# TOSHIBA

# Blu-ray Disc Player BDX2500KU

# **OWNER'S MANUAL**











NTRODUCTION

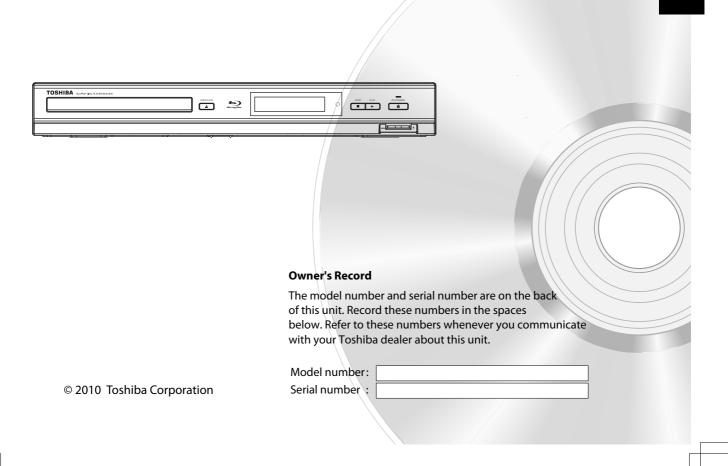
CONNECTIONS

PLAYBACK

FUNCTION SETUP

OTHERS





# SAFETY PRECAUTIONS



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.
- 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. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- 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 a heavy object on or step on the apparatus. The object may fall, causing serious personal injury and serious damage to the apparatus.
- 19. Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.
- 20. 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.
- 21. During thunderstorms, do not touch the connecting cables or the apparatus.
- 22. Warning: To prevent spread of fire, keep candles or other open flames away from this product at all times.
- 23. The mains plug is used as disconnect device. The mains plug of apparatus should not be obstructed OR should be easily accessed during intended use. To be completely disconnect the power input, the mains plug of apparatus shall be disconnected from the mains.

# 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.

### 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**

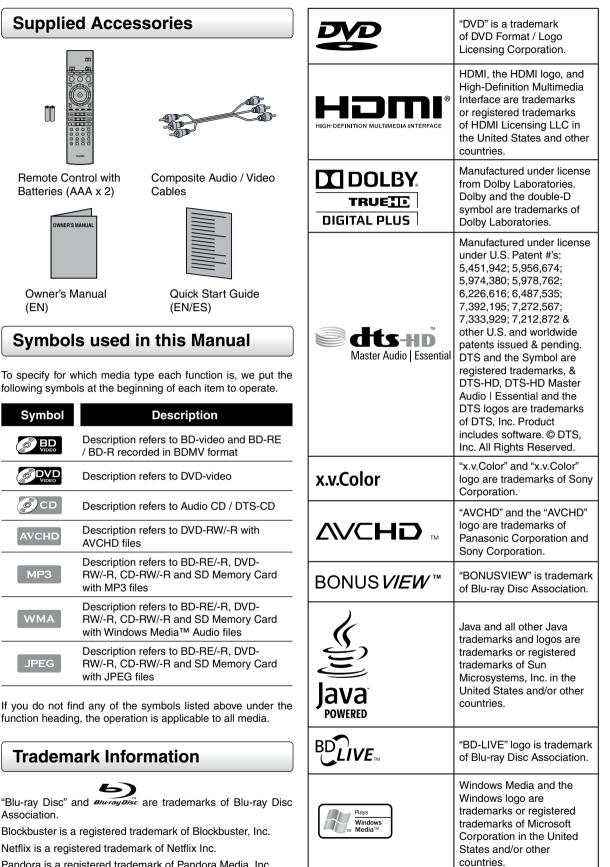
• When left in a heated room where it is warm and damp, water droplets or condensation may form inside the equipment. When there is condensation inside the unit, the unit may not function normally. Let the unit stand for 1-2 hours before turning the power on or gradually heat the room and allow the unit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



### Introduction



Pandora is a registered trademark of Pandora Media, Inc. VUDU is a trademark of VUDU, Inc.

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#### **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<sup>™</sup> 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/JPEGs 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 it's color setting is required. Please refer to the owner's manual of your display device for further information.

### 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.

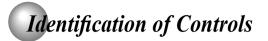
### HDMI 1080p/24F output (BD only)

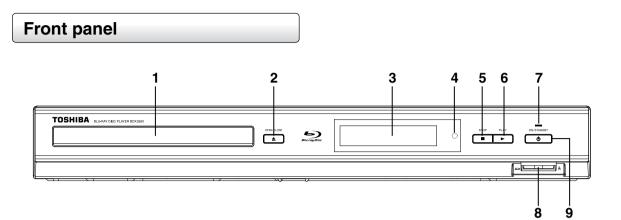
This unit is equipped with a feature which can provide the smooth movement in the playback of film originated material with the frame rate of 24 frames per second with progressive scan. (Available only when the TV is connected by an HDMI cable and compatible with 1080p/24F frame input.)

Refer to "**Display Setting**" in "**Customizing the Function Settings**" on page 30.

#### 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.

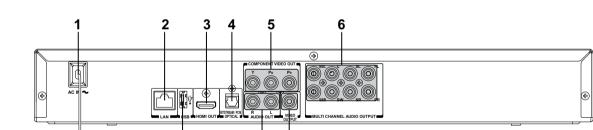




- 1. Disc tray
- 2. OPEN/CLOSE button
- 3. Display
- Refer to "Front Panel Display" on page 10.
- 4. Remote sensor
- 5. STOP button
- 6. PLAY ► button

**Rear panel** 

- 7. ON/STANDBY indicator
- 8. SD card slot
- 9. ON/STANDBY button
  - 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 AC power cord.)



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### 1. AC power cord

Connect to a standard AC outlet to supply power to this unit.

7

- 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.

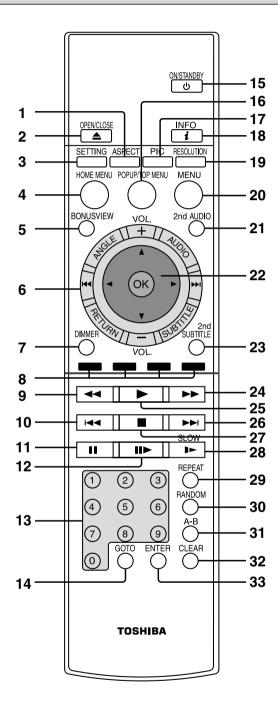
### 9. VIDEO OUT jack

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

Introduction



### **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 24.
		Same as SKIP I◄◀ / SKIP ►►I. For detailed operations, please refer to SKIP I◀◀ / SKIP ►►I.
6	ANGLE	Press to select a viewing angle if multiple angles are available on the disc.
0	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> <li>Press to select items on some BD contents.</li> <li>When file list / thumbnail list is shown, press to switch between pages.</li> </ul>
9	REV 🔫	During playback, press to fast reverse the playback.
10	SKIP I	<ul> <li>During playback, press once to return to the beginning of the current title, chapter, track or file.</li> <li>During playback, press twice to return to the previous title, chapter, track or file.</li> <li>During the JPEG playback, press to return to the previous file.</li> </ul>
11	PAUSE 1	<ul> <li>Press to pause playback.</li> <li>When playback is in pause mode, press repeatedly to forward the playback step by step.</li> </ul>
12		Press to advance one frame.

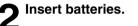
13	Number buttons	<ul> <li>In playback mode, press GOTO, then press the number buttons to enter a title, chapter, track, time or file number.</li> <li>In menu mode, press to enter the parental code password.</li> </ul>
14	GOTO	Press to display the search menu.
15	ON/STANDBY	Press to turn on the unit, 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> <li>During Blu-ray Disc playback, press to open a menu that lets you control Blu-ray Disc playback.</li> <li>During DVD playback, press to open the DVD menu (if available).</li> </ul>
17	PIC	<ul> <li>In playback mode, press to adjust picture quality according to your preference (Actual effect to picture may vary depending on TV.):</li> <li>E.P.M (Ehanced Picture Mode): The picture is sharper with enhanced color.</li> <li>Sharpness</li> </ul>
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 24.
	<b>▲/▼/</b> ◀/►	Press to select items or settings.
22	ок	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> <li>During playback, press to skip to the next title, chapter, track or file.</li> <li>During the JPEG playback, press to go to the next file.</li> </ul>
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	А-В	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.

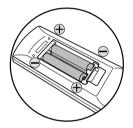
## **Installing batteries**

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



# Introduction





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

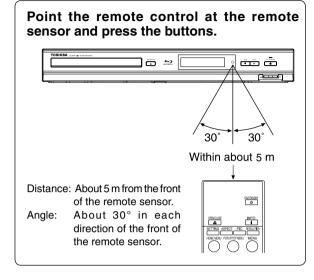
### Close the cover.



Caution: Never throw batteries into a fire.

- 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

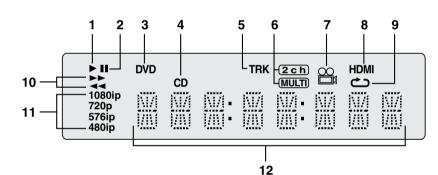


Front Panel Display

\* 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.



- 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.
- TRK (TRACK) indicator Lights when a CD/MP3 disc is inserted.
   Audio Channel indicator
  - Shows the audio channel of the current DVD/BD.
- Camera Angle indicator Illuminates when a BD/DVD disc that has multiple camera angle is inserted.
- HDMI indicator Lights when HDMI TV is connected.
- C (REPEAT) indicator
   Illuminates when REPEAT is pressed.

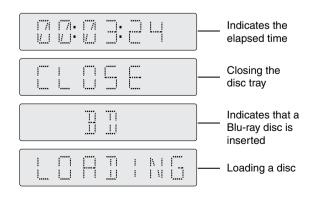
10. ►► / ◄◄ SKIP indicator

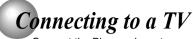
Lights while in fast forward / fast reverse mode.

11. Resolution indicator Shows resolution of video output.

12. Character indicators

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

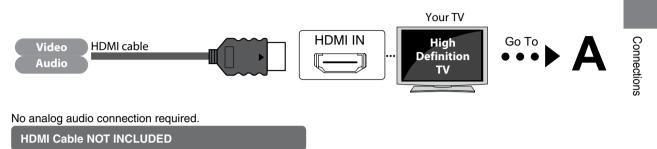




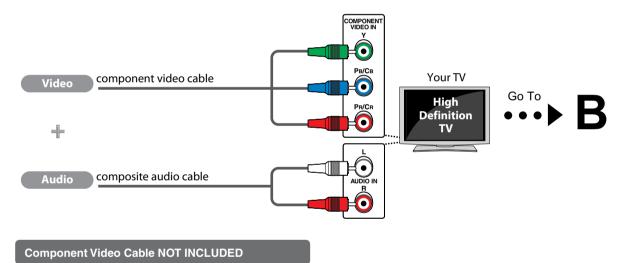
Connect the Blu-ray player to your TV.

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

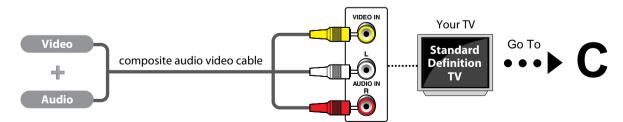
# Best (Supports up to 1080i/1080p, 1080p/24F resolution.)



# Better (Supports up to 1080i resolution.)



# Basic (Supports only 480i resolution.)

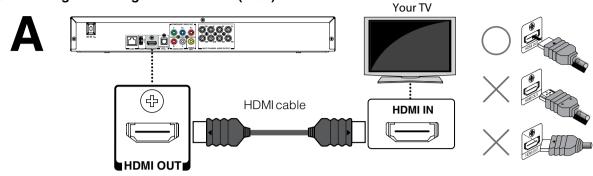


• Connect this unit directly to the TV. If the composite audio / video cables are connected to a VCR, pictures may be distorted due to the copy right protection system.

