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

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.

**IMPORTANT NOTICE**

THE SERIAL NUMBER FOR THIS EQUIPMENT IS LOCATED IN THE REAR. PLEASE WRITE THIS SERIAL NUMBER ON YOUR ENCLOSED WARRANTY CARD AND KEEP IN A SECURE AREA. THIS IS FOR YOUR SECURITY.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

**Information to User**

Alteration or modifications carried out without appropriate authorization may invalidate the user’s right to operate the equipment.

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

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

**CAUTION:** This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

**FEDERAL COMMUNICATIONS COMMISSION DECLARATION OF CONFORMITY**

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

Product Name: Blu-ray Disc PLAYER
Model Number: BDP-95FD
Responsible Party Name: PIONEER ELECTRONICS SERVICE, INC.
Address: 1925 E. DOMINGUEZ ST. LONG BEACH, CA 90801-1760, U.S.A.
Phone: 800-421-1404

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

**CAUTION:** THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.
IMPORTANT SAFETY INSTRUCTIONS

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

CAUTION
This product is a class 1 laser product, but this product contains a laser diode higher than Class 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

CLASS 1 LASER PRODUCT
APPAREIL À LASER DE CLASSE 1

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

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.

Operating Environment
Operating environment temperature and humidity:
+5 °C to +35 °C (+41 °F to +95 °F); less than 85 %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).

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.

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.
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).

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).

WARNING: Handling the cord on this product or cords associated with accessories sold with the product will expose you to chemicals listed on proposition 65 known to the State of California and other governmental entities to cause cancer and birth defect or other reproductive harm. Wash hands after handling.

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.

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. If you find it damaged, contact the Pioneer service center on the back cover, or your dealer for a replacement.

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

Selecting fine audio equipment such as the unit you’ve just purchased is only the start of your musical enjoyment. Now it’s time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association’s Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing “comfort level” adapts to higher volumes of sound. So what sounds “normal” can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:
• Start your volume control at a low setting.
• Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:
• Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association’s Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

<table>
<thead>
<tr>
<th>Decibel Level</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>Quiet library, soft whispers</td>
</tr>
<tr>
<td>40</td>
<td>Living room, refrigerator, bedroom away from traffic</td>
</tr>
<tr>
<td>50</td>
<td>Light traffic, normal conversation, quiet office</td>
</tr>
<tr>
<td>60</td>
<td>Air conditioner at 20 feet, sewing machine</td>
</tr>
<tr>
<td>70</td>
<td>Vacuum cleaner, hair dryer, noisy restaurant</td>
</tr>
<tr>
<td>80</td>
<td>Average city traffic, garbage disposals, alarm clock at two feet.</td>
</tr>
</tbody>
</table>

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

<table>
<thead>
<tr>
<th>Decibel Level</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>90</td>
<td>Subway, motorcycle, truck traffic, lawn mower</td>
</tr>
<tr>
<td>100</td>
<td>Garbage truck, chain saw, pneumatic drill</td>
</tr>
<tr>
<td>120</td>
<td>Rock band concert in front of speakers, thunderclap</td>
</tr>
<tr>
<td>140</td>
<td>Gunshot blast, jet plane</td>
</tr>
<tr>
<td>180</td>
<td>Rocket launching pad</td>
</tr>
</tbody>
</table>

Information courtesy of the Deafness Research Foundation.
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Chapter 1
Before you start

Features

BD-ROM playback
Blu-ray Disc is a next-generation video disc format featuring far higher disc capacity than conventional DVD. The higher capacity makes a whole range of new and enhanced features possible, such as support for high-definition video up to 1920 x 1080 pixels, high quality, surround sound audio, greater interactivity and richer content.

BD-ROM discs are commercially produced discs (Video Distribution format) that can contain movie and other video content, interactive content, enhanced menu features such as pop-up menus (press POPUP MENU/MENU during playback for these), full-color, high-definition animated buttons and animated menu transition effects, button sounds (sounds are played when menu buttons are selected or activated), high-definition bitmap subtitles supporting full-color images with frame-accurate animation effects up to full video frame rate, and so on.

While BD capacity is enough for most applications, the BD-ROM standard allows for content to be spread across several discs, removing the limit of one physical disc. Follow the on-screen instructions during playback when using these special kinds of discs.

BD-J application

The BD-ROM specification supports Java for interactive content. The Java specification for BD-ROM is known as BD-J. This allows content providers to put games and other interactive material linked to specific titles on to BD-ROM discs. (This player does not support downloadable BD-J content, direct connection to the Internet or the retrieval of content through the Internet.)

- Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.
- © 2000-2007 Esmentec AG
Esmentec and Jbed are trademarks and/or registered trademarks of Esmentec AG.

