

Pioneer

Operating Instructions

Blu-ray
3D™


Blu-ray Disc™

BD  *LIVE*™

DVD
VIDEO

HDMI

Blu-ray 3D™ PLAYER

BDP-LX54

BDP-430

OPERATING INSTRUCTIONS

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly.
After you have finished reading the instructions, put them away in a safe place for future reference.

IMPORTANT



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

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:

TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

D3-4-2-1-1_A1.En

CAUTION

This product is a class 1 laser product classified under the Safety of laser products, IEC 60825-1:2007.

CLASS 1 LASER PRODUCT
APPAREIL À LASER DE CLASSE 1

D58-5-2-2a_A1.En

WARNING

This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filled with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.

D3-4-2-1-3_A1.En

WARNING

Before plugging in for the first time, read the following section carefully.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel.

D3-4-2-1-4*_A1.En

VENTILATION CAUTION

When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 10 cm at top, 10 cm at rear, and 10 cm at each side).

WARNING

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed.

D3-4-2-1-7b*_A1.En

Operating Environment

Operating environment: temperature and humidity: +5 °C to +35 °C (+41 °F to +95 °F); less than 80 %RH (cooling vents not blocked)

Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light)

D3-4-2-1-7c*_A1.En

If the AC plug of this unit does not match the AC outlet you want to use, the plug must be removed and appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. If connected to an AC outlet, the cut-off plug can cause severe electrical shock. Make sure it is properly disposed of after removal.

The equipment should be disconnected by removing the mains plug from the wall socket when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-1a_A1.En

CAUTION

The **STANDBY/ON** switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-2a*_A1.En

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

5002*_A1.En

WARNING

To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment.

D3-4-2-1-7a_A1.En

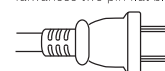
DEAR Pioneer CUSTOMER

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period.

K041_A1.En

For Taiwan exclusively

Taiwanese two pin flat-bladed plug



K056_A1.En

Information for users on collection and disposal of old equipment and used batteries

(Symbol for equipment)



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

These symbols are only valid in the European Union.

For countries outside the European Union:

If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

K058a_A1.En

(Symbol examples for batteries)



For U.K. model:

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

IMPORTANT: THE MOULDED PLUG

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be obtained from your local dealer.

If the fitted moulded plug is unsuitable for your socket outlet, then the fuse shall be removed and the plug cut off and disposed of safely. This is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.

If a new plug is to be fitted, please observe the wiring code as shown below. If in any doubt, please consult a qualified electrician.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

Blue : Neutral Brown : Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

How to replace the fuse: Open the fuse compartment with a screwdriver and replace the fuse.



D3-4-2-1-2*_A2.En

Cautions on 3D Viewing

- If you should experience any fatigue or discomfort while viewing 3D images, stop viewing them.
- Children, particularly those under 6, may be more prone to sensitivity, so guardians should watch for any signs of fatigue or discomfort.
- When viewing 3D images, rest periodically. Extended viewing of 3D images without rest periods could cause fatigue or discomfort.

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

Important Notice

The Icons Used in This Operating Instructions

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.
AVCHD	Indicates the functions that can be performed for DVD discs in AVCHD format.
AUDIO CD	Indicates the functions that can be performed for Audio CDs.
CD-RW	Indicates the functions that can be performed for CD-RW discs.
CD-R	Indicates the functions that can be performed for CD-R discs.
USB	Indicates functions that can be used when playing USB memory devices.

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 Item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rowi Corporation. Reverse engineering and disassembly are prohibited.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- Manufactured under license under U.S. Patent #s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio | Essential and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.
- "Blu-ray Disc", "Blu-ray" and "Blu-ray Disc" are trademarks of Blu-ray Disc Association.
- "BD-LIVE" logo is trademark of Blu-ray Disc Association.
- DVD** is a trademark of DVD Format/Logo Licensing Corporation.

HDMI

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

x.v.Colour

x.v.Color

- "x.v.Color", **x.v.Colour** and **x.v.Color** are trademarks of Sony Corporation.



- Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

BONUSVIEW™

- "BONUSVIEW" is trademark of Blu-ray Disc Association.



- This label indicates playback compatibility with DVD-RW discs recorded in VR format (Video Recording format). However, for discs recorded with a record-only-once encrypted program, playback can only be achieved using a CPRM compatible device.



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













- DivX®, DivX Certified® and associated logos are trademarks of DivX, Inc. and are used under license.

This product incorporates the LC Font (duplication inhibited) that has been designed by Sharp Corporation in considering the ease of viewing and reading on the display. The "LC Font", "LC FONT" and the "LC" logo mark are trademarks of Sharp Corporation. Also note that the product partially uses fonts other than the LC Font.

About Discs

Types of Discs that Can Be Used with This Player

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 Type		Conditions for playback	Disc size	Recording format	Playable contents		
BD	 BD VIDEO	For region code, see page 31.	12 cm	BDMV	Audio + video (movie)		
	 ¹	Ver. 2.1, SL (single layer)/DL (dual layer)		BDAV ^{2,3} BDMV DIX WMV MKV			
	 ¹	Ver. 1.1, SL (single layer)/DL (dual layer) Ver. 1.2, SL (single layer)/DL (dual layer) Ver. 1.2, LTH TYPE Ver. 1.3, SL (single layer)/DL (dual layer) Ver. 1.3, LTH TYPE		MP3 WMA		Audio	
DVD	 DVD VIDEO	For region code, see page 31.	12 cm 8 cm ^{4,5}	Video	Audio + video (movie)		
	 DVD-RW		12 cm 8 cm ^{4,5}	VR Video ^{2,3} AVCHD DIX WMV MKV	Audio + video (movie)		
	 DVD-R			MP3 WMA	Audio		
	 DVD-R DL			JPEG	Still picture		
	DVD+RW, DVD+R, DVD+R DL		12 cm 8 cm ^{4,5}		Video ^{2,3} AVCHD DIX WMV MKV	Audio + video (movie)	
					MP3 WMA	Audio	
		JPEG			Still picture		
CD	 AUDIO CD		12 cm 8 cm ^{4,5}	Music CD	Audio		
	 CD-RW			12 cm 8 cm ^{4,5}	DIX WMV MKV	Music CD MP3 WMA	Audio + video (movie) Audio
	 CD-R					JPEG	Still picture

¹ BD-RE/BD-R discs containing both the BDMV and BDAV formats cannot be played.

² Extended play (H.264 format) discs recorded on Pioneer BD recorders can also be played.

³ Finalized discs can be played.

⁴ 96 kHz linear PCM audio is converted into 48 kHz linear PCM audio for output.













⁵ When playing a 8 cm disc, set the disc in the disc tray's 8 cm disc ring. No adapter is necessary.

NOTE

- Operation and functions of BD/DVD-Video discs may differ from the explanations in this manual. Furthermore, some functions may not be usable, at the disc manufacturer's discretion.
- "Finalize" refers to a recorder processing a recorded disc so that it will play in other players/recorders as well as this player. Only finalized 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

- In the cases below, even discs that can normally be played on this Player may not play at all or may not play normally.

 BD VIDEO	<ul style="list-style-type: none"> • Discs with region codes other than those indicated on page 31 cannot be played. • Discs on which the region code is not indicated can sometimes be played, if they are recorded in PAL or NTSC format. • Discs in SECAM format.
 BD-RE	<ul style="list-style-type: none"> • Discs that have not been finalized • BD-RE Ver.1.0 discs cannot be played on this Player. • Cartridge type discs cannot be played.
 BD-R	
 DVD VIDEO	<ul style="list-style-type: none"> • Discs with region codes other than those indicated on page 31 (discs not of official sales regions) cannot be played. • Discs in SECAM format • Unauthorized discs (pirated discs) • Professional-use discs
 DVD-RW	<ul style="list-style-type: none"> • Discs on which no data is recorded • Discs recorded in AVCREC format • Some discs may not be playable, depending on the recorder used for recording them. • Discs that have not been finalized • In some cases it may not be possible to play discs containing both music/video files and still pictures (JPEG files). <p>Also, some discs are not playable under any circumstances. It may not be possible to play the following discs.</p> <ul style="list-style-type: none"> • DVD-R (VR format) discs • DVD-R DL (dual layer) discs • DVD+R DL (dual layer) discs
 DVD+RW	
 DVD+R	
 CD-RW	<ul style="list-style-type: none"> • Discs on which no data is recorded • Discs that have not been finalized • Multisession discs • In some cases it may not be possible to play discs recorded in formats other than music CD, JPEG and MP3, or discs containing both music/video files and still pictures (JPEG files). <p>Also, some discs are not playable under any circumstances.</p> <ul style="list-style-type: none"> • Discs may not be playable due to the disc's recording conditions or the conditions of the disc itself. • Discs may not be playable for reasons of compatibility with this Player or due to the recorder used for recording them.
 CD-R	
 AUDIO CD	<ul style="list-style-type: none"> • In some cases, CDs containing signals designed to protect copyrights (copy control signals) may not be playable. • In some cases, discs containing both DTS and linear PCM audio may not be playable. <p>This product is designed on the premise of playing music CDs that comply with CD (Compact Disc) standards.</p>
 Video CD	<ul style="list-style-type: none"> • Video CDs cannot be played on this Player.
 DTS CD	<ul style="list-style-type: none"> • Some discs, such as discs containing linear PCM audio tracks in addition to other tracks, may not play normally.

Discs other than the above that cannot be played

- CDG¹
- Photo-CD
- CD-ROM
- CD-TEXT¹
- CD-EXTRA¹
- SACD
- PD
- CDV
- CVD
- SVCD
- DVD-RAM
- DVD-Audio
- HD DVD

¹ Only the audio can be played.

About discs with unusual shapes

Discs with unusual shapes (heart-shaped, hexagonal, etc.), cannot be played on this Player. Attempting to play such discs may damage the player. Do not use such discs.



BD Video

Enjoy BD-specific functions including BONUSVIEW (BD-ROM Profile 1 Version 1.1), such as picture-in-picture, and BD-LIVE (page 15).

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.

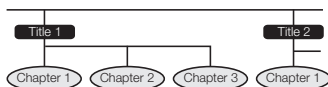
NOTE

- 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.)

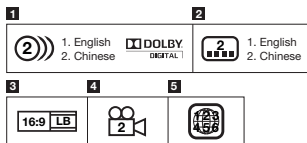
Example 1: Blu-ray disc or DVD



Example 2: Audio CD



Icons Used on DVD Video Disc Cases



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 DVD discs are scenes which have been simultaneously shot from up to 9 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).

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

Place the disc in the center of the disc case and store the case and disc upright.	
Avoid storing discs in locations subject to direct sunlight, close to heating appliances or in locations of high humidity.	
Do not drop discs or subject them to strong vibrations or impacts.	
Avoid storing discs in locations where there are large amounts of dust or moisture.	

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.

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 Pioneer 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.

About Files

DVD-RW | DVD-R | CD-RW | CD-R | USB

About Playing Video Files

NOTE

- Some files may not be playable, depending on how the medium or file was created.

About Playing DivX® Files

DivX® files can be played.

ABOUT DIVX VIDEO:

DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX video.

About Playing MKV Files

MKV files can be played.

- MKV is a file format allowing multiple audio and video files to be held in a single file.
- The files that can be played are as follows:
 - Resolution: Up to 1 280 x 720
 - Extension: “.mkv” or “.MKV”

About Playing Windows Media™ Video (WMV) Files

Windows Media™ Video (WMV) files can be played.

- The files that can be played are as follows:
 - Resolution: Up to 1 280 x 720
 - Extension: “.wmv” or “.WMV”
- Files encoded using the Windows Media™ Encoder 9 series are supported.
- Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from Microsoft Licensing, Inc.

About Playing Audio Files

Windows Media™ Audio (WMA) files and MP3 can be played.

- The files that can be played are as follows:
 - Sampling frequency: 32 kHz, 44.1 kHz and 48 kHz
 - Bit rate: Up to 320 kbps (128 kbps or greater recommended)
 - Extension: “.wma” or “.WMA”, “.mp3” or “.MP3”
- ID3 tags embedded in MP3 files are not supported.
- The total playing time may not be displayed properly on the screen when files in VBR format are played.
- Some files may not be playable, depending on how the medium or file was created.

About Playing Image Files

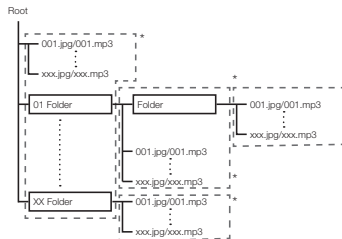
JPEG files can be played.

- The files that can be played are as follows:
 - Conforming to baseline JPEG and Exif 2.2 standards
 - Extension: “.jpg” or “.JPG”, “.jpeg” or “.JPEG”
 - Resolution: Up to 4 000 x 3 000 pixels (24 bits)
- Motion JPEG and progressive JPEG files cannot be played.
- Some files may not be playable, depending on how the medium or file was created.

About Video, Audio, and Image Files and Folders

Audio and image files can be played on this Player when the folders on the disc or USB memory device are created as described below.

