

BD-HP210U

BLU-RAY DISC PLAYER REPRODUCTOR DE DISCO BLU-RAY

OPERATION MANUAL MANUAL DE MANEJO





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ENGLISH

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OPERATION MANUAL

For future reference, record the model and serial number (located on the rear of the product) in the space provided.

Model No.: BD-HP210U

Serial No.:

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION:

SERVICE PERSONNEL.



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO

PARTS INSIDE, REFER SERVICING TO QUALIFIED

NOT REMOVE COVER. NO USER-SERVICEABLE



This symbol warns the user of uninsulated voltage within the unit that can cause dangerous electric shocks.

This symbol alerts the user that there are important operating and maintenance instructions in the literature accompanying this unit.

"WARNING—FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment."

INFORMATION

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.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AS THE LASER BEAM USED IN THIS UNIT IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

- This Player is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- This product contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

ASER PRODUC

CLASS 1

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ENGLISH

ENGLISH

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* The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.

What would you like to do with this Player?

Watching high quality movies on Bluray discs

This Player offers full high-definition Blu-ray disc playback.

BD/DVD/CD Playback (p. 23)

Enjoying different kinds of discs and contents

Use this Player to enjoy various types of optical discs such as DVDs and CDs that contain various multimedia content.

About Discs (pp. 6–7) BD/DVD/CD Playback (p. 23)

Simple connection and operation through HDMI

This Player is equipped with an HDMI terminal. You can connect it to the TV using HDMI and no other cable will be needed to enjoy movies. If your TV is compatible with AQUOS LINK, you can control both the TV and this Player with simple operations.

Introduction to Connections (p. 13) Video Connections (p. 14)

Enjoying BD-LIVE functions through the internet

This Player is compatible with BD-LIVE. You can enjoy bonus content such as movie trailers through the internet when playing back BD-Video discs compatible with BD-LIVE.

Enjoying BONUSVIEW or BD-LIVE (p. 25)

What to do first:

Refer to "Getting Started" (p. 10) to prepare for watching your discs.

Introduction (pp. 1–12)

Explains the important operation information.

Connection (pp. 13-18)

Shows the connecting options provided by this Player.

Disc Playback (pp. 19–34) Shows simple playback and useful functions.

Settings (pp. 35–44) Gives you more options to suit your circumstances.

Appendix (pp. 45-51)

Provides troubleshooting tips and more information.

DEAR SHARP CUSTOMER

Thank you for your purchase of the SHARP Blu-ray Disc Player. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Instructions carefully before using this product.

IMPORTANT SAFETY INSTRUCTIONS

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your Blu-ray Disc Player, please read the following precautions carefully before using the product.

- 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 dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 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 power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Additional Safety Information

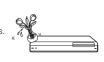
- 15) Power Sources—This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 16) Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 17) Object and Liquid Entry—Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 18) Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the AC cord or plug is damaged,
 - b) If liquid has been spilled, or objects have fallen into the product,
 - c) If the product has been exposed to rain or water,
 - d) If the product does not operate normally by following the operating instructions.
 - Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
 - e) If the product has been dropped or damaged in any way, and
 - f) When the product exhibits a distinct change in performance this indicates a need for service.
- 19) Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20) Safety Check—Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 21) Wall or ceiling mounting When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.
- 22) The main AC plug is used as disconnect device and shall always remain readily operable.





IMPORTANT SAFETY INSTRUCTIONS

- Water and Moisture—Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- Stand Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base
 can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart,
 stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product
 on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the
 manufacturer.
- Selecting the location-Select a place with no direct sunlight and good ventilation.
- Ventilation The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents
 and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place
 the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not
 designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless
 proper ventilation is provided or the manufacturer's instructions are followed.
- Heat—The product should be situated away from heat sources such as radiators, heat registers, stoves, or other
 products (including amplifiers) that produce heat.
- Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and powerline surges.
- To prevent fire, never place any type of candle or flames on the top or near the product.
- To prevent fire or shock hazard, do not expose this product to dripping or splashing.
- No objects filled with liquids, such as vases, should be placed on the product.
- To prevent fire or shock hazard, do not place the AC cord under the product or other heavy items
- Turn off the main power and unplug the AC cord from the wall outlet before handling.
- To clean the outer cabinet, periodically wipe it with a soft cloth.
- Do not use chemicals for cleaning. It may damage the cabinet finish.



Blu-ray Disc

Blu-ray Disc is the ultimate next generation optical media format, offering the following key features:

- Largest capacity (25 GB single layer 50 GB dual layer) – with over 5 times the amount of content possible with current DVDs, particularly well suited for high definition feature films with extended levels of interactive features
- Pristine picture quality with the capability for full high definition 1920 x 1080p resolution
- Best audio possible with uncompressed surround sound (higher quality than even theater audio)
- Broadest industry support ensuring more choice for consumers in the marketplace
- Hardware products will be backward compatible with DVDs, allowing continued enjoyment of existing DVD libraries.
- Disc Durability new breakthroughs in hard coating technologies gives Blu-ray Discs the strongest resistance to scratches and finger prints.

Types of Discs that Can Be Used with This Player

- The following discs can be played back in this Player. Do not use an 8 cm (3") to 12 cm (5") adapter.
- Use discs that conform to compatible standards as indicated by the presence of official logos on the disc label. Playback of discs not complying with these standards is not guaranteed. In addition, the image quality or sound quality is not guaranteed even if the discs can be played back.

Disc	Туре	Recording Format	Contents	Disc Size
BD Video	Region code A/ALL	_	Audio + Video (Movie)	12 cm (5")
BD-RE DL BD-R DL		BDMV/ BDAV format		
DVD Video	Region code 1/ALL	Video format	Audio + Video (Movie)	12 cm (5") 8 cm (3")
DVD+RW/DV DVD-R DL DVD-RW/DV		Video/VR format (finalized disc only)	Audio + Video (Movie)	12 cm (5") 8 cm (3")
Audio CD*1		Audio CD (CD-DA)	Audio	
CD-RW/CD-	R	Audio CD (CD-DA)	Audio	12 cm (5") 8 cm (3")
		JPEG*2	Still image (JPEG file)	

*1 This Player has been designed on the premise of playing back Audio CDs that comply with CD (Compact Disc) standards. CDs containing a signal for the purpose of protecting copyrights (copy control signal) may not be able to be played back with this Player.

- BD/DVD video players and discs have region codes, which dictate the regions in which a disc can be played. This Player's region code is A for BD and 1 for DVD. (Discs marked ALL will play in any player.)
- BD/DVD video operations and functions may be different from the explanations in this manual and some operations may be prohibited due to disc manufacturer's settings.
- If a menu screen or operating instructions are displayed during playback of a disc, follow the operating procedure displayed.
- The audio component of a DVD video recorded at 96 kHz (Linear PCM) will be output as 48 kHz audio during playback.

NOTE

- Playback for some of the discs in the left side column tables may not be possible depending on the disc.
- "Finalize" refers to a recorder processing a recorded disc so that it will play in other DVD players/recorders as well as this player. Only finalized DVD discs will play back in this player. (This player does not have a function to finalize discs.)

Discs that Cannot Be Used with This Player

The following discs cannot be played back or will not play back properly on this Player. If such a disc is mistakenly played back, speaker damage may occur. Never attempt to play back these discs.

CDG, Video CD, Photo CD, CD-ROM, CD-TEXT, SVCD, SACD, PD, CDV, CVD, DVD-RAM, DVD-Audio, BD-RE with the cartridge, CD-MP3, CD-WMA

Discs with unusual shapes cannot be played.

 Discs with unusual shapes (heart-shaped or hexagonal discs, etc.) cannot be used. The use of such discs will cause malfunction.

The following BD video discs cannot be played.

- Discs not displaying "A" or "ALL" for the region code (discs sold outside the authorized marketing area).*
- Discs produced illegally.
- Discs recorded for commercial use.
- * The region code for this product is A.

The following DVD video discs cannot be played.

- Discs not displaying "1" or "ALL" for the region code (discs sold outside the authorized marketing area).*
- · Discs produced illegally.
- Discs recorded for commercial use.
- * The region code for this product is 1.

The following BD-RE/R, DVD-RW/R and DVD+RW/R discs cannot be played.

• Discs on which data has not been recorded cannot be played back.

The following Audio CD discs cannot be played.

- Discs containing a signal for the purpose of protecting copyrights (copy control signal) may not be played back with this Player.
- This Player has been designed on the premise of playing back Audio CDs that comply with CD (Compact Disc) standards.

About Discs

The following CD-RW/R discs cannot be played.

- Discs on which data has not been recorded cannot be played back.
- Discs recorded in a format other than an Audio CD and JPEG file format*² cannot be played back.
- Discs may not be played back depending on their recording status or the status of the disc itself.
- Discs may not be played back depending on their compatibility with this Player.

*2 About the JPEG file format

JPEG is a type of file format for storing still-image files (photos, illustrations, etc.). The Player lets you play JPEG format still-image files.

File formats that are not compatible.

- Still images in formats other than JPEG (such as TIFF) cannot be played.
- There may be some files that cannot be played even if they are in JPEG format.
- · Progressive JPEG files cannot be played.
- Moving image files and audio files as well as Motion JPEG format files cannot be played, even though they are JPEG files.

Other files that cannot be played back.

 You may not be able to play some still images which you have created, touched up, copied or otherwise edited on your computer.

You may experience one or more of the following symptoms when playing files.

- It may take some time to play files depending on the number of folders, number of files and volume of data involved.
- EXIF information will not be displayed. EXIF stands for Exchangeable Image File Format, and is a standard for storing interchange information in image files, especially those using JPEG compression. (Refer to http://exif.org for more information.)

When using the unit to play a CD-RW/R disc with still images stored (recorded).

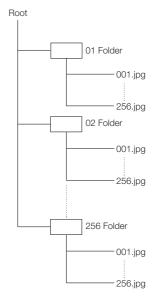
- With CD-RW/R discs on which still images are mixed in with music or movies, you will be able to play only the still images. You may not be able to play some of these discs at all.
- Multi-session discs cannot be played.
- You may not be able to play some still images you have processed (rotated or saved by overwriting other images) using image processing software or some still images you have imported from the Internet or e-mail.
- The discs which this Player can play back (recognize) are limited to the following properties:

Contains EXIF format files Picture resolution: Between 32 × 32 and 7680 × 4320 pixels Maximum number of folders: 256 Maximum number of files in each folder: 256

File size: 20MB or less

Structure of still images (JPEG) folders

You can play still images (JPEG) with this unit by making folder on disc as shown below.



About Disc Contents

BD Video

Enjoy BD-specific functions including BONUSVIEW (BD-ROM Profile 1 Version 1.1), such as picture-in-picture, and BD-LIVE (page 25).

For the BD video discs compatible with BONUSVIEW/BD-LIVE, you can enjoy additional contents by copying the data from the discs or downloading it via the internet. For instance, this function is capable of playing the original movie as the primary video while playing video commentary from the film director on a small screen as a secondary video.

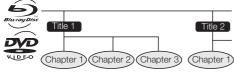
NOTE

• The available functions differ depending on the disc.

Title, Chapter and Track

- Blu-ray discs and DVDs are divided into "Titles" and "Chapters". If the disc has more than one movie on it, each movie would be a separate "Title". "Chapters", on the other hand, are subdivisions of titles. (See Example 1.)
- Audio CDs are divided into "Tracks". You can think of a "Track" as one tune on an Audio CD. (See Example 2.)

Example 1: Blu-ray disc or DVD

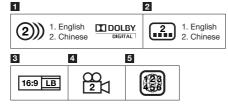


Example 2: Audio CD



Icons Used on DVD Video Disc Cases

The back of the case of a DVD that is commercially available usually contains various information about the contents of the disc.



1 Audio tracks and audio formats

DVD discs can contain up to 8 separate tracks with a different language on each. The first in the list is the original track.

This section also details the audio format of each soundtrack - Dolby Digital, DTS, MPEG etc.

Dolby Digital

A sound system developed by Dolby Laboratories Inc. that gives movie theater ambience to audio output when the Player is connected to a Dolby Digital processor or amplifier.

DTS

DTS is a digital sound system developed by DTS, Inc. for use in cinemas.

Linear PCM

Linear PCM is a signal recording format used for Audio CDs and on some DVD and Blu-ray discs. The sound on Audio CDs is recorded at 44.1 kHz with 16 bits. (Sound is recorded between 48 kHz with 16 bits and 96 kHz with 24 bits on DVD video discs and between 48 kHz with 16 bits and 192 kHz with 24 bits on BD video discs.)

2 Subtitle languages

This indicates the kind of subtitles.

3 Screen aspect ratio

Movies are shot in a variety of screen modes.

4 Camera angle

Recorded onto some BD/DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left side, from the right side, etc.).

5 Region code

This indicates the region code (playable region code).