Composite Video / Audio Cables INCLUDED



2. Connect the cables by following the illustrations below.

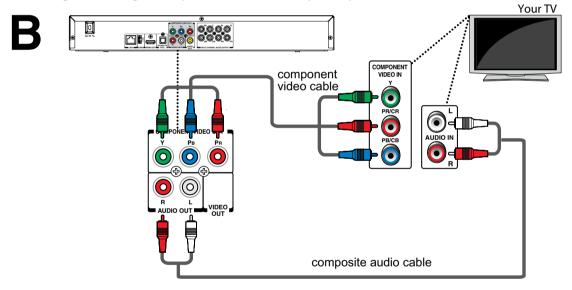


Connecting a TV using an HDMI cable (Best)

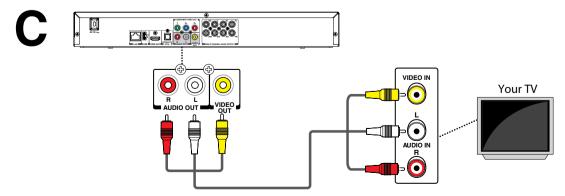
### Notes:

- 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.

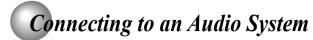
### Connecting a TV using a component video cable (Better)



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

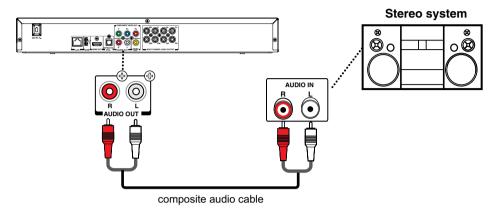


composite audio video cable

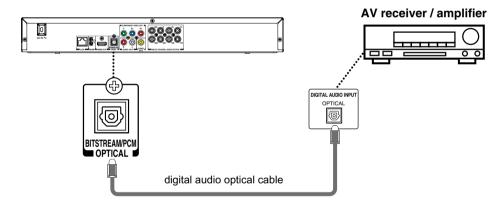


- When you change the connections, all devices should be turned off.
- Refer to the manual accompanying external devices for more information.

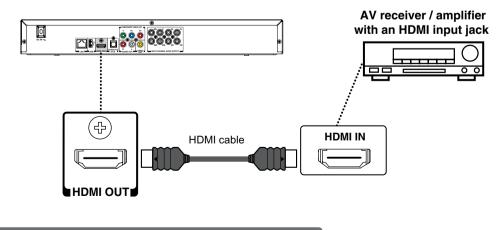
# Via 2-Channel Analog Audio Output



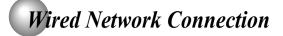
### Via Digital Audio Output



### Via HDMI Audio Output



Digital Audio Optical Cable and HDMI Cable NOT INCLUDED.

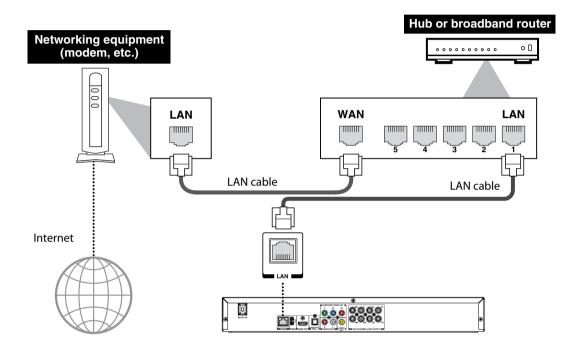


Your Blu-ray disc player can be connected to your home network:

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.

### 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.



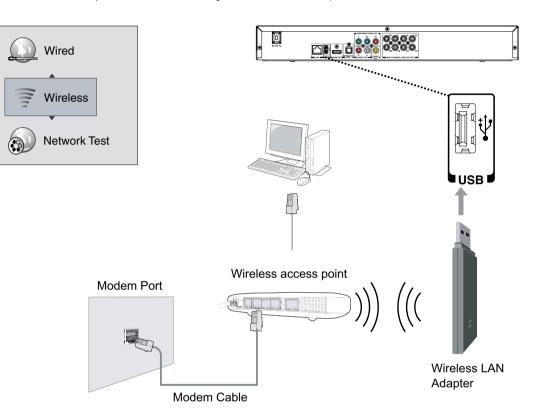
- Do not connect a modular phone cable to the ETHERNET jack.
- When plugging or unplugging the cable, hold the connector on the end of the cable. When unplugging, do not pull on the cable. Press down the lock tab and pull the connector out of the jack.
- Because there are various connection configurations, follow the instructions from your telecommunication carrier or Internet service provider.

# Wireless Network Connection (Need the OPTIONAL Wi-Fi unit of sold separately)

Your Blu-ray disc player can also be connected to network with a Wireless access point.

- 1. A wireless AP/IP router is required to make a wireless network connection. Connect the wireless LAN adapter to the USB port on the rear panel of the Blu-ray Disc Player, and set the wireless network options (See Step 2 ~ 3).
- 2. After the Wi-Fi device inserts to USB terminal, press ▲ / ▼ to select "Network" from Settings, and press OK to enter.
- 3. Press  $\blacktriangle$  /  $\blacksquare$  to select "Wireless", and press OK to enter.

(For detailed information, please refer to the user guide for WLM-10UB1.)

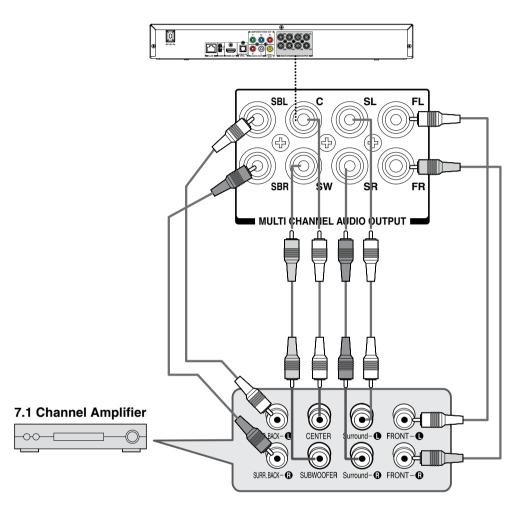


- This unit is compatible with TOSHIBA's Wireless LAN Adapter only. Model name: WLM-10UB1
- You must use a wireless IP sharer that supports IEEE 802.11 a/b/g/n. (n is recommended for stable operation of the wireless network.)
- Wireless LAN, in its nature, may cause interference, depending on the use condition (AP performance, distance, obstacle, interference by other radio devices, etc.).
- Set the wireless IP sharer to Infrastructure mode. Ad-hoc mode is not supported.
- When applying the security key for the AP (wireless IP sharer), only the following is supported.
   1) Authentication Mode : WEP, WPAPSK, WPA2PSK
  - 2) Encryption Type : WEP, TKIP, AES

# **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.



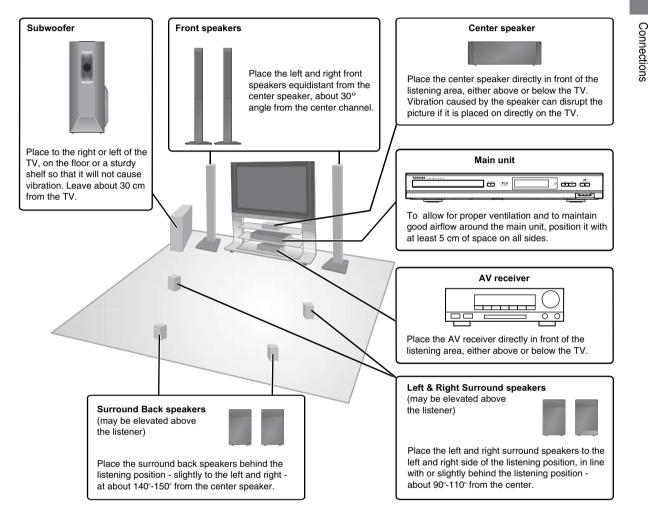
- Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.
- The position of terminals may vary depending on the Amplifier. Please refer to the user's manual of your Amplifier.
- The front left and right outputs on your player and 7.1 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:

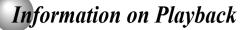
- Place speakers on flat secure bases.
- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with thick curtains.
- Keep your speakers at least 10 mm away from the system for proper ventilation.

### 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, shaper, and acoustical properties.



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.)	Blu-ray Disc
DVD-ROM	
DVD-RW	
DVD-R	
CD-DA (audio CD)	
CD-RW	COMPACT DISTAL AUDIO ReWritable ReWritable
CD-R	COMPACT DIST COMPACT DIGITAL AUDIO Recordable Recordable
DTS-CD	-

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

 This unit cannot playback the disc contents protected by Windows Media<sup>™</sup> Digital Rights Management (DRM).

Readable cards	Playable files/data
SD Memory Card (8 MB - 2 GB)	. MP3, Windows Media™
SDHC Memory Card (4 GB - 8 GB)	Audio, JPEG, picture-
miniSD Card (8 MB - 2 GB)	in-picture commentary, subtitles or other extras
microSD Card (8 MB - 2 GB)	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.

# **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.

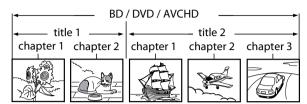




DVD-video

### Structure of Disc/SD Card Contents

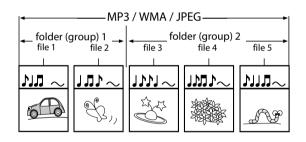
The contents of BD / DVD / AVCHD are generally divided into titles. Titles may be further subdivided into chapters.

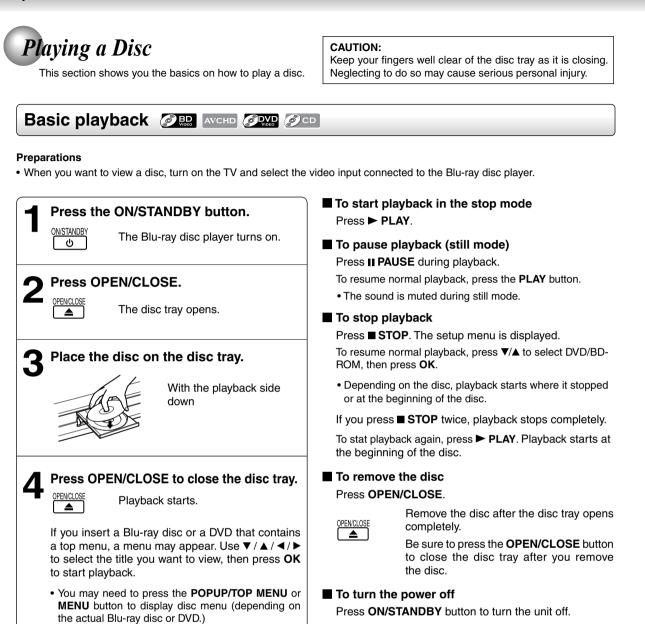


Audio CD is divided into tracks.



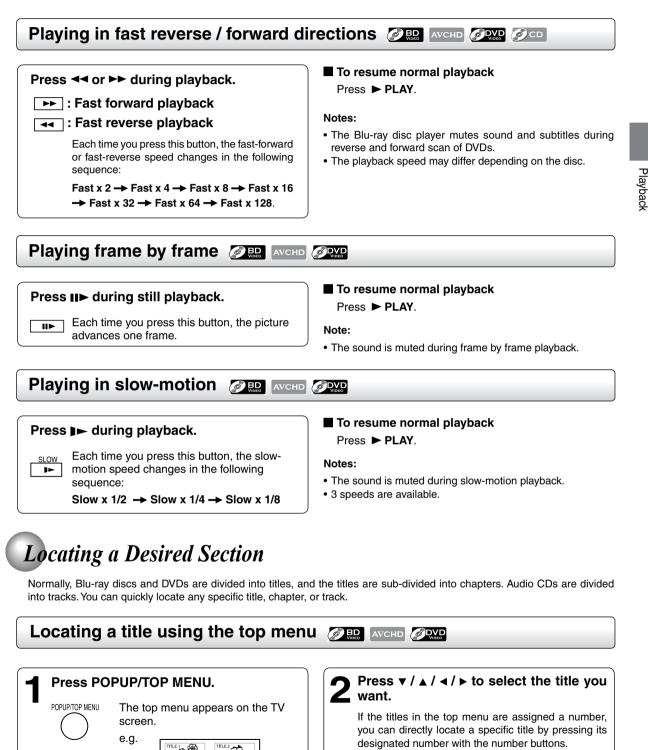
Data discs, USB device, SD Memory Cards containing MP3 / WMA /JPEG are divided into folders, and the folders are subdivided into files.





# Variable Speed Playback

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

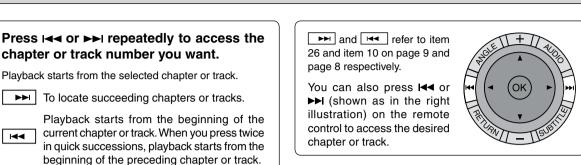


Playback starts from Chapter 1 of the selected title.

Press OK.

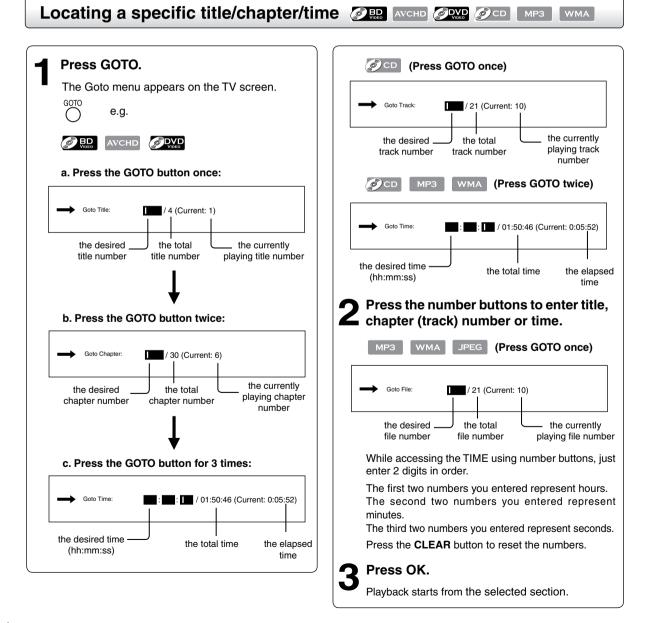
⋈⋖

### Locating a specific chapter or track I RUCHD OF CO



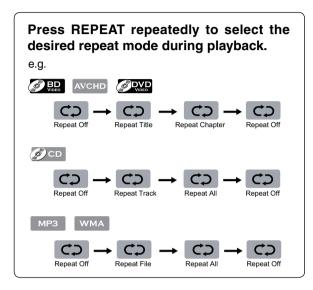
Note: Some titles may not display chapter numbers.

# Accessing a Specific Location Directly



# Repeating a Title, Chapter, Track or Specific Segment

### Repeating a title, chapter or track

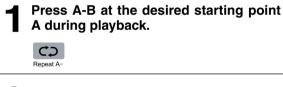




#### Notes:

- 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 canceled if you select other MP3 or WMA folder (file) to playback.

Repeating a specific segment



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

CD Repeat A-B

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

To resume normal playback

Press A-B until Press A-B un

### 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

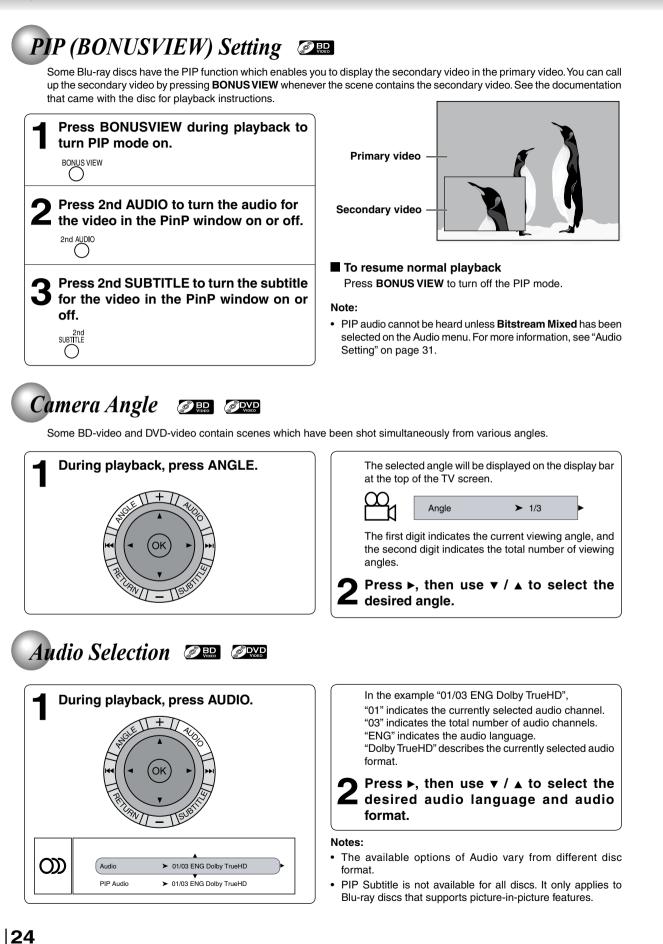


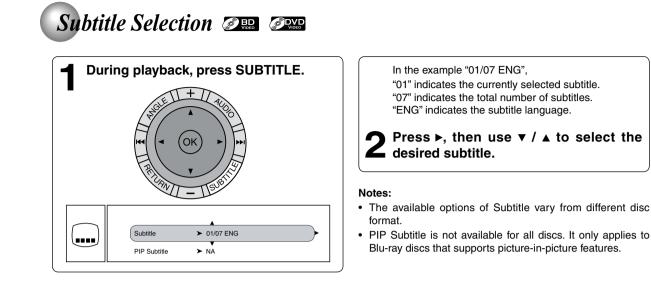
# Press RANDOM repeatedly to select Random ON during playback.

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

### To resume normal playback

Press RANDOM repeatedly until "Random Off is displayed.





# **Displaying On-screen Information**

You can check information about the current disc by pressing

On-Screen display 🖉 🖽 аусно 🖉 🕼 СО МРЗ WMA ЈРЕС

Disc format	On-Screen Display
Ø BD Video	Title 1 Chapter 1/25         CO           BD-ROM         0:02:00         1:57:35         Off         Play
	Title 1 Chapter 1/18         CD >           0:02:00         1:57:35         Off         Play
Ø CD	Track 1/12         CO         Image: Color of the state
MP3 WMA	File: 1/5 song1.mp3 Title: Cool Track Artist: Ricardo Funiccio Album: Dead Dux 0:02:00 0:30:00 Off Off Play
JPEG	File: 4/13 flower.jpg

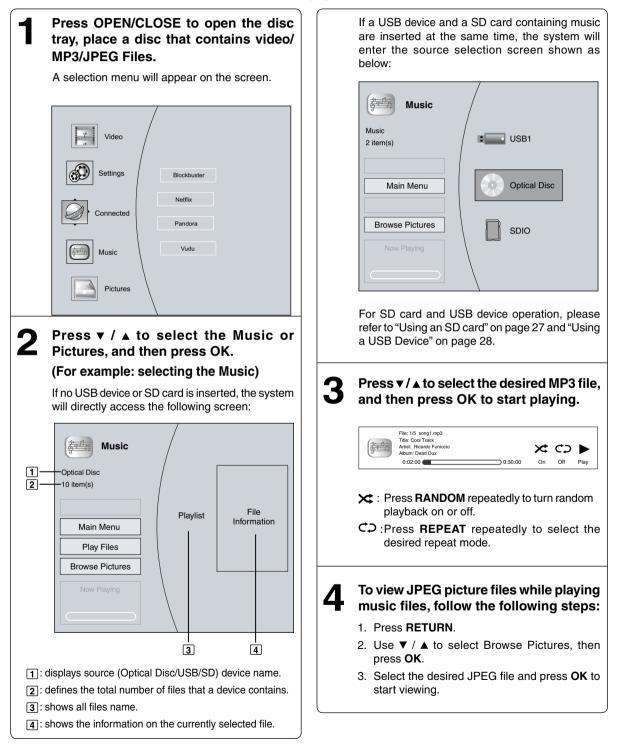
Playback

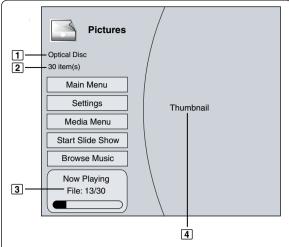
Playing AVCHD/MP3/WMA/JPEG Files AVCHD MP3 WMA JPEG

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: 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.

# Using an SD Card

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

► None
► No Delay
Ok

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.

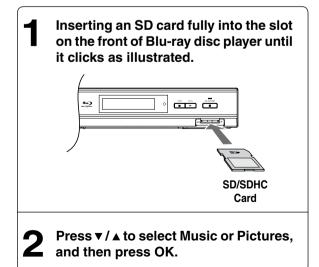
To stop playing and return to the main menu, follow one of the steps described below:

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

### CAUTION:

Before inserting the SD card, please read carefully the relevant information on "**Playable Discs and Files**" on page 18.

### Inserting an SD card



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 26 for details.

### To pause playback

Press II 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.

- 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 video, MP3 or JPEG files that have been stored on USB devices on the Blu-ray disc player.

### **Operating a USB device**

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

# **2** Press $\checkmark$ / $\blacktriangle$ 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 26 for details.

- To pause playback Press II 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.

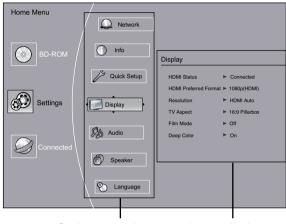
- If you cannot easily insert the USB device, you may have inserted it incorrectly. Try to turnover the device and then insert again.
- Do not remove the USB device during playback.



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

General Operations

- Press ▼ / ▲ to select Settings in home menu while in full stop mode, the Settings menu appears.
- Press ► button, then use ▲ / ▼ button to select the setting options.
- 3. Press OK button.
- Press ◄ or **RETURN** button to return to the previous menu.



Settings menu items submenu display area

### **Network Connection Setting**

 Press ▼ / ▲ to select Network in stop mode, the network connection menu appears.



- Press ► button, then use ▲ / ▼ button to select the desired connection setting.
- 3. Press **OK** button.

**Note:** The option **Wireless** appears only while a wireless LAN adapter is inserted into the USB slot.

### **Configuring a wired Internet connection**

 Press ▼ / ▲ to select Wired, then press OK to confirm. The IP Settings screen appears.

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.

IP Settings	
Link Status	► Link Down
MAC Address	00:23:18:75:b1:2b
IP Mode	► Dynamic
IP Address	0.0.0.0
Subnet Mask	0.0.0
Gateway	0.0.0.0
Primary DNS	0.0.0
Secondary DNS	0.0.0.0
Apply	Cancel

### 2. Press ▼ / ▲ to select IP Mode, then press OK.

- 3. Press ▼ / ▲ 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.
- 4. Press ◄ or **RETURN** to go to the previous menu.

### Info Menu

This menu displays the following information:

- Software Version
- Software Date 
   Netflix ESN
- In the main menu of Settings, press ► button, then use ▲
   /▼ button to select Info to display the version information
   on software and hardware.
- 2. Press ◄ or **RETURN** to go to the previous menu.

### Performing Quick-Setup

- 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.
- Follow the on-screen instructions to customize the following settings to your preference:
- OSD Language Settings
   Resolution
- TV Aspect
- 4. After setting, press **OK** to confirm and exit the setup.

29

Function setup

# Customizing the Function Settings

### **Display Setting**

 In the main menu of Settings, press ► button to select Display, and then press OK to confirm.

Display	
HDMI Status	<ul> <li>Connected</li> </ul>
HDMI Preferred Format	► 1080p(HDMI)
Resolution	HDMI Auto
TV Aspect	► 16:9 Pillarbox
Film Mode	► Off
Deep Color	► On

- 2. Press ▲ / ▼ to select an option, and then press OK.
- 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.

ТV Туре	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 informa- tion 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) con- nected to the HDMI jack on your player	1080p (HDMI)
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:**

16:9 wide, 16:9 Pillarbox, 4:3 Pan and Scan and 4:3 Letter Box are available for your choice.

### 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.

# **Customizing the Function Settings**

### **Audio Setting**

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

In the main menu of Settings, press ► button, then use
 ✓ button to select Audio, then press OK button.

Audio	
PCM Downsampling	► 48 kHz
Digital Output	► PCM7.1
Dynamic Range Control	► On

- 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 <u>analog</u> 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 <u>HDMI</u> 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 dsic 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 disk'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.

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 disk, 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.



### 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:

 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.
- Use ▼ / ▲ / ► / ◄ to highlight the desired speaker, then press OK to enter.
- 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:**

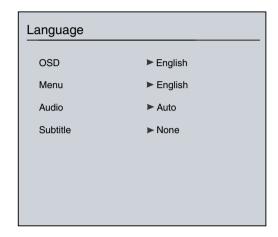
- By setting the left rear speaker's size, the right rear speaker's size is automatically changed to match.
- If the front speakers have been set to small, the rear speakers can only be set to 'Small' or 'Off'.
- Use ▼ / ▲ / ▶ / ◄ to move the highlight box to the Test button on the bottom, then press OK. A message will appear.

- 5. Press ▼ / ▲ to choose the desired audio signal. You can select between Pink, 1kHz Sine and White.
- 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.
- 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**.



- 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.

### 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 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).
- 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**.

Parental	
Parental Country	► USA
Parental Control	► Off
Parental Level	►1 [Kid Safe]
Parental Password	•

- 2. Press  $\blacktriangle$  /  $\triangledown$  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

If a Blu-ray Disc has parental rating systems for more than one country, you can select the country you want to use.

- In the main menu of Settings, press ▶, then press ▲ / ▼ to select Parental, and then press OK.
- 2. While the highlight bar is moved on **Parental Country**, then press **OK**.
- Press ▲ / ▼ to select the desired country, then press OK.
- 4. Press ◀ to go to the previous menu.

Function setup



### Turning parental control on or off

- 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  $\blacktriangle$  /  $\blacktriangledown$  to select **On** or **Off**, then press **OK**.
- 4. Press ◀ to go to the previous menu.

### Setting the parental control level

- 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 DVDs can be played.

Note: These ratings are only for DVDs.

4. Press ◀ to go to the previous menu.

### Setting the parental control password

- 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.

Press ◄ to go to the previous menu.

### System Setting

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

# System Optical Disc Auto Play BD-Live Internet Access BD-Live Storage Erase Blu-ray Storage

- ► CST (GMT-06:00)
- ► 5 Minutes
- ► On
- ► Required Storage: 84 MB
- Restore factory defaults 🕨
- 2. Press ▲ / ▼ to select an option, and then press OK.
- Use ▲ / ▼ to select the desired setting, and then press OK to confirm.

### **Optical Disc Auto Play:**

Time Zone

CEC Support

Screen Saver Duration

Update Via Network

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

### **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.

### **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.).

For detailed operation, please refer to "Using BD-Live™ Features" on page 38.

### Erase Blu-ray Storage:

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

### Time Zone:

This option allows you to select the desired time zone.

# Customizing the Function Settings

### 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.

### **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.

Note: Not all TVs are compatible with your Blu-Ray Player.

On: Allow mutual control of devices through HDMI.

Off: Do not allow CEC control.

### **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.

# Using the Connected Applications

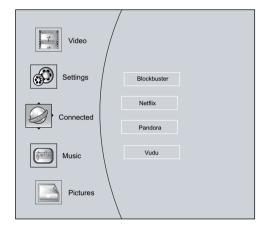
Some players are equipped with the capability to watch movies over the internet (from Blockbuster, Netflix or Vudu), or to listen to Pandora internet radio.

### Watching Movies with Netflix<sup>™</sup>

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

### 1. Launching Netflix movie

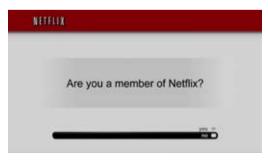
In Home Menu, press  $\blacktriangle / \lor$  to select **Connected**, then use  $\triangleright$ , and then press  $\blacktriangle / \lor$  to highlight "Netflix", and then press **OK** to enter.



### 2. Creating Netflix account

If you are not a Netfix Member:

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



If you are a Netfix Member: Select "Yes".

### 3. Activating Netflix player

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

Great! To have movies streamed instantly from Netflix
Go to your computer and activate your device: 1. Vius: metfile.com/activate
2. Enter this code

### 4. Preparing Instant Queue

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

### Now you can view Netfix streaming video.

After having activated Netfix 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 Netfix 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.
ОК	To pause playing of Trick play screen while in PLAY mode. To start playing the movie in case of dur- ing Trick play screen.

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

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# 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 : Displays a title that has been added to My Favorites.
  - Confgure : 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 <u>www.blockbuster.com</u> to create your account.
- 4. Use  $\nabla / \blacktriangle / \triangleright / \dashv$  to select the **Configure**, then press **OK**.
- 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.
- Press ► / < to select the Movies or TV Shows, then press OK.</li>
- 7. Press  $\nabla / \triangle / \triangleright / \triangleleft$  to select the desired title, then press **OK**.
- 8. Press  $\blacktriangleright$  /  $\triangleleft$  to select the **Rent** or **Buy**, then press **OK**.
- 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.</li>
- 10.Press ◀ to go to the previous menu.

## Watching Movies with VUDU™

## Creating a VUDU account on your player

- 1. In Home Menu, press  $\blacktriangle$  /  $\blacktriangledown$  to select **Connected**.
- 2. Press  $\blacktriangleright$ , then press  $\blacktriangle$  /  $\blacktriangledown$  to highlight **Vudu**, and then press **OK** to confirm.
- 3. Follow the instructions to create an account, it will ask for an email address.
- 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  $\blacktriangle$  /  $\blacktriangledown$  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.

# Using BD-Live<sup>™</sup> Features

Some (but not all) BD disks 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
- multiperson 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.

## Adding BD-Live memory to the player

In order to set the player up 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.

## Configuring the player for 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 System, then press OK.
- 2. Press ▲ / ▼ to select "BD-Live Internet Access", and then press OK.
- 3. Use  $\blacktriangle$  /  $\blacksquare$  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 System 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 29.)

## Note:

- 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.

# **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> <li>Check if the AC cord is properly connected.</li> <li>Unplug the AC cord once, and wait for 5-10 seconds and then plug it in again.</li> </ul>	
No sound or picture	<ul> <li>Check if the connected TV is turned on.</li> <li>Check if the connections are made securely and correctly.</li> <li>Check whether the connected TV or other device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.)</li> <li>Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device.</li> </ul>	
Distorted picture	<ul> <li>Sometimes a small amount of picture distortion may appear. This is not a malfunction.</li> <li>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.</li> </ul>	
Completely distorted picture or black / white picture with BD / DVD	- Make sure the disc is compatible with this unit.	
No sound or distorted sound	<ul> <li>Adjust the volume.</li> <li>Check if speakers are connected correctly.</li> <li>Check the HDMI connections.</li> <li>Check the settings in "Audio" menu.</li> </ul>	
Picture freezes momentarily during playback	<ul> <li>Check the disc for fingerprints / scratches and clean with a soft cloth wiping from center to edge.</li> <li>Clean the disc.</li> </ul>	
Disc cannot be played back	<ul> <li>Clean the disc.</li> <li>Ensure the disc label is facing up.</li> <li>Check if the disc is defective by trying another disc.</li> <li>Cancel the ratings control or change the control level.</li> <li>Insert a correct disc that can be played back on this unit.</li> </ul>	
SD Memory Card cannot be read	- 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	- Reset this unit by turning it off, then on again.	
The unit does not respond to the remote control	<ul> <li>Aim the remote control directly at infrared sensor window on the front panel.</li> <li>Reduce the distance to infrared sensor window.</li> <li>Replace the batteries in the remote control.</li> <li>Re-insert the batteries with their polarities (+ / - signs) as indicated.</li> </ul>	
Buttons do not work or the unit stops responding	- 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> <li>Operations may not be permitted by the disc.</li> <li>Refer to the instructions of the disc.</li> </ul>	
The unit cannot read BD / DVD/ CD	<ul> <li>Dew condensation may form inside the unit. Do not use this unit for at least a few hours until its inside gets dry.</li> <li>Wipe the dirt off the disc or replace the disc.</li> </ul>	
Angle does not switch	- 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	- 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	<ul> <li>Check if the LAN cable connection is properly made.</li> <li>Turn on the modem or broadband router.</li> <li>Check if the broadband router and/or modem is correctly connected.</li> <li>Check the "Network Connection Setting".</li> </ul>	
Cannot connect to the network while my PC is connected to the network	<ul> <li>Check the content of your Internet service contract to see if your Internet service provider prevents multiple terminals connecting at the same time.</li> </ul>	
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	<ul> <li>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.</li> </ul>	

#### 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 benzine, 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.



## **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 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 BDvideo 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 multichannel 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 multichannel surround sound output.

## **DTS (Digital Theater System)**

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. Bluray 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.

#### 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 BDvideo 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<sup>™</sup> Audio

Windows Media<sup>™</sup> Audio is the audio compressing technology developed by Microsoft. You can copy Windows Media<sup>™</sup> 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.



General		
Signal system	NTSC color	
Power requirements	120 V AC, 60 Hz	
Power consumption	23 W	
Dimensions (width x height x depth)	430 x 58.5 x 209.7 mm	
Weight	1.7 kg	
Operating temperature	41°F (5°C) to 95°F (35°C)	
Operating humidity	Less than 80 % (no condensation)	

	Terminals		
	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	
Rear	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 $1k\Omega$ )	
	Audio output (Digital)		
	Optical jack x 1	Digital connector	
	<b>Multi channel audio output</b> RCA jack x 8	All channels: 2 Vrms (output impedance: less than $1k\Omega$ )	
	USB terminal x 1	5V 500mA	
	LAN terminal	100BASE-T	

## Note:

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

Others

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BDX2500 requires a wireless adapter - sold separately.

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A copy of the LGPL2.0 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.	
*freetype	The terms and conditions which apply to this software are provided in Appendix G.	
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Utility	Base Version	License
*kernel		GPL 2.0
Reffiel		GFL 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
*hostnamesysutils	sysutils	GPL 2.0
*ifconfig	net-tools-1.52	GPL 2.0
*iptables	iptables-1.4.3	GPL 2.0
*kill	sysutils	GPL 2.0
*mkcramfs	cramfs	GPL 2.0

*mtd-utils	mtd-utils-20090511	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
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hdparm	hdparm-6.9	BSD-new
The terms and conditions which apply to this software are provided in Appendix M.		
libpcap	libcap-1.0.0	BSD-new
The terms and conditions which apply to this software are provided in Appendix M.		
portmap	portmap	BSD-old
The terms and conditions which apply to thi	s software are provided in Appendix J.	
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openssl	openssl 0.9.8k	BSD-old. See advertisement notice above.

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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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Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

#### o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

http://www.freetype.org

--- end of FTL.TXT ---

## Appendix H – Openssl License

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\*/

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