Example of folder structure:

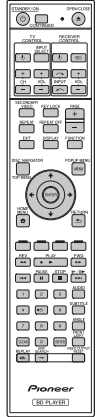
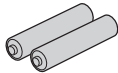
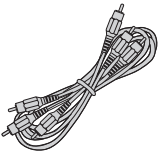


*: The number of folders and files within a single folder (including the root directory) is limited to a maximum of 256. Also, keep the number of folder layers to a maximum of 5.

NOTE

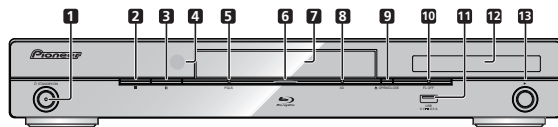
- The file and folder names displayed on this Player may differ from those displayed on a computer.

Checking the Accessories

Remote control unit	*AAA/R03* size battery (x2)	<ul style="list-style-type: none">• AC cord• Warranty card (European and Russian models only)• Operating instructions (this document)
		
	Video/audio cable	
		

Names and Functions of Parts

Main Unit (Front)



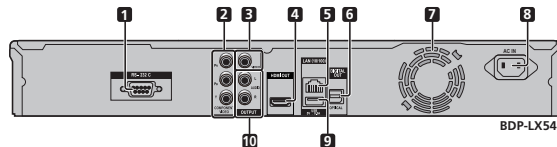
- | | |
|--|---|
| <ol style="list-style-type: none"> 1 STANDBY/ON (page 12)
The indicator lights when the power is on. (BDP-LX54 only) 2 (STOP) (page 14) 3 (PAUSE) (page 17) 4 Remote control sensor (page 11) 5 PQLS indicator (page 13) 6 Blu-ray indicator
Lights when the power is on. | <ol style="list-style-type: none"> 7 Disc tray (page 14) 8 3D indicator (page 21) 9 OPEN/CLOSE (page 14) 10 FL OFF indicator (page 13) 11 USB port (pages 11 and 23) 12 Front panel display (See below.) 13 (PLAY) (page 14) |
|--|---|

Front Panel Display



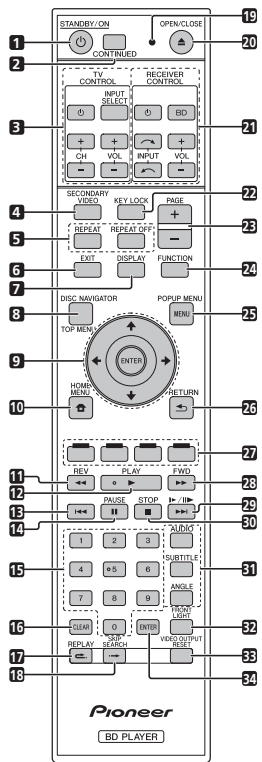
- | | |
|---|---|
| <ol style="list-style-type: none"> 1 Lights during playback. 2 Lights when in the pause mode. | <ol style="list-style-type: none"> 3 Counter display
Displays the title, chapter, track number, elapsed time, etc. |
|---|---|

Main Unit (Rear)



- | | |
|---|--|
| <ol style="list-style-type: none"> 1 RS-232C terminal (BDP-LX54 only)
The terminal is not used. 2 COMPONENT VIDEO OUTPUT jacks (page 9) 3 VIDEO OUTPUT jack (page 10) 4 HDMI OUT terminal (page 9) 5 LAN (10/100) terminal (page 11) | <ol style="list-style-type: none"> 6 DIGITAL OUT OPTICAL terminal (page 10) 7 Cooling fan
The cooling fan operates while the power to the Player is on. 8 AC IN terminal (page 11) 9 USB port (pages 11 and 23) 10 AUDIO OUTPUT jacks (page 10) |
|---|--|

Remote Control Unit



- 1 ○ STANDBY/ON (page 12)
- 2 CONTINUED (page 19)
- 3 TV CONTROL buttons (page 12)
- 4 SECONDARY VIDEO (page 15)
- 5 REPEAT (page 18), REPEAT OFF (page 18)
- 6 EXIT (pages 12 and 20)
- 7 DISPLAY (pages 14 and 18)
- 8 TOP MENU/DISC NAVIGATOR (pages 14 and 15)

- 9 Cursor buttons (↑/↓/←/→), ENTER (pages 12 and 20)
- 10 HOME MENU (pages 12 and 20)
- 11 ◀◀ REV (page 17)
- 12 ▶▶ PLAY (page 14)
- 13 ◀◀ (pages 15 and 17)
- 14 || PAUSE (page 17)
- 15 Number buttons (page 19)
- 16 CLEAR (page 19)
- 17 ◀◀ REPLAY (page 17)
- 18 ⇐ SKIP SEARCH (page 17)
- 19 Remote control LED
Lights when a command is sent from the remote control. Flashes while the TV brand code is being set.
- 20 ▲ OPEN/CLOSE (page 14)
- 21 RECEIVER CONTROL buttons
Used to operate a Pioneer AV receiver.
○ – Turns the AV receiver's power on and off.
BD – Switches the AV receiver's input to "BD".
INPUT ↻ – The AV receiver's input switches each time this is pressed.
VOL +/- – Press to adjust the volume.
- 22 KEY LOCK (See below.)
- 23 PAGE +/- (page 15)
- 24 FUNCTION (page 19)
- 25 POPUP MENU/MENU (page 14)
- 26 ⇐ RETURN (page 20)
- 27 Color buttons (page 15)
- 28 ▶▶ FWD (page 17)
- 29 ▶▶/||/▶ (pages 15 and 17)
- 30 ■ STOP (page 14)
- 31 AUDIO (page 18), SUBTITLE (page 18), ANGLE (page 18)
- 32 FRONT LIGHT (page 13)
- 33 VIDEO OUTPUT RESET (page 20)
- 34 ENTER (pages 12 and 20)

Keylock function

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

- Press and hold **KEY LOCK** for more than 2 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" lights on the front panel display to indicate that the keylock function is set.

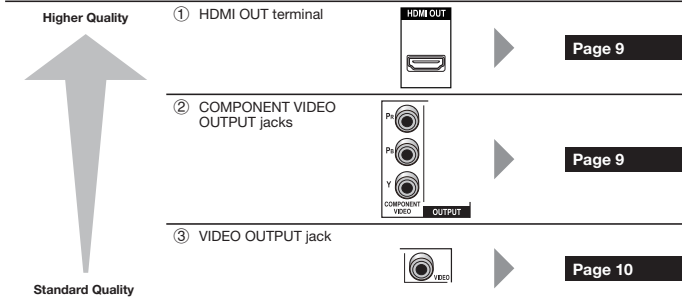
NOTE

- This remote control unit is equipped with two **ENTER** buttons (9 and 34 listed above).
- To operate an AV receiver equipped with a remote control mode setting using the RECEIVER CONTROL buttons, set the AV receiver's remote control mode to "1". For details, see the AV receiver's operating instructions.

Connections

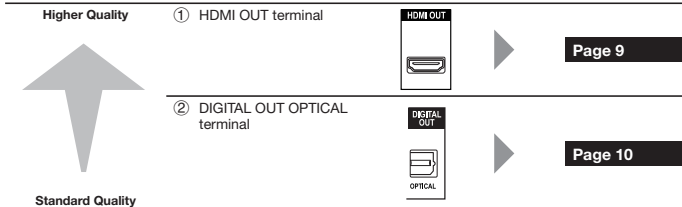
Be sure to turn off the power and unplug the power cord from the power outlet whenever making or changing connections.
This Player is equipped with the terminals/jacks listed below. Find the corresponding terminal/jack on your video equipment. Using the supplied cable or commercially available cables, connect the video first. Then connect the audio.

Video terminals/jacks on this Player

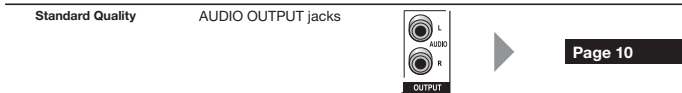


Audio terminals/jacks on this Player

Digital audio connection



Analog audio connection



Broadband Internet connection

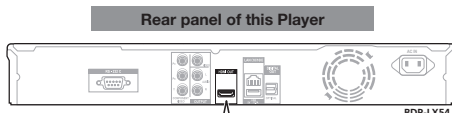


Connecting to the HDMI Terminal

- You can enjoy high quality digital picture and sound through the HDMI terminal.
- For details on digital audio output formats (PCM/bitstream), refer to the digital audio output format selection table on page 25.
- Use High Speed HDMI® Cables when using the control function with HDMI. The control function with HDMI may not operate properly if other HDMI cables are used.

STEPS

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



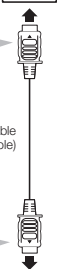
Rear panel of this Player

NOTE

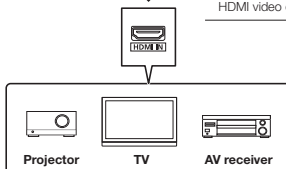
- Audio transmitted in DTS-HD High Resolution Audio and DTS-HD Master Audio formats is output from the HDMI terminal as Bitstream. Connect an amplifier with a built-in decoder to enjoy the fine sound quality.

- When using an HDMI output, 7.1 ch Digital Output is available.

①
To HDMI OUT terminal



②
To HDMI IN terminal



Equipment with an HDMI terminal

Selecting the priority video output when connecting HDMI and Component video

When you connect both an HDMI cable and a component cable to this player, you need to select the priority video output in "Settings" – "Audio Video Settings" – "Video Out Select". (See page 20.)

NOTE

- When you connect the player to a Pioneer TV with an HDMI cable only and the TV is turned on, the video output switches to HDMI automatically. (The above setting is unnecessary.)
- When you connect the player to a TV with an HDMI cable, "HDMI Video Out" is set to "Auto". If you don't get a stable image, select the desired resolution.
- When you set "HDMI Video Out" to a setting other than "Auto", you can only select resolutions that are compatible with the connected TV.
- Refer to "HDMI Video Out" on page 20 regarding the resolutions of the HDMI video output.

Video signal outputs:

1080p	24 Hz	720p	50 Hz/60 Hz
1080p	50 Hz/60 Hz	576p	50 Hz
1080i	50 Hz/60 Hz	480p	60 Hz

For example;

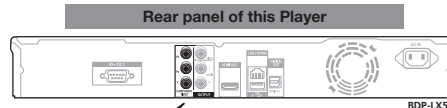
- 1080p: 1080 progressive scan
- 1080i: 1080 interlace scan

Connecting to the Component Jacks

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

STEPS

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



Rear panel of this Player

Video signal outputs:

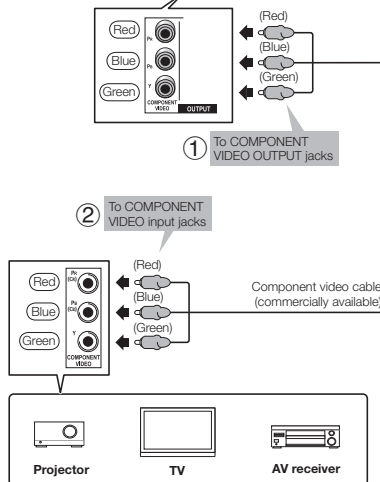
1080i	50 Hz/60 Hz	576i	50 Hz
720p	50 Hz/60 Hz	480p	60 Hz
576p	50 Hz	480i	60 Hz

For example;

- 480p: 480 progressive scan
- 480i: 480 interlace scan

CAUTION

- You need to select the priority video output in "Settings" – "Audio Video Settings" – "Video Out Select". (See page 20.)
- When the priority video output is set to "HDMI" in "Video Out Select", the video resolution which is output from the COMPONENT VIDEO OUTPUT jacks is the one set in "HDMI Video Out". (See page 20.)
- When the output from the COMPONENT VIDEO OUTPUT jacks is prioritized, set the priority video to "Component".