The Icons Used in This Operation Manual

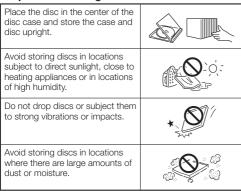
BD VIDEO	Indicates the functions that can be performed for BD Video discs.
BD-RE	Indicates the functions that can be performed for BD-RE discs.
BD-R	Indicates the functions that can be performed for BD-R discs.
DVD VIDEO	Indicates the functions that can be performed for DVD Video discs.
DVD-RW	Indicates the functions that can be performed for DVD-RW discs.
DVD-R	Indicates the functions that can be performed for DVD-R discs.
AUDIO CD	Indicates the functions that can be performed for Audio CDs.
CD-R	Indicates the functions that can be performed for CD-R discs in JPEG format.
CD-RW JPEG	Indicates the functions that can be performed for CD-RW discs in JPEG format.

Disc Precautions

Be Careful of Scratches and Dust

 BD, DVD and CD discs are sensitive to dust, fingerprints and especially scratches. A scratched disc may not be able to be played back. Handle discs with care and store them in a safe place.

Proper Disc Storage



Handling Precautions

 If the surface is soiled, wipe gently with a soft, damp (water only) cloth. When wiping discs, always move the cloth from the center hole toward the outer edge.



- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not touch the surface.
- Do not stick paper or adhesive labels to the disc.
- If the playing surface of a disc is soiled or scratched, the Player may decide that the disc is incompatible and eject the disc tray, or it may fail to play the disc correctly. Wipe any dirt off the playing surface with a soft cloth.

Cleaning the Pick Up Lens

- Never use commercially available cleaning discs. The use of these discs can damage the lens.
- Request the nearest service center approved by SHARP to clean the lens.

Warnings about dew formation

- Condensation may form on pick up lens or disc in the following conditions:
 - Immediately after a heater has been turned on.
 - In a steamy or very humid room.
 - When the Player is suddenly moved from a cold environment to a warm one.

When condensation forms:

 It becomes difficult for the Player to read the signals on the disc and prevents the Player from operating properly.

To remove condensation:

• Take out the disc and leave the Player with the power off until the condensation disappears. Using the Player when there is condensation may cause malfunction.

Copyright

- Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Refer to relevant laws in your country.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patent Nos. 6,836,549; 6,381,747; 7,050,698; 6,516,132; and 5,583,936

- Manufactured under license from Dolby Laboratories.
 "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio | Essential are trademarks of DTS, Inc. ©1996-2008 DTS, Inc. All Rights Reserved.
- Sis a trademark.
- "BD-LIVE" logo is a trademark of Blu-ray Disc Association.
- Experience is a trademark of DVD Format/Logo Licensing Corporation.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- "x.v.Color" and "x.v.Color" logo are trademarks.
- Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and/or other countries.

ENERGY STAR® Program Information



Products that have earned the ENERGY STAR[®] are designed to protect the environment through superior energy efficiency.

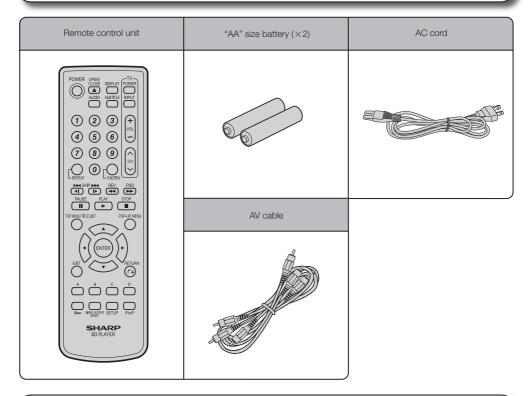
To comply with the ENERGY STAR[®] standards mentioned above, please set the Quick Start function to "No" as described on page 37.

ENERGY STAR® is a U.S. registered mark.

Getting Started

Step 1: Unpacking

Make sure the following accessories are provided with the product.



Step 2: Selecting equipment to connect

Connection varies with the equipment used. Refer to Connection. (Pages 13–18) Turn off the devices before connecting.

Step 3: Playing back discs

Play back a Blu-ray disc after connecting the Player to your favorite equipment. Refer to Disc Playback. (Pages 19–34)

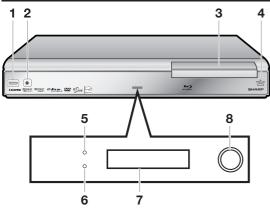
Step 4: Adjust settings

(EN) - 10

Adjust settings to enjoy various features and other functions for playing discs. Refer to Settings. (Pages 35–44)

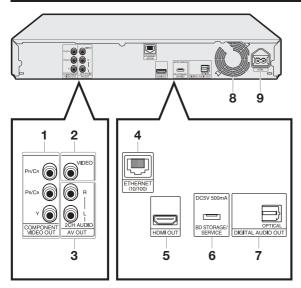
Major Components

Main Unit (Front)



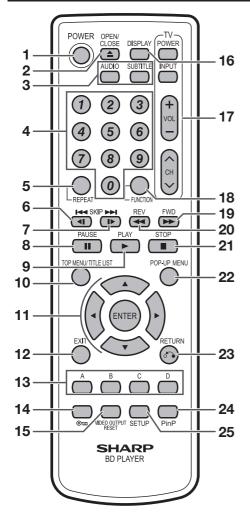
- 1 POWER (p. 20)
- 2 Remote control sensor (p. 19)
- 3 Disc tray (p. 23)
- 4 OPEN/CLOSE (p. 23)
- 5 ON indicator (p. 20)
- 6 STANDBY indicator (p. 20)
- 7 Front panel display (p. 20)
- 8 BD/DVD/CD mode indicator (p. 20)

Main Unit (Rear)



- 1 COMPONENT VIDEO OUT jacks (p. 15)
- 2 VIDEO output jack (p. 16)
- 3 2CH AUDIO output jacks (p. 17)
- 4 ETHERNET terminal (p. 18)
- 5 HDMI OUT terminal (p. 14)
- 6 BD STORAGE/SERVICE terminal BD STORAGE (pp. 25, 42) SERVICE for software (p. 43)
- 7 DIGITAL AUDIO OUT OPTICAL terminal (p. 17)
- 8 Cooling fan The cooling fan operates while the power to the Player is on.
- 9 AC IN terminal (p. 19)

Remote Control Unit



- 1 POWER (p. 20)
- 2 ▲ OPEN/CLOSE (p. 23)
- 3 AUDIO (p. 30), SUBTITLE (p. 30)
- 4 Number buttons (p. 34)
- 5 REPEAT (pp. 29, 30)
- 6 KIP/ (pp. 26, 29)
- 7 ► SKIP/I► (pp. 26, 29)
- 8 PAUSE (p. 29)
- 9 ► PLAY (p. 23)
- 10 TOP MENU/TITLE LIST (pp. 24, 26)
- 11 Cursor buttons (▲/▼/◀/►), ENTER (pp. 21, 35)
- 12 EXIT (pp. 20, 35)
- 13 A (Red), B (Green), C (Blue), D (Yellow) (pp. 26-28, 32, 41)
- 14 cm (Lock) (See below.)
- 15 VIDEO OUTPUT RESET (p. 36)
- 16 DISPLAY (pp. 23, 30)
- 17 TV control buttons (p. 21)
- 18 FUNCTION (pp. 31, 33)
- 19 FWD (p. 29)
- 20 🗲 REV (p. 29)
- 21 STOP (p. 23)
- 22 POP-UP MENU (p. 24)
- 23 💦 RETURN (p. 29)
- 24 PinP (p. 25)
- 25 SETUP (pp. 21, 35)

Keylock function

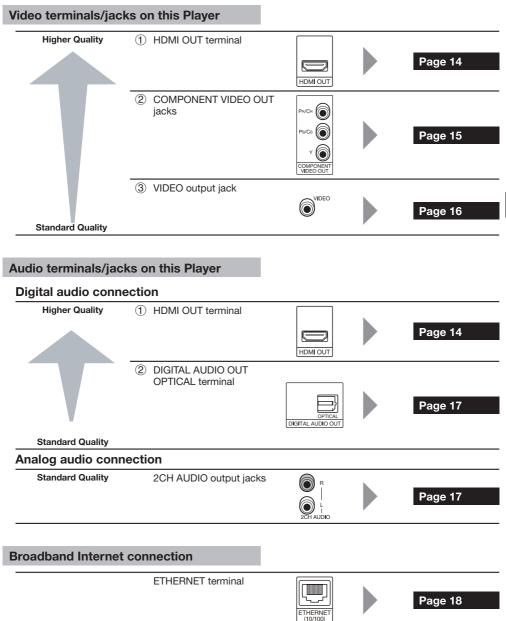
You can set the keylock to prevent accidental operations. This function allows TVs compatible with AQUOS LINK to also perform a Key Lock on the player.

- Press and hold em (Lock) for more than 5 seconds.
- Each time you perform this operation, the function is activated or deactivated.
- If you try to operate the Player while the keylock function is set, "Hold" blinks on the front display panel to indicate that the keylock function is set.

Ho Id

Connection Introduction to Connections

This Player is equipped with the terminals/jacks listed below. Find the corresponding terminal/jack on your video equipment. Using the supplied cable or commercially available cables, connect the video first. Then connect the audio.



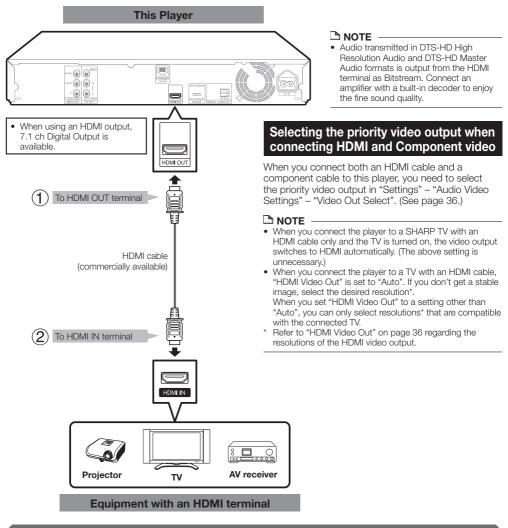
Connection

Connecting to the HDMI Terminal

- You can enjoy high quality digital picture and sound through the HDMI terminal.
- See page 44 for information on the output of next generation audio formats.
- When you use AQUOS LINK, make sure to use a certified HDMI cable.

STEPS

- 1 Be sure to turn off this Player and the equipment before making any connections.
- 2 Firmly connect an HDMI cable (commercially available) to the HDMI terminals ((1) and (2)).



After connecting

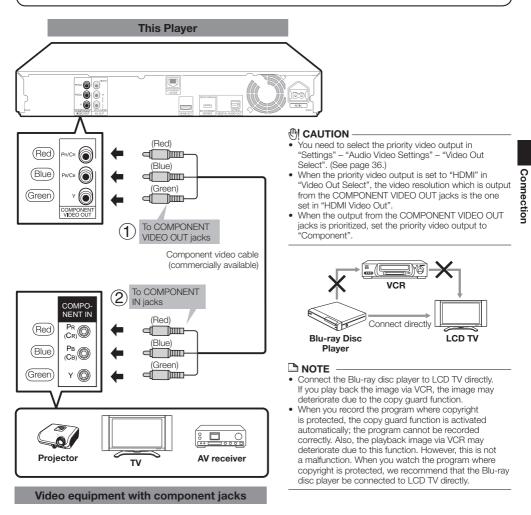
- Secure the HDMI cable to the HDMI cable holder, passing it through the holder. (Page 11)
- If desired, connect audio equipment. (Page 17)
- Load a disc and start playback. (Pages 23–28)
- Refer to AQUOS LINK function. (Pages 22 and 37)

Connecting to the Component Jacks

You can enjoy accurate color reproduction and high quality images through the component jacks.

STEPS

- 1 Be sure to turn off this Player and the equipment before making any connections.
- 2 Firmly connect a component video cable (commercially available) to the component jacks ((1 and 2)).



After connecting

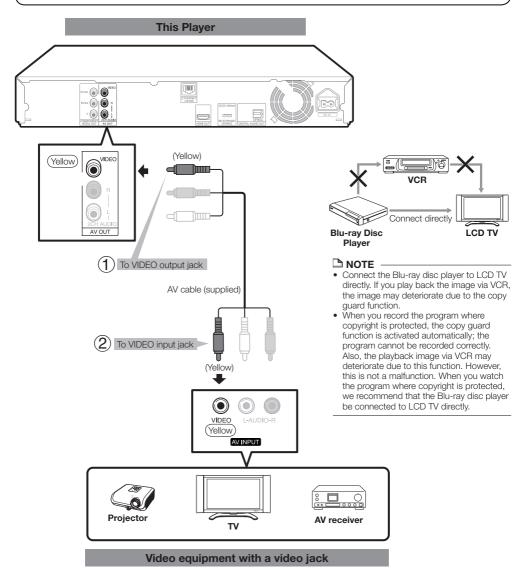
Connect audio equipment or the audio terminals of the TV. (Page 17)

Connecting to the Video Jack

You can enjoy the images through the video jack.

STEPS

- 1 Be sure to turn off this Player and the equipment before making any connections.
- 2 Firmly connect an AV cable (supplied) to the video jacks (1) and 2).



After connecting

· Connect audio equipment or the audio terminals of the TV. (Page 17)

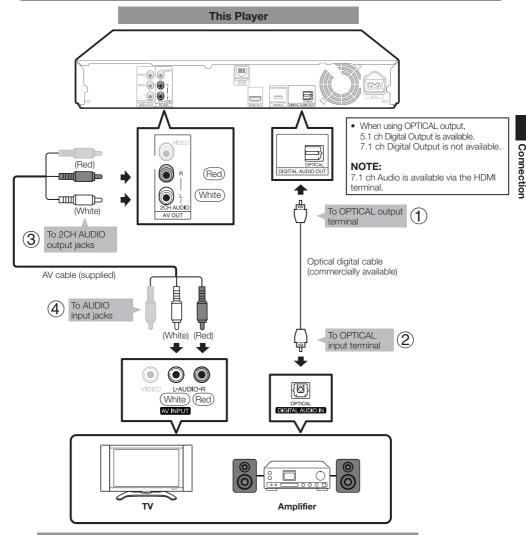
Audio Connections

Connecting to the Digital Audio Terminal or Audio Jacks

- You can connect audio equipment or the TV to the DIGITAL AUDIO OUT terminal or 2CH AUDIO output jacks.
- See page 44 for information on the output of next generation audio formats.

STEPS

- 1 Be sure to turn off this Player and the equipment before making any connections.
- 2 Firmly connect an optical digital cable (commercially available) or AV cable (supplied) to the optical digital audio terminals or audio jacks (① and ②, or ③ and ④).



Audio equipment with a digital audio input terminal or audio jacks

After connecting

• Load a disc and start playback. (Pages 23–28)

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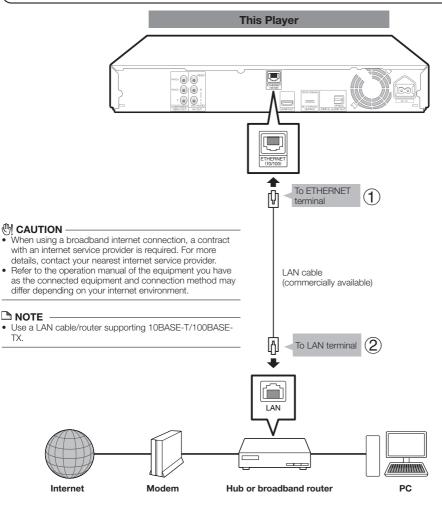
Broadband Internet Connection

Connecting to the ETHERNET terminal

- You can enjoy a variety of contents with interactive functions by connecting to the internet when playing BD-LIVE compatible discs. Refer to pages 25 and 38 regarding further information on BD-LIVE functions.
- When using the internet, a broadband internet connection as shown below is required.

STEPS

- 1 Be sure to turn off this Player and the equipment before making any connections.
- 2 Firmly connect a LAN cable (commercially available) to the ETHERNET terminal ((1) and (2)).



Example of a Broadband Internet Connection

After connecting

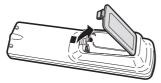
- Perform the communication setting. (Pages 39-41)
- Load a BD-LIVE compatible disc and play back the contents. (Pages 23 and 25)

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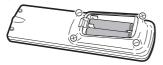
Disc Playback Before Starting Playback

Loading the Batteries in the Remote Control

1 Hold in the tab on the battery cover and pull the cover towards the direction of the arrow.



2 Load the two "AA" size batteries (R-06 size, UM/SUM-3). Place batteries with their terminals corresponding to the ⊕ and ⊖ indications in battery compartment.



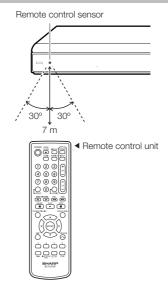
3 Insert the smaller tab of the battery cover into the opening ①, and press down on the cover until it clicks in place ②.



NOTE

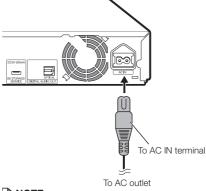
- Do not subject the remote control unit to shock, water or excessive humidity.
- The remote control unit may not function if the Player's remote sensor is in direct sunlight or any other strong light.
- Incorrect use of batteries may cause them to leak or burst. Read the battery warnings and use the batteries properly.
- Do not mix old and new batteries, or mix different brands.
 Remove the batteries if you will not use the remote control unit for an extended period of time.

Approximate operating range of remote control



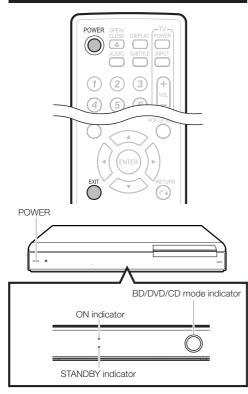
Connecting the Power Cord

Plug the supplied AC cord into the AC IN terminal on the rear of the Player. Then plug into AC outlet.



- Place the Player close to the AC outlet, and keep the power plug within reach.
- TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH THE UN-INSULATED PARTS OF ANY CABLES WHILE THE AC CORD IS CONNECTED.
- The STANDBY indicator blinks while the Player is preparing for starting up. You cannot turn the Player on until the STANDBY indicator stops blinking.
- If you are not going to use this Player for a long period of time, be sure to remove the AC cord from the AC outlet.

Turning the Power On



Turning the power on

Press **POWER** on the remote control or on the Player to turn on the power of the Player.



Entering standby

Press **POWER** on the remote control or on the Player to enter standby.



 If you press **POWER** again immediately after entering standby, the Player may not turn on. If this happens, wait for 10 seconds or more and then turn on the power again.

🗅 NOTE

• When the STANDBY indicator is blinking (may take some time), the Player cannot be turned on.

Indicators on the Player

ON indicator

Green on Power on

STANDBY indicator

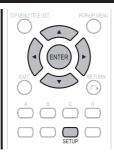
Red blinks	Preparing for standby	
Red on	Standby	

BD/DVD/CD mode indicator

Off	No disc
Blue on	Playing back
White on	Disc stopped
White blinks	Loading a disc

 When you turn on the power, the Menu screen automatically displays for a while.
 Press EXIT to erase the display.

Language Setting



Changing the on-screen display language

1 Press **SETUP** to display the Setup Menu screen.



2 Press ▲/▼/◀/▶ to select "On Screen Language", then press ENTER.



3 Press ▲/▼ to select the language you want to display on the screen, then press ENTER.



NOTE

 To select the DVD disc language, such as subtitle language, etc., see page 24.

Operating a SHARP TV Using the Remote Control

The Universal Remote Control may operate the basic functions of the SHARP TV.

TV function control



- TV Power: POWER
- TV-AV Selector: INPUT
- TV Volume up/down: VOL +/-
- TV Channel up/down: CH \wedge/\vee

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Turning Off the LCD Backlight and Indications

If you feel that the indicators on the Player are too bright when watching movies, you can turn them off except for the ON indicator.



- **1** Press **SETUP** to display the Setup Menu screen.
- 2 Press ▲/▼/ ◀/► to select "Settings", then press ENTER.
- 3 Press ▲/▼ to select "Front Display/LED", then press ENTER.



- 4 Press ◀/► to select "On" or "Off", then press ENTER.
- 5 Press SETUP or EXIT to exit.

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Using AQUOS LINK

Controlling the Blu-ray disc player using AQUOS LINK

What is AQUOS LINK?

Using the HDMI CEC (Consumer Electronics Control), with AQUOS LINK you can interactively operate this player with your SHARP AQUOS TV.

What you can do with AQUOS LINK

When you connect this player to the LCD TV compatible with AQUOS LINK using an HDMI cable, you can perform the function listed below. (See page 14 for connecting to the HDMI terminal).

Automatic input select function

When you start playback of this player, the input selector of the LCD TV will automatically switch to the LCD TV input terminal connected to the player and the playback image will appear on the screen, even if you are watching a TV program.

Automatic power off function

If you turn off the LCD TV when this player is in stop mode, the power of this player will be turned off automatically. (In the case, while playing back a disc, the power does not turn off.)

Automatic power on function

When you switch to the LCD TV input terminal connected to this player, the power of this player will be turned on automatically.

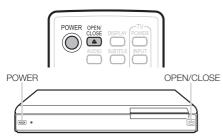
NOTE

 In order to make AQUOS LINK available, set up AQUOS LINK on the LCD TV that is connected to this player. See page 37 regarding the setup of this player.
 Refer to the Operation Manual of the TV for details regarding setup.

BD/DVD/CD Playback

This section explains playback of commercially available BD Video and DVD Video discs (like movies), CDs, and recorded DVD-RW/R discs.

Loading a Disc



- 1 Press POWER to turn on the power.
- 2
- Press OPEN/CLOSE to open the disc trav.
- 3 Load a disc on the disc tray.
 - Insert the disc with the label face up.
 - In case of disc recorded on both sides, face down the side to play back.



4 Press OPEN/CLOSE to close the disc trav.

BD/DVD Video Playback

BD VIDEO | BD-RE | BD-R

DVD VIDEO | DVD-R | DVD-RW

This player supports DVD upscaling during DVD playback.



- 1 Load a disc.
 - · Playback may begin automatically, depending on the disc
 - · Playback begins from the first title.
 - The menu may be displayed first, depending on the disc. Perform playback operation by following the directions on the screen.
- 2 Press
 PLAY if playback does not begin automatically or playback is stopped.

· The disc load time may vary depending on the disc.

Regarding playback of BD video discs

· Some of the newly released BD video discs cannot be played back unless you update the player software to the latest version. Therefore, it may be required to update the software of the player.

Refer to page 43 for more information regarding software updates for the player.

To stop playback Press STOP.

Resume playback function

 If you press > PLAY next, playback will resume from the point where the Player was previously stopped. To playback from the beginning, cancel resume mode by pressing STOP, then press > PLAY. (This may not work depending on the type of disc. In this case, open the disc tray or enter standby.)

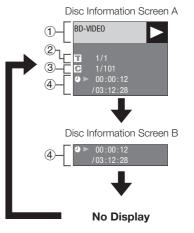
Resume playback may not function depending on the disc.

Displaying the disc information



Press **DISPLAY** during playback.

 Each time you press DISPLAY, the display switches as follows.

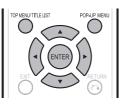


- Type of disc
- 2 Title number being played / Total number of Titles
- Chapter number being played / Total number of Chapters
- Elapsed playback time / Total playback time for the **(4)** Title

- · Disc Information Screen A disappears after about 1 minute elapses without performing any operations.
- · For some commercially-released BD VIDEO discs, the total playback time display for the Chapter/Title may not appear.

BD/DVD Menus

- This section explains how to play back a BD/DVD video disc with a top menu, disc menu or pop-up menu.
- The titles listed in the top menu and a disc guide (for options like subtitles and audio languages) are given in the disc menu.



Start playback by selecting a title from the top menu

BD VIDEO DVD VIDEO

1 Press TOP MENU/TITLE LIST.

• The top menu screen is displayed if present on the BD/DVD video disc.

TOP MENU			
1 Jazz	2 Latin		
3 Classic	4 Rock		

- **2** Press A/V/A/F to select the title, then press ENTER.
 - The selected title is played back.

🗅 NOTE

 The procedure explained on this page is the basic operation procedure. Procedures vary depending on the BD/DVD video disc, so you may need to follow the instructions in the BD/DVD video disc manual or the instructions displayed on the screen.

Top menu

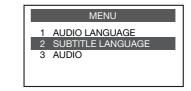
- With some BD/DVD discs, the top menu may be referred to as the "Title Menu". Use **TOP MENU/TITLE LIST** on the remote control when the instructions refer to "Title Menu".
- If no top menu is available, the **TOP MENU/TITLE LIST** button will have no effect.

Using the disc menu

DVD VIDEO

Example: Select "SUBTITLE LANGUAGE".

- 1 Press TOP MENU/TITLE LIST.
 - The disc menu screen is displayed if present on the DVD video disc.
- 2 Press ▲/▼ to select "SUBTITLE LANGUAGE", then press ENTER.
 - The screen for selecting the subtitle language is displayed.



- **3** Press \blacktriangle/ \forall to select the subtitle language, then press **ENTER**.
- 4 Press TOP MENU/TITLE LIST to exit.

Using the pop-up menu

BD VIDEO

1 Press POP-UP MENU during playback.

- The pop up menu screen is displayed.
 - The menu contents displayed vary depending on the disc. For details on how to see and operate the popup menu, refer to the manual for the disc.



- **2** Press $\land/ \lor/ \checkmark/ \lor$ to select the desired item, then press **ENTER**.
- 3 Press POP-UP MENU to exit.
 - The pop-up menu will automatically disappear for some discs.

Enjoying BONUSVIEW or BD-LIVE

BD VIDEO

This Player is compatible with additional functions of BD-Video, BONUSVIEW (BD-ROM Profile 1 Version 1.1) and BD-LIVE.

For BD-Video discs compatible with BONUSVIEW, the functions of Picture in Picture and Virtual Package are available. For BD-LIVE compatible discs, you can enjoy a variety of functions via the internet in addition to the BONUSVIEW functions.

Virtual Package/BD-LIVE data is saved in Local Storage (USB memory device connected to this Player). To enjoy these functions, connect a USB memory device (2GB or greater) supporting USB 2.0 High Speed (480Mbit/s) to the BD STORAGE/ SERVICE terminal (page 11) on the back of this player.

- If there is insufficient storage space, the data will not be copied/downloaded. Delete unneeded data or use a new USB memory device.
- If a USB memory device containing other data (previously recorded) is used, the video and audio may not play back properly.
- If the USB memory device is disconnected from this player during playback of Virtual Package/BD-LIVE data, playback of the disc will stop.
- Some time may be required for the data to load (read/ write).
- Refer to "USB Memory Management" on page 42 for erasing the Virtual Package data and the BD-LIVE data in the USB memory device.

NOTE

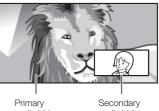
- SHARP cannot guarantee that all brands' USB memory devices will operate with this player.
- Only USB memory devices formatted with FAT 32/16 are compatible.
- Do not use a USB extension cable when connecting a USB memory device to the BD STORAGE/SERVICE terminal of the player.
 - Using a USB extension cable may prevent the player from performing correctly.

Use of Picture in Picture function (secondary audio/video playback)

BD-Video that includes secondary audio and video compatible with Picture in Picture can be played back with secondary audio and video simultaneously as a small video in the corner.



1 Press **PinP** during playback to show the 2picture screen.



audio/video audio/video To remove the secondary video, press PinP again.

NOTE

2

- To listen to secondary audio, make sure that "Secondary Audio" is set to "On". (See page 36.)
- The secondary audio and video for Picture In Picture may automatically play back and be removed depending on the content. Also, playable areas may be restricted.

Virtual Package

For BD-Video discs compatible with Virtual Package, data is copied from the discs or internet to local storage. It is automatically copied to the local storage prior to playback. You can enjoy a variety of additional functions including secondary video, secondary audio, subtitles, movie trailers, etc.

• The playback methods vary depending on the disc. For details, refer to the disc manual.

BD-LIVE

In this Player, a variety of contents with interactive functions are available through BD-LIVE compatible Bluray discs by connecting to the internet. You can enjoy the download of bonus features such as latest movie trailers to the USB memory device, communication compatible BD-J interactive games, etc.

• The available functions differ depending on the disc.

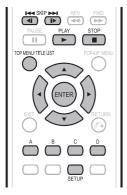
NOTE

- Regarding playback method of BD-LIVE contents, etc., perform the operations in accordance with the instructions in the BD disc manual.
- To enjoy BD-LIVE functions, perform the broadband internet connection (page 18) and communication settings (pages 39–41).
- Refer to page 38 regarding the setup to restrict access to BD-LIVE contents.

DVD-R/-RW/BD-RE/-R Playback

DVD-R DVD-RW BD-RE BD-R

You can play back a recorded disc (DVD: VR format finalized disc only / BD: BDAV format disc only).



NOTE

• "Finalize" refers to a recorder processing a recorded disc so that it will play in other DVD players/recorders as well as this player. Only finalized DVD discs will play back in this player. (This player does not have a function to finalize discs.)

Playback by selecting a title

1 Load a recorded disc.

The Title List screen is displayed.

Program 1	Program 2	Program 3	
Program 4	Program 5	Program 6	

 When loading a BD disc with usage restrictions placed by a BD recorder, the password input screen appears. Then, input your password. If you input a wrong password three times, the disc

tray will open. Close the disc tray, and then input a correct password.

- If the Title List screen is not displayed, press TOP MENU/TITLE LIST.
- 2 Press A/V/ A/ to select the desired title, then press ENTER.
 - · When seven or more titles are displayed, switch pages by pressing **SKIP/** or **SKIP**/I.
 - Playback of the selected title will begin. You can playback by pressing > PLAY instead of pressing ENTER.
- 3 Press **STOP** to stop playback.

The Title List screen also can be displayed by pressing TOP MENU/TITLE LIST when playback is stopped or by pressing ENTER after choosing "Displays The Title List" in Setup Menu when playback is stopped.

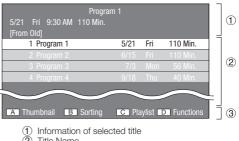
About Title List

- The Title List can be displayed in two types, Thumbnail and Title Name.
- Each time you press A (Red), the screen changes between Thumbnail and Title Name.

Thumbnail



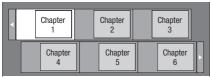
Title Name



- (2) Title Name
 - Recording Date
 - Recording Duration
- ③ Caption for Color Button

Playback by selecting a chapter

- 1 Press B (Green) while the Thumbnail screen is displayed.
 - The chapter screen is displayed.



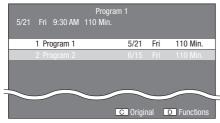
- When seven or more chapters are displayed, switch pages by pressing SKIP/I or SKIP/I.
 To return to the Thumbnail screen, press B (Green).
- 2 Press ▲/▼/ ◄/ ► to select the desired chapter, then press ENTER.
 - Playback of the selected chapter will begin. You can playback by pressing ▶ PLAY instead of pressing ENTER.
- **3** Press **STOP** to stop playback.

Sorting the titles

Each time you press **B** (Green) while the Title Name screen is displayed, the Title Name display changes between displaying the newest title first and the oldest title first.

Playback by selecting a Playlist

- 1 Press C (Blue) while the Thumbnail screen is displayed.
 - The Playlist screen is displayed.



- **2** Press $\blacktriangle/ \blacksquare$ to select the title, then press **ENTER**.
 - Playback of the selected title will begin.
- Press STOP to stop playback.

Playing back the title you stopped while being played.

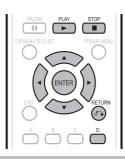
1 Press D (Yellow) while the Title List screen is displayed.

Playback	
	From Beginning From Continued

- 2 Press **◄**/**▶** to select the type of Playback, then press **ENTER**.
 - Playback of the title will begin.
- 3 Press STOP to stop playback.

Audio CD Playback

AUDIO CD



Playback from the beginning

- 1 Load an audio CD.
 - The CD screen is displayed. (The CD screen is displayed only when a compact disc recorded in the CD-DA format is inserted.)
 - Playback may begin automatically, depending on the disc.

	Track	01		5:16	1/1: 00:0 3 0ff		
ھ	1	Track 01	5:16				
	2	Track 02	5:10				
	3	Track 03	5:23				
	4	Track 04	5:03				
	5	Track 05	4:44				
	6	Track 06	5:08				
•							1/12
	\$ Sele	ct 🚥 Ente	er		D	Functi	ions

- 2 Press ► PLAY if playback does not begin automatically or playback is stopped.
- 3 Press STOP to stop playback.

Resume playback function

 If you press ▶ PLAY next, playback will resume from the point where the Player was previously stopped. To playback from the beginning, cancel resume mode by pressing ■ STOP, then press ▶ PLAY. (This may not work depending on the type of disc. In this case, open the disc tray or enter standby.)

NOTE

(EN) - 28

Resume playback may not function depending on the disc.

Playback by selecting a track

- 1 Press ▲/▼ to select the track, then press ENTER during playback or when playback is stopped.
 - Playback of the selected track will begin.

	Track (03		5:23	Fur • • · ·	3/1: 3/1: 00:1 3 0ff		
	1	Track 01	5:16					
	2	Track 02	5:10					
۵	3	Track 03	5:23					
	4	Track 04	5:03					
	5	Track 05	4:44					
	6	Track 06	5:08					
\bullet								3/12
	Select	ct 🐽 Enter			(D	Functi	ons

2 Press **STOP** to stop playback.

Operation procedure for the "Functions" menu

- 1 Press D (Yellow) (Functions) when the CD screen is displayed.
 - The "Functions" menu is activated.

	Track (03		5:23		3/1 300: 3 0ff		
	1	Track 01	5:16					
	2	Track 02	5:10					
۵	3	Track 03	5:23					
		Track 04	5:03					
		Track 05	4:44					
		Track 06	5:08					
								3/12
	\$ Selec	ct 🚥 Enter		3	R	eturn D	Track	select

- **2** Press \blacktriangle/ \forall to select the desired setting, then press **ENTER**.
 - When playback is stopped, only "Track" can be selected.
 - For a description of each setting, see "Functions which can be set" (Page 34).
- 3 Press ▲/▼/
 to set, then press ENTER.
 Operations vary depending on the setting. Follow the operation instructions on the screen.
- 4 Press **RETURN** or **D** (Yellow) to exit the "Functions" menu.

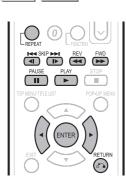
NOTE

The displayed items vary depending on the disc.

Playback Functions

BD VIDEO BD-R BD-RE DVD VIDEO | DVD-R | DVD-RW

AUDIO CD



 Some operations in the following playback functions cannot be performed depending on the specifications of the disc.

Fast Forward/Reverse (Search)

Fast Forward/Reverse functions when **44 REV** or FWD is pressed during playback.

- Example: When **FWD** is pressed
- · The search speed will change each time you press the button.

When playing back a DVD

· You cannot fast forward or fast reverse from one title and continue to another title (except when playing audio CDs).

Skipping to the Next or the Start of the Current Chapter (Track)

Skipping (to the beginning of a chapter or track) functions when SKIP/I or SKIP/I is pressed during playback.

Pause/Frame Advance Playback

Pause functions when **PAUSE** is pressed during playback. (If you are playing back an audio CD, the CD will also pause.)

Frame Advance Playback functions when **SKIP/I** is pressed during Pause.

 Frame Advance Playback may not function properly with discs other than DVD-RW (VR format).

NOTE

- Some BD/DVD Video discs are not compatible with Pause/ Frame Advance Playback.
- · Frame Advance/Reverse Playback can be performed for DVD discs by pressing **SKIP/I** or **SKIP/I** during pause.

Slow Plavback

Slow Playback functions when ►► SKIP/I► or **SKIP/** is pressed for more than 2 seconds during pause.

Press > PLAY to return to normal playback.

NOTE

- . This doesn't work for audio CDs.
- Reverse Slow Playback cannot be performed for BD video.

Repeat Playback of a Title or Chapter (Repeat Playback)

- 1 Play back the title or chapter you want to repeat.
- 2 Press REPEAT.
- 3 Press \triangleleft b to select the type of Repeat Playback.

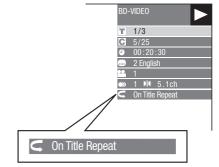
 - Playback Title: Repeats the title currently being played back
 - Playback Chapter: Repeats the chapter currently being played back.
 - Scene Selection: Repeats the specified scene of title or chapter.

Playback Title Playback Chapter Scene Selection

- Press A RETURN to cancel without setting the type of Repeat Playback.
- For Audio CD, you can select "Playing Disc", "Playing Track" and "Specify The Part" as Repeat Playback options.

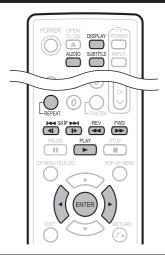
Press ENTER.

Example: Repeat playback of a title (TITLE)



5 Press REPEAT to return to normal playback.

Playback Functions



Partial Repeat Playback (Repeat Playback of a Specified Part)

DVD VIDEO DVD-R DVD-RW

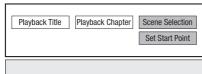
AUDIO CD

🗅 ΝΟΤΕ

 Some operations in the following playback function cannot be performed depending on the specifications of the disc.

1 Press REPEAT during playback.

- 2 Press ◀/▶ to select "Scene Selection", then press ENTER.
 - "Set Start Point" displays.



- **3** Press **ENTER** at the scene where you want to set the start point.
 - "Set End Point" displays.
- 4 Press ENTER at the scene where you want to set the end point.
 - You can press >> FWD to fast forward to the scene where you want to set the end point. When you reach the desired scene, simply press >> PLAY and then ENTER to set the end point. To cancel Repeat Playback, press REPEAT.

- Press >>> SKIP/I>, the Repeat Playback is cancelled and the next chapter being play back.
- Press SKIP/I once, the Repeat Playback is cancelled and the player returns to the start of current chapter (track).
- If you press SKIP/I again (within about 5 seconds) the player will skip to the beginning of the previous chapter (track).
- For Partial Repeat Playback, set the start and end points within the same title.
- Repeat Playback may be forbidden depending on the disc.
- Partial Repeat Playback may not work in multi-angle scenes.
- If you press **DISPLAY**, you can confirm the Repeat Playback status.

Displaying the Audio Information

You can display the audio information on the disc currently being played back by pressing **AUDIO**.

• The displayed contents vary depending on the disc.

BD VIDEO DVD VIDEO

The audio track currently being played back will be displayed.

If multiple audio channels are recorded, you can switch the audio channel by pressing **AUDIO**.

DVD-RW DVD-R

When a recorded broadcast with stereo or monaural audio is played back:

"Stereo" is displayed. (Audio cannot be switched.)

NOTE

 When you play a program recorded in stereo or monaural, and if you are listening to the Bitstream sound via the digital output jack, you cannot select the audio channel. Set "Audio Out" to "PCM" (Page 37), or if you want to change the audio channel, listen via the analog output jacks.

Switching Subtitles

If subtitles are provided in multiple languages, you can switch between them.

Press SUBTITLE during playback.

- The display indicates the subtitle number currently being played back, and the subtitles appear.
 Each time **SUBTITLE** is pressed, the subtitles change.
- "-" is displayed if a disc has no subtitles.
- You can also select "Off".

Switching the Angle

If multiple angles are recorded, you can switch between them.



- 1 Press **FUNCTION** during playback.
 - The Function Control screen is displayed on the TV.
- **2** Press \blacktriangle/∇ to select the Angle Number column, then press **ENTER**.

BD-	VIDEO
Т	1/3
С	5/25
٩	00:20:30
	2 English
2.0	1
)))	1 🕅 5.1ch
S	Off

- 3 Press ▲/▼ to select the desired Angle Number, then press ENTER.
 - "--" is displayed if a disc is recorded with only one angle.
- 4 Press **RETURN** or **FUNCTION** to close the Function Control screen.

NOTE

- The displayed items vary depending on the disc.
- If you access the Function Control screen during playback of a BD/DVD video, it may be impossible to operate the BD/DVD video playback. In cases like this, close the Function Control screen.

Displaying the Angle Mark

You can change settings so that Angle Mark appears in the right bottom part of the screen when multiple angles are recorded. (The Angle Mark is displayed for BD/DVD video.) The settings can be changed in "Settings" - "Playback Setting" - "Angle Mark Display" (Page 38).

NOTE

- Settings for audio and subtitles can be changed also in Function Control screen (Page 33).
- The operations of subtitles, angle and audio differ according to each disc. You may need to refer to the operation manual of the disc.
- The following operations will not work when playing back an audio CD: Slow Playback, Frame Advance

Display of functions

• The display for subtitles, angle or audio automatically disappears after 5 seconds.

Switching between functions

- You can switch the subtitles and audio at the Function Control screen (Page 33).
- The operation for each function varies depending on the disc. See the manual for the disc.

Fast Forward/Reverse

- You cannot perform Fast Forward/Fast Reverse between titles. At the end or beginning of the title, Fast Forward/ Fast Reverse will be cancelled and normal playback will automatically resume.
- Subtitles are not played back with BD/DVD video discs during Fast Forward and Fast Reverse.

Slow Playback

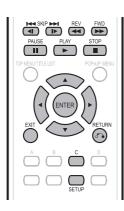
 You cannot perform Slow Playback between titles. At the end of the title, Slow Playback will be cancelled and normal playback will automatically resume.

Repeat Playback

- Repeat Playback may be forbidden depending on the disc.
- Partial Repeat Playback may not work in multi-angle scenes.
- For Partial Repeat Playback, set the start and end points within the same title.

JPEG File Playback





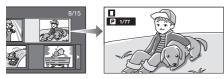
- This Player can play still images (JPEG files) that have been recorded on CD-RW/R discs. For details on the still images that you can play using this player, refer to "About the JPEG file format" on page 7.
- During "Normal play", still images are played one by one while during "Slide show", they are automatically replaced one after another.

Playing back still images in sequence

- 1 Load the disc containing the still images, and press ► PLAY.
 - The first still image appears on the screen.
- 2 To stop the still image playback at any time, press STOP.

Playing back still images in a selected folder

- 1 Load the disc containing still images, then press **SETUP**.
- **2** Press $\land / \checkmark / \checkmark / \checkmark$ to select "Picture", then press **ENTER**.
- **3** Use A/V/A/V to select the folder whose still images are to be played, then press **ENTER**.



- 4 Press **I** SKIP/I or **→** SKIP/I to replace one image with another.
 - The same operation can be performed by pressing
 ✓/> or FWD.
 - Press RETURN if you wish to return to the folder selection screen.
- 5 To stop the still image playback at any time, press **STOP**.

Playing back Slide Show

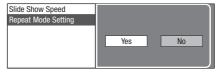
- In Step 2 of the left side "Playing back still images in a selected folder", press ► PLAY (Slide Show).
 - The still images inside the selected folder are played as a slide show.
- 2 To pause the playback at any time, press **II PAUSE**.
 - Press > PLAY to resume playback.
- **3** To stop the playback at any time, press **STOP**.
 - Press RETURN to play a slide show of still images in another folder.

Setting slide show speed/repeat playback

- 1 Press C (Blue) (Slide Show Menu) during the folder selection screen.
 - The setting screen for "Slide Show Speed"/"Repeat Mode Setting" appears.
- 2 Press ▲/▼ to select "Slide Show Speed", then press ENTER.



- The slide show speed may be selected from "Fast", "Normal", "Slow1" and "Slow2".
- **3** Press $\blacktriangle/ \bigtriangledown$ to select the desired speed, then press **ENTER**.
- 4 Press \blacktriangle/ \forall to select "Repeat Mode Setting", then press **ENTER**.



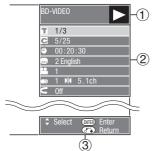
- 5 Press **∢**/**▶** to select the desired item, then press **ENTER**.
- 6 Press EXIT to exit.

Settings During Playback

Function Control

This allows you to adjust various settings at once, like subtitles, angle settings and the tille selection for Direct Playback. You can adjust the video and audio to suit your preferences. The operations are the same for BD and DVD.

Function Control screen



1 Playback status display

Shows the operation status and the disc type.

② Setting items

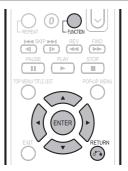
Selects a title (or track) or chapter for playback, or performs video/audio settings.

- Title/Track Number (Direct Title/Track Skip)
- Chapter Number (Direct Chapter Skip)
- Playback Elapsed Time (Direct Time Skip)
- Subtitle Language
- Angle Number
- Audio
- Repeat

③ Operation guide display

Provides help on remote control button operations.

Function control operation procedure



- 1 Press FUNCTION during playback.
 - The Function Control screen is displayed on the TV.
- **2** Press \blacktriangle/ \lor to select the desired setting, then press **ENTER**.
 - For a description of each setting, see "Functions which can be set" (Page 34).



- 3 Press ▲/▼/
 4/▶ to set, then press ENTER.
 Operations vary depending on the setting. Follow the operation instructions on the screen.
- 4 Press **RETURN** or **FUNCTION** to close the Function Control screen.

🗅 NOTE

- If "--" is displayed for an option like title number or subtitles, the disc has no titles or subtitles which can be selected.
- The displayed items vary depending on the disc.
- If you access the Function Control screen during playback of a BD/DVD video, it may be impossible to operate the BD/DVD video playback. In cases like this, close the Function Control screen.

Functions which can be set

Title/Track Number (Direct Title/Track Skip)

- Shows the title number being played back (or track number when playing back an audio CD). You can skip to the start of the title (or track).
- To skip to the start of a selected title (or track), press the Number buttons to enter the title (or track) number when this option is highlighted.

Chapter Number (Direct Chapter Skip)

- Shows the chapter number being played back. You can skip to the start of the chapter.
- To skip to the start of a selected chapter, press the Number buttons to enter the chapter number when this option is highlighted.

Playback Elapsed Time (Direct Time Skip)

- Shows the time elapsed from the beginning of the current disc title (or track). This lets you skip to a specific time.
- Press
 To select the Hour, Minute or Second, then press
 ▲/▼ or the Number buttons to set the time. Press ENTER to start playback at the set time.

Subtitle Language

 Shows the currently selected subtitle language. If subtitles are provided in other languages, you can switch to your preferred language.

Angle Number

 Shows the currently selected angle number. If the video is recorded with multiple angles, you can switch the angle.

Audio

• Shows the currently selected type of audio. You can select the desired type of audio.

- Repeat

The current Title (or Chapter) or partial segments can be repeatedly played back. Repeat
Playback is also possible with the **REPEAT** button on the remote control.

NOTE

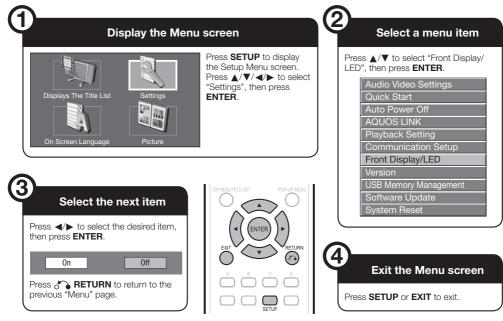
These functions may not work with all discs.



Common operations

The "Menu" enables various audio/visual settings and adjustments on the functions using the remote control unit. You need to call up the OSD to perform settings for this player. The following is the explanation for the basic operations of the "Menu".

Example: Setting "Front Display/LED"



Basic Operation for Playback Setting

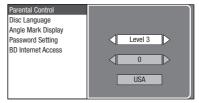
Example: Setting "Parental Control" under "Playback Setting"

- **1** Press **SETUP** to display the Setup Menu screen.
- 2 Press ▲/▼/ ◀/► to select "Settings", then press ENTER.
- 3 Press ▲/▼ to select "Playback Setting", then press ENTER.
- 4 Press ▲/▼ to select "Parental Control", then press ENTER.
 - When you operate this Player for the first time, the password setting screen will be displayed. See "When setting the password for the first time" below.
- 5 Enter your 4-digit password.
 - You cannot move to the next setting screen until you can input the correct password.

When setting the password for the first time.

① To set the password for the first time, press ◀/► to select "Yes" to enter the password setting menu, then press ENTER.

- (2) Enter a 4-digit number for the password, then the same 4-digit number for confirmation.
- ③ Press ENTER to complete the password setting procedure and move to the next setting screen.
- 6 Press ∢/► to select the parental control level for DVD VIDEO, BD-ROM, and then select the country code. Press ENTER after making each selection.



7 Press SETUP or EXIT to exit.

Audio Video Settings

TV Aspect Ratio

You can set the screen aspect ratio of the connected TV, and adjust the video output.

If you switch your TV (i.e. because you have bought a new one) and the screen aspect ratio of the connected TV changes, you will have to change the "TV Aspect Ratio" setting.

Item

Wide 16:9: Select this when connecting to a TV with a 16:9 screen aspect ratio.

Normal 4:3: Select this when connecting to a TV with a 4:3 screen aspect ratio.

<When selecting Normal 4:3>

Item

- Letter Box: If you connect to a TV with a screen aspect ratio of 4:3 and playback a DVD with 16:9 video, the video will be played back with black bands at the top and bottom while maintaining the 16:9 ratio.
- Pan Scan: If you connect to a TV with a screen aspect ratio of 4:3 and playback a DVD with 16:9 video, the video will be played back with the left and right sides of the image cut off to display in 4:3 screen aspect ratio. (This function works if the disc is labelled for 4:3PS.)

Component Video Out

This sets the resolution of the component video output.

Some TVs are not fully compatible with the Blu-ray disc player, which may cause the image distortion. In this case, press **VIDEO OUTPUT RESET** on the remote control for five seconds. "Component Video Out" will be reset to "480i" (factory preset value).

Item

1080i, 720p, 480p, 480i

HDMI Video Out

This sets the resolution of the HDMI video output. Some TVs are not fully compatible with the Blu-ray disc player, which may cause the image distortion. In this case, press **VIDEO OUTPUT RESET** on the remote control for five seconds. "HDMI Video Out" will be reset to "Auto" (factory preset value).

Item

Auto, 1080p, 1080i, 720p, 480p

NOTE

When the BD player is connected to a 1080p 24Hz compatible TV and the "HDMI Video Out" is set to "Auto", 1080p 24Hz will automatically be displayed when compatible discs are played back.
 At 1080p 24Hz/1080p 60Hz, there is no output from the

COMPONENT VIDEO OUT jacks and VIDEO output jack.

Video Out Select

Dual video output is possible simultaneously from the COMPONENT VIDEO OUT jacks and the HDMI OUT terminal with the following settings. Select the video output which you want to have priority according to the following chart.

NOTE

1080p and AQUOS LINK are only available in HDMI.

Video Out Select	Dual Output	HDMI Video Out	Component Out Resolution in Dual Mode		
	No	Auto	*1		
	No	1080p	No		
ндмі	Yes	1080i	1080i		
	Yes	720p	720p		
	Yes	480p	480p		
	*1 Depends on source. 1080p is not available.				
	Dual Output	Component Video Out	HDMI Out Resolution in Dual Mode		
Component	Yes	1080i	1080i		
	Yes	720p	720p		
	Yes	480p	480p		
	Yes	480i	480i		

- Item -

HDMI, Component

- When the priority video output is selected, video is output from the other video terminal with the resolution of the selected video output.
- There is no output from the COMPONENT VIDEO OUT jacks and VIDEO output jack when video is output at 1080p resolution and the priority video output is selected to "HDMI".
- If the video equipment connected to each of the terminals is not compatible with the resolution of the priority video output, abnormalities in images on the screen may appear.

Secondary Audio

This toggles the clicking sound on the menu and audio with secondary video in picture in picture mode for BD-Video.

 Select "Off" when enjoying the high quality sounds of BD-Video.

- Item

On, Off

SETTINGS

Audio Out

You can set the audio output when connecting to SURROUND equipment.

1 This sets the audio output connected to SURROUND equipment.

- Item

- HDMI Output: Select this when you connect using HDMI OUT terminal.
- Digital Output: Select this when you connect using DIGITAL AUDIO OUT terminal (OPTICAL). 2ch Audio Output: Select this when you do not use SURROUND sound equipment.
- 2 You can set the audio output mode for each output terminal.
- (1) This sets the audio output mode for HDMI OUT terminal when selecting "HDMI Output".

NOTE

• When the secondary audio is set to "On", PCM is automatically selected as the audio output mode.

en literre	
Bitstream:	 Select this when connecting to HDMI equipment with a built-in decoder for DOLBY DIGITAL, etc. Setting to Bitstream will output each audio signal by Bitstream.
PCM (Surround):	 Select this when connecting to multi-channel HDMI equipment. Setting to PCM (Surround) will output by LINEAR PCM by decoding audio signals recorded in each audio output mode such as DOLBY DIGITAL, DTS.

(2) This sets the audio output mode for DIGITAL AUDIO OUT (OPTICAL terminal) when selecting "Digital Output".

	- Harry -	
1	C Item	
	Bitstream:	 Select this when connecting to SURROUND equipment with a built-in decoder for DOLBY DIGITAL, etc. Setting to Bitstream will output each audio signal by Bitstream.
	PCM:	 Select this when connecting to 2 channel stereo audio equipment. Setting to PCM will output by converting each audio signal into PCM 2 channel audio signal.

 See page 44 for information on output of next generation audio formats.

Dynamic Range Control

This lets you adjust the range between the loudest and softest sounds (dynamic range) for playback at average volume. Use this when it is hard to hear dialog.

- Item

- Normal: The same audio output range is played as the original recorded audio output range.
- Shift*: When Dolby Digital audio is played back, the dynamic range of the audio is adjusted so that the dialog portion can be heard easily. (If the audio sounds abnormal, set to "Normal".)
- Auto: When you play back audio in the Dolby TrueHD format, the dynamic range is automatically adjusted.
- * Lower the audio volume before setting. If you do not do so, the speakers may emit a loud sound or excessive output may be applied to the speakers.

Quick Start

This turns the Quick Start function on and off. When the Quick Start function is on:

- The startup time of the Player is reduced.
- However, power consumption will increase.
- When the Quick Start function is off:
- The player will enter the low power consumption mode when in standby condition.

Item

Yes, No

• When "Quick Start" is set to "Yes", the Player requires some time to turn off.

Auto Power Off

This sets the Player so that power is automatically shut off if playback is stopped for about 10 minutes.

Item

Yes, No

AQUOS LINK

This lets you set the Player to receive the control signal from the AQUOS LINK remote control via the HDMI cable.

Item

Yes, No

NOTE

- For details, refer to the operation manual of TV.
- If "Component" is selected from the "Video Out Select" menu, AQUOS LINK is not available. Select "HDMI" if you want to use AQUOS LINK features.

Settings

Playback Setting

Parental Control

This lets you set the Parental Control depending on the disc content. The available Parental Control Levels are shown below.

The 4-digit password number needs to be entered before the Parental Control Levels and the Country Code are set. The Parental Control Levels and the Country Code cannot be set if a password has not been created or the password is not entered.

Item (For DVD-VIDEO)

8 and Off: All DVD-video can be played.

1-7: Prohibits play of DVD-video with corresponding ratings recorded on them.

Item (For BD-ROM)

No Limit: All BD-video can be played. 0-99 year(s): Prohibits play of BD-video with corresponding ratings recorded on them.

Item (Country code)

Sets the country code. Refer to the Country Code List (page 44) because the ratings differ according to the country.

NOTE

 Refer to "Basic Operation for Playback Setting" on page 35 for details.

Disc Language (Disc Priority Language)

This lets you select the language for subtitles, audio and menus displayed on the screen.

Item (Subtitle)

Refer to the Language List. (Page 44)

Item (Audio)

Refer to the Language List. (Page 44)

Item (Menu)

Refer to the Language List and Language Code List. (Page 44)

Angle Mark Display

This lets you turn the Angle Mark Display on or off when BD/DVD video recorded with multiple angles is played back. (The Angle Mark is displayed in the lower right screen.)

Item

Yes, No

(EN) - 38

Password Setting

This sets the password for setting or changing the Parental Control Level.

Item

Yes: Enter the 4-digit number. No

- When you forget the password, you can reset the current password using "System Reset" under "Settings". (See this page.)
- · You can also set the new password if desired.

BD Internet Access

This allows you to set access restriction to BD-LIVE contents.

- Item

Permit: Allow all BD-LIVE discs. Limit: Allow only discs with owner certification. Prohibit: Prohibit all BD-LIVE discs.

NOTE

- The available functions differ depending on the disc.
- Regarding playback method of BD-LIVE contents, etc., perform the operations in accordance with the instructions in the BD disc manual.
- To enjoy BD-LIVE functions, perform the broadband internet connection (page 18) and communication settings (pages 39–41).

Front Display/LED

If you feel that the indicators on the player's front display are too bright when watching movies, you can turn them off except for the ON indicator.

- Item

On, Off

Version

When you select "Version", the system software version is displayed.

System Reset

You can reset all settings to the factory presets.

Item

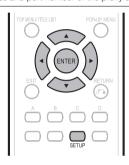
Reset, Not Reset

Communication Setup

This allows you to perform and/or change the communication setting. This setting is required to use BD-LIVE functions that connect to the internet.

NOTE

- Make sure that the LAN cable is connected to this Player. (See page 18.)
- For manually performing the setting, the following information of the connected router or modem is required. Confirm the information prior to the setting.
 IP address, netmask, gateway, DNS address
- Besides, if specifying a proxy server, the following information specified from your internet service provider is also required. Confirm the information prior to the setting.
 IP address and port number of the proxy server

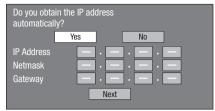


- **1** Press **SETUP** to display the Setup Menu screen.
- 2 Press ▲/▼/ ◀/► to select "Settings", then press ENTER.
- 3 Press ▲/▼ to select "Communication Setup", then press ENTER.
- 4 Press **∢**/**▶** to select "Change", then press **ENTER**.

Current Ethe	Current Ethernet setup info.		
IP Address Netmask Gateway DNS Proxy	: Auto Setup : Auto Setup : Auto Setup : Auto Setup : Not Use		
Change		Initialize	

• For initializing the current setting, select "Initialize", then press **ENTER**.

5 For setting the IP address, press **∢**/**▶** to select "Yes" or "No", then press **ENTER**.



- If selecting "Yes": The IP address is automatically obtained. (Go to the step 9.)
- If selecting "No": The IP address, netmask and gateway are manually entered using the screen for inputting characters. (See page 41.) Regarding each of the setup values, confirm the specifications of your broadband router.

Select "Next", then press ENTER.

7 Enter your DNS address.

Enter your DNS a	address.
Primary Secondary	
	Next

 The primary and secondary DNS addresses are entered using the screen for inputting characters. (See page 41.)
 Becarding each of the set up values, confirm the

Regarding each of the setup values, confirm the specifications of your broadband router.

8 Select "Next", then press ENTER.

9 For setting the proxy server, press **∢/**► to select "Yes" or "No", then press **ENTER**.



- If selecting "Yes": The IP address or proxy server name and port number for the proxy server specified from your internet service provider are entered using the screen for inputting characters. (See page 41.)
- If selecting "No": Go to the next step.

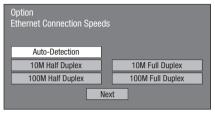
(Continued on the next page) Download from Www.Somanuals.com. All Manuals Search And Download.



SETTINGS

- 10 Select "Next", then press ENTER.
- 11 For the advanced setting (the setting of the Ethernet connection speeds), press ◄/► to select "Yes" or "No", then press ENTER.
 - Normally select "No", then press ENTER.
 - The Ethernet connection speeds can be set when you select "Yes", then press ENTER.
 - As automatic detection is made (factory preset mode), this setting is not normally necessary. If a situation occurs in which the Ethernet connection fails, etc., change the setting and confirm if the Ethernet connection successfully works.

When the connection speed is set, select "Next", then press **ENTER**.



- 12 For testing the connection to the internet, after confirming the settings, press ◄/► to select "Test", then press ENTER.
 - "Test" is available only when setting to obtain the IP address automatically. "Test" cannot be selected if the IP address has not been obtained automatically.

Confirm the c	urrent setting.
	: XXXX XXXX XXXX XXXX : XXXX XXXX XXXX : XXXX XXXX XXXX : XXXX XXXX XXXX XXXX : XXXX XXXX XXXXXXXX
Test	Complete

- As a result of the test, if the internet connection fails, enter the setup values manually.
- **13** Press **◄**/**▶** to select "Complete", then press **ENTER**.

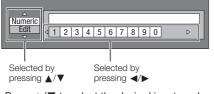
The operation procedure for inputting characters manually

NOTE

 Numeric characters such as IP address can be entered on the input screen either by selecting each of the characters in the "Numeric" mode or using the Number buttons on the remote control.

IP Address	123 • • • •
Netmask	
Gateway	

1 Press ENTER at the boxes in which characters are to be entered, and the input screen will appear.



- Press ▲/▼ to select the desired input mode.
 When inputting the address of the proxy server; "1ABC" (Alphabet/numeric character) / "Sign" / "Edit"
 - Men inputting other values (IP address, etc.);
 "Numeric" / "Edit"

- 3 Press ◀/► to select a number/character, then press ENTER.
- **4** Repeat the step 3 to display all of the desired characters/numbers in the input field.

Example: The screen for inputting numeric characters



NOTE -

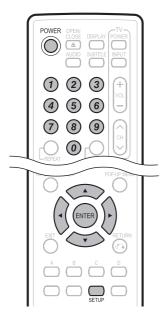
- Press RETURN (Del.Char.) to delete a number/ character you have input.
- **5** Press **D** (Yellow) (Complete) to fix the numbers which have been input.

IP Address	123 • • •
Netmask	
Gateway	

6 Repeat step 1 to 5 to finish inputting all the required characters.

Input character list

1ABC (Alphabet/ numeric character)	Num.	um. ABC DEF GHI		JKL	JKL MNO PQRS TUV WX			(YZ Spc.	
	Num.	1234	1234567890		ABC	ABCabc		DEF	DEFdef
	GHI	GHIg	GHIghi .		JKL	JKLjkl		MNO	MNOmno
	PQRS	PQR	Spqrs		TUV	TUVtuv		WXYZ	W X Y Z w x y z
	Spc.	(space)							
Numeric		1234	5678	90					
Sign	$\label{eq:product} \textcircled{@}_{\cdot,\cdot}: ;_{-} \setminus \ \ \$\%!? \& \ \#{+}^* = / \ ^- ``` () <> [] \{ \} \qquad \mbox{Spc.}$								
	@.,:	@ . ,	:		; \	;	\	\$%!?	\$ % ! ?
	& # + *	& # -	+ *		= / ~	= /	~	" (^ >	" ' ^ `
	() < >	() <	>		[]{}	[]{	}	Spc.	(space)
Edit	each of	ne opera	ns and pr	essing	red buttor	, in the second s	Del.Char.	can be per	formed by selecting



Before using the USB memory device

CAUTION:

- Do not remove the USB memory device or unplug. the AC cord while the operations for "USB Memory Management" or "Software Update" are being performed.
- · Do not use a USB extension cable when connecting a USB memory device to the BD STORAGE/SERVICE terminal of the player.
 - Using a USB extension cable may prevent the player from performing correctly.

NOTE:

- · SHARP cannot guarantee that all brands' USB memory devices will operate with this player.
- Only USB memory devices formatted with FAT 32/16 are compatible.

USB Memory Management

The following instructions explain how to delete data such as the Virtual Package data and the BD-LIVE data in a USB memory device.

- 1 Insert the USB memory device into the BD STORAGE/SERVICE terminal on rear of this player.
- 2 Press SETUP to display the Setup Menu screen.
- 3 Press $\blacktriangle/ \bigtriangledown/ \checkmark/ \checkmark$ to select "Settings", then press ENTER.
- 4 Press ▲/▼ to select "USB Memory Management", then press ENTER.
 - "No USB Memory" appears when no USB memory is inserted.
- 5 Press ▲/▼, select "Erase" or "Format", then press ENTER.

Erase: Deletes only BD-VIDEO data written on the USB memory device such as BD-LIVE data.

- Format: Be aware that all data including BD-VIDEO data and software update data will be deleted.
- · If you want to delete only the unneeded software update data after the software is updated, delete the data on the USB memory device using a PC

	data on the COB momory device doing a ro.
	Erase Erases BD-VIDEO data on USB memory. Format Erase all contents on USB memory including protected contents.
• [NOTE ata which has been saved to the player's internal memory game score, etc.) will also be deleted.
6	Press ◄/▶ , select "Yes", and press ENTER .
	Yes No
7	Start the process.The screen for the current operation will display.
	Complete
8	Press ENTER.

Software Update

This function allows software updates by inserting a USB memory device with the update file into the BD STORAGE/SERVICE terminal on this player.

- When a software update is performed, the software update data must be written onto the USB memory device in advance using a PC.
- . The USB memory device must be clear of all files except software update data to allow new software uploading.