HDMI digital interface

The HDMI (High-Definition Multimedia Interface) interconnect provides high quality digital audio and video, all from a single user-friendly connector. HDMI is the first consumer electronics interface to support uncompressed standard, enhanced, or high-definition video plus standard to multi-channel surround sound audio, all using one interface. You can easily connect to an HDMI-equipped AV receiver or audio-visual device for high quality audio and video.

- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

HDMI Control

By connecting this unit to a Pioneer plasma display or AV system (amplifier or AV receiver etc.) with an HDMI cable, you can control this unit from the connected plasma display, as well as have the connected plasma display or AV system automatically change inputs in response to this unit starting playback or having the GUI screen (ex. Disc Navigator) displayed (known as the Auto-select function). The connected plasma display can thereby have its power turned from off to on by this function.

You can also have this unit turn on automatically when you control this unit from a connected plasma display that is turned on (Simultaneous power function).

Additionally, when the language information from a connected plasma display is received, you can have this unit’s on-screen display language change automatically to that of the plasma display (only when playback is stopped and GUI screen is not displayed).

Refer to your plasma display’s operating manual for more information regarding how your plasma display transmits language information.

For more information about which operations can be carried out by connecting via HDMI cable, refer to the operating manual for your plasma display or AV system.

PureCinema

When you playback film material (24 frames/second) on a BD-ROM or DVD-Video disc, the progressive scan line automatically converts the film material to optimum quality (see PureCinema on page 39).

1080/60p and 1080/24p output video

This player supports a variety of output video resolutions, up to 1080 lines/60 frames per second, progressive (HDMI only), making it ideal for playing high-definition Blu-ray Discs.

Connect to a local area network

Connect this player to one or more computers in your house via Ethernet and use them as media servers, streaming audio, video and still image files for playback on your TV and/or audio system.
High quality audio

This player is compatible with Dolby TrueHD, Dolby Digital Plus, DTS-HD High Resolution Audio, Dolby Digital and DTS.
To enjoy Dolby TrueHD, Dolby Digital Plus or DTS-HD High Resolution Audio at the maximum performance, connect this player to a Dolby TrueHD, Dolby Digital Plus or DTS-HD High Resolution Audio-compatible AV amplifier using an HDMI cable. Then, after placing a Blu-ray Disc recording a material with Dolby TrueHD, Dolby Digital Plus or DTS-HD High Resolution Audio, open the disc menu and select “Dolby TrueHD”, “Dolby Digital Plus” or “DTS-HD High Resolution Audio” from the menu.
For the output conditions of various audio types, see About the audio output settings on page 44.

Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.
“DTS” and “DTS Digital Surround” are registered trademarks of DTS, Inc.

Movie file playback
Video files encoded in the Windows Media™ Video (WMV), MPEG-1/2 formats are playable from DVD-R/-RW, or from a connected media server.

Music file playback
This player supports various audio formats, including Windows Media Audio (WMA), MP3 and WAV. You can play files stored on DVD-R/-RW, or from a connected media server.

Photo file playback
PNG, GIF and JPEG image files — including the popular EXIF format used by most digital cameras to store picture shooting information together with the JPEG image — are playable from DVD-R/-RW, or from a connected media server.

Windows Media™ is a trademark of Microsoft Corporation.
This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from Microsoft Licensing, Inc.

What’s in the box
Please confirm that the following accessories are in the box along with these operating instructions when you open it:
• Remote control
• AA/R6P dry cell batteries x2
• Stereo audio cable (red/white plugs)
• Video cable (yellow plugs)
• LAN cable
• Power cable
• Warranty card

Putting the batteries in the remote control

• Insert two AA/R6P batteries into the battery compartment following the indications (+, −) inside the compartment.

Important
Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:
• Don’t mix new and old batteries together.
• Don’t use different kinds of batteries together — although they may look similar, different batteries may have different voltages.
• Make sure that the plus and minus ends of each battery match the indications in the battery compartment.
• Remove batteries from equipment that isn’t going to be used for a month or more.
• When disposing of used batteries, please comply with governmental regulations or environmental public instruction’s rules that apply in your country/area.

WARNING
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.

Using the remote control
Please keep in mind the following when using the remote control:
• Make sure that there are no obstacles between the remote and the remote sensor on the unit.
• The remote has a range of about 23 feet (at an angle of 30º from either side of the sensor). Use within this range in front of the remote control sensor on the front panel.
• Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the unit’s remote sensor.
• Remote controllers for different devices can interfere with each other. Avoid using remotes for other equipment located close to this unit.
• Replace the batteries when you notice a fall off in the operating range of the remote.
• When the batteries run down or you change the batteries, the TV preset codes are automatically reset. See Resetting the player on page 47 to reset them.
Disc/content format playback compatibility

General disc compatibility
This player is compatible with a range of disc types (media) and formats. Compatible discs will usually feature one of the following logos on the disc and/or disc packaging. Note however that some disc types, such as recordable BD, DVD or CD, may be in an unplayable format — see below for further compatibility information.