Video equipment with component jacks

After connecting

- Connect audio equipment or the audio terminals of the TV. (Page 10)

After connecting

- If desired, connect audio equipment. (Page 10)
- Load a disc and start playback. (Page 14)
- Refer to control function with HDMI. (Pages 13 and 21)

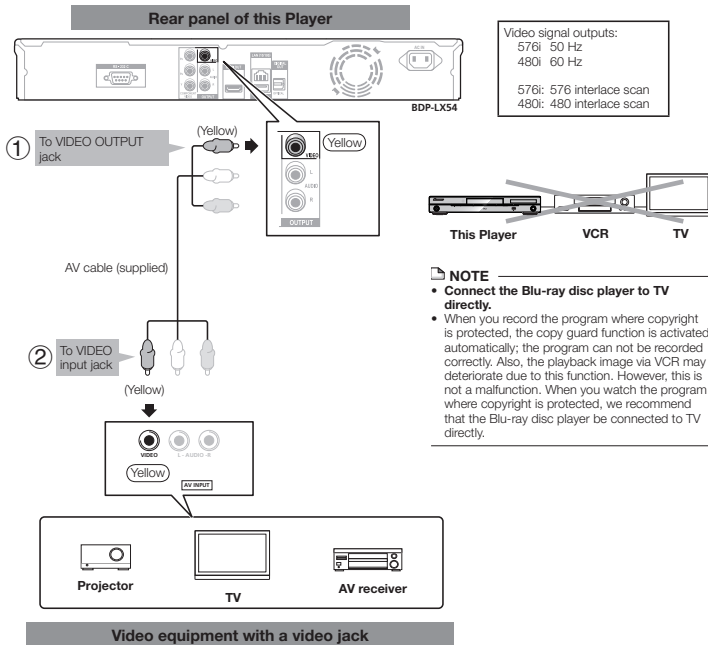
Connections

Connecting to the Video Jack

You can enjoy the images through the VIDEO OUTPUT 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

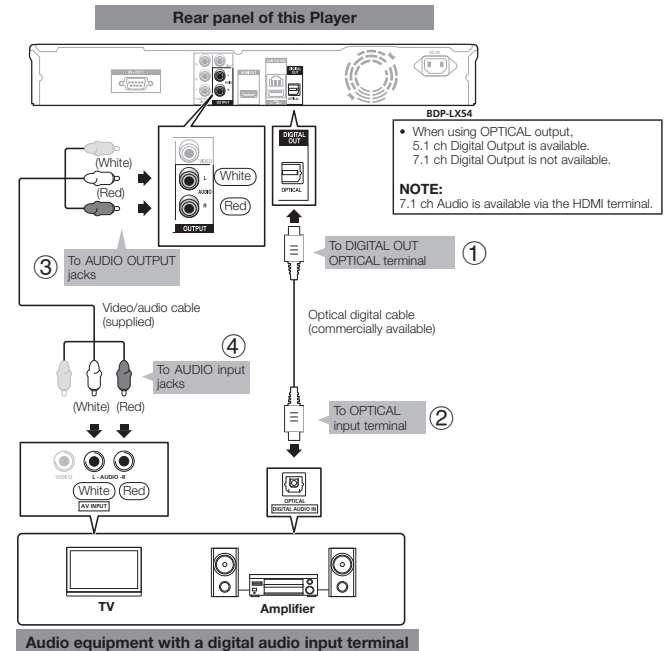
- Connect audio equipment or the audio terminals of the TV. (Page 10)

Connecting to the Digital Audio Terminal or Audio Jacks

- You can connect audio equipment or the TV to the DIGITAL OUT OPTICAL terminal or AUDIO OUTPUT jacks.
- For details on digital audio output formats (PCM/bitstream), refer to the digital audio output format selection table on page 25.

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).



After connecting

- Load a disc and start playback. (Page 14)

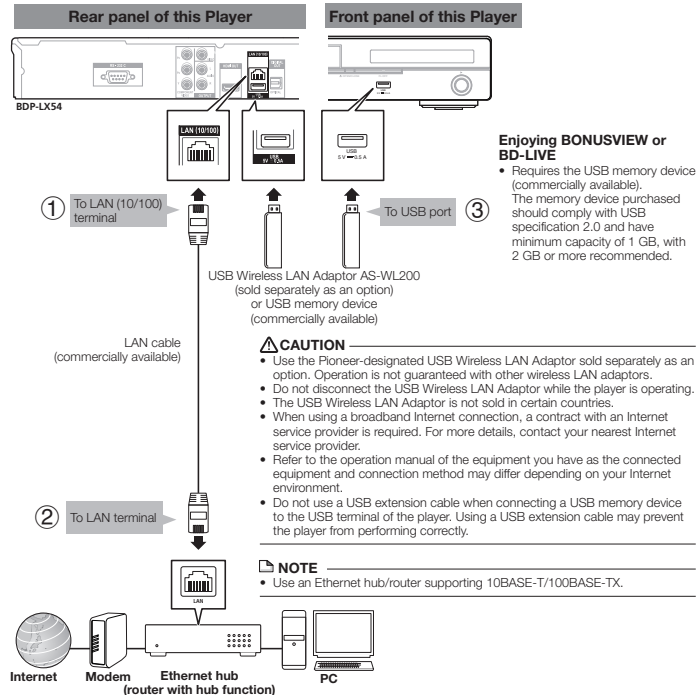
Connections

Connecting to the LAN (10/100) terminal

- By connecting to the Internet, you can enjoy BD-LIVE functions as well as update this Player's software.
- When using the Internet, a broadband internet connection as shown below is required.
- A separate contract with/payment to an Internet service provider is required to use the Internet.

STEPS

- 1 Be sure to turn off this Player and the equipment before making any connections.
- 2 Either securely connect a LAN cable (commercially available) to the LAN (10/100) terminal (①) and (2) or insert an AS-WL200 USB Wireless LAN Adaptor (sold separately as an option) into the USB port on this Player's rear panel (3). Insert the wireless LAN adaptor into the USB port on this Player's rear panel. When doing this, connect the USB memory device for BD-LIVE operations to the Player's front panel.



Example of a Broadband Internet Connection

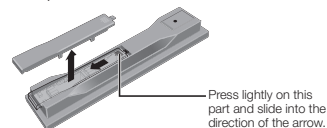
After connecting

- Perform the communication setting. (Page 22)
- Load a BD-LIVE compatible disc and play back the contents. (Page 14)

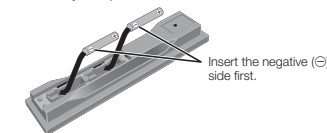
Before Starting Playback

Loading the Batteries in the Remote Control

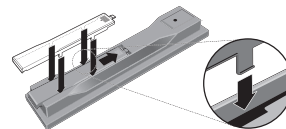
- 1 Open the rear cover.



- 2 Insert the batteries (AAA/R03 x 2). Insert as indicated by the ⊕/⊖ marks into the battery compartment.



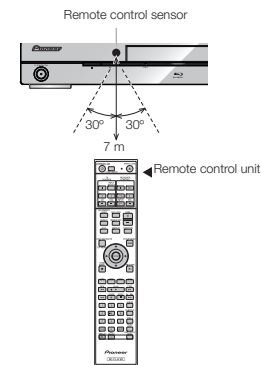
- 3 Close the rear cover. Close securely (a click should be heard).



CAUTION

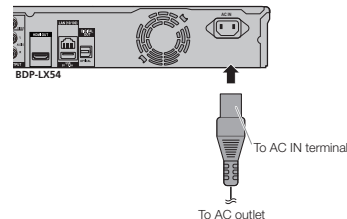
- Do not use any batteries other than the ones specified. Also, do not use a new battery together with an old one.
- When loading the batteries into the remote control, set them in the proper direction, as indicated by the polarity marks (⊕ and ⊖).
- Do not heat batteries, disassemble them, or throw them into flames or water.
- Batteries may have different voltages, even if they look similar. Do not use different kinds of batteries together.
- To prevent leakage of battery fluid, remove the batteries if you do not plan to use the remote control for a long period of time (1 month or more). If the fluid should leak, wipe it carefully off the inside of the case, then insert new batteries. If a battery should leak and the fluid should get on your skin, flush it off with large quantities of water.
- When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.
- Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

Approximate operating range of remote control



Connecting the Power Cord

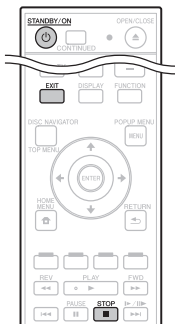
Only connect the power cord once all equipment connections are completed.



NOTE

- 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.
- 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



○ STANDBY/ON



Press ○ STANDBY/ON.

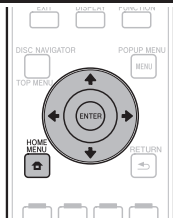
- Operate using the buttons on either the remote control or main unit.
- "POWER ON" appears on the front panel display.
- When the power is turned on with no disc loaded, the Pioneer logo screen (wallpaper) is displayed.
- When the power is turned on with the disc loaded, a menu screen may be displayed automatically, depending on the disc.
- When ■ STOP or EXIT is pressed, the disc's menu screen turns off and the wallpaper is displayed.

Turning the power off

Press ○ STANDBY/ON again.

- Operate using the buttons on either the remote control or main unit.
- "POWER OFF" appears on the front panel display.
- If you press ○ STANDBY/ON 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 ○ STANDBY/ON again.

Language Setting

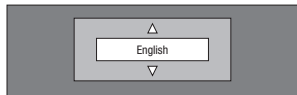


Changing the on-screen display language

- Press the HOME MENU to display the HOME MENU.
 - The HOME MENU is displayed.



- Press ↑/↓ to select "Settings", then press ENTER.
- Press ↑/↓ to select "On Screen Language", then press ENTER.
- Press ↑/↓ to select the language you want to display on the screen, then press ENTER.



English	Nederlands	Česky
Deutsch	Svenska	Magyar
Français	Dansk	Slovensky
Italiano	Norsk	Slovenščina
Español	Suomi	
Português	Polski	

NOTE

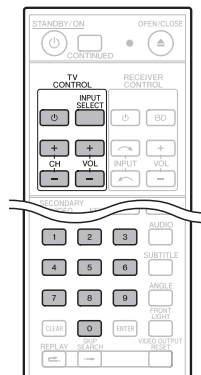
- To select the DVD disc language, such as subtitle language, etc., see page 14.

Operating the TV with the Player's Remote Control

When the manufacturer code for your brand of TV is set on the player's remote control, the TV can be operated using the player's remote control.

CAUTION

- For some models it may not be possible to operate the TV with the player's remote control, even for TVs of brands listed on the manufacturer code list.
- The setting may be restored to the default after the batteries are replaced. If this happens, reset it.



- Input the 2-digit manufacturer code.
 - Press the number buttons (0 to 9) to input the code while pressing TV CONTROL ○.

NOTE

- The factory setting is 00 (PIONEER).
- If you make a mistake when inputting the code, release TV CONTROL ○ then start over from the beginning.
- When there are multiple codes for a manufacturer, try inputting them in the indicated order until the TV can be operated.

- Check that the TV can be operated.

- Operate the TV using TV CONTROL ○.
 - - Press to turn the TV's power on and off.
 - INPUT SELECT - Press to switch the TV's input.
 - CH +/- - Press to select the TV channel.
 - VOL +/- - Press to adjust the volume.

Table of Manufacturer Codes

Manufacturer Code(s)

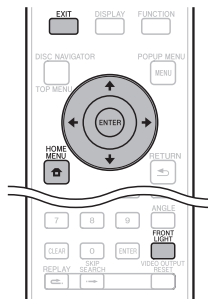
PIONEER 00, 31, 32, 07, 36, 42, 51	BEON 07
ACURA 44	BLAUPUNKT 31
ADMIRAL 31	BLUE SKY 41
AIWA 60	BLUE STAR 18
AKAI 32, 35, 42	BPL 18
AKURA 41	BRANDT 36
ALBA 07, 39, 41, 44	BTC 41
AMSTRAD 42, 44, 47	BUSH 07, 41, 42, 44, 47, 56
ANITECH 44	CASCADE 44
ASA 45	CATHAY 07
ASUKA 11	CENTURION 07
AUDIOGONIC 07, 36	CSB 42
BASIC LINE 41, 44	CIMLINE 44
BAUR 31, 07, 42	CLARIVOX 07
BEKO 38	CLARINET 38
CONTEC 44	CONDOR 38
CROSLEY 32	MARK 07
CROWN 38, 44	MATSUI 07, 39, 40, 42, 44, 47, 48
CRYSTAL 42	MCMICHAEL 34
CYBERTRON 41	MEDIATOR 07
DAEWOO 07, 44, 56	MEMOREX 44
DAINICHI 41	METZ 31
DANSAI 07	MINERVA 31, 53
DAYTON 44	MITSUBISHI 09, 10, 02, 21, 31
DECCA 07, 48	MULTITECH 44, 49
DIXI 07, 44	NEC 59
DUMONT 53	NECKERMANN 31, 07
ELIN 07	NEI 07, 42
ELITE 41	NIKAI 05, 07, 41, 46, 48
ELTA 44	NOBLIKO 49
EMERSON 42	NOKIA 32, 42, 52
ERRES 07	NORDMENDE 32, 36, 51, 52
FERGUSON 07, 36, 51	OCEANIC 31, 32, 42
FINLANDIA 35, 43, 54	ORION 32, 07, 39, 40
FINLUX 32, 07, 45, 48, 53, 54	OSAKI 41, 46, 48
FIRSTLINE 40, 44	OSO 41
FISHER 32, 35, 38, 45	OSUME 48
FORMENTI 32, 07, 42	OTTO VERSAND 31, 32, 07, 42
FRONTECH 31, 42, 48	PALLADIUM 38
FRONTECH/PROTECH 32	PANAMA 46
FUJITSU 48	PANASONIC 07, 08, 42, 22
FUNAI 40, 46, 58	PATHO CINEMA 42
GBC 32, 42	PAUSA 44
GE 00, 01, 08, 07, 10, 11, 17, 02, 28, 18	PERFEKT 32, 42
GEC 07, 34, 48	PHILIPS 31, 07, 34, 56, 68
GELOSO 32, 44	PHOENIX 32
GENERAL 29	PHONOLA 07
GENEXXA 31, 41	PROFEK 42, 44
GOLDSTAR 10, 23, 21, 02, 07, 50	PROTECH 07, 42, 44, 46, 49
GOODMANS 07, 39, 47, 48, 56	QUELLE 31, 32, 07, 42, 45, 53
GORENJE 38	R-LINE 07
GRM 11	RADIOLA 07
GRAETZ 31, 42	RADIO SHACK 10, 23, 21, 02
GRANDADA 07, 35, 42, 43, 48	REM 53
GRADIENTE 30, 57	RCA 01, 10, 15, 16, 17, 18, 61, 62, 09
GRANDIN 18	REDIFFUSION 32, 42
GRUNDIG 31, 53	REX 31, 45
HANSEATIC 07, 42	ROADSTAR 41, 44, 46
HCM 18, 44	SABA 31, 36, 42, 51
HINARI 07, 41, 44	SAISHO 39, 44, 46
HISAWA 18	SALORA 31, 32, 42, 43
HITACHI 31, 33, 34, 36, 42, 43, 54, 06, 10, 24, 25, 18	SAMBERS 49
HUANYU 56	SAMSUNG 07, 38, 44, 46, 69, 70
HYSPON 07, 18, 46	SANYO 35, 45, 48, 21, 14, 91
ICE 48, 47	SBR 07, 34
IMPERIAL 38, 42	SCHAUB LORENZ 42
INDIANA 07	SCHNEIDER 07, 41, 47
INGELIN 31	SEG 42, 46
INTERFUNK 31, 32, 07, 42	SEI 32, 40, 49
INTERVISION 46, 49	SELECO 31, 42
	SHARP 02, 19, 27, 69, 90
	SIAREM 32, 49