To check for the availability of a software update, visit www.sharpusa.com. If you have any questions, please call 1-800-BE-SHARP (800-237-4277).

- When software update data is released, copy the data onto a USB memory device after downloading it to a PC.
- Delete unneeded software update data using a PC after the software update process is completed.
- 1 Insert the USB memory device with the update file into the BD STORAGE/SERVICE terminal on rear of this player.
- 2 Press **SETUP** to display the Setup Menu screen.
- 3 Press $\blacktriangle / \checkmark / \checkmark / \checkmark$ to select "Settings", then press ENTER.
- 4 Press \blacktriangle/∇ to select "Software Update", then ENTER

If you have not yet set the password, go to step 6.

5 Enter the 4-digit number using 0-9.

6

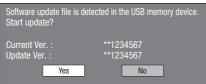




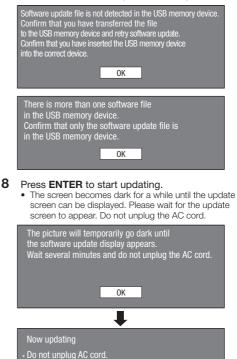
7



· The current version of this unit software and the version of the update file on the USB memory device are displayed. To update this player software with update file, select "Yes", and press ENTER.



· If the USB memory device is not properly installed or the correct update file cannot be found on the USB memory device, an error message is displayed. Check the file on the USB memory device, and then reinsert the USB memory device correctly.



30% 9 When the software is successfully updated, a

**1234567-2

- screen is displayed indicating that the update process is completed.
 - If the update has failed, check the file in the USB device and try Software Update again.
- **10** Press **POWER** to turn off the player.
- **11** Remove the USB memory device.

Update Version

Country Code List

USA / CANADA / JAPAN / GERMANY / FRANCE / UK / ITALY / SPAIN / SWISS / SWEDEN / HOLLAND / NORWAY / DENMARK / FINLAND / BELGIUM / HONG KONG / SINGAPORE / THAILAND / MALAYSIA / INDONESIA / TAIWAN / PHILIPPINE / AUSTRALIA / RUSSIA / CHINA

Language List

English / Français / Deutsch / Italiano / Español / Japanese / Svenska / Nederlands

Language Code List

AA Afar / AB Abkhazian / AF Afrikaans / AM Ameharic / AR Arabic / AS Assamese / AY Aymara / AZ Azerbaijani / BA Bashkir / BE Byelorussian / BG Bulgarian / BH Bihari / BI Bislama / BN Bengali, Bangla / BO Tibetan / BR Breton / CA Catalan / CO Corsican / CS Czech / CY Welsh / DA Danish / DE German / DZ Bhutani / EL Greek / EN English / EO Esperanto / ES Spanish / ET Estonian / EU Basque / FA Persian / FI Finnish / FJ Fiji / FO Faroese / FR French / FY Frisian / GA Irish / GD Scots Gaelic / GL Galician / GN Guarani / GU Gujarati / HA Hausa / HI Hindi / HR Croatian / HU Hungarian / HY Armenian / IA Interlingua / IE Interlingua / IK Inupiak / IN Indonesian / IS Icelandic/ IT Italian / IW Hebrew / JA Japanese / JI Yiddish / JW Javanese / KA Georgian / KK Kazakh / KL Greenlandic / KM Cambodian / KN Kannada / KO Korean / KS Kashmiri / KU Kurdish / KY Kirghiz / LA Latin / LN Lingala / LO Laothian / LT Lithuanian / LV Latvian, Lettish / MG Malagasy / MI Maori / MK Macedonian / ML Malayalam / MN Mongolian / MO Moldavian / MR Marathi / MS Malay / MT Maltese / MY Burmese / NA Nauru / NE Nepali / NL Dutch / NO Norwegian / OC Occitan / OM Afan (Oromo) / OR Oriya / PA Panjabi / PL Polish / PS Pashto, Pushto / PT Portuguese/ QU Quechua / RM Rhaeto-Romance / RN Kirundi / RO Romanian / RU Russian / RW Kinyarwanda / SA Sanskrit / SD Sindhi / SG Sangho / SH Serbo-Croatian / SI Singhalese / SK Slovak / SL Slovenian / SM Samoan / SN Shona / SO Somali / SQ Albanian / SR Serbian / SS Siswat / ST Sesotho / SU Sundanese / SV Swedish / SW Swahili / TA Tamil / TE Telugu / TG Tajik / TH Thai / TI Tigrinya / TK Turkmen / TL Tagalog / TN Setswana / TO Tonga / TR Turkish / TS Tsonga / TT Tatar / TW Twi / UK Ukrainian / UR Urdu / UZ Uzbek / VI Vietnamese / VO Volapuk / WO Wolof / XH Xhosa / YO Yoruba / ZH Chinese / ZU Zulu

About Output of Next Generation Audio Formats

Next generation	Maximum number of	н	ЭМІ	DIGITAL OUT		
audio formats	channels	PCM	Bitstream	РСМ	Bitstream	
Dolby TrueHD	7.1ch (48kHz/96kHz)	7.1ch *3	7.1ch *4	2ch *2	5.1ch *1/*3	
	5.1ch (192kHz)	5.1ch *3	5.1ch *4	2ch *2	5.1ch *1/*3	
Dolby Digital PLUS	7.1ch (48kHz)	7.1ch *3	7.1ch *4	2ch *2	5.1ch *1/*3	
DTS-HD Master Audio	7.1ch (48kHz/96kHz)	7.1ch *3	7.1ch *4	2ch *2	5.1ch *1/*3	
	5.1ch (192kHz)	5.1ch *3/*5	5.1ch *4	2ch *2	5.1ch *1/*3	
DTS-HD High Resolution Audio	7.1ch (48kHz/96kHz)	7.1ch *3	7.1ch *4	2ch *2	5.1ch *1/*3	
LPCM	7.1ch (48kHz/96kHz)	7.1ch *3	-	2ch *2	-	
	5.1ch (192kHz)	5.1ch *3	-	2ch *2	_	

*1 Core only

*2 Down mixed

*3 When "Secondary Audio" is set to "On", the audio is output as 48kHz.

*4 When "Secondary Audio" is set to "On", the audio is output as PCM.

*5 When 5.1ch (192kHz), the audio output is downsampled to 96kHz.

*5 When 2ch, the audio is output as 192kHz.

The following problems do not always suggest a defect or malfunction of this Player. Refer to the problems and lists of possible solutions below before calling for service.

Power

Problem	Possible causes and solutions		
The Player power cannot be turned on.	 Is the power cord firmly plugged into the AC outlet? (Page 19) When the power cord is plugged into an AC outlet, press and hold POWER on the Player until "R E E E." appears on the front panel display. Then, after the STANDBY indicator is lit, turn on the power. (Page 47) Press POWER after the STANDBY indicator turns on. (Page 20) 		
The Player power is turned off.	 Is "Auto Power Off" set to "Yes"? When "Auto Power Off" is set to "Yes", the power will be automatically turned off after 10 continuous minutes of inactivity (no playback). (Page 37) 		

Basic Operation

Problem	Possible causes and solutions	
The remote control does not work.	 Use the remote control within its operating range. (Page 19) Replace the batteries. (Page 19) Reset the remote control. Press and hold 1 (the number button) first and then ENTER on the remote control together for more than 5 seconds. 	
Cannot operate the Player.	 Are you operating the Player within the specified operating temperature range? (Page 50) 	

Disc Playback

Problem	Possible causes and solutions
The Player cannot play a disc.	 Take out the disc and clean it. (Page 9) Make sure that the disc is loaded properly (aligned in disc tray and label-side up). (Page 23) Make sure that region code on the disc matches that of this Player. (Page 6) Allow any condensation in or near the Player to dry. (Page 9) Check that the disc is recorded in the compatible TV system (PAL or NTSC). The Player cannot play back video which was not recorded normally. (Page 6) Proper playback may be impossible due to the state of the disc recording, a scratched, warped or dirty disc, the state of the pick-up, or compatibility issues between this Player and the disc being used. (Pages 6, 9) When the recorded time of a disc is unusually short, playback may not be possible. BD-RE/R discs recorded in a format other than BDMV/BDAV cannot be played back. (Page 6)
The disc is automatically ejected after closing the disc tray.	 Make sure that the disc is loaded properly (aligned in disc tray and label-side up). (Page 23) Take out the disc and clean it. (Page 9) Make sure that region code on the disc matches that of this Player. (Page 6) Make sure that the disc is playable. (Page 6)
Video stops.	 Has the Player been subjected to shock or impact? Are you using it in an unstable location? The Player will stop if it senses shock or vibration.
The Player makes a snapping sound when starting playback or loading a disc.	 The player may sometimes make a snapping sound when starting playback if it has not been operated in a while. These sounds are not malfunctions of the player but are normal operating conditions.

(Continued on the next page)

Appendix

Picture

Problem	Possible causes and solutions	
No picture.	 Make sure that the cables are connected correctly. (Pages 14–16) Make sure that the connected TV or the AV receiver is set to the correct input. (Pages 14–16) Take out the disc and clean it. (Page 9) Make sure that region code on the disc matches that of this Player. (Page 6) There is no picture from the HDMI output. Are the settings performed correctly? Please check the settings. (Page 36) There is no picture from the component video output. Are the settings performed correctly? Please check the settings. (Page 36) 	
Screen freezes and operation buttons do not work.	 Press STOP, then restart playback. Turn off the power and turn on the power again. If the power is not turned off, perform a reset. (Page 47) Is the disc damaged or dirty? Check the condition of the disc. (Page 9) 	
There is just audio with no video.	Is the connection cable for video output connected properly? (Pages 14–16)	
Widescreen video appears vertically stretched, or black bands appear at the top and bottom of the screen.	 Is "TV Aspect Ratio" set to match the connected TV? (Page 36) If you are using a widescreen TV, is the "TV Aspect Ratio" set to "Wide"? (Page 36) 	
Square noise (mosaic) appears on the screen.	 Blocks in images may be visible in scenes with rapid movement due to the characteristics of digital image compression technology. 	
The playback screen will be disturbed if DVD video is recorded to a VCR, or played back through a VCR.	 This Player complies with analog copy protection. Some discs contain a copy prohibiting signal. If you try to play back such discs through a VCR, or record to a VCR and play back the signal, the copy protection will prevent normal playback. (Pages 15–16) 	
Audio is not output, or images are not played back properly.	 The audio may not be output or the images may not be played back properly for some discs in which copyright-protected contents are recorded. 	

Sound

Problem	Possible causes and solutions
No sound, or sound is distorted.	 If the volume of the TV or amplifier is set to minimum, turn the volume up. There is no sound during still mode, slow motion playback, fast forward and fast reverse. (Page 29) DVD audio recorded in DTS is only output from the DIGITAL AUDIO OUT terminal. Connect a DTS compatible digital amplifier or decoder to the DIGITAL AUDIO OUT OPTICAL terminal on this Player. (Page 17) Check that the audio cable is connected correctly. (Page 17) Check that the cable plugs are clean. Take out the disc and clean it. (Page 9) Audio may not be output depending on the audio recording status, such as when audio other than an audio signal or non-standard audio is recorded for the audio content of the disc. (Page 6)
Left and right channels of audio are reversed, or sound comes out of only one side.	 Are left and right audio cables connected to the opposite terminal, or is one side disconnected? (Page 17)
Audio is not output, or images are not played back properly.	 The audio may not be output or the images may not be played back properly for some discs in which copyright-protected contents are recorded.

Network

Problem	Possible causes and solutions
Cannot connect to the Internet.	 Is the LAN cable connected properly? Is the wrong cable such as a modular cable used? Connect a LAN cable to the ETHERNET terminal. (Page 18) Is the power for the connected equipment, such as broadband router or modem turned on? Is the broadband router and/or modem properly connected? Is the proper value(s) set in the network setting? Check "Communication Setup". (Pages 39–41)

Network (Continued)

Problem	Possible causes and solutions
Cannot download BD-LIVE contents.	 Is the LAN cable connected properly? Is the USB memory device properly connected? Check that the USB memory device is connected to the BD STORAGE/SERVICE terminal of this Player. Check if the BD disc supports BD-LIVE. Check the setting for "BD Internet Access". (Page 38)

Other

Problem	Possible causes and solutions	
The TV operates incorrectly.	 Some TVs with wireless remote control capability may operate incorrectly when using the remote control of this Player. Use such TVs away from this Player. 	
The Player heats up during use.	When using this Player, the console cabinet may heat up depending on the usage environment. This is not a malfunction.	
STANDBY indicator will remain lit.	When the AC cord is removed from the outlet, the STANDBY indicator will remain lit for a short period. This is normal and is not a malfunction.	

To Reset this Player

- If this Player receives strong interference from a source such as excessive static electricity, strong external noise, malfunction
 of power supply, or voltage caused by lightning during use or a wrong operation is sent to the Player, errors like the Player not
 accepting an operation may occur. Press and hold **POWER** on the Player until "RESEL" appears on the front panel display
 when the Player does not operate properly even after the power has been turned off. Then, after the STANDBY indicator is lit,
 turn on the power.
- When a reset is performed while the power is on, the Player will turn off. Turn the power on again. At this point, it may take
 a few moments for the system processing to finish before the Player is ready for use. During the system processing, the
 BD/DVD/CD mode indicator on the front panel display of the Player will blink. Once the system processing has finished, the
 indicator will finish blinking and then light up normally. You can operate the Player when the BD/DVD/CD mode indicator is lit.
- Since all settings including the language setting stored in memory are also reset when a reset has been performed, they must be set again.
- When the problem persists even after performing a reset, unplug the AC cord and plug it in again. If this does not solve the problem, contact the nearest service center approved by SHARP.

On-screen Error Messages

Messages Relating to BD disc and DVD disc

The following messages appear on the TV screen in case the disc you tried to playback is not appropriate or the
operation is not correct.

Error message	Possible Error	Suggested Solution
Cannot play.	 The disc cannot be played back with this Player. 	Check the disc, and load it correctly.
Incompatible disc.	 If you load a disc which cannot be played with this Player (i.e. a scratched disc), or if you load a disc upside down, this message will appear, and the disc tray will automatically pop out. 	
	Occurs if the loaded disc cannot be played because it is a non-standard disc or scratched, etc.	Remove the disc.
Cannot operate.	Occurs if an operation is incorrect.	
This USB memory is not formatted properly. Please format the memory in USB memory management.	 Occurs if there is a formatting error. Occurs if the USB memory is not formatted with FAT 32/16. 	 Format the USB memory again. Format the USB memory with your PC.
The Connected USB Memory cannot be used. It should be compliant with USB 2.0	Occurs if USB memory not compliant with USB 2.0 High Speed (480Mbit/s) is used (i.e. USB 1.0/USB 1.1).	Connect USB 2.0 High Speed (480Mbit/s) compliant USB memory.

Glossary

BDAV (Page 6)

BDAV (Blu-ray Disc Audio/Visual, BD-AV) refers to one of the application formats used for writable Blu-ray discs such as BD-R, BD-RE, etc. BDAV is a recording format equivalent to DVD-VR (VR mode) of the DVD specifications.

BD-J application

The BD-ROM format supports Java for interactive functions. "BD-J" offers content providers almost unlimited functionality when creating interactive BD-ROM titles.

BD-LIVE (page 25)

A variety of interactive content is available from BD-LIVE compatible Blu-ray discs via the internet.

BDMV (page 6)

BDMV (Blu-ray Disc Movie, BD-MV) refers to one of the application formats used for BD-ROM which is one of the Blu-ray Disc specifications. BDMV is a recording format equivalent to DVD-video of the DVD specification.

BD-R (pages 6, 23)

A BD-R (Blu-ray Disc Recordable) is a recordable, write-once Blu-ray Disc. Since contents can be recorded and cannot be overwritten, a BD-R can be used to archive data or for storing and distributing video material.

BD-RE (pages 6, 23)

A BD-RE (Blu-ray Disc Rewritable) is a recordable and rewritable Blu-ray Disc.

BD-ROM

BD-ROMs (Blu-ray Disc Read-Only Memory) are commercially produced discs. Other than conventional movie and video contents, these discs have enhanced features such as interactive content, menu operations using pop-up menus, selection of subtitle display, and slide shows. Although a BD-ROM may contain any form of data, most BD-ROM discs will contain movies in High Definition format for playback on Blu-ray Disc players.

Blu-ray Disc (BD) (page 6)

A disc format developed for recording/playing high-definition (HD) video (for HDTV, etc.), and for storing large amounts of data. A single layer Blu-ray Disc holds up to 25 GB, and a dual-layer Blu-ray Disc holds up to 50 GB of data.

Chapter number (pages 33, 34)

Sections of a movie or a music feature that are smaller than titles. A title is composed of several chapters. Some discs may only be comprised of a single chapter.

Copy guard

This function prevents copying. You cannot copy discs marked by the copyright holder with a signal which prevents copying.

Disc menu (page 24)

This lets you select things like the subtitle language or audio format using a menu stored on the DVD video disc.

Dolby Digital

A sound system developed by Dolby Laboratories Inc. that gives movie theater ambience to audio output when the product is connected to a Dolby Digital processor or amplifier.

Dolby Digital Plus

A sound system developed as an extension to Dolby Digital. This audio coding technology supports 7.1 multi-channel surround sound.

Dolby TrueHD

Dolby TrueHD is a lossless coding technology that supports up to 8 channels of multi-channel surround sound for the next generation optical discs. The reproduced sound is true to the original source bit-for-bit.

DTS

This is a digital sound system developed by DTS, Inc. for use in cinemas.

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is a new technology developed for the next generation high definition optical disc format.

DTS-HD Master Audio

DTS-HD Master Audio is a lossless audio compression technology developed for the next generation high definition optical disc format.

DTS-HD Master Audio | Essential

DTS-HD Master Audio | Essential is a lossless audio compression technology developed for the next generation high definition optical disc format.

DVD upscaling (page 23)

Upscaling (upconverting) refers to a function of various players and devices that enlarge the image size to fit the size of the screen of video equipments such as a TV.

DVD video (pages 6, 23)

A disc format that contains up to eight hours of moving pictures on a disc the same diameter as a CD. A single-layer single sided DVD holds up to 4.7 GB; a double layer singlesided DVD, 8.5 GB; a single layer double-sided DVD, 9.4 GB; double-layer double-sided DVD, 17 GB. The MPEG 2 format was adopted for efficient video data compression. It is a variable rate technology that encodes the data to according to the status of the video for reproducing high-quality images. Audio information is recorded in a multi-channel format such as Dolby Digital, allowing for a realistic audio presence.

DVD+/-R (pages 6, 23)

A DVD+/-R is a recordable, write-once DVD. Since contents can be recorded and cannot be overwritten, a DVD+/-R can be used to archive data or for storing and distributing video material. The DVD+/-R has two different formats: VR format and Video format. DVDs created in Video format have the same format as a DVD video, while discs created in VR (Video Recording) format allow the contents to be programed or edited.

DVD+/-RW (pages 6, 23)

A DVD+/-RW is a recordable and rewritable DVD. The rerecordable feature makes editing possible. The DVD+/-RW has two different formats: VR format and Video format. DVDs created in Video format have the same format as a DVD video, while discs created in VR (Video Recording) format allow the contents to be programed or edited.

HDMI (page 14)

HDMI (High-Definition Multimedia Interface) is an interface that supports both video and audio on a single digital connection. The HDMI connection carries standard to high definition video signals and multi-channel audio signals to AV components such as HDMI equipped TVs, in digital form without degradation.



Glossary

Interlace format

Interlace format shows every other line of an image as a single "field" and is the standard method for displaying images on television. The even numbered field shows the even numbered lines of an image, and the odd numbered field shows the odd numbered lines of an image.

JPEG (pages 6, 7, 32)

JPEG (Joint Photographic Experts Group) is a still image data compression format and is used in most of digital cameras.

Letter Box (LB 4:3) (page 36)

A screen size with black bars on the top and bottom of the image to allow viewing of wide-screen (16:9) material on a connected 4:3 TV.

Linear PCM Sound

Linear PCM is a signal recording format used for Audio CDs and on some DVD and Blu-ray discs. The sound on Audio CDs is recorded at 44.1 kHz with 16 bits. (Sound is recorded between 48 kHz with 16 bits and 96 kHz with 24 bits on DVD video discs and between 48 kHz with 16 bits and 192 kHz with 24 bits on BD video discs.)

MPEG-2

MPEG-2 (Moving Picture Experts Group phase 2) is one of the video data compression schemes, which is adopted for DVD videos and digital broadcasts worldwide. Some Blu-ray Discs also use high bitrate MPEG-2.

Multi Angle (pages 31, 33, 34)

This is a feature of DVD and BD video discs. In some discs, the same scene is shot from different angles, and these are stored in a single disc so you can enjoy playback from each angle. (This function can be enjoyed if the disc is recorded with multiple angles.)

Multi Audio

This is a feature of DVD and BD video discs. This function makes it possible to record different audio tracks for the same video, so you can enhance your enjoyment by switching the audio. (You can enjoy this function with discs recorded with multiple audio tracks.)

Pan Scan (PS 4:3) (page 36)

A screen size that cuts off the sides of the image to allow viewing of wide-screen (16:9) material on a connected 4:3 TV.

Parental control (page 38)

In some digital broadcasts and BD/DVD video discs, a control level for disc viewing is set depending on the age of the viewer. With this Player, you can set the control level for viewing such broadcasts and discs.

Pop-up menu (page 24)

An enhanced menu operation available on BD video discs. The pop-up menu appears when **POP-UP MENU** is pressed during playback, and can be operated while playback is in progress.

Progressive format

Compared to the Interlace format that alternately shows every other line of an image (field) to create one frame, the Progressive format shows the entire image at once as a single frame. This means that while the Interlace format can show 30 frames/60 fields in one second, the Progressive format can show 60 frames in one second. The overall picture quality increases and still images, text, and horizontal lines appear sharper.

Region code (page 6)

Code identifying a geographic region of compatibility for a BD/DVD.

Resume playback (pages 23, 28)

If you stop playback while it is in progress, the Player stores the stop position in memory, and this function lets you playback from that point.

Skip (page 29)

This returns to the start of the chapter (or track) being played, or skips to the next chapter (or track).

Subtitles (pages 30, 33, 34)

These are the lines of text appearing at the bottom of the screen which translate or transcribe the dialog. They are recorded on many DVD and BD video discs.

Time number

This indicates the play time which has elapsed from the start of a disc or a title. It can be used to find a specific scene quickly. (It may not work with some discs.)

Title number (pages 33, 34)

These numbers are recorded on DVD and Blu-ray discs. When a disc contains two or more movies, these movies are numbered as title 1, title 2, etc.

Top menu (page 24)

In a BD/DVD video, this is the menu for selecting things like the chapter to be played back and the subtitle language. In some DVD videos, the top menu may be called the "Title Menu".

Track number (pages 33, 34)

These numbers are assigned to the tracks which are recorded on audio CDs. They enable specific tracks to be located quickly.

x.v.Color

x.v.Color reproduces a greater range of color than before, showing almost all of the colors that the human eye can detect. (Applicable for JPEG files only with this system)

Specifications

General

Power supply	AC 120V, 60Hz
Power consumption (Normal)	24 W
Power consumption (Standby)	0.4 W (When "Quick Start" is set to "No")
Dimensions	Approx. 16 59 / ₆₄ \times 2 11 / ₁₆ \times 13 3 / ₁₆ inch (W \times H \times D) Approx. 430 mm \times 68 mm \times 335 mm (W \times H \times D)
Weight	Approx. 8.6 lbs. (3.9 kg)
Operating temperature	41°F to 95°F (5°C to 35°C)
Storage temperature	-4°F to 131°F (-20°C to 55°C)
Operating humidity	10 % to 80 % (no condensation)
TV systems	NTSC system

Playback

BD-ROM, BD-RE Dual Layer, BD-R Dual Layer, DVD Video, DVD+RW/-R/-RW/-R Dual Layer (Video/VR format), Audio CD (CD-DA), CD-RW/R (CD-DA, JPEG file format)
Audio CD (CD-DA), CD-RW/R (CD-DA, JPEG file format)

Input/Output

HDMI	HDMI 19-pin standard connector (1080p 24Hz output) HDMI™ (V.1.3 with x.v.Color, Dolby TrueHD, DTS-HD Master Audio Essential)
Component video output	Output level: Y: 1 Vp-p (75 ohms) P _B /C _B , P _F /C _R : 0.7 Vp-p (75 ohms) Jacks: RCA jack
Video output	Output level: 1 Vp-p (75 ohms) Jack: RCA-pin jack
Digital audio optical output	Terminal: Square Optical terminal
Audio output	Output level: 2 V rms (Output impedance: 1k ohms) Jacks: RCA jack
USB input	USB 2.0 High Speed (480Mbit/s) correspondence (for Local storage/Software update)
ETHERNET	10BASE-T/100BASE-TX

Specifications are subject to change without notice.

CONSUMER LIMITED WARRANTY

(Valid for warranty service in the U.S. and PUERTO RICO only)

CONSUMER LIMITED WARRANTY

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Model Specific Section	
Your Product Model Number & Description:	BD-HP210U BLU-RAY DISC PLAYER (Be sure to have this information available when you need service for your Product.)
Warranty Period for this Product:	One (1) year parts and labor from the date of purchase.
Additional Item(s) Excluded from Warranty Coverage (if any):	Non-rechargeable batteries.
Where to Obtain Service:	From a Sharp Authorized Servicer located in the United States. To find the location of the nearest Sharp Authorized Servicer, call Sharp toll free at 1-800-BE-SHARP.
What to do to Obtain Service:	Please transport the Product in its original packaging and ensure that the Product is covered to avoid scratches and damage. Sharp shall not be responsible for lost, stolen or misdirected mail or for damage to the product incurred during shipping.
TO OBTAIN PRODUCT INFORMATION CAL	1-800-BE-SHARP OB VISIT www.sharpusa.com



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