- “Blu-ray Disc” and are trademarks.
- is a trademark of DVD Format/Logo Licensing Corporation.

This player may not be able to play perfectly every disc that features one of the logos listed above. Please contact Pioneer if you find a disc that won’t play properly.

BD compatibility
- This player can play BD-ROM discs.
  - BD-ROM discs should conform to BD-ROM Profile 1.
- This player can play BD-R discs.
  - This player is compatible with Blu-ray Disc Recordable format Ver. 2\(^1\).
  - This player is not compatible with Blu-ray Disc Recordable format Ver. 1\(^2\).
- This player can play BD-RE discs.
  - This player is compatible with Blu-ray Disc Rewritable format Ver. 3\(^1\).
  - This player is not compatible with Blu-ray Disc Rewritable format Ver. 1\(^3\) and Ver. 2\(^2\).
- This player can play 12 cm discs, but cannot play 8 cm discs.

DVD compatibility
- This player can play DVD-ROM (DVD-Video)/-R/-RW discs.
  - This player can play DVD-R/RW discs recorded as DVD-Video format.
  - This player cannot play unfinalized DVD discs and VR mode DVD discs.

- This player may not be able to play perfectly every disc that features one of the logos listed above. Please contact Pioneer if you find a disc that won’t play properly.

CD compatibility
- This player can play CD-DA discs.
- PC files stored on CDs cannot be played back.
- Regarding copy protected CDs: This product is designed to conform to the specifications of the Audio CD format. This player does not support the playback or function of discs that do not conform to these specifications.
- The audio signals of a CD output at the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) jacks of this player are protected from copying and cannot be copied on other external components.

DualDisc playback
A DualDisc is a new two -sided disc, one side of which contains DVD content – video, audio, etc. – while the other side contains non-DVD content such as digital audio material.

The DVD side of a DualDisc will play in this product (excluding any DVD-Audio content).

The non-DVD, audio side of the disc is not compatible with this player.

It is possible that when loading or ejecting a DualDisc, the opposite side to that being played will be scratched. Scratched discs may not be playable.

For more detailed information on the DualDisc specification, please refer to the disc manufacturer or disc retailer.

PC-created disc compatibility
Discs recorded using a personal computer may not be playable in this unit due to the settings of the application software used to create the disc. Check with the software publisher for more detailed information.

Important
- This player cannot play discs other than the ones listed in this chapter.
- Do not use 8 cm disc adapters with this player. 8 cm discs can be played directly by placing then in the 8 cm disc depression in the center of the disc tray.

File compatibility
- Compatible media: DVD-R, DVD-RW, media server on network (some formats may not be supported depending on the media server type).
- Even when they are in a supported format, some files may not play or display depending on the content.
- Even when playing a supported format, some functions may not operate properly depending on the content.
- DRM-protected contents on DVD-R/-RW discs or on media servers that do not support WMDRM, and otherwise incompatible files are skipped.

Note
1 The standard for recording of BDMV format data.
2 The standard for recording of BDAV format data.
3 The standard that uses the provided cartridge.
Please note, the following file naming structure needs to be adhered to when creating/renaming any digital media to be played on the unit (either through computer-created disc media, or the Home Media Gallery connection). This disclaimer does not apply to any media purchased at retail locations: Due to the coding system used, this player will only read/play files named using standard alphanumeric characters. Any other characters or symbols (e.g. characters with accents) used in naming the file will render it unreadable/unplayable by the unit. If you encounter any difficulties with playback of media, please rename the file in accordance to this standard.

**Supported video formats**
- Windows Media Video 9 (WMV9)¹
  - MP@HL
- Windows Media Video 9 (WMV9) Advanced Profile (VC-1)
  - AP@L3
- MPEG-2 (PS/TS)
  - MP@HL
- MPEG-1

**Supported audio formats**
- Windows Media Audio 9 (WMA9)
  - Bit rate: up to 192 kbps (constant bit-rate (CBR)); up to 384 kbps (variable bit-rate (VBR))
  - Sampling rates: 44.1 kHz or 48 kHz
- Windows Media Audio 9 Professional (WMA9 Pro)
  - Bit rate: up to 768 kbps
  - Sampling rates: 44.1 kHz or 48 kHz
  - Channels: up to 5.1ch
- MPEG-1 Audio Layer 3 (MP3)
  - Sampling rates: 32 kHz, 44.1 kHz or 48 kHz
  - Bit rate: up to 320 kbps
- