



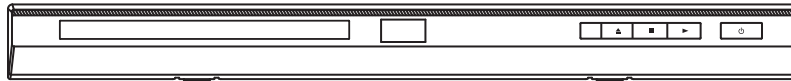
TOSHIBA



Blu-ray Disc™/DVD Player
Lecteur de disque Blu-ray^{MC}/DVD

EN

FR



BDX2250KC

OWNER'S MANUAL
MODE D'EMPLOI

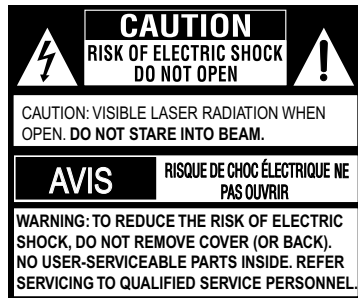


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Important Safety Information

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.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If

the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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ADDITIONAL SAFETY INSTRUCTIONS

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

Important Safety Information

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 Information Systems, Inc.
9740 Irvine Blvd., Irvine, CA 92618.
Ph: 1-800-631-3811

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

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

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

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

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

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

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

On Placement

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

On Safety

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

On Condensation

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

On Recycling

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











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

Supplied Accessories

Remote Control with Batteries (AAA x 2)	X 1
Owner's Manual (EN/FR).....	X 1
Quick Start Guide(EN/FR)	X 1

Symbols Used in this Manual


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

Symbol	Description
	Description refers to BD-video and BD-RE / BD-R recorded in BDMV format
	Description refers to DVD-video
	Description refers to Audio CD / DTS-CD
	Description refers to DVD-RW/-R with AVCHD files
	Description refers to BD-RE/-R, DVD-RW/-R and CD-RW/-R with MP3 files
	Description refers to BD-RE/-R, DVD-RW/-R and CD-RW/-R with WMA files
	Description refers to BD-RE/-R, DVD-RW/-R and CD-RW/-R with JPEG files
	Description refers to BD-RE/-R, DVD-RW/-R and CD-RW/-R with MKV files



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

Trademark Information


Netflix is a registered trademark of Netflix Inc.
 YouTube is a registered trademark of Google, Inc.
 Picasa is a trademark of Google, Inc.



Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending. DTS-HD, the Symbol, & DTS-HD and the Symbol together are registered trademarks & DTS-HD Master Audio | Essential is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.





The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance. The Wi-Fi Protected Setup Mark is a mark of the Wi-Fi Alliance.




"DVD" is a trademark of DVD Format / Logo Licensing Corporation.



x.v.Color
 x.v.Color and x.v.Color logo are registered trademarks of Sony Corporation.



"AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.




HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.





BONUS VIEW™


Blu-ray Disc™, Blu-ray™, BD-Live™ and BONUSVIEW™ and the logos are trademarks of the Blu-ray Disc Association.




Manufactured under license from Dolby Laboratories. Dolby, Pro Logic and the double-D symbol are trademarks of Dolby Laboratories.



Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.



Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.



DLNA®, the DLNA Certification Logo and DLNA CERTIFIED™ are trademarks, service marks, or certification marks of the Digital Living Network Alliance.

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Features

Blu-ray Disc™

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

BD-Java

With some Blu-ray Disc™ 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 Blu-ray Disc™, DVD and CD ensures that you can continue to enjoy your current audio-video collection. Additionally, you can view JPEG digital pictures or listen to MP3 or Windows Media™ Audio music files.

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 POP/TOP or MENU. Contents in the pop-up menu vary depending on the disc.

Playing back AVCHD files

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

x.v.Color®

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

Wi-Fi CERTIFIED®

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

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 (Blu-ray Disc™ only)

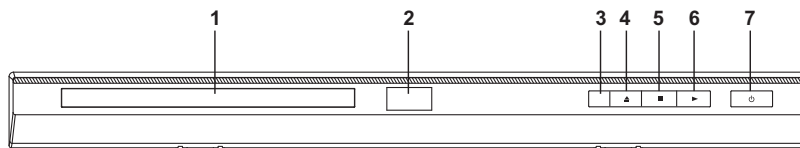
This unit is equipped with a feature which can provide the smooth movement in the playback of film originated material with the frame rate of 24 frames per second with progressive scan. (Available only when the TV is connected by an HDMI cable and compatible with 1080p/24F frame input.)

Copyright protection system

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

Identification of Controls

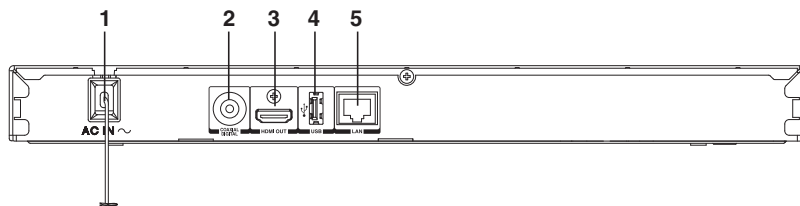
Front Panel



1. **Disc tray**
2. **Power indicator**
3. **Remote sensor**
4. **OPEN/CLOSE** button
5. **STOP** button
6. **PLAY** button
7. **POWER** 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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Rear Panel

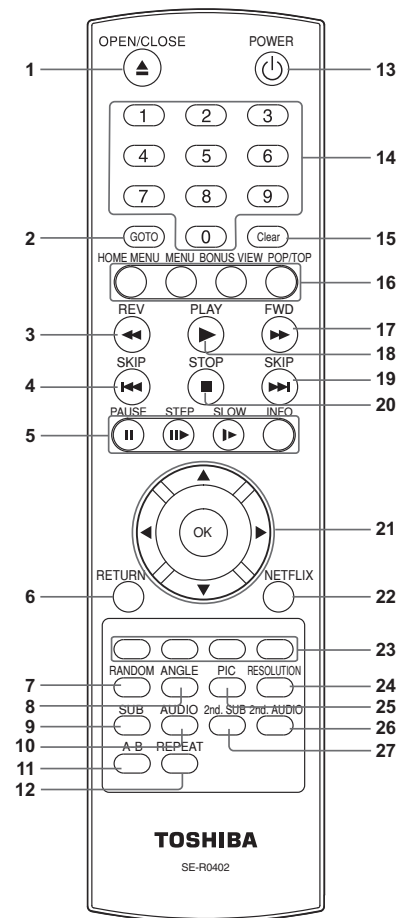


1. **AC power cord**
 - Connect to a standard AC outlet to supply power to this unit.
 - Unplug this cord from the AC outlet to completely turn off the unit.
2. **COAXIAL DIGITAL AUDIO OUT jack**
 - Use to connect an AV receiver / amplifier, Dolby Digital / DTS decoder or other device with a coaxial digital audio input jack using a coaxial digital audio cable.
3. **HDMI OUT jack**
 - Use to connect a TV with an HDMI compatible port via an HDMI cable.

* HDMI connection is required. Cables are not included. Analog connection is not supported.
4. **USB port**
 - Use to connect a USB flash drive/wireless LAN adapter (not included).
5. **LAN terminal**
 - Use to connect network equipment with a LAN cable.

