCC specifications and is a trademark of Sony Corporation.

Others

Specifications

General

Signal system	NTSC color
Power requirements	120 V AC, 60 Hz
Power consumption	23 W
Dimensions (width x height x depth)	430 x 63.5 x 209.7 mm
Weight	1.77 kg
Operating temperature	41°F (5°C) to 95°F (35°C)
Operating humidity	Less than 80 % (no condensation)

Terminals

Rear	Video output RCA jack	1 Vp-p (75Ω)
	Component video output RCA jack x 3	Y: 1 Vp-p (75Ω) P _B /C _B : 700 mVp-p (75Ω) P _R /C _R : 700 mVp-p (75Ω) Video: 480i, 480p, 720p, 1080i
	HDMI output HDMI jack x 1	Video: 480i, 480p, 720p, 1080i, 1080p, 1080p/24F / Audio
	Audio output (Analog) RCA jack x 2	L/R: 2 Vrms (output impedance: less than 1kΩ)
	Audio output (Digital) Optical jack x 1	Digital connector
	Multi channel audio output RCA jack x 8	All channels: 2 Vrms (output impedance: less than 1kΩ)
	USB terminal x 1	5V --- 500mA
	LAN terminal	100BASE-T

The specifications and design of this product are subject to change without notice.

Limited United States Warranty

Digital Audio Video ("DAV") Product - Exchange Warranty

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Rental Units

The warranty for DAV Product rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

Commercial Units

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Owner's Manual and Product Registration Card

Read this owner's manual thoroughly before operating this DAV Product. Complete and mail the enclosed product registration card or register your DAV Product on-line at www.tacp.toshiba.com/service as soon as possible. By registering your DAV Product you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.

Your Responsibility

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- (2) All warranty servicing of this DAV Product must be made pursuant to the TACP DAV Product Warranty Exchange Program.
- (3) The warranties from TACP are effective only if the DAV Product is purchased and operated in the Continental U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
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How to Obtain Warranty Services

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- (2) You must include the original bill of sale (or a copy of the original bill of sale) or other proof of purchase along with the entire DAV Product when sending the DAV Product to the TACP Warranty Exchange Center specified by TACP's Consumer Solutions Center. You are responsible for all inbound transportation and insurance charges for the DAV Product to the TACP Warranty Exchange Center.

For additional information, visit TACP's website: www.tacp.toshiba.com

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OTHERS

Disclaimer**I. HEALTH/SAFETY-RELATED****IMPORTANT SAFETY INFORMATION CONCERNING 3D VIEWING**

- If you or any viewer experiences the following symptoms or any other discomfort from viewing 3D video images, stop viewing and contact your health care provider:

Convulsions	Eye or muscle twitching	Loss of awareness
Altered vision	Involuntary movements	Disorientation
Eye Strain	Nausea/Vomiting	Dizziness
Headaches	Fatigue	

- Some viewers may experience a seizure or blackout when exposed to certain flashing images or lights contained in certain 3D television pictures or video games. Anyone who has had a seizure, loss of awareness, or other symptom linked to an epileptic condition, or has a family history of epilepsy, should contact a health care provider before using the 3D function.
- If you feel eye fatigue or other discomfort from viewing 3D video images, stop viewing and take a rest until the condition is eliminated.
- Due to the possible impact on vision development, viewers of 3D video images should be age 6 or above. Children and teenagers may be more susceptible to health issues associated with viewing in 3D and should be closely supervised to avoid prolonged viewing without rest.
- Avoid use of the 3D function when under the influence of alcohol.
- Watching the screen while sitting too close for an extended period of time may cause eye strain. Consult your display manual to determine the ideal viewing distance.
- Viewing in 3D may cause dizziness and/or disorientation for some viewers. Therefore, to avoid injury do not place your player or display near open stairwells, balconies, or wires and do not sit near objects that could be broken if accidentally hit.
- Carefully read instructions provided with your display and/or 3D glasses before 3D viewing.

II. PERFORMANCE RELATED

- This product is designed to playback Blu-ray discs that comply with the 3D specifications of Blu-ray Disc Association. It is not compatible with other 3D specifications.
- 3D capable display, 3D eyewear and High Speed HDMI cable (all sold separately) required for playback and viewing 3D content.
- If you route your signal through an AV receiver or other video distribution device they must be 3D capable to support 3D viewing. Viewing HD content and up-converting DVD content may require an HDCP capable input on your display device.
- While up-converting DVD video content may result in a picture that appears to be near HD quality, results may vary depending on content, display and settings.
- 1080p capable display required for viewing content in 1080p.
- 1080p/24 fps encoded content and an HD display capable of accepting a 1080p/24Hz signal required for viewing 1080p/24 fps content.
- Performance of interactive and/or network features may vary due to disc design or content, and may also require an always-on broadband internet connection. Firmware update may be required for some interactive and/or network features. Some features may require additional bandwidth.
- BD-Live™ may require an SD or SDHC card or USB memory with available storage capacity of at least 1GB (sold separately).
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- For Dolby® TrueHD and DTS-HD Master Audio | Essential™ playback, content encoded in Dolby® TrueHD and DTS-HD Master Audio | Essential™ format required. Supported file types: JPEG, MP3, WMA, and AVCHD. Some recordable media, cards or files may not be supported. Deep Color feature as specified in HDMI specification requires compatible Deep Color capable HD display and/or device. Use of HDMI-CEC requires an HDMI-CEC compatible display device. Depending on the specifications of your display device, some or all HDMI-CEC functions may not work even if your display device is HDMI-CEC compatible.
- Products do not play HD DVD discs.
- Some features subject to delayed availability.
- Because the Blu-ray format and 3D specifications use new technologies, certain disc, content, connection and other compatibility and/or performance issues are possible. If you experience such issues, please refer to www.tacp.toshiba.com for information on the availability of firmware updates that may resolve your problem, or contact Toshiba Customer Solutions.
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Others