Before Starting Playback

ISUKAI 41	STANDARD 41, 44
ITC 42	STERN 31
ITT 31, 32, 42	SUSUMO 41
JEC 05	SYSLINE 07
JVC 13, 23	TANDY 31, 41, 48
KAISUI 18, 41, 44	TASHIKO 34
KAPSCH 31	TATUNG 07, 48
KENDO 42	TEC 42
KENNEDY 32, 42	TELEAVIA 36
KORPEL 07	TELEFUNKEN 36, 37, 52
KOYODA 44	TELETECH 44
LEYCO 07, 40, 46, 48	TENSAI 40, 41
LIESEN&TTER 07	THOMSON 36, 51, 52, 63
LOEWE 07	THORN 31, 07, 42, 45, 48
LUXOR 32, 42, 43	TOWASHI 18
M-ELECTRONIC 31, 44, 45, 54, 56, 07, 36, 51	TOSHIBA 05, 02, 26, 21, 53
MAGNADYNE 32, 49	TOWADA 42
MAGNAFON 49	ULTRAVOX 32, 42, 49
MAGNAVOX 07, 10, 03, 12, 29	UNIDEN 32
MANESTH 39, 46	UNIVERSUM 31, 07, 38, 42, 45, 46, 54
MARANTZ 07	VESTEL 07
SIEMENS 31	VICTOR 13
SINUZYNE 32, 39, 40, 49	VOXSON 31
SKANTIC 43	WALTHAM 43
SOLAVOX 31	WATSON 07
SONOKO 07, 44	WATT RADIO 32, 42, 49
SONOLOR 31, 35	WHITE WESTINGHOUSE 07
SONTEC 07	YOKO 07, 42, 46
SONY 04	ZENITH 03, 20
SOUNDWAVE 07	

Turning Off the Front Panel Display and Indicators

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



Operate using the remote control unit

Press **FRONT LIGHT**.

The front panel display and indicators turn on and off each time this is pressed. When off, only the FL OFF indicator is lit.

HOME MENU operation

- 1 Press **HOME MENU** to display the HOME MENU screen.
- 2 Press **↑/↓** to select "Settings", then press **ENTER**.
- 3 Press **↑/↓** to select "Smart Settings", then press **ENTER**.

Audio Video Settings
Smart Settings
Control
Playback Setting
On Screen Language
Communication Setup
Version
USB Memory Management
Software Update
System

- 4 Press **↑/↓** to select "Front Panel Display/LED", then press **ENTER**.
- 5 Press **←/→** to select "On" or "Off", then press **ENTER**.
- 6 Press **HOME MENU** or **EXIT** to exit.

About Control Function with HDMI

The functions work when a control function with HDMI-compatible Pioneer Flat Screen TV, AV system (AV receiver or amplifier, etc.) or HD AV Converter is connected to the player using an HDMI cable.

Also refer to the operating instructions of the Flat Screen TV, AV system (AV receiver or amplifier, etc.) and HD AV Converter.

To use the control function with HDMI

- The control function with HDMI operates when control function with HDMI is set to On for all devices connected with HDMI cables.
- Once connections and the settings of all the devices are finished, be sure to check that the player's picture is output to the Flat Screen TV. (Also check after changing the connected devices and reconnecting HDMI cables.) The control function with HDMI may not operate properly if the player's picture is not properly output to the Flat Screen TV.
- Use High Speed HDMI® Cables when using the control function with HDMI. The control function with HDMI may not operate properly if other HDMI cables are used.
- For some models, the control function with HDMI may be referred to as "KURO LINK" or "HDMI Control".
- The control function with HDMI does not work with devices of other brands, even if connected with an HDMI cable.

What the control function with HDMI can do

- **Outputting the optimum picture quality to a Flat Screen TV compatible with the control function with HDMI.**
When the control function with HDMI is enabled, video signals with the optimum picture quality for control function with HDMI are output from the player's HDMI terminal.
- **Operating the player with the Flat Screen TV's remote control.**
Such player operations as starting and stopping playback and displaying the menus can be performed from the Flat Screen TV.
- **The player's playback picture is displayed on the Flat Screen TV's screen. (Auto-select function)**
The input switches automatically on the Flat Screen TV, AV system (AV receiver or amplifier, etc.) and HD AV Converter when playback is started on the player or the HOME MENU or Disc Navigator is displayed. When the input is switched, the playback picture, the HOME MENU or Disc Navigator appears on the Flat Screen TV.
- **The power of the Flat Screen TV and the player turns on and off automatically. (Simultaneous power function)**
When playback on the player is started or the HOME MENU or Disc Navigator is displayed, if the Flat Screen TV's power was off, its power turns on automatically. When the Flat Screen TV's power is turned off, the player's power automatically turns off. (The power does not turn off automatically if a disc or file is playing on the player or the player's operation screen is displayed on the Flat Screen TV.)
- **The player's on-screen display language switches automatically. (Unified language function)**
When the language information from a connected Flat Screen TV is received, you can have the player's on-screen display language change automatically to that of the Flat Screen TV. This function is available only when playback is stopped and the menu screen is not displayed.

About the PQLS function

PQLS (Precision Quartz Lock System) is a digital audio transfer control technology using the HDMI control function. The player's output signals are controlled from the AV amplifier to achieve high sound quality playback using the amplifier's quartz oscillator. This eliminates the influence of the jitter generated during signal transfer which can adversely affect the sound quality.

- This player supports the functions below.
 - The "PQLS 2ch Audio" function that is only activated when playing music CDs (CD-DAs)
 - The "PQLS Multi Surround" function that is activated when playing all discs (BDs, DVDs, etc.) with linear PCM audio output
 - The "PQLS Bitstream" function that is activated when playing with bitstream audio output
- The various PQLS functions are activated when a Pioneer AV amplifier supporting the PQLS functions is connected directly to the HDMI OUT terminal with an HDMI cable and the main unit settings are set as shown below (page 21).
- **The control function with HDMI: On**
- **HDMI audio output: PCM** (PQLS multi-surround only)
- Also refer to the AV amplifier's operating instructions.
- See the Pioneer website for AV amplifiers supporting the PQLS function.

CAUTION

- The PQLS function may stop working when the video output resolution is switched. The PQLS function will start working again once playback is stopped then restarted.
- When the PQLS 2ch function is activated, the output from the player's VIDEO OUTPUT jacks may not have the proper colors. If this happens, connect the TV and AV amplifier's HDMI terminals or the TV and player's COMPONENT VIDEO OUTPUT jacks to view the picture.
- Turn on the power of the AV amplifier connected to the HDMI OUT terminal, then start playback of the disc.

NOTE

- The PQLS indicator on the player's front panel lights when the PQLS function is activated (page 7).

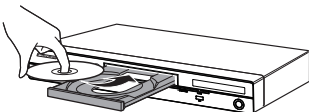
Playback

This section explains playback of commercially available BD-/DVD-Video discs (movies, etc.), CDs, and video or audio recorded on BD-RE/-R and DVD-RW/-R discs as well as USB memory devices.

Loading a Disc



- Press **STANDBY/ON** to turn on the power.
- Press **OPEN/CLOSE** to open the disc tray.
- 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.



- Press **OPEN/CLOSE** to close the disc tray.

BD/DVD Video Playback

BD VIDEO | BD-RE | BD-R

DVD VIDEO | DVD-RW | DVD-R | AVCHD

This player supports DVD upscaling during DVD playback (page 30).



- 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.
- Press **PLAY** if playback does not begin automatically or playback is stopped.

NOTE

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

To stop playback

Press **STOP**.

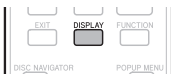
Resume playback function

- When **PLAY** is pressed during playback, the position at which playback stopped is stored in the memory. When **PLAY** is pressed, playback resumes from the point at which it 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)
- 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

- To specify the position from which you want to play and continue playback from then, see page 19.
- Resume playback may not function with some discs (for example BD-Video discs including BD-J applications (page 30)). To find out whether or not the disc includes BD-J applications, contact the disc's manufacturer.

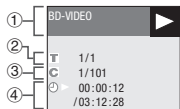
Displaying the disc information



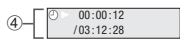
Press **DISPLAY** during playback.

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

Disc Information Screen A



Disc Information Screen B



No Display

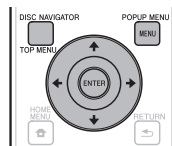
- Type of disc
- Title number being played/Total number of Titles
- Chapter number being played/Total number of Chapters
- Elapsed playback time/Total playback time for the Title

NOTE

- 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.

Playing BD-/DVD-Video Discs from the Menu

- This section explains how to play back a BD/DVD video disc with a top menu, disc menu or pop-up menu.
- The menu names, content and operations differ from disc to disc. Operate as instructed on the disc's instructions or 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.
- DISC NAVIGATOR/TOP MENU** and **POPUP MENU/MENU** will not function if there is no menu on the disc.

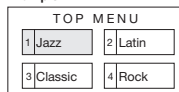


Using the top menu

BD VIDEO | DVD VIDEO

- Press **DISC NAVIGATOR/TOP MENU**.

Example



- Press **UP/DOWN/LEFT/RIGHT** to select the title, then press **ENTER**.
 - The selected title is played back.

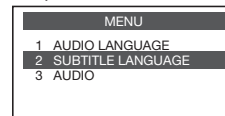
Using the disc menu

DVD VIDEO

Example: Select "SUBTITLE LANGUAGE".

- Press **DISC NAVIGATOR/TOP MENU**.
- Press **UP/DOWN** to select "SUBTITLE LANGUAGE", then press **ENTER**.
 - The screen for selecting the subtitle language is displayed.

Example



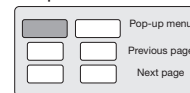
- Press **UP/DOWN** to select the subtitle language, then press **ENTER**.
- Press **DISC NAVIGATOR/TOP MENU** to exit.

Using the pop-up menu

BD VIDEO

- Press **POPUP MENU/MENU** during playback.

Example



- Press **UP/DOWN/LEFT/RIGHT** to select the desired item, then press **ENTER**.
- Press **POPUP MENU/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 BD-Video BONUSVIEW and BD-LIVE.

When using BD-Video discs compatible with BONUSVIEW, you can enjoy such functions as secondary video (picture in picture) and secondary audio. With BD-Video discs supporting BD-LIVE, special video images and other data can be downloaded from the Internet.

Data recorded on BD video and downloaded from BD-LIVE is stored on the USB memory device (external memory). To enjoy these functions, connect a USB memory device (minimum 1 GB capacity, 2 GB or greater recommended) supporting USB 2.0 High Speed (480 Mbit/s) to the USB port on this Player's rear panel. For connections when using a wireless LAN adaptor, see "Connecting to the LAN (10/100 terminal)" (page 11). Also, during BD-LIVE operations, do not connect a USB memory device to the USB port on this Player's front panel.

- When you insert or remove a USB memory device, be sure to turn the main power off.
- To recall data stored in the USB memory device, first insert the disc media that was being used at the time the data was downloaded (if a different disc is loaded, the data stored on the USB memory device cannot be played).
- 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, playback of the disc will stop. Do not disconnect the USB memory device while playback is in progress.
- Some time may be required for the data to load (read/write).

CAUTION

- It may not be possible to use the BONUSVIEW and BD-LIVE functions if there is insufficient space on the USB memory device. In this case, refer to "USB Memory Management" on page 23 for erasing the Virtual Package data and the BD-LIVE data in the USB memory device.

NOTE

- Operation of USB memory devices is not guaranteed.
- Playback of BD-LIVE function data differs depending on the disc used. For details, consult the user instructions supplied with the disc.
- To enjoy the BD-LIVE function, a network connection and settings are required (pages 11 and 22).
- For conditions and restrictions regarding Internet connections using the BD-LIVE function, see the section "BD Internet Access" (page 21).
- BD-LIVE is a function that provides for automatic connection to the Internet. Discs supporting the BD-LIVE function may send ID codes identifying this player and the disc to the contents provider via the Internet.
- The unit can be set to prevent automatic connection to the Internet. For instructions on this setting, see the section "BD Internet Access" (page 21).
- When USB memory devices are connected to both the USB ports on the player's front and rear panels, the device that was connected first is used for the BONUSVIEW and BD-LIVE functions, while the device that was connected last is used for file playback and software updating.

Secondary 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 **SECONDARY VIDEO** during playback to display the secondary video status. When **SECONDARY VIDEO** is pressed again, the secondary video is played.



Primary audio/video Secondary audio/video

- 2 Press **SECONDARY VIDEO** while the secondary video is playing to display the secondary video status. When **SECONDARY VIDEO** is pressed again, the secondary video turns off.

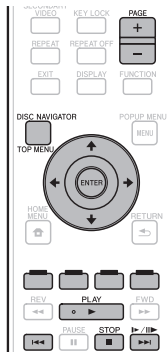
NOTE

- To listen to secondary audio, set the digital audio output setting (See "Audio Out" on page 20) according to the digital audio output format selection table on page 25.
- 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.

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

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

You can play back a recorded disc.



Load the disc.

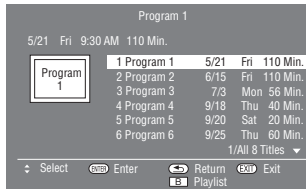
- When the disc tray is closed, playback starts automatically.

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-RW/-R discs will play back in this player. (This player does not have a function to finalize discs.)

Playback by selecting a title

- 1 While playback is stopped, press **HOME MENU** to display the HOME MENU.
- 2 Select "Disc Navigator" using **↑/↓**, then press **ENTER**.



- When loading a BD disc with usage restrictions placed by a BD recorder, the PIN code input screen appears. Then, input your PIN code.
If you input a wrong PIN code three times, the disc tray will open. Close the disc tray, and then input a correct PIN code.
- If the Disc Navigator screen is not displayed, press **DISC NAVIGATOR/TOP MENU**.

- 2 Press **↑/↓** to select the desired title, then press **ENTER**.

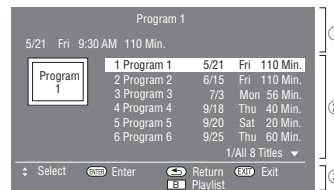
- When seven or more titles are displayed, switch pages by pressing **PAGE +/-**. The same operation can be performed by pressing **◀◀** or **▶▶/|||/▶▶**.

- 3 Press **■ STOP** to stop playback.

NOTE

- The Disc Navigator screen also can be displayed by pressing **DISC NAVIGATOR/TOP MENU** when playback is stopped or by pressing **ENTER** after choosing "Disc Navigator" in HOME MENU when playback is stopped.

About the disc navigator display



- 1 Information of selected title
- 2 Title Name
Recording Date
Recording Duration
- 3 Button Guide

NOTE

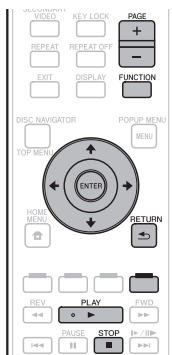
- The recording date is the date stored for the recorded title, and depending on the device used for recording may differ from the actual date the recording (copy) was made.

Playback by selecting a Playlist

- 1 Press **YELLOW** while the Disc Navigator screen is displayed.
 - The Playlist screen is displayed.
- 2 Press **↑/↓** to select the title, then press **ENTER**.
 - Playback of the selected title will begin.
- 3 Press **■ STOP** to stop playback.

Audio CD Playback

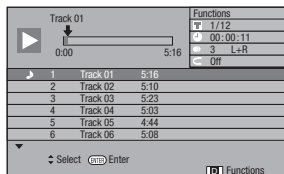
AUDIO CD



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.



- Press **▶ PLAY** if playback does not begin automatically or playback is stopped.
- Press **■ STOP** to stop playback.

Resume playback function

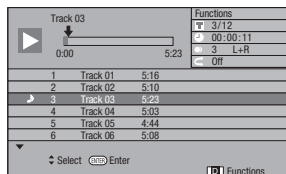
- When **▶ PLAY** is pressed during playback, the position at which playback stopped is stored in the memory. When **▶ PLAY** is pressed, playback resumes from the point at which it stopped.
- To playback from the beginning, cancel resume mode by pressing **■ STOP**, then press **▶ PLAY**. (This may not work depending on the type of disc. In this case, open the disc tray or enter standby.)

NOTE

- Resume playback may not function depending on the disc.

Playback by selecting a track

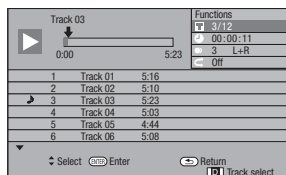
- Press **↑/↓** to select the track, then press **ENTER** during playback or when playback is stopped.



- Press **■ STOP** to stop playback.

Operation procedure for the "Functions" menu

- Press **BLUE (Functions)** or **FUNCTION** when the CD screen is displayed.
 - The "Functions" menu is activated.

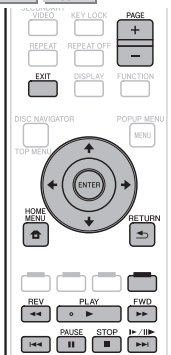


- Press **↑/↓** to select the desired setting, then press **ENTER**.
 - When playback is stopped, only "Track" can be selected.
 - For a description of each setting, see "Functions which can be set" (Page 19).
- Press **↑/↓/←/→** to set, then press **ENTER**.
 - Operations vary depending on the setting. Follow the operation instructions on the screen.
- Press **↵ RETURN** or **BLUE** to exit the "Functions" menu.

NOTE

- The displayed items vary depending on the disc.

Playing Video, Audio and Image Files



NOTE

- When you insert or remove a USB memory device, be sure to turn the main power off.
- Do not disconnect the USB memory device while it is playing.
- Files on the USB memory device cannot be played when one of the discs below is loaded. Remove the disc.
 - BDS in BDMV or BD-AV format
 - DVDs in VR, video or AVCHD format
 - Music CDs
- For details on playable files, see "Types of Discs that Can Be Used with This Player" (page 4) and "About Files" (page 6).
- When playing normal image files, the images are played one at a time. With slide shows, the image switches automatically.

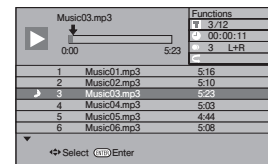
- Load the disc or connect the USB memory device on which the image files are recorded, then press **HOME MENU** to display the HOME MENU.
- Use **↑/↓** to select "Disc Navigator" (for video files), "Music" (for audio files) or "Photo" (for image files), then press **ENTER**.
 - If only a disc or only a USB memory device is loaded/connected, proceed to step 4.
- Use **↑/↓** to select "BD/DVD/CD" or "USB Memory Device", then press **ENTER**.
- Select the file or folder.
 - Use **↑/↓/←/→** to select the file.
 - When a folder is selected using **↑/↓** and **ENTER** is pressed, the files in the folder are displayed.
- Press **ENTER** to play the file.
 - When **II PAUSE** is pressed during playback, playback pauses. Press **II PAUSE** again or press **▶ PLAY** to resume playback.
- Press **◀◀** or **▶▶/|/▶** to switch to the previous or next file.
 - Image files are switched using **←/→** and **◀◀ REV/▶▶ FWD**. When **↵ RETURN** is pressed, the file selection screen reappears.
- Press **■ STOP** to stop playback.

NOTE

- The following functions cannot be used during playback of audio files:
 - Fast-forwarding/fast-reversing
 - Repeat function
 - Function control (page 19)

Selecting and playing a different audio file during playback of an audio file

- Use **↑/↓** to select the file.



- Press **ENTER** to start playing the file.
 - The selected file is played.



Playing back Slide Show

- 1 Load the disc or USB memory device on which the image files are recorded, then press **HOME MENU** to display the HOME MENU.
- 2 Press **↑/↓/←/→** to select "Photo", then press **ENTER**.
 - If only a disc or only a USB memory device is loaded/connected, proceed to step 4.
- 3 Press **↑/↓** to select "BD/DVD/CD" or "USB Memory Device", then press **ENTER**.
- 4 Select the folder.
- 5 Press **ENTER** to play the file.
 - Press **II PAUSE** to pause the slide show. Press **▶ PLAY** to resume playback from where it stopped.
- 6 Press **■ STOP** to stop the play at any time.
 - Press **↶ RETURN** to play a slide show of still images in another folder.

Setting slide show speed/repeat playback

- 1 Press **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**.

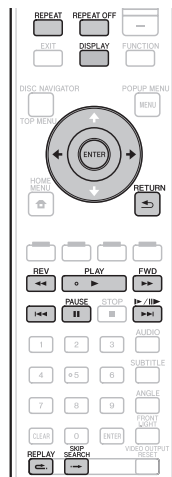


- The slide show speed may be selected from "Fast", "Normal", "Slow1" and "Slow2".

- 3 Press **↑/↓** to select the desired speed, then press **ENTER**.
- 4 Press **↑/↓** to select "Repeat Mode Setting", then press **ENTER**.



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



NOTE

- 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 **◀◀ REV** or **▶▶ FWD** is pressed during playback.

- Example:** When **▶▶ FWD** is pressed
- The search speed will change each time you press the button.
 - It is not possible to fast-forward or reverse to adjacent titles. When the beginning or end of the title is reached, fast-forwarding/reversing is canceled and normal playback resumes.
 - Subtitles are not displayed when fast-forwarding/reversing BD-/DVD-Video discs.

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

Skipping (to the beginning of a chapter or track) functions when **◀◀** or **▶▶/II/▶/▶▶** is pressed during playback.

Pause

Pause functions when **II PAUSE** is pressed during playback.

Frame Advance Playback

Frame Advance Playback functions when **▶▶/II/▶/▶▶** is pressed during Pause.

NOTE

- Frame advance playback is not possible with audio CDs.
- Frame Advance Playback may not function properly with discs other than DVD-RW (VR format).
- Some BD/DVD Video discs are not compatible with Frame Advance Playback.
- Frame Reverse Playback cannot be performed with this player.

Slow Playback

Slow Playback functions when **▶▶/II/▶/▶▶** is pressed for more than 2 seconds during pause.

- Press **▶ PLAY** to return to normal playback.
- Slow playback onto adjacent titles is not possible. When the beginning or end of the title is reached, slow playback is canceled and normal playback resumes.

NOTE

- This doesn't work for audio CDs.
- Reverse Slow Playback cannot be performed with this player.

Skip Search

Playback skips 30 seconds ahead when **→ SKIP SEARCH** is pressed during playback.

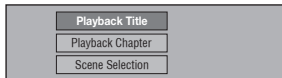
Replay

Playback jumps back 10 seconds when **◀ REPLAY** is pressed during playback.

Repeat Playback of a Title or Chapter (Repeat Playback)

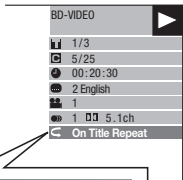
- 1 Play back the title or chapter you want to repeat.
- 2 Press **REPEAT**.
- 3 Press **↑/↓** to select the type of Repeat Playback.

- 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.



- Press **→** 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.

- 4 Press **ENTER**.
Example: Repeat playback of a title

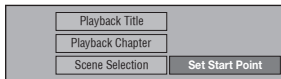


- 5 Press **REPEAT OFF** or **REPEAT** to return to normal playback.

Partial Repeat Playback (Repeat Playback of a Specified Part)

DVD VIDEO DVD-RW DVD-R
AUDIO CD

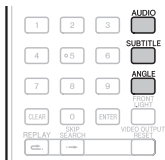
- 1 Press **REPEAT** during playback.
- 2 Press **↑/↓** to select "Scene Selection", then press **ENTER**.
 - "Set Start Point" displays.



- 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.
 - The end point cannot be set when **◀◀ REV.**
 - **FWD ▶▶**, **◀◀** or **▶▶/▶▶** is pressed.
 - To cancel Repeat Playback, press **REPEAT OFF** or **REPEAT**.

NOTE

- Press **▶▶/▶▶/▶▶**, the Repeat Playback is cancelled and the next chapter (track) being play back (not including music CDs).
- Press **◀◀** once, the Repeat Playback is cancelled and the player returns to the start of current chapter (track).
- If you press **◀◀** 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.
- During BD video, the same scene cannot be played repeatedly.
- Partial Repeat Playback may not work in multi-angle scenes.
- If you press **DISPLAY**, you can confirm the Repeat Playback status (except for Audio CDs).



Switching the Audio Mode

Press **AUDIO**.

The displayed content differs from disc to disc.

BD VIDEO DVD VIDEO

The audio track currently being played back will be displayed.