Identification of Controls

Remote Control



No.	Item	Description
1	OPEN/CLOSE ▲	Press to open or close the disc tray.
2	GOTO	Press to display the search menu.
3	REV ◀◀	During playback, press to fast reverse the playback. • During playback, press once to return to the beginning of the current title, chapter, track or file.
4	SKIP ◀◀	• During playback, press twice to return to the previous title, chapter, track or file. • During the JPEG playback, press to return to the previous file.
	PAUSE	Press to pause playback.
	STEP ▶	Press to advance one frame.
5	SLOW ▶▶	Press to play back the disc in slow motion.
	INFO	Press to display disc information.
6	RETURN	Press to return to the previous menu.
7	RANDOM	Press to turn random function on or off for Audio CD, MP3 or WMA disc.
8	ANGLE	Press to select a viewing angle if multiple angles are available on the disc.
9	SUB (SUBTITLE)	Press to display the subtitle menu.
10	AUDIO	Use to select the audio mode.
11	A-B	Press to play back a defined section between point A and B repeatedly.
12	REPEAT	Press to toggle between various repeat modes.
13	POWER ⏻	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.)

Identification of Controls

No.	Item	Description
14	Number buttons	<ul style="list-style-type: none"> In playback mode, press GOTO, then press the number buttons to enter a title, chapter, track, time or file number. In menu mode, press to enter the parental code password.
15	CLEAR	Press to clear an input error.
	HOME MENU	Press to display the home menu of the player.
	MENU	Press to display disc menu.
	BONUSVIEW	Press to switch picture-in-picture feature on or off (only applicable to BD-video which supports the PIP function).
16	POP/TOP	<ul style="list-style-type: none"> During Blu-ray Disc playback, press to open a menu that lets you control Blu-ray Disc playback. During DVD playback, press to open the DVD menu (if available).
17	FWD ►►	During playback, press to fast forward the playback.
18	PLAY ►	Press to start playback or resume playback.
19	SKIP ►►I	<ul style="list-style-type: none"> During playback, press to skip to the next title, chapter, track or file. During the JPEG playback, press to go to the next file.
20	STOP ■	Press to stop playback.
	▲ / ▼ / ◀ / ▶	Press to select items or settings.
21	OK (ENTER)	Press to confirm or select menu items.
22	NETFLIX	Press to use Netflix service directly. (Make sure your Blu-ray Disc™ player is correctly connected to the internet and network settings are properly configured.)
23	RED / GREEN / BLUE / YELLOW	<ul style="list-style-type: none"> Press to select items on some Blu-ray Disc™ contents. When file list / thumbnail list is shown, press to switch between pages.
24	RESOLUTION	Press to select the video resolution in full stop mode.

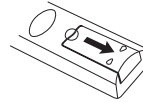
25	PICT	<p>In playback mode, use to adjust picture quality according to your preference (Actual effect to picture may vary depending on TV.):</p> <ul style="list-style-type: none"> E.P.M (Enhanced Picture Mode): The picture is sharper with enhanced color. Sharpness
26	2nd. AUDIO	In PIP mode, press to turn the audio for the secondary video on or off.
27	2nd. SUB (SUBTITLE)	In PIP mode, press to turn the subtitle for the secondary video on or off.

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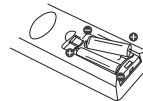
Installing batteries

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

1 Open the cover.



2 Insert batteries.



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

3 Close the cover.

Caution: Never throw batteries into a fire.

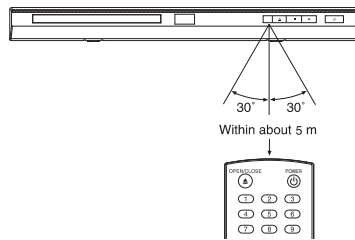
Notes:

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

Identification of Controls

Operating with the remote control

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



Distance: About 5 m from the front of the remote sensor.

Angle: About 30° in each direction of the front of the remote sensor.

* 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.

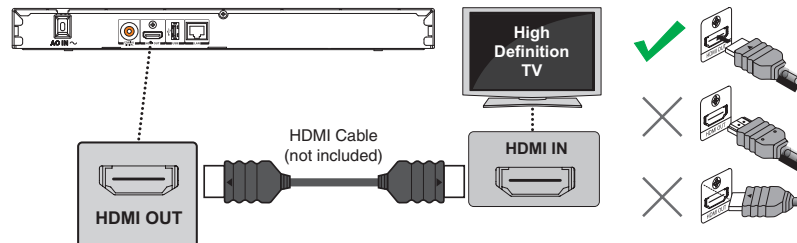
Notes:

- 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.

Connections

Connecting to a TV using an HDMI® cable

This connection provides better picture quality and supports up to 1080i/1080p, 1080p/24F resolution. Connect a HDMI cable from the HDMI output jack on this product to the HDMI input jack on the TV.



Notes:

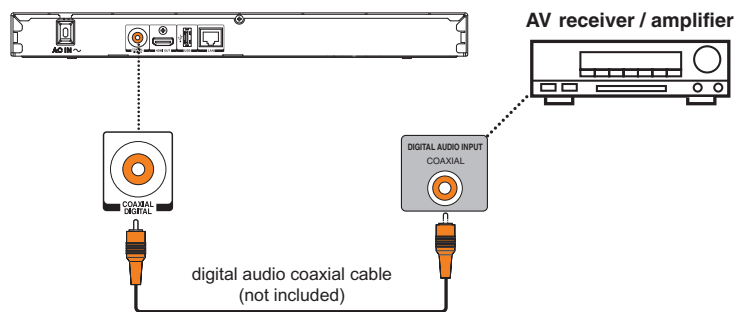
- HDMI connection is required. Cables are not included. Analog connection is not supported.
- Do not tilt the connector when inserting it into the HDMI jack, and make sure the shapes of the jack and the connector are matched.
- When using a non-HDCP compatible TV, the image will not display properly.
- 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.

Connections

Connecting to a digital amplifier/AV receiver

Route the sound from this player to other device to enhance audio output.

- Connect a coaxial cable from the COAXIAL DIGITAL jack on this product to the COAXIAL jack on the device.
- If your AV receiver or amplifier has an HDMI jack, you can also connect the HDMI cable to HDMI IN jack on your AV receiver or amplifier.