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Phone number: 1-800-631-3811

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Open-Source Third-party Software Included in the BD-Player (as of Feb 2010):

Software	License (*= source must be distributed on request)
A copy of the GPL2.0 license is provided in Appendix K A copy of the LGPL2.1 license is provided in Appendix L	
*backtrace	GPL2 (Included in DVD 3.x [7630 systems] only)
*directfb-extra	GPL2
*cairo	LGPL2
*directfb	LGPL2
*iconv	LGPL2
openssl	BSD-old dual license. The terms and conditions which apply to this software are provided in Appendix H. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org)
curl	The terms and conditions which apply to this software are provided in Appendix A.
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png	The terms and conditions which apply to this software are provided in Appendix D.
xml	The terms and conditions which apply to this software are provided in Appendix E.
zlib	The terms and conditions which apply to this software are provided in Appendix F.
Elektra	BSD-new
Ltdl	LPGL

Open-Source Third-party Software Included in the Kernel/Rootfs: (as of Feb 2010)

(* = source must be distributed on request)
 A copy of the GPL license is provided in Appendix K
 A copy of the LGPL license is provided in Appendix L

Utility	Base Version	License
*kernel		GPL 2.0
*arp	net-tools-1.52	GPL 2.0
*bash	GNU Bash-3.2	GPL 2.0
*busybox	busybox-1.11.1	GPL 2.0
*cramfsck	cramfs	GPL 2.0
*dhcpcd	dhcpcd-1.3	GPL 2.0
*e2fsprogs	e2fsprogs-1.41.5	GPL 2.0
*fdisk	fdisk-2.10m	GPL 2.0
*getty	TinyLogin-0.80	GPL 2.0
*hostnamesutils	sysutils	GPL 2.0
*ifconfig	net-tools-1.52	GPL 2.0
*kill	sysutils	GPL 2.0
*mkcramfs	cramfs	GPL 2.0
*ntfs-3g	ntfs-3g 2009.4.4	GPL 2.0
*passwd	TinyLogin-0.80	GPL 2.0
*ps	sysutils	GPL 2.0
*route	net-tools-1.52	GPL 2.0
*sfdisk	sfdisk-3.07	GPL 2.0
*shutdown	sysutils	GPL 2.0
*tinylogin	TinyLogin-0.80	GPL 2.0
*hotplug	hotplug-1.8	GPL 2.0
*utelnetd	utelnetd-0.1.3	GPL 2.0
*procps	procps-3.2.8	GPL 2.0
*libfreetype.so.6.3.	freetype-2.1.2	GPL 2.0
*libtermcap.so	GNU Bash-2.05	GPL 2.0
*libtermcap.so.2.0.8	GNU termcap 1.3	GPL 2.0
zlib	zlib-1.2.3	zlib license

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libusb.so	libusb-0.1.12	LGPL 2.1
uClibc	uClibc-nptl-0.9.29-20070423	LGPL 2.1
tcpdump	tcpdump-4.0.0	BSD-new

The terms and conditions which apply to this software are provided in Appendix M.

strace	strace 4.5.18	BSD-new
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The terms and conditions which apply to this software are provided in Appendix M.

hdparm	hdparm-6.9	BSD-new
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The terms and conditions which apply to this software are provided in Appendix M.

libpcap	libcap-1.0.0	BSD-new
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portmap	portmap	BSD-old
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 openssl 0.9.8k BSD-old. See advertisement notice above.

openssl

OTHERS



Others

pata_platform.ko	GPL
scsi_wait_scan.ko	GPL
Badblocks	GPL2.0
compile_et	GPL2.0
e2fsck	GPL2.0
flash_erase	GPL2.0
flash_eraseall	GPL2.0
flash_info	GPL2.0
fsck	GPL2.0
geneccerror	GPL2.0
hdparm	GPL2.0
hotplug	GPL2.0
libcom_err	GPL2.0
libe2p	GPL2.0
libext2fs	GPL2.0
libgcc_s	GPL2.0
libnandutils	GPL2.0
libproc	GPL2.0
nanddump	GPL2.0
nandwrite	GPL2.0
netstat	GPL2.0
ntpdate	GPL2.0
top	GPL2.0
tune2fs	GPL2.0
ubiattach	GPL2.0
ubircrc32	GPL2.0
ubidetach	GPL2.0
ubiformat	GPL2.0
ubimkvol	GPL2.0
ubinfo	GPL2.0
ubinize	GPL2.0
ubirename	GPL2.0
ubirmvol	GPL2.0
ubiupdatevol	GPL2.0
vmstat	GPL2.0
libusb-config	GPL2.1
libusbsp	GPL2.1
libuuid	GPL2.1
Tip	Unique license
Unzip	Unique license



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Appendix A - CURL license

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Appendix B - JPEG License

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Parts of this software have been adapted from the libpng package. Although this library supports all features from the PNG specification (as MNG  
descends from it) it does not require the libpng package. It does require the zlib library and optionally the IJG jpeg library, and/or the "little-cms"  
library by Marti Maria (depending on the inclusion of support for JNG and Full-Color-Management respectively).  
  
This library's function is primarily to read and display MNG animations. It is not meant as a full-featured image-editing component! It does however  
offer creation and editing functionality at the chunk level. (future modifications may include some more support for creation and/or editing)  
*/
```

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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2006-Jan-27

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d. C-ARES 1.6.0

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e. Openssl 0.9.5a

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