When multiple audio tracks are recorded on the disc, the audio track switches each time **AUDIO** is pressed.

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

The mode switches as shown below each time **AUDIO** is pressed.

In the event bilingual (multiplex) broadcasts are recorded:

- The display will show "MAIN", "SUB" or "MAIN SUB"
- 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 the digital audio output setting to "PCM" (page 20) or listen via the analog output jacks if you want to change the audio channel.
- Settings for audio can be changed also in Function Control Screen (Page 19).
- Some discs allow changing of the audio channel via a menu. For details, see the manual for the disc.
- The display for audio automatically disappears after 5 seconds.

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.
- You can also select "Off".

NOTE

- Settings for subtitles can be changed also in Function Control Screen (Page 19).
- Some discs allow changing of the subtitles channel via a menu. For details, see the manual for the disc.
- The display for subtitles automatically disappears after 5 seconds.

Switching the Angle

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

- 1 Press **ANGLE** during playback.
 - The display indicates the angle number currently being played back. Each time you press **ANGLE**, the angle switches.



To return to the previous angle, press **ANGLE** to cycle through the angles until you return to the original angle.

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 21).

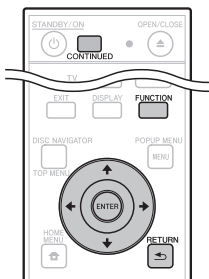
NOTE

- Settings for angles can be changed also in Function Control Screen (Page 19).
- Some discs allow changing of the angles channel via a menu. For details, see the manual for the disc.
- The display for angles automatically disappears after 5 seconds.

Settings During Playback

Function Control

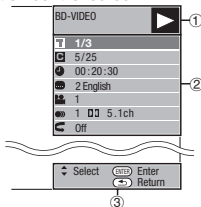
This allows you to adjust various settings at once, like subtitles, audio and angle settings and the title selection for Direct Playback. The operations are the same for BD and DVD.



Function control operation procedure

- 1 Press **FUNCTION** during playback.
 - The Function Control screen is displayed on the TV.

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 subtitles, audio and angle settings.
 - Title/Track Number (Direct Title/Track Skip)
 - Chapter Number (Direct Chapter Skip)
 - Playback Elapsed Time/Specified Continued Viewing Playback Time (Direct Time Skip)
 - Subtitle Language
 - Angle Number
 - Audio
 - Repeat
- ③ **Operation guide display**
Provides help on remote control button operations.

- 2 Press **↑/↓** to select the desired setting, then press **ENTER**.
 - For a description of each setting, see "Functions which can be set" (See right).
- 3 Press **↑/↓/←/→** 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, it may be impossible to operate the BD/DVD video playback. In cases like this, close the Function Control screen.

Continuing playback from a specified position (Continued Viewing Playback)

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

This function allows you to continue playback from a position you specify to be played next time, even after turning the power off.

Setting

- 1 During playback, press **CONTINUED** at the position from which you want to start continued viewing playback.
 - The elapsed playing time at the specified position is displayed at the top right of the screen.

Playing

- 1 Play the title for which you have set continued viewing playback.
 - The Function Control screen appears automatically.
 - The Function Control screen can also be displayed by pressing **FUNCTION** during playback.
- 2 Press **↑/↓**, select the specified continued viewing playback time, then press **ENTER**.
 - Playback starts from the specified position.

NOTE

- The continued viewing playback setting is canceled when **▲ OPEN/CLOSE** is pressed.
- Continued viewing playback may not work properly with some discs.

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 (0 to 9) 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 (0 to 9) to enter the chapter number when this option is highlighted.

Playback Elapsed Time/Specified Continued Viewing Playback 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.
- When continued viewing playback is set, the elapsed playing time of the specified position is displayed. When **ENTER** is pressed, playback starts from the specified position.
- Press **←/→** to select the Hour, Minute or Second, then press **↑/↓** or the number buttons (0 to 9) to set the time. Press **ENTER** to start playback at the set time.

NOTE

- **ENTER**: Enters the input number.
- **CLEAR**: Clears the input number.

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 **REPEAT** on the remote control.

NOTE

- These functions may not work with all discs.




Settings

Common Operations

The "Menu" enables various audio/visual settings and adjustments on the functions using the remote control unit. **Remove the disc when making these settings.** 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".

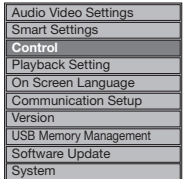
Example: Setting "Control"

1 **Display the Menu screen**



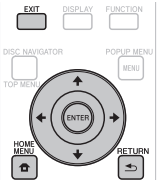
Press **HOME MENU** to display the HOME MENU screen.
Press **↑/↓** to select "Settings", then press **ENTER**.

2 **Select a menu item**



Press **↑/↓** to select "Control", then press **ENTER**.

3 **Select the next item**



Press **↑/↓/←/→** to select the desired item, then press **ENTER**.

Press **↵** **RETURN** to return to the previous "Menu" page.

4 **Exit the Menu screen**

Press **HOME MENU** or **EXIT** to exit.

Basic Operation for Playback Setting

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

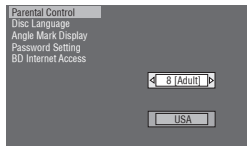
- Press **HOME MENU** to display the HOME MENU screen.
- Press **↑/↓** to select "Settings", then press **ENTER**.
- Press **↑/↓** to select "Playback Setting", then press **ENTER**.
- Press **↑/↓** to select "Parental Control", then press **ENTER**.
 - When you operate this Player for the first time, the PIN code setting screen will be displayed. See "When setting the PIN code for the first time" below.
- Press the number buttons (0 to 9) to enter your 4-digit PIN code.
 - You cannot move to the next setting screen until you can input the correct PIN code.



When setting the PIN code for the first time

- To set the PIN code for the first time, press **↑/↓** to select "Yes" to enter the PIN code setting menu, then press **ENTER**.
- Press the number buttons (0 to 9) to enter a 4-digit number for the PIN code, then the same 4-digit number for confirmation.
- Press **ENTER** to complete the PIN code setting procedure and move to the next setting screen.
- Press **←/→** to select the parental control level for DVD-VIDEO, BD-ROM, and then select the country code. Press **ENTER** after making each selection.

Example: When the selected parental control is "B"



- Press **HOME MENU** or **EXIT** to exit.

NOTE

- Characters in **bold type** are the default settings at time of purchase.

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 TV 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 "576/480i" (factory preset value).

Item

- 1080i, 720p, 576/480p, **576/480i**

HDMI Video Out

This sets the resolution of the HDMI video output. Some TV 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, 576/480p

NOTE

- When the BD player is connected to a 1080p 24 Hz compatible TV and the "HDMI Video Out" is set to "Auto", 1080p 24 Hz will automatically be displayed when compatible discs are played back.
 At 1080p 24 Hz/1080p 50-hz/1080p 60 Hz, there is no output from the COMPONENT VIDEO OUTPUT jacks and VIDEO OUTPUT jack.

Video Out Select

Dual video output is possible simultaneously from the COMPONENT VIDEO OUTPUT 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.

Video Out Select	Dual Output	HDMI Video Out	Component Out Resolution in Dual Mode
HDMI	Yes*1	Auto	*1
	No	1080p	No
	Yes	1080i	1080i
	Yes	720p	720p
	Yes	576/480p	576/480p
*1 Depends on TV specifications and source signal. 1080p is not supported.			
Component	Yes	1080i	1080i
	Yes	720p	720p
	Yes	576/480p	576/480p
	Yes	576/480i	576/480i
	Yes	576/480i	576/480i

Item

HDMI, Component

NOTE

- 1080p and control function with HDMI are only available in HDMI.
- When the priority video output is selected, video is output from the other video terminal with the resolution of the selected video output.
- 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.
- When "Component" is selected from the "Video Out Select" menu, "HDMI Video Out" cannot be set.

Audio Out

This lets you set the digital audio output format according to the capabilities of the connected audio equipment.

- To listen to the secondary audio of Blu-ray discs, select "PCM" or "Bitstream (Mix)".
- For details, refer to the digital audio output format selection table on page 25.

Item

PCM, Bitstream (Mix), Bitstream

Settings

NOTE

- Make sure to select a compatible digital audio output format, otherwise you will hear no sound or a garbled noise.
- If the HDMI device (Receiver, TV) is not compatible with compressed formats (Dolby digital, DTS), the audio signal outputs as PCM.
- Secondary and Effect audio is not present on DVD video.
- This setting has no effect on the analog (L/R) audio or HDMI audio output to your TV. It is only valid for the optical and HDMI audio output to a receiver.
- If you play MPEG audio soundtracks, the audio signal format will be PCM regardless of digital audio output format selection (PCM or Bitstream).

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.

Smart Settings

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

Front Panel Display/LED

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

Item

On, Off

Control

This sets the Player to be controlled from the Flat Screen TV via the HDMI cable.

Item

- Yes:** Select this to operate this player with the remote control unit of a Flat Screen TV connected by cable. This also turns on the PQLS function.
- No:** Select this when you do not want to use the control function.

NOTE

- For details, refer to "About Control Function with HDMI" on page 13.
- When "Component" is selected from the "Video Out Select" menu, the control function with HDMI does not work. If you want to use the control function with HDMI features, select "HDMI" from the "Video Out Select" menu, then reselect "Yes" for "Control".

Playback Setting

Parental Control

This lets you set the Parental Control for BD-ROM/DVD-video depending on the disc content. The available Parental Control Levels are shown below. The 4-digit PIN code 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 PIN code has not been created or the PIN code is not entered.

- Select the rating level appropriate for the age of the user.

Item (Parental control level)

8 and off: All BD-video/DVD-video can be played.
1-7: Prohibits play of BD-video/DVD-video with corresponding ratings recorded on them.

Item (Country code)

- Select the country code.
- The ratings differ according to the country.

NOTE

- Refer to "Basic Operation for Playback Setting" on page 20 for details.

Disc Language (Disc Priority Language)

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

Item (Subtitle)

Select the language you want to display.

Item (Audio)

Select the language you want to hear.

Item (Menu)

Select the language you want to display.

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 top right of the screen.)

Item

Yes, No

PIN code Setting

This sets the PIN code for setting or changing the Parental Control Level.

Item

- Yes: Enter the 4-digit number.
No

NOTE

- When you forget the PIN code, you can reset the current PIN code using "System Reset" under "Settings"-"System". (See right.)
- You can also set the new PIN code if desired.

BD Internet Access

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

Setting item	Description of setting
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 11) and communication settings (page 22).

Internet Setting

This allows you to restrict viewing of web contents.

Setting item	Description of setting
Permit	Allow access to web contents.
Limit	A PIN code must be entered to access web contents.
Prohibit	Prohibits access to web contents.

NOTE

- A connection to the Internet (page 11) and settings (page 22) are required to enjoy web contents.
- The "PIN code Setting" (above) must be made to change the "Internet Setting".

3D Mode

This sets how 3D discs are played.

Item

- Auto:** With 3D discs, the disc is played with 3D images. Regardless of the "Audio Video Setting" setting, videos are played at a resolution setting prioritizing 3D transfer.
- 2D:** Even with 3D discs, the disc is played with 2D images.

NOTE

- The 3D indicator on the main unit front panel lights when 3D images are being played (page 7).
- The images may be played in 2D when the screen switches or depending on the TV being used.
- Depending on the type of 3D disc, when "2D" is set or when connected to a device not supporting 3D, it may not be possible to play the disc.
- To view side-by-side contents you have recorded in 3D, you must make the proper 3D setting on your TV. In this case, this Player's OSD will display properly.

3D Notice

This sets whether or not to display the 3D notice when playing 3D images.

Item

Yes, No

Version

When you select "Version", the system software version is displayed. Please refer to our website for information regarding the system software updates.

IN Europe:

<http://www.pioneer.eu/>

IN U.K.:

<http://www.pioneer.eu/>

<http://www.pioneer.co.uk/>

IN Russia:

<http://www.pioneer.eu/>

<http://www.pioneer-rus.ru/>

IN Hong Kong:

<http://www.pioneerhongkong.com.hk/>

IN Singapore:

<http://www.pioneer.com.sg/firmwaredownload>

System

System Reset

You can reset all settings to the factory presets.

Item

Reset, Not Reset

DivX Register

Displays the registration code of your player.

DivX Deactivate

Deactivate your player and display the deactivation code.

NOTE

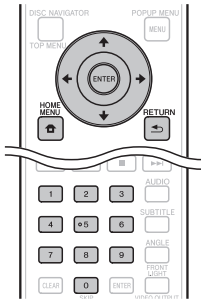
- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.
- To play copyright-protected DivX files, connect the HDMI OUT terminal to the TV.
- When "HDMI" is selected from the "Video Out Select" menu, video signals are not output from the VIDEO OUTPUT or COMPONENT VIDEO OUTPUT terminals.
- When "Component" is selected from the "Video Out Select" menu, file playback may stop. If this happens, set "Component Video Out" to "576/480i" or "576/480p".

Communication Setup

By connecting to the Internet, you can enjoy BD-LIVE functions as well as update this Player's software. This section describes the procedure for making network settings. You can connect to the Internet either by using a LAN cable or by connecting a USB Wireless LAN Adaptor to one of the USB ports.

NOTE

- Check that LAN cable or USB Wireless LAN Adaptor is properly connected (page 11).
- When USB Wireless LAN Adaptors are connected to both the USB ports on the player's front and rear panels, the USB Wireless LAN Adaptor last connected is used.
- Check the following information about the wireless LAN access point beforehand:
 - Type of encryption and encryption key
 - SSID (network name)
- 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 IP address
- This player cannot be connected to a network when a proxy server is used.

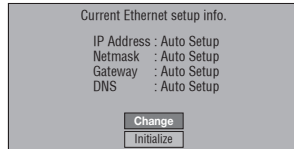


Selecting the connection method

- 1 Press **HOME MENU** to display the HOME MENU screen.
- 2 Press **↑/↓** to select "Settings", then press **ENTER**.
- 3 Press **↑/↓** to select "Communication Setup", then press **ENTER**.
- 4 Press **↑/↓** to select "Cable/Wireless Select", then press **ENTER**.
- 5 Press **↑/↓** to select the connection type, then press **ENTER**.
 - Cable: Select this to connect to the network using a LAN cable.
 - Wireless: Select this to connect to the network using a USB Wireless LAN Adaptor.

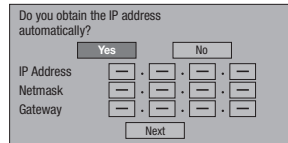
Changing the communications settings

- 1 Press **HOME MENU** to display the HOME MENU screen.
- 2 Press **↑/↓** to select "Settings", then press **ENTER**.
- 3 Press **↑/↓** to select "Communication Setup", then press **ENTER**.
- 4 Press **↑/↓** to select the connection method you want to set, then press **ENTER**.
 - Ethernet Setup(Cable): Change the settings for connecting to the network using a LAN cable.
 - Ethernet Setup(Wireless): Change the settings for connecting to the network using a USB Wireless LAN Adaptor.
- 5 Press **↑/↓** to select "Change", then press **ENTER**.



- For initializing the current setting, select "Initialize", then press **ENTER**.
 - When "Ethernet Setup(Cable)" was selected at step 4, proceed to step 10.
- 6 Press **↑/↓** to select the access point, then press **ENTER**.
 - 7 Press **↑/↓** to set the type of encryption, then press **ENTER**.
 - When "OPEN" is selected, proceed to step 9.
 - When "WEP", "WPA" or "WPA2" is selected, input the encryption key. Select "security key", then press **ENTER**. For instructions on inputting characters, see page 23.
 - 8 Press **←/→** to select "Next", then press **ENTER**.

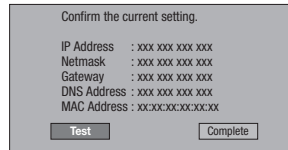
- 9 Press **ENTER** to test the connection.
- 10 For setting the IP address, press **←/→** to select "Yes" or "No", then press **ENTER**.



- If selecting "Yes": The IP address is automatically obtained.
- If selecting "No": The IP address, netmask, gateway and primary and secondary DNS IP addresses are manually entered using the screen for inputting characters. (Page 23)

- 11 Press **↑/↓** to 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.



- As a result of the test, if the internet connection fails, enter the setup values manually.

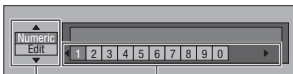
- 13 Press **←/→** to select "Complete", then press **ENTER**.

The operation procedure for inputting characters manually

Numeric characters such as IP address can be entered on the input screen using the number buttons (0 to 9) or **ENTER** on the remote control.



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

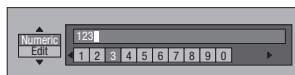


Selected by pressing **↑/↓** Selected by pressing **←/→**

2 Press **↑/↓** to select the desired input mode.
3 Press the number buttons (0 to 9) or **ENTER** 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.
- To change a number/character you have input, press **GREEN (Left)** or **YELLOW (Right)** to select the number/character you want to change, and press **RETURN** (Del.Char.). Then, press **←/→** to select a new number/character you want to input, and press **ENTER**.

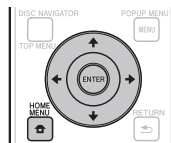
5 Press **BLUE (Complete)** to fix the numbers which have been input.



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

USB Memory Management

The following instructions explain how to delete data downloaded from BD-LIVE and recorded on the USB memory device.



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 to connect a USB memory device to one of the player's USB ports. Using a USB extension cable may prevent the player from performing correctly.

NOTE:

- Operation of USB memory devices is not guaranteed.
- The player supports USB memory devices formatted in FAT32/16. When formatting a USB memory device on your computer, do so with the settings below.
File system: FAT32
Allocation unit size: Default allocation size

- 1 Connect the USB memory device.
 - When you insert or remove a USB memory device, be sure to turn the main power off.
 - Connect the USB memory device to the USB port on the player's front or rear panel.
 - If USB memory devices are connected to both the USB ports on the player's front and rear panels, the data is only deleted on the USB memory device that was connected first.

2 Press **HOME MENU** to display the HOME MENU screen.

3 Press **↑/↓** to select "Settings", then press **ENTER**.

4 Press **↑/↓** to select "USB Memory Management", then press **ENTER**.

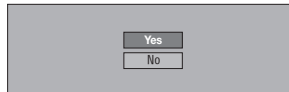
- The "USB Memory Management" screen is displayed.
- "No USB Memory" appears when no USB memory is inserted.

5 Press **ENTER** to proceed.

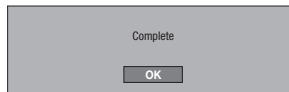
Erase: Deletes only BD-VIDEO data contents.

- If you want to delete all of the data or delete only the unneeded software update data after the software is updated, delete the data on the USB memory device using a PC.

6 Press **↑/↓**, select "Yes", and press **ENTER**.



- The deleting screen is displayed. Once deleting is completed, the screen below appears.



7 Press **ENTER**.

NOTE

- Data which has been saved to the player's internal memory (game score, etc.) will also be deleted.

Input character list

Numeric	1 2 3 4 5 6 7 8 9 0									
Edit	Cancel	Left	Right	Complete	Del.Char.					
	* The same operation as RED, GREEN, YELLOW, BLUE and RETURN can be performed by selecting each of the items and pressing ENTER . "Del.Char." stands for deleting characters.									

Software Update

The software can be updated in one of the ways described below.

- Updating using the network
 - Updating using a USB memory device
- The settings below must be made in advance to update the software using the network. Product information on this player is provided on the Pioneer website. Check this website for update and service information on your Blu-ray disc player.

IN Europe:

<http://www.pioneer.eu/>

IN U.K.:

<http://www.pioneer.eu/>

<http://www.pioneer.co.uk/>

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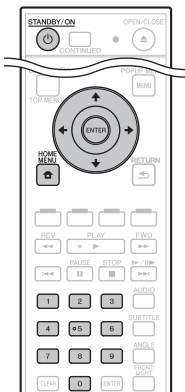
<http://www.pioneer.com.sg/firmwaredownload>

NOTE

- Check that the LAN cable, USB Wireless LAN Adaptor or USB memory device is properly connected (page 11).
- Properly set the "Communication Setup" (page 22).
- Depending on the network connection conditions and other factors, some time may be required to download the update file.

CAUTION

- Do not disconnect the LAN cable, USB Wireless LAN Adaptor or USB memory device or unplug the power cord while the update file is being downloaded or the software is being updated.
- Do not perform other operations while the software is being updated. Also note that updating cannot be canceled once it is started.
- If you have turned off the front panel display, use **FRONT LIGHT** to turn it on. When updating the software with the front panel display turned off, do not unplug the power cord until the FL OFF indicator turns off.



Updating using the network

Use this procedure to connect to the network and check whether new software is available.

- 1 Press **HOME MENU** to display the HOME MENU.
- 2 Press **↑/↓** to select "Settings", then press **ENTER**.
- 3 Press **↑/↓** to select "Software Update", then press **ENTER**.
- 4 Press **ENTER** to move to the menu to the right.
- 5 Press **↑/↓** to select "Network", then press **ENTER**.
 - "Accessing" flashes on the screen. If new software is detected, the player's current software version and the new software version are displayed.
 - If the software has already been updated to the latest version, a screen showing you the details is displayed.
- 6 Press **↑/↓** to select "Yes", then press **ENTER**.
 - Software updating begins.
 - Once software updating is completed, the updating completed screen appears. When **ENTER** is pressed, the player restarts automatically.
 - If software updating fails, an error message is displayed. Check that the LAN cable or USB Wireless LAN Adaptor is properly connected and check the communications settings, then update the software again.

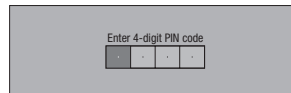
Updating using a USB memory device

Use this procedure to update the player's software from a USB memory device containing the update file connected to the USB port on the player's front panel.

NOTE

- When an update file is provided on the Pioneer website, use your computer to download it onto a USB memory device. Carefully read the instructions on downloading update files provided on the Pioneer website.
- The player supports USB memory devices formatted in FAT32/16. When formatting a USB memory device on your computer, do so with the settings below. File system: FAT32 Allocation unit size: Default allocation size
- Store the update file in the USB memory device's root directory. Do not store it within a folder.
- Do not put any files other than the update file on the USB memory device.
- Only store the most recent update file on the USB memory device.
- Do not use a USB extension cable to connect a USB memory device to the player. Using a USB extension cable may prevent the player from performing correctly.
- Remove any disc from the disc tray when updating the software.

- 1 Connect the USB memory device.
 - When you insert or remove a USB memory device, be sure to turn the main power off.
 - Be sure to connect your USB memory device to the USB port on the player's front panel. If your USB memory devices are already connected to both the USB ports on the player's front and rear panels, disconnect the USB memory device on the front and replace it with the USB memory device which contains the system firmware update file.
 - When an update file is found, the player's current software version and the version of the update file stored on the USB memory device are displayed. Proceed to step 9.
- 2 Press **HOME MENU** to display the HOME MENU.
- 3 Press **↑/↓** to select "Settings", then press **ENTER**.
- 4 Press **↑/↓** to select "Software Update", then press **ENTER**.
- 5 Press **ENTER** to move to the menu to the right.
- 6 Press **↑/↓** to select "USB Memory", then press **ENTER**.
 - If no PIN code is set, proceed to step 8.
- 7 Input the 4-digit PIN code.
 - Use the number buttons (0 to 9).

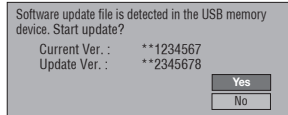


- 8 Press **ENTER** to check the data on the USB memory device.



- The screen message is displayed while the USB memory device is being checked.

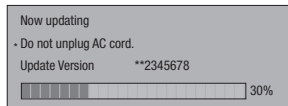
- 9 Check the software version.
 - To update the player's software, select "Start" then press **ENTER**.
 - If you do not want to update the player's software, disconnect the USB memory device. After this, operate following the instructions on the screen.
 - If you want to update after selecting "Do not start" or after the version confirmation screen was closed, return to step 2.



- An error message is displayed if the USB memory device could not properly recognized or if no update file was found on the USB memory device. Check the file on the USB memory device, then reconnect the USB memory device properly.



- 10 Press **ENTER** to update the software.



- 11 Check on the screen that updating has been completed properly.
 - If updating fails, check the file on the USB memory device, then start over from step 1.
- 12 Disconnect the USB memory device.
 - The player restarts automatically. If instructions appear on the screen, operate following these instructions.

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Setup	Definition	Output terminal	Audio Stream						
			PCM	Dolby Digital	Dolby Digital Plus	Dolby TrueHD	DTS	DTS-HD HR	DTS-HD MA
PCM	Decodes Primary, Secondary and Effect audio streams together into PCM audio.	HDMI OUT	PCM	PCM	PCM	PCM	PCM	PCM 7.1ch	PCM 7.1ch
		OPTICAL	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch	PCM	PCM 2ch	PCM 2ch
Bitstream (Mix)	Decodes Primary, Secondary and Effect audio streams together into PCM audio, then re-encodes the PCM audio into DTS bitstream.	HDMI OUT/OPTICAL	DTS	DTS	DTS	DTS	DTS	DTS 5.1ch	DTS 5.1ch
		HDMI OUT	PCM	Dolby Digital	Dolby Digital Plus	Dolby TrueHD	DTS	DTS-HD HR	DTS-HD MA
Bitstream	Outputs only the Primary audio soundtrack (main soundtrack of the movie) so that your audio equipment can decode the audio bitstream. You will not hear Secondary and Effect audio.	HDMI OUT	PCM	Dolby Digital	Dolby Digital Plus	Dolby TrueHD	DTS	DTS-HD HR	DTS-HD MA
		OPTICAL	PCM 2ch	Dolby Digital	Dolby Digital	Dolby Digital	DTS	DTS-ES 5.1ch	DTS-ES 5.1ch

Blu-ray discs may include three audio streams.

- Primary Audio: The audio soundtrack of the main feature
- Secondary Audio: Additional soundtrack such as director or actor's commentary.
- Interactive Audio: Interactive sounds will be heard when selected.
- Interactive Audio is different on each Blu-ray Disc.

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Troubleshooting

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.	<ul style="list-style-type: none">• Plug the power cord securely into the power outlet. (Page 11)• When the power cord is plugged into an AC outlet, press and hold ○ STANDBY/ON on the Player. Then, turn on the power again.
The Player power is turned on automatically.	<ul style="list-style-type: none">• When "Settings" – "Control" is set to "Yes" on the player, the player's power may turn on when the connected TV is operated. (Page 21)
The Player power is turned off automatically.	<ul style="list-style-type: none">• 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 21)• When "Settings" – "Control" is set to "Yes" on the player, the player's power may turn off when the power of the connected TV is turned off. (Page 21)

Basic Operation

Problem	Possible causes and solutions
The remote control does not work.	<ul style="list-style-type: none">• Operate the remote control from within a distance of 7 m from the remote control sensor. (Page 11)• Replace the batteries. (Page 11)
Cannot operate the Player.	<ul style="list-style-type: none">• Are you operating the Player within the specified operating temperature range? (Page 31)

Disc Playback

Problem	Possible causes and solutions
The Player cannot play a disc.	<ul style="list-style-type: none">• Take out the disc and clean it. (Page 5)• Make sure that the disc is loaded properly (aligned in disc tray and label-side up). (Page 14)• Make sure that region code on the disc matches that of this Player. (Page 31)• Allow any condensation in or near the Player to dry. (Page 5)• 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.• 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.• 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/BD-RE cannot be played back.
Files on USB memory device cannot be played.	<ul style="list-style-type: none">• Files on USB memory devices cannot be played when one of the discs below is loaded. Remove the disc.<ul style="list-style-type: none">– BDs in BDMV or BDAV format– DVDs in VR, video or AVCHD format– Music CDs
The disc is automatically ejected after closing the disc tray.	<ul style="list-style-type: none">• Make sure that the disc is loaded properly (aligned in disc tray and label-side up). (Page 14)• Take out the disc and clean it. (Page 5)• Make sure that region code on the disc matches that of this Player. (Page 31)• Make sure that the disc is playable. (Page 4)
Video stops.	<ul style="list-style-type: none">• 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.• Playback stops if a USB memory device is connected or disconnected during playback. Do not connect or disconnect USB memory devices during playback.
The Player makes a snapping sound when starting playback or loading a disc.	<ul style="list-style-type: none">• 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.

Troubleshooting

Picture

Problem	Possible causes and solutions
No picture.	<ul style="list-style-type: none"> • Make sure that the cables are connected correctly. (Pages 9 to 10) • Make sure that the connected TV or the AV receiver is set to the correct input. (Pages 9 to 10) • Take out the disc and clean it. (Page 5) • Make sure that region code on the disc matches that of this Player. (Page 31) • There is no picture from the HDMI output. <ul style="list-style-type: none"> – Are the settings performed correctly? Please check the settings. (Page 20) • There is no picture from the component video output. <ul style="list-style-type: none"> – Are the settings performed correctly? Please check the settings. (Page 20)
Screen freezes and operation buttons do not work.	<ul style="list-style-type: none"> • Press ■ STOP, then restart playback. • Turn off the power and turn on the power again. • If the power cannot be turned off, press and hold ⏻ STANDBY/ON on the player's front panel for at least 5 seconds to turn the power off. • Is the disc damaged or dirty? Check the condition of the disc.
There is just audio with no video.	<ul style="list-style-type: none"> • Is the connection cable for video output connected properly? (Pages 9 to 10)
<ul style="list-style-type: none"> • Picture is stretched. • Picture is cut. • Aspect ratio cannot be switched. 	<ul style="list-style-type: none"> • Refer to the TV's operating instructions and set the TV's aspect ratio properly. • Is "TV Aspect Ratio" set to match the connected TV? Set "TV Aspect Ratio" properly. (Page 20)
Square noise (mosaic) appears on the screen.	<ul style="list-style-type: none"> • Blocks in images may be visible in scenes with rapid movement due to the characteristics of digital image compression technology.
<ul style="list-style-type: none"> • Picture is disturbed during playback. • Picture is dark. 	<ul style="list-style-type: none"> • This player complies with analog copy protection technology of the Rovi Corporation. Depending on the TV (TV with built-in video deck, etc.), the picture may not display properly when copy-protected discs are played. This is not a malfunction. • When this player and the TV are connected via a DVD recorder, video deck, etc., the analog copy protection may prevent the picture from being displayed properly. Connect the player and TV directly. (Pages 9 to 10) • When playing 3D images, the VIDEO OUTPUT terminals' image may not be displayed properly.
Audio is not output, or images are not played back properly.	<ul style="list-style-type: none"> • 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.
3D images are not output or do not appear to be in 3D.	<ul style="list-style-type: none"> • Connect this Player and the TV using an HDMI cable. • Check whether the disc being played supports 3D. • Check the 3D settings on this Player and on the TV. • When an AV receiver is connected between this Player and the TV, check whether the AV receiver supports 3D. • 3D images may look different from person to person.

Sound

Problem	Possible causes and solutions
No sound, or sound is distorted.	<ul style="list-style-type: none"> • 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 17) • The DTS audio signals recorded on DVDs are not output from the AUDIO OUTPUT terminals (analog). To play DTS audio, connect the HDMI OUT terminal or DIGITAL OUT OPTICAL terminal and set "Audio Output Setting" to "Bitstream (Mx)" or "Bitstream" (page 21). • Check that the audio cable is connected correctly. (Page 10) • Check that the cable plugs are clean. • Take out the disc and clean it. (Page 5) • 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.
Left and right channels of audio are reversed, or sound comes out of only one side.	<ul style="list-style-type: none"> • Are left and right audio cables connected to the opposite terminal, or is one side disconnected? (Page 10)
Audio is not output, or images are not played back properly.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Connect the LAN cable securely, pressing it all the way in. (Page 11) • Do not connect with a modular cable. Use a LAN cable with the LAN (10/100) terminal. • 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". (Page 22)
Cannot download BD-LIVE contents.	<ul style="list-style-type: none"> • Is the LAN cable connected properly? (Page 11) • Is the USB memory device properly connected? Check that the USB memory device is connected to the USB port of this Player. (Page 11) • Check if the BD disc supports BD-LIVE. • Check the setting for "BD Internet Access". (Page 21)

Control function with HDMI

Problem	Possible causes and solutions
Control function with HDMI does not work.	<ul style="list-style-type: none"> • Connect the HDMI cable properly. (Page 9) • Use High Speed HDMI® Cables when using the control function with HDMI. The control function with HDMI may not operate properly if other HDMI cables are used. • Set "Settings" – "Control" on the player to "Yes". (Page 21) • The control function with HDMI does not work with devices of other brands, even if connected using an HDMI cable. The control function with HDMI will not work if devices that do not support the control function with HDMI or devices of other brands are connected between the control function with HDMI-compatible device and the player. It may also not work with certain Flat Screen TVs. • Set control function with HDMI to On on the connected device. The control function with HDMI works when control function with HDMI is set to On for all devices connected by HDMI cable. Once connections and the settings of all the devices are finished, be sure to check that the player's picture is output to the Flat Screen TV. (Also check after changing the connected devices and reconnecting HDMI cables). The control function with HDMI may not operate properly if the player's picture is not properly output to the Flat Screen TV. • The control function with HDMI may not work if three or more players, including this player, are connected. • Also refer to the operating instructions of the connected device.

Other

Problem	Possible causes and solutions
The TV operates incorrectly.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • When using this Player, the console cabinet may heat up depending on the usage environment. This is not a malfunction.
Input of connected TV, AV system and HD AV Converter switches automatically.	<ul style="list-style-type: none"> • When "Settings" – "Control" is set to "Yes" on the player, the input on the connected TV, AV system (AV receiver or amplifier, etc.) and HD AV Converter may switch automatically. (Page 21)
Software cannot be updated.	<ul style="list-style-type: none"> • Remove any disc from the disc tray when updating the software.
The front panel display shows "HOLD", and operations are disabled.	<ul style="list-style-type: none"> • KEY LOCK is in effect. (Page 8) Depress the remote control unit's KEY LOCK for five seconds or more to cancel the KEY LOCK function.

To Reset this Player

- If the player displays the following symptoms, press and hold in **STANDBY/ON** on the player's front panel to reset the player.
 - Operation buttons do not work
 - Noise is output
 - Power does not turn off
 When "RESET" appears on the front panel display, the player is reset and the power turns off. Turn the player's power back on.
- When the power is turned on, it may take several minutes for system checking to be completed.
- 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 Pioneer.

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.	<ul style="list-style-type: none"> The disc cannot be played back with this Player. 	<ul style="list-style-type: none"> Check the disc, and load it correctly.
Incompatible disc.	<ul style="list-style-type: none"> A disc that cannot be played is loaded in the player. <ul style="list-style-type: none"> The disc is scratched or dirty. The disc is loaded with the printed side facing down (the disc tray opens automatically). Occurs if the loaded disc cannot be played because it is a non-standard disc or scratched, etc. 	<ul style="list-style-type: none"> Remove the disc.
Cannot operate.	<ul style="list-style-type: none"> Occurs if an operation is incorrect. 	—————
This USB memory is not formatted properly. Please format the memory in USB memory management.	<ul style="list-style-type: none"> Occurs if there is a formatting error. 	<ul style="list-style-type: none"> Format the USB memory again.
The Connected USB Memory cannot be used. It should be compliant with USB 2.0.	<ul style="list-style-type: none"> Occurs if USB memory not compliant with USB 2.0 High Speed (480 Mbit/s) is used (i.e. USB 1.0/USB 1.1). 	<ul style="list-style-type: none"> Connect USB 2.0 High Speed (480 Mbit/s) compliant USB memory.

Glossary

AVCHD (Advanced Video Codec High Definition)

The AVCHD is a high definition (HD) digital video camera recorder format recording high-definition onto certain media by using highly efficient codec technologies.

BDAV (Page 4)

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 15)

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

BDMV (page 4)

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 (page 4)

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 (page 4)

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 4)

A disc format developed for recording/playback 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 (page 19)

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 14)

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

DivX®

DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX video.

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

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 (page 4)

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 single-sided 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 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/+R (page 4)

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 programmed or edited.

Glossary

DVD-RW/+RW (page 4)

A DVD/+RW is a recordable and rewritable DVD. The recordable feature makes editing possible. The DVD/+RW has two different formats: VR format and Video format. DVD's 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 programmed or edited.

HDMI (page 9)

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.

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, 17)

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 20)

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 18, 19)

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 20)

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

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 14)

An enhanced menu operation available on BD video discs. The pop-up menu appears when **POPUP MENU/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

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

Resume playback (pages 14, 19)

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 17)

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

Subtitles (pages 18, 19)

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

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 14)

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 (page 19)

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 requirements	AC 110 V to 240 V, 50 Hz/60 Hz (ASEAN and Taiwan model) AC 220 V to 240 V, 50 Hz/60 Hz (Other model)
Power consumption (Normal)	23 W
Power consumption (Standby)	0.6 W
Dimensions	BDP-LX54: 420 mm × 72.5 mm × 228 mm (W × H × D) BDP-430: 420 mm × 68 mm × 228 mm (W × H × D)
Weight	BDP-LX54: 3.3 kg BDP-430: 2.5 kg
Operating temperature	5 °C to 35 °C
Storage temperature	-20 °C to 55 °C
Operating humidity	10 % to 80 % (no condensation)
TV systems	PAL system/NTSC system (The system recorded on the disc is output.)

Playback

Playable discs	BD-ROM, BD-RE Dual Layer, BD-R Dual Layer, DVD Video, DVD-RW/-R/+RW/+R Dual Layer (Video/VR/AVCHD format), Audio CD (CD-DA), CD-RW/-R (CD-DA, MP3, JPEG file format)
Region code	European model: B or All Region for BD, 2 or ALL for DVD Russian model: C or All Region for BD, 5 or ALL for DVD Others: A or All Region for BD, 3 or ALL for DVD

Input/Output

HDMI OUT	HDMI 19-pin standard connector (5 V, 250 mA)
COMPONENT VIDEO OUTPUT	Output level: Y: 1 Vp-p (75 ohms) P _s , P _c : 0.7 Vp-p (75 ohms) Jacks: RCA jack
VIDEO OUTPUT	Output level: 1 Vp-p (75 ohms) Jack: RCA jack
DIGITAL OUT OPTICAL	Terminal: Square Optical terminal
AUDIO OUTPUT	Output level: 2 V rms (Output impedance: 1 k ohms) Jacks: RCA jack
USB	Two sets (1 front, 1 rear), USB 2.0 High Speed (480 Mbit/s) correspondence
LAN (10/100)	10BASE-T/100BASE-TX

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

For customers in Europe:

Discover the benefits of registering your product online at <http://www.pioneer.co.uk> (or <http://www.pioneer.eu>)

Download an electronic version of this manual from our website.

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K002_B2_En

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Printed in China

<VRB1529-A>