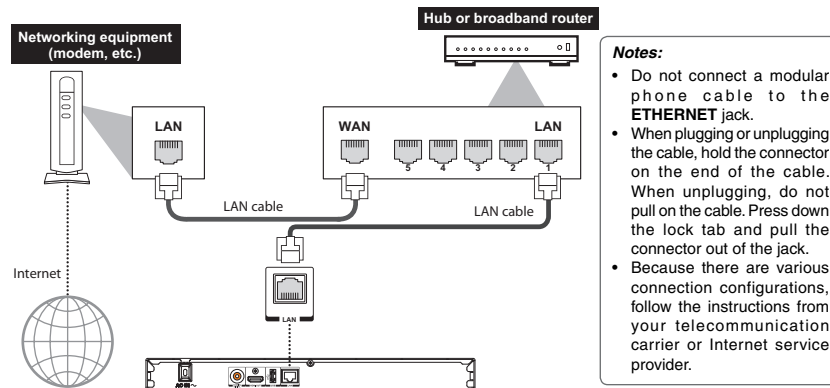
Connecting to network

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

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

Connecting your player to a wired router

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

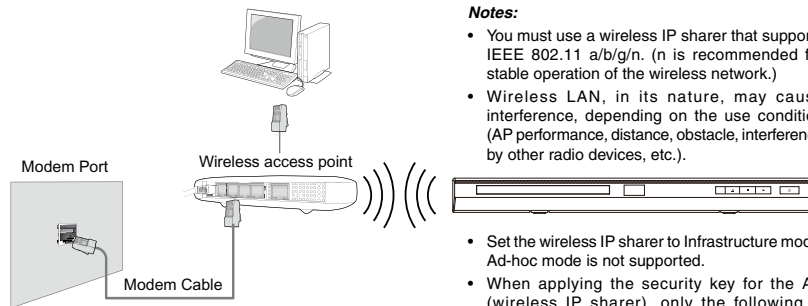


Connections

Connecting your player to a wireless access point or router

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

- Configure your player to access the wireless access point or router. For more information, see "Configuring a wireless Internet connection" on page 26.
- The network configuration and connection method may vary depending on the equipment in use and the network environment. Your Blu-ray Disc™ player is equipped with an IEEE 802.11n wireless module, which also supports the 802.11 a/b/g/n standards. For the best wireless performance, we recommend using an IEEE 802.11n certified Wi-Fi network (access point or wireless router).



Notes:

- 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 : WPAPSK, WPA2PSK
 - 2) Encryption Type : WEP, TKIP, AES

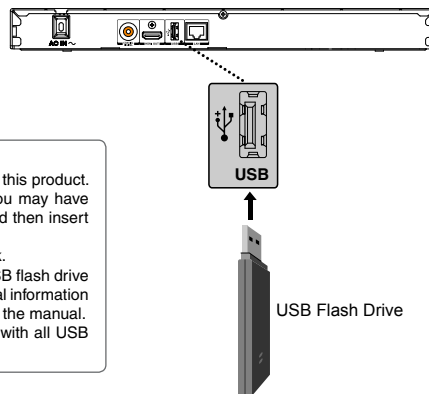
Connecting a USB Flash Drive

A USB flash drive provides an additional memory to software upgrade and enjoy BD-Live™ bonus content. You can also enjoy playing back MP3/WMA/JPEG/MKV files stored in the USB flash drive.

Inserting a USB flash drive into the USB port on the back of Blu-ray Disc™ player until it clicks.

Notes:

- Connect only a USB flash drive to the USB port on this product.
- If you cannot easily insert the USB flash drive, you may have inserted it incorrectly. Try to turnover the device and then insert again.
- Do not remove the USB flash drive during playback.
- BD-Live™: Access to BD-Live™ requires use of USB flash drive (not included) installed in the USB port. For additional information regarding the access to BD-Live™, see page 21 of the manual.
- TOSHIBA does not guarantee 100% compatibility with all USB flash drives.



Playback

Information on Playback

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

Playable Discs and Files

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

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

Other disc types are not guaranteed to play back.

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

Playable files	Media
AVCHD	DVD-RW/-R
MP3	
Windows Media™ Audio	BD-RE/-R, DVD- RW/-R, CD-RW/-R
JPEG	
MKV	

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

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
- Blu-ray Disc™ / DVD containing DivX® files.
- Blu-ray Disc™ / DVD hybrid disc (played back as a BD-video only)
- Blu-ray Disc™ 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.
- Multi session disc
- Multi border disc

EN

Region Codes

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

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



BD-video



DVD-video

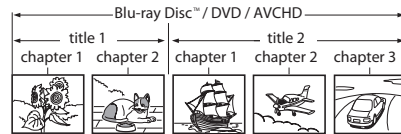
Color System

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).

Playback

Structure of Disc Contents

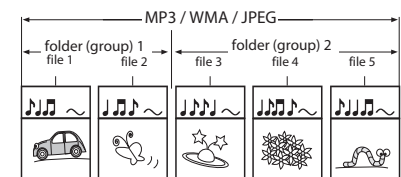
The contents of Blu-ray Disc™ / DVD / AVCHD are generally divided into titles. Titles may be further subdivided into chapters.



Audio CD is divided into tracks.



Data discs or USB flash drives containing MP3 / WMA / JPEG are divided into folders, and the folders are subdivided into files.



Basic Playback



Preparations

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

CAUTION:

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

1 Press the POWER button.



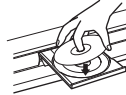
The Blu-ray Disc™ player turns on.

2 Press OPEN/CLOSE.



The disc tray opens.

3 Place the disc on the disc tray.



With the playback side down

4 Press OPEN/CLOSE to close the disc tray.

OPEN/CLOSE



Playback starts.

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

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

■ To start playback in stop mode

Press ► PLAY.

■ To pause playback (still mode)

Press II PAUSE during playback.

To resume normal playback, press the ► PLAY button.

- The sound is muted during still mode.

■ To stop playback

Press ■ STOP. The home menu is displayed.

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

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

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

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

■ To remove the disc

Press OPEN/CLOSE.

OPEN/CLOSE



Remove the disc after the disc tray opens completely.

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

■ To turn the power off

Press POWER button to turn the unit off.

Playback

Variable Speed Playback

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

Playing in fast reverse / forward directions



Press ◀◀ or ▶▶ during playback.

FWD
▶▶ : Fast forward playback

REV
◀◀ : Fast reverse playback

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

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

■ To resume normal playback

Press ▶ PLAY.

Notes:

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

Playing frame by frame

Press |||▶ during still playback.

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

■ To resume normal playback

Press ▶ PLAY.

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

Playing in slow motion

Press ||▶ during playback.

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

Slow x 1/2 → Slow x 1/4 → Slow x 1/8

■ To resume normal playback

Press ▶ PLAY.

Notes:

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

Locating a Desired Section

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

Locating a title using the pop/top menu



1 Press POP/TOP.

POP/TOP
○ The pop/top menu appears on the TV screen.

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

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

3 Press OK.

Playback starts from Chapter 1 of the selected title.

EN

Locating a specific chapter or track



Press |◀◀ or ▶▶| repeatedly to access the chapter or track number you want.

Playback starts from the selected chapter or track.

SKIP
◀◀ : Playback starts from the beginning of the current chapter or track. When you press twice in quick succession, playback starts from the beginning of the preceding chapter or track.

SKIP
▶▶ : To locate succeeding chapters or tracks.

Note: Some titles may not display chapter numbers.

Accessing a Specific Location Directly

Locating a specific title/chapter/time      

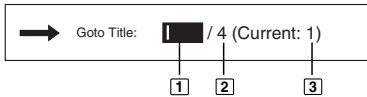
1 Press GOTO.

The Goto menu appears on the TV screen.

 e.g.

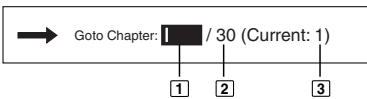


a. Press the GOTO button once:



- 1 : the desired title number
- 2 : the total title number
- 3 : the currently playing title number

b. Press the GOTO button twice:



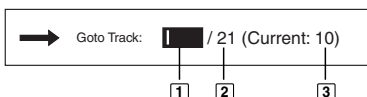
- 1 : the desired chapter number
- 2 : the total chapter number
- 3 : the currently playing chapter number

c. Press the GOTO button for 3 times:





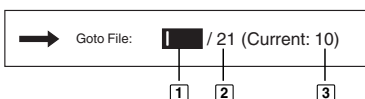
- 1 : the desired time (hh:mm:ss)
- 2 : the total time
- 3 : the elapsed time

 (Press GOTO once)





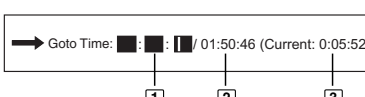
- 1 : the desired track number
- 2 : the total track number
- 3 : the currently playing track number

  (Press GOTO once)



- 1 : the desired file number
- 2 : the total file number
- 3 : the currently playing file number

  (Press GOTO twice)



- 1 : the desired time (hh:mm:ss)
- 2 : the total time
- 3 : the elapsed time

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

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

The first two numbers you enter represent hours.

The second two numbers you enter represent minutes.

The third two numbers you enter represent seconds.

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

3 Press OK.

Playback starts from the selected section.

Playback

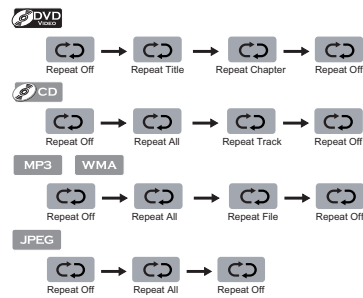
Repeating a Title, Chapter, Track or Specific Segment

Repeating a title, chapter or track



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

e.g.



Notes:

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

Repeating a specific segment



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

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

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

To resume normal playback

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

Notes:

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

Playing in a Random Order

Playing tracks or files in a random order



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

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

To resume normal playback

Press **RANDOM** repeatedly until " Random Off" is displayed.

EN

PIP (BONUSVIEW™) Setting



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

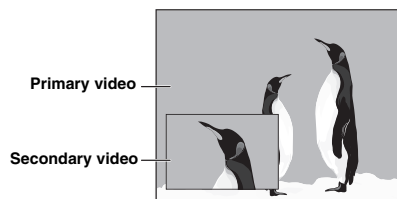
1 Press **BONUS VIEW** during playback to turn **PIP mode on**.



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



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



To resume normal playback

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

Note: PIP audio cannot be heard unless **Bitstream Mixed** has been selected on the Audio menu. For more information, see "Audio Setting" on page 23.

Playback

Camera Angle



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

1 During playback, press ANGLE.

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



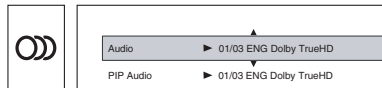
The first digit indicates the current viewing angle, and the second digit indicates the total number of viewing angles.

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

Audio Selection



1 During playback, press AUDIO.



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

2 Press **▶**, then use **▼ / ▲** to select the desired audio language and audio format.

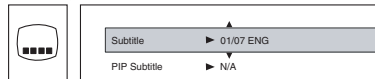
Notes:

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

Subtitle Selection



1 During playback, press SUB.



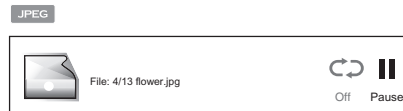
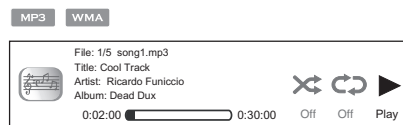
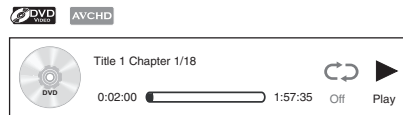
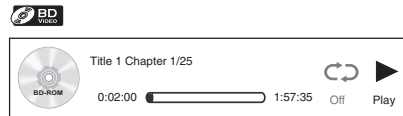
In the example "01/07 ENG", "01" indicates the currently selected subtitle. "07" indicates the total number of subtitles. "ENG" indicates the subtitle language.

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

Displaying On-screen Information



You can check information about the current disc by pressing INFO.



Playback

Playing AVCHD/MP3/WMA/JPEG/MKV Files

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

Playing files on a data disc

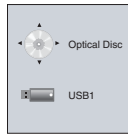
AVCHD MP3 WMA JPEG MKV

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

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

2 In Home Menu, press **▼ / ▲** to select **Media**, and then press **▶**.

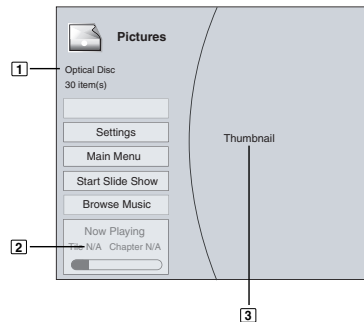
If a USB flash drive containing music is inserted at the same time, the system will enter the source selection screen shown as below:



If no USB flash drive is inserted, the system will only show optical disc.

3 Press **▼ / ▲** to select a desired source and then press **▶** to highlight an option, and then press **OK**.

(For example: selecting the Pictures)

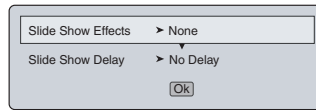


1 : defines the total number of files that a device contains.

2 : shows the currently playing file number.

3 : 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 Second, No Delay, 10 Seconds, 15 Seconds and 30 Seconds). After setting, press **▼** to highlight **Ok** and then press **OK** to confirm.



Main Menu: Returns to the main menu.

Previous Folder: This item only appears if your optical disc or USB flash drive 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.

4 Press **▼ / ▲** to select the desired photo, and then press **OK** to start playing.

↺ : Press **REPEAT** repeatedly to select the desired repeat mode.

5 To play music files while viewing photos, follow the following steps:

- Press **RETURN**.
- Use **▼ / ▲** to select **Browse Music**, then press **OK**.
- Select the desired track and press **OK** to start playing.

6 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.

EN

Playback

Using a USB Flash Drive

You can play MP3, WMA, JPEG or MKV files that have been stored on USB flash drives on the Blu-ray Disc™ player.

Operating a USB Flash Drive

- 1** Inserting a USB flash drive into the USB port on the back of Blu-ray Disc™ player until it clicks.
- 2** In Home Menu, press ▼ / ▲ to select Media, and then press ►.
If no optical disc is inserted, the system will only show USB flash drive.
- 3** Press ▼ / ▲ to select a desired source, then press ► to highlight an option, and press OK.

For detailed operations, please follow the instructions in "Playing files on a data disc" on page 19 for details.

■ Removing the USB Flash Drive

In stop mode, gently pull the USB flash drive out slowly.

Notes:

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

Using Media Player Function

Operating Media Player function

- 1** Set Media Player to "ON".
For detailed operations, please refer to the "Media Player" section in "System Setting" on page 24.
- 2** In Home Menu, press ▼ / ▲ to select Media, and then press ►.
If Media Player is set to "OFF", Media Player will not function.
- 3** Press ▼ / ▲ to select a desired source, then press ► to highlight an option, and press OK.

Notes:

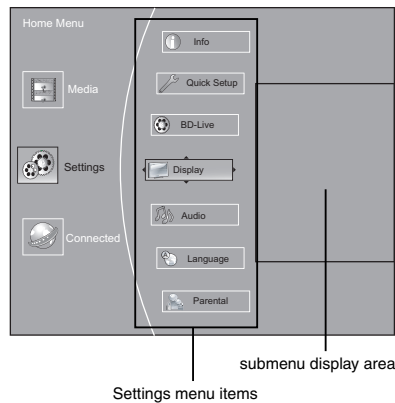
- Make sure your player is properly connected to the network before using Media Player. Furthermore, you need other Media Player servers in the network to see and/or hear contents.
- Do not remove the LAN connector during playback.

Customizing the Function Settings

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

General Operations

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



Info Menu

This menu displays the following information:

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

Performing Quick-Setup

1. In the main menu of **Settings**, press **▶** button, then use **▲ / ▼** button to select **Quick Setup**, and then press **OK** to confirm.
2. Press **OK** to perform Quick Setup.
To exit the setup menu:
 - Use **▼** button to highlight "No thanks. I'll go through the full setup menu later", and then press **OK**.
 - Or press **◀** button directly.

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

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

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

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

EN

Using BD-Live™ Features

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

- the ability to download new movie trailers
- additional 'commentary' by actors and directors
- 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.

Note: BD-Live™ requires connection of a USB flash drive of at least 1 GB (sold separately) to USB port. Performance of interactive features may vary due to disc design or content, and may also require an always-on broadband internet connection. Firmware update may be required for some interactive features. Some features may require additional bandwidth.

1. In the main menu of **Settings**, press **▶** button, then use **▲ / ▼** button to select **BD-Live**, then press **OK**.
2. Press **▲ / ▼** to select an option, and then press **OK**.
3. Use **▲ / ▼** to select the desired setting, and then press **OK** to confirm.
4. Press **◀** to go to the previous menu.

BD-Live Internet Access:

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

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

1. In the main menu of **Settings**, press **▶** button, then use **▲ / ▼** to select **BD-Live**, then press **OK**.
2. Press **▲ / ▼** to select "**BD-Live Internet Access**", and then press **OK**.
3. Use **▲ / ▼** to select the desired setting, and then press **OK** to confirm.



Customizing the Function Settings

4. Make sure that "Limit Access" or "Always Allow Access" is checked.
5. Once the USB flash drive has been inserted, if there is not at least 100Mbyte of free space on the device, you should choose "Erase Blu-ray Storage" from the BD-Live setup menu.
6. Press **◀** to return to the main menu of **Settings**, then use **▲/▼** to highlight **Network**, and then press **OK**. (For details, please refer to "Network Connection Setting" on Page 26.)

Notes:

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

BD-Live Storage:

This option is used to tell the Blu-ray Disc™ player whether or not to use an inserted USB flash drive to store BD-Live™ content (movie trailers, additional scenes, etc.).

In order to add BD-Live™ memory for BD-Live Internet Access, insert a USB flash drive (1GB is recommended) into the USB port on the player.

Erase Blu-ray Storage:

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

Display Setting

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

HDMI Status:

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

HDMI Preferred Format:

This option shows the best HDMI format for the connected TV. If HDMI is not pulled out, a composite image is not output.

* HDMI connection is required. Cables are not included. Analog connection is not supported.

Resolution:

You can define the video output resolution in this option.

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

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.

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 Blu-ray Disc™ player's digital audio outputs (**HDMI** or **Coaxial**).

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

PCM Downsampling:

If you don't have a surround sound receiver connected to the Blu-ray Disc™ player, you should 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 Blu-ray Disc™ player, and you have connected to the surround receiver via the Blu-ray Disc™ player's HDMI output, this setting has no effect on the audio going to the HDMI output of the player. Leave the **PCM downsampling to 48 kHz**, and proceed to the next setup menu item.

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 do not have an audio receiver connected to your Blu-ray Disc™ player or the audio receiver connected to Blu-ray disc player is not a 5.1/7.1 channel receiver.
- **Bitstream HD** — Lets your player send Dolby TrueHD or DTS-HD MA bitstreams over HDMI (if your player is connected to a compatible HDMI audio receiver). If your player is not connected to a compatible HDMI receiver (for example, your player is connected directly to the TV, a compatible audio signal is automatically sent over the HDMI connection. 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 connection. Blu-ray audio is limited to the soundtrack for the main movie (no PIP audio).
- **Bitstream Mixed** — Sends a DTS or Dolby Digital bitstream over the HDMI or Coaxial connection. 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.
- **PCM 7.1** — Sends a PCM audio signal of up to 7.1 channels over the HDMI connection.

Dynamic Range Control:

Dynamic Range Control means that you can allow the Blu-ray Disc™ 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.

NOTE: This setup menu item has no effect unless you have selected "Bitstream Mixed" in the Blu-ray Disc™ 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 Blu-ray Disc™ movie soundtracks except Dolby TrueHD. If you have selected a Dolby TrueHD track on the Blu-ray Disc™ disc, the "auto" selection tells the Blu-ray Disc™ player to only turn on dynamic range control if information embedded in the Dolby TrueHD sound track tells it to do so.

Stereo Downmix:

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

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

Language Setting

1. In the main menu of **Settings**, press **►** button, then use **▲ / ▼** button to select **Language**, and then press **OK**.
2. Press **▲ / ▼** to select **OSD, Menu, Audio** or **Subtitle**, and then press **OK**.
3. Use **▲ / ▼** to select your preferred language, and then press **OK** to confirm your selection.
4. Press **◀** to go to the previous menu.

OSD:

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

Menu:

This option lets you to select the disc menu language.

Notes:

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

EN

Customizing the Function Settings

Audio:

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

Notes:

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

Subtitle:

You can customize your preferred subtitle language in this option.

Notes:

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

Parental Control

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

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

Selecting the parental country

Parental Country is fixed in USA.

Turning parental control on or off

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

Setting the parental control level

1. In the main menu of **Settings**, press **►**, then press **▲ / ▼** to select **Parental**, and then press **OK**.
2. Press **▲ / ▼** to select **Parental Level**, then press **OK**.
3. Press **▲ / ▼** to select the rating level you want to block, then press **OK**. The rating and all higher ratings will be blocked. You can select:
 - **1 [Kid Safe]** — Suitable for all children.
 - **2 [G]** — General audiences.
 - **3 [PG]** — Parental guidance suggested.
 - **4 [PG-13]** — Not suitable for anyone under 13.

- **5 [PG-R]** — Parental guidance recommended.
 - **6 [R]** — Not suitable for anyone under 17 unless supervised by a parent or adult guardian.
 - **7 [NC-17]** — Not suitable for anyone under 17.
 - **8 [Adult]** — All Blu-ray discs and DVDs can be played.
4. Press **◀** to go to the previous menu.

Setting the parental control password

1. In the main menu of **Settings**, press **►**, then press **▲ / ▼** to select **Parental**, and then press **OK**.
2. Press **▲ / ▼** to select **Parental Password**, then press **OK**.
3. Enter a 4-digit number for the parental password, then use **▼** to highlight **Ok**, and then press **OK** to confirm. If you forget your password, reset your player to the factory defaults. For more information, see "**Restore factory defaults**" on page 25.
4. Press **◀** to go to the previous menu.

System Setting

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

Optical Disc Auto Play:

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

Media Player:

Media Player function enables you to create an interoperability network with other devices for resource sharing based on a network.

Screen Saver Duration:

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

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

CEC Support:

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

On: Allow mutual control of devices through HDMI.

Off: Do not allow CEC control.

Notes:

- Not all TVs are compatible with your Blu-ray Disc™ player.

Customizing the Function Settings

- The default setting is **Off**. Select **On** if CEC control is necessary.

Update Via Network:

This option displays the required storage space if the Blu-ray Disc™ 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 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
Deactivate Netflix	Deactivates the connected Netflix application
Deactivate YouTube	Deactivates the connected YouTube application
Deactivate Picasa	Deactivates the connected Picasa application

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Upgrading Your Player’s Firmware

This player needs to stay up to date to make sure that you have the latest features available. This is done with a software update. You may periodically see a screen that prompts you to update your firmware. It is highly recommended that you apply all updates available to enhance and enjoy product features.

Automatic updates over the Internet

- Make sure that your player is successfully connected to the Internet. If new firmware is available, you will see a message prompting you to update your firmware. Follow the directions in the update program to complete the firmware update procedure for the player.
- Use **▶** / **◀** to highlight “OK”, and then press **OK**. The software will begin downloading, and a status bar will appear on the TV screen.
- After the firmware update has completed successfully, a message will appear indicating the player will automatically turn itself off and restart.

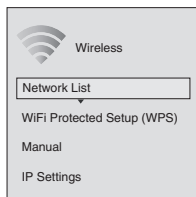
Note: Never turn off the player during a firmware update process. Let the firmware update process finish.

Toshiba of Canada Ltd. will not be responsible for damage or malfunction caused to the player by an unstable internet connection or consumer negligence during firmware updates.

Customizing the Function Settings

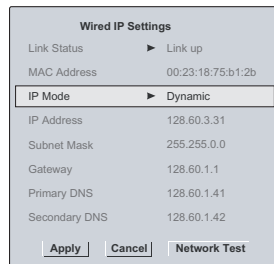
Network Connection Setting

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



For detailed operations, refer to the "Configuring a wireless Internet connection".

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



Refer to the "Configuring a wired Internet connection" for details.

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

Configuring a wired Internet connection

- Press **▼ / ▲** to select **Network** in stop mode, then press **▶** button to enter the following screen:
If the network connection is active, **Link Up** appears next to Link Status. If the network connection is not active, **Link Down** displays next to Link Status.
- Press **▼ / ▲** to select **IP Mode**, then press **OK**.
- Press **▼ / ▲** to select an IP mode. You can select:
 - Manual** — Lets you manually configure network settings, such as IP address, subnet mask, and gateway settings.
 - Dynamic** — Uses DHCP to automatically obtain an IP address.

- Press **▼ / ▲ / ▶ / ◀** to highlight **Network Test**, and press **OK** to test your network connection.
- Press **◀** or **RETURN** to go to the previous menu.

Configuring a wireless Internet connection

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

I. Connection to the wireless Network which you select

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

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

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

III. Connection to the wireless Network using Manual IP Configuration

Description of the Wireless Network List Display

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

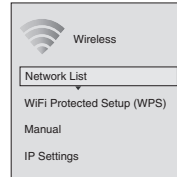


Customizing the Function Settings

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

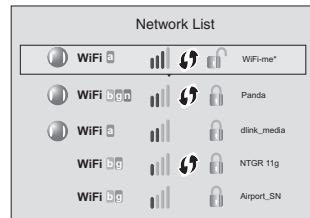
Category	Icon	Definition
Connected		When the Blu-ray Disc™ player is turned on, it will connect to the wireless network displaying this symbol. Typically, this is the last wireless network connected before powering down.
	*	Indicates that the Blu-ray Disc™ player is currently connected to this network.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

I. Connection to the wireless Network which you select



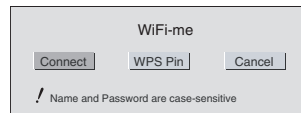
- In the "Wireless" menu, press **▼ / ▲** to select **Network List**, then press **OK**. A list of existing wireless networks near the Blu-ray Disc™ player will appear (It may take several seconds for this list to be created). For example:

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

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

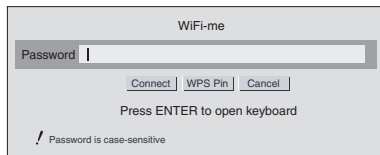


- Press **◀ / ▶** to highlight **Connect**, and press **OK**. If the wireless network is functioning, icon and a message "Connection to XXX...Success" will appear on the TV.
- Press **OK** to close the message. The Blu-ray Disc™ player is now connected to the network. From now on, when you turn on the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

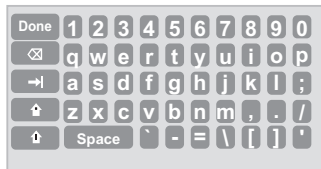
Note: If you do not see this message, the Blu-ray Disc™ player was not able to connect to the network.


Customizing the Function Settings

- b. If the Blu-ray Disc™ player is connected to an **Encrypted Wireless Network**, a menu similar to the following will appear:



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



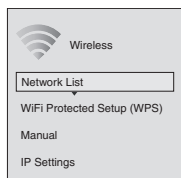
- Use **▼** to highlight **Connect**, and press **OK**. If the wireless network is functioning,  icon and a message "Connection to XXX...Success" will appear on the TV.
- Press **OK** to close the message. The Blu-ray Disc™ player is now connected to the network. From now on, when you turn on the player,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

Notes:

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

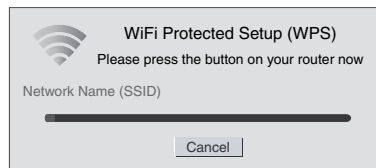
II. Connection to the wireless Network using Wi-Fi protected Setup(WPS)

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



a. If the Blu-ray Disc™ player is connected to a Wireless Network Using WPS Pushbutton:

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

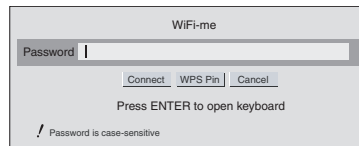


- Press the WPS button on the top of your router.
- Once you see "Success" on the button at the bottom of the screen, the Blu-ray Disc™ player is connected to the router.

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

b. If the Blu-ray Disc™ player is connected to a Wireless Network Using WPS PIN:

- Press **▼/▲** to select **Network List**, then press **OK**. A list of existing wireless networks near the Blu-ray Disc™ player will appear (It may take several seconds for this list to be created).
- Press **▼/▲** to select the desired wireless network, and press **OK** to confirm.
- Press **▶/◀** to highlight **WPS PIN**, and press **OK**. The following screen will appear:



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

III. Connection to the wireless Network using Manual IP Configuration

- In the "Wireless" menu, press **▼/▲** to select **Manual**, then press **OK**.
- Follow the on-screen message to continue operating the connection.

Using the Connected Applications

Watching Movies with Netflix®

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

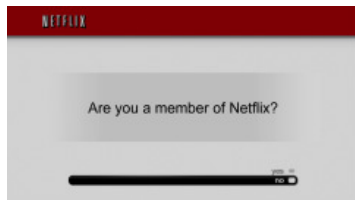
1. Launching Netflix movie

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

2. Creating Netflix account

If you are not a Netflix Member:

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

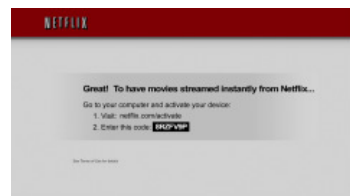


If you are a Netflix Member:

Select "Yes".

3. Activating Netflix player

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



4. Preparing Instant Queue

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

Now you can view Netflix streaming video.

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

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

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

Watching Movies with YouTube®

1. In Home Menu, press ▲ / ▼ to select **Connected**.
2. Press ►, then press ▲ / ▼ to highlight **YouTube**, and then press OK to confirm.
3. Please enjoy any contents.

Browsing Photos with Picasa®

Signing in with your account

To display photos in your web album on the screen, you need to sign in with your Picasa account.

1. In Home Menu, press ▲ / ▼ to select **Connected**.
2. Press ►, then press ▲ / ▼ to highlight **Picasa**, and then press OK to confirm.
3. Enter your user name using the virtual keyboard, and press OK while [OK] is selected.
4. Enter the password using the virtual keyboard, and press OK while [OK] is selected.
Your web album is displayed on the screen.

Creating a new Picasa account on your PC

Go to <http://picasa.google.com/> to create a new account.

Troubleshooting & Maintenance

Troubleshooting

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

Problem	Solution
No power	<ul style="list-style-type: none"> - Check if the AC cord is properly connected. - Unplug the AC cord once, and wait for 5-10 seconds and then plug it in again.
No sound or picture	<ul style="list-style-type: none"> - Check if the connected TV is turned on. - Check if the connections are made securely and correctly. - Check whether the connected TV or other device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.) - Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device.
Distorted picture	<ul style="list-style-type: none"> - Sometimes a small amount of picture distortion may appear. This is not a malfunction. - Connect this unit directly to the TV.
Completely distorted picture or black / white picture with Blu-ray Disc™ / DVD	<ul style="list-style-type: none"> - Make sure the disc is compatible with this unit.
No sound or distorted sound	<ul style="list-style-type: none"> - Adjust the volume. - Check if speakers are connected correctly. - Check the HDMI connections. - Check the settings in "Audio" menu.
Picture freezes momentarily during playback	<ul style="list-style-type: none"> - Check the disc for fingerprints / scratches and clean with a soft cloth wiping from center to edge. - Clean the disc.
Disc cannot be played back	<ul style="list-style-type: none"> - Clean the disc. - Ensure the disc label is facing up. - Check if the disc is defective by trying another disc. - Cancel the ratings control or change the control level. - Insert a correct disc that can be played back on this unit.
No return to start-up screen when disc is removed	<ul style="list-style-type: none"> - Reset this unit by turning it off, then on again.
The unit does not respond to the remote control	<ul style="list-style-type: none"> - Aim the remote control directly at infrared sensor window on the front panel. - Reduce the distance to infrared sensor window. - Replace the batteries in the remote control. - Re-insert the batteries with their polarities (+ / - signs) as indicated.
Buttons do not work or the unit stops responding	<ul style="list-style-type: none"> - To completely reset the unit, unplug the AC cord from the AC outlet for 5-10 seconds.
The unit does not respond to some operating commands during playback	<ul style="list-style-type: none"> - Operations may not be permitted by the disc. Refer to the instructions of the disc.

Troubleshooting & Maintenance

Problem	Solution
The unit cannot read Blu-ray Disc™ / DVD / CD	<ul style="list-style-type: none"> - Dew condensation may form inside the unit. Do not use this unit for at least a few hours until its inside gets dry. - Wipe the dirt off the disc or replace the disc.
Angle does not switch	<ul style="list-style-type: none"> - The angle cannot be switched for Blu-ray Disc™ / DVD which do not contain multiple angles. - In some cases multiple angles are only recorded for specific scenes.
Playback does not start when the title is selected	<ul style="list-style-type: none"> - Check the settings in "Parental" menu.
The password for rating level has been forgotten	<ul style="list-style-type: none"> - 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 25.
Cannot connect to the network	<ul style="list-style-type: none"> - Check if the LAN cable connection is properly made. - Turn on the modem or broadband router. - Check if the broadband router and/or modem is correctly connected. - Check the "Network Connection Setting".
Cannot connect to the network while my PC is connected to the network	<ul style="list-style-type: none"> - Check the content of your Internet service contract to see if your Internet service provider prevents multiple terminals connecting at the same time.
Cannot use the BD-Live™ function	<ul style="list-style-type: none"> - Use a USB flash drive with enough space.

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Notes:

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

Maintenance

Servicing

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

Cleaning the cabinet

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

Cleaning discs

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

Cleaning the disc lens

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

Disc handling

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

IR signal check

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

Glossary

Analog Audio

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

Aspect Ratio

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

AVCHD

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

BD-Java

With some Blu-ray Disc™ 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 BD-video or DVD-video is usually divided into chapters.

Component Video Output

Each signal of luminance (Y) and component (P_B/C_B , P_R/C_R) is independent to output so that you can experience picture Color as it is. Also, due to compatibility with progressive video (525p/480p), you can experience higher-density picture than that in interlace (525i/480i).

Digital Audio

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

DNS Server

A server which translates Internet domain names into IP addresses.

Dolby® Digital

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

Dolby® Digital Plus

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

Dolby® TrueHD

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

DTS®

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

DTS-HD®

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

Gateway

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

HDMI (High-Definition Multimedia Interface)

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

Hub

A device used for connecting multiple device to the network.

IP Address

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

JPEG (Joint Photographic Experts Group)

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

Glossary

PCM (Pulse Code Modulation)

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

Proxy Server

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

Region Code

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

Router

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

Sampling Frequency

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

Subnet Mask

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

Title

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

Track

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

Virtual Package

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

Windows Media™ Audio

Windows Media™ Audio is the audio compressing technology developed by Microsoft. You can copy Windows Media™ Audio files on BD-RE/-R, DVD-RW/-R or CD-RW/-R 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 xvCC specifications and is a trademark of Sony Corporation.

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Specifications

General	
Signal system	NTSC color
Power requirements	120 V AC, 60 Hz
Power consumption	15 W
Dimensions (width x height x depth)	360 x 36 x 192.7 mm
Weight	1.02 kg
Operating temperature	41°F (5°C) to 95°F (35°C)
Operating humidity	Less than 80 % (no condensation)

Terminals		
Rear	HDMI output HDMI jack x 1	Video: 480i, 480p, 720p, 1080i, 1080p, 1080p/24F / Audio
	Audio output (Coaxial digital) RCA jack x 1	0.5 Vp-p (75 Ω)
	USB terminal x 1	5V --- 500mA
	LAN terminal	100BASE-T

Note:

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

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 - a. Service, repairs or replacement made necessary by accident, misuse, abuse, moisture, liquids, dust, dirt, neglect, accident, damage, 24/7 applications,

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- d. Service on Toshiba-branded accessory items (such accessory items may be covered by their own warranty);
- e. Service on third party products or service made necessary by use of incompatible third party products;
- f. Service made necessary by the simultaneous use of this DAV Product and connected equipment;
- g. Modifications to the DAV Product not approved in writing by TCL, and service made necessary by the use or installation of non-Toshiba modifications to the DAV Product;
- h. Service of a DAV Product on which the TOSHIBA label or logo, rating label or serial number have been defaced or removed;
- i. On-site service and repair of the DAV Product;
- j. Damage to the DAV Product caused by failure to follow the specifications, User manuals or guides as to usage and/or storage.

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How to Obtain Warranty Services

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For additional information, visit TCL's website:
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1080p capable display is required for viewing in 1080p. Viewing HD content and up-converting DVD content may require an HDCP capable input on your display device. While up-converting DVD video content may result in a picture that appears to be near HD quality, results may vary depending on content, display and settings. Feature performance may vary and may also require an always-on broadband internet connection. Firmware update and additional bandwidth may be required. BD-Live™ requires connection of a USB flash drive of at least 1 GB (sold separately) to USB port. Performance of interactive features may vary due to disc design or content, and may also require an always-on broadband internet connection. Firmware update may be required for some interactive features. Some features may require additional bandwidth. Third party internet services are not provided by Toshiba, may change or be discontinued at any time and may be subject to third party restrictions. Toshiba makes no representations or warranties about these services, which may require the creation of a user account through a computer with internet access. Third party internet service users may incur one-time and/or recurring charges. For Dolby® TrueHD and DTS-HD Master Audio | Essential™ playback, content encoded in Dolby® TrueHD and DTS-HD Master Audio | Essential™ format required. Viewing 1080p/24 fps output requires 1080p/24 fps encoded content and an HD display capable of accepting a 1080p/24Hz signal. Supported file types: JPEG, MP3, WMA, and AVCHD. Some recordable media, cards or files may not be supported. Product specifications, information and availability are all subject to change without notice.

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Phone number: 1-800-631-3811

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Open-Source Software Included in the Blu-ray Disc™ Player:

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A copy of the GPL2.0 license is provided in Appendix K
A copy of the LGPL2.1 license is provided in Appendix L

*backtrace	GPL2
*directfb-extra	GPL2
*cairo	LGPL2
*directfb	GPL2
*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. Recommended advertisement is: Portions of this software are copyright © <year> The FreeType Project (www.freetype.org). All rights reserved.
jpeg	The terms and conditions which apply to this software are provided in Appendix B.
expat	The terms and conditions which apply to this software are provided in Appendix I.
mng	The terms and conditions which apply to this software are provided in Appendix C.
png	The terms and conditions which apply to this software are provided in Appendix D.
xml	The terms and conditions which apply to this software are provided in Appendix E.
zlib	The terms and conditions which apply to this software are provided in Appendix F.
Elektra	BSD-new
Ping6	BSD-new
Ping	BSD-new
Tftp	BSD-new
Tracepath6	BSD-new
Tracepath	BSD-new
Traceroot6	BSD-new
Unzip	BSD-new
Vedit	BSD-new
Vi	BSD-new
View	BSD-new
Ltdl	LPGL
fontconfig	
pixman	
qLite	
malloc-extras	
xslt	
init	
nandtest	

Open-Source Software Included in the Kernel/Rootfs:

(* = source must be distributed on request)

A copy of the GPL license is provided in Appendix K
A copy of the LGPL license is provided in Appendix L

Utility	Base Version	License
*kernel		GPL 2.0
*arp	net-tools-1.52	GPL 2.0
*bash	GNU Bash-3.2	GPL 2.0
*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
*hostname sysutils	sysutils	GPL 2.0
*ifconfig	net-tools-1.52	GPL 2.0
*kill	sysutils	GPL 2.0
*mkcramfs	cramfs	GPL 2.0
*ntfs-3g	ntfs-3g 2009.4.4	GPL 2.0
*passwd	TinyLogin-0.80	GPL 2.0
*ps	sysutils	GPL 2.0
*route	net-tools-1.52	GPL 2.0
*sfdisk	sfdisk-3.07	GPL 2.0
*shutdown	sysutils	GPL 2.0
*tinylogin	TinyLogin-0.80	GPL 2.0
*hotplug	hotplug-1.8	GPL 2.0
*utelnetsd	utelnetsd-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
The terms and conditions which apply to this software are provided in Appendix F.		
libusb.so	libusb-0.1.12	LGPL 2.1
uClibc	uClibc-nptl-0.9.29-20070423	LGPL 2.1
tcpdump	tcpdump-4.0.0	BSD-new
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strace	strace 4.5.18	BSD-new
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hdparm	hdparm-6.9	BSD-new
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libpcap	libcap-1.0.0	BSD-new
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portmap	portmap	BSD-old
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openssl	openssl 0.9.8k	BSD-old. See advertisement notice above.

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scsi_wait_scan.ko	GPL
Badblocks	GPL2.0
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e2fsck	GPL2.0
flash_erase	GPL2.0
flash_eraseall	GPL2.0
flash_info	GPL2.0
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hdparm	GPL2.0
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libgcc_s	GPL2.0
libnandutils	GPL2.0
libproc	GPL2.0
nanddump	GPL2.0
nandwrite	GPL2.0
netstat	GPL2.0
ntpdate	GPL2.0
top	GPL2.0
tune2fs	GPL2.0
ubiattach	GPL2.0
ubicrc32	GPL2.0
ubidetach	GPL2.0
ubiformat	GPL2.0
ubimkvol	GPL2.0
ubinfo	GPL2.0
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mklost+found	GPL2.0
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awk	GPL2.0
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chown	GPL2.0
chroot	GPL2.0
cmp	GPL2.0
cp	GPL2.0
cut	GPL2.0
date	GPL2.0
dd	GPL2.0
df	GPL2.0
diff3	GPL2.0
diff	GPL2.0
dirname	GPL2.0
dmesg	GPL2.0
du	GPL2.0
echo	GPL2.0
egrep	GPL2.0
env	GPL2.0
expr	GPL2.0
false	GPL2.0
fgrep	GPL2.0
find	GPL2.0
free	GPL2.0
gawk	GPL2.0
grep	GPL2.0
gunzip	GPL2.0
gzexe	GPL2.0
gzip	GPL2.0
head	GPL2.0
hexdump	GPL2.0
hostname	GPL2.0
id	GPL2.0
install	GPL2.0
kill	GPL2.0
klogd	GPL2.0
ln	GPL2.0
logger	GPL2.0
login	GPL2.0
ls	GPL2.0
lsmod	GPL2.0
lzo	GPL2.0
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mkdir	GPL2.0
mknod	GPL2.0
mkswap	GPL2.0
modprobe	GPL2.0
more	GPL2.0
mount	GPL2.0
mv	GPL2.0
ncurses	GPL2.0

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od	GPL2.0
pivot_root	GPL2.0
printenv	GPL2.0
printf	GPL2.0
pwd	GPL2.0
readlink	GPL2.0
reboot	GPL2.0
renice	GPL2.0
rmdir	GPL2.0
rm	GPL2.0
rmmod	GPL2.0
samba	GPL2.0
sdiff	GPL2.0
sed	GPL2.0
seq	GPL2.0
simpleinit	GPL2.0
sleep	GPL2.0
sort	GPL2.0
stty	GPL2.0
swapoff	GPL2.0
swapon	GPL2.0
sync	GPL2.0
syslogd	GPL2.0
tail	GPL2.0
tar	GPL2.0
tee	GPL2.0
touch	GPL2.0
tr	GPL2.0
true	GPL2.0
tty	GPL2.0
umount	GPL2.0
unnamed	GPL2.0
uniq	GPL2.0
unzip	GPL2.0
wc	GPL2.0
which	GPL2.0
whoami	GPL2.0
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yes	GPL2.0
zcat	GPL2.0
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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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--- end of FTL.TXT ---

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Version 2.1, February 1999

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If distribution of object code is made by offering access

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Appendix N – CinemaNow

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d. C-ARES 1.6.0

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e. Openssl 0.9.5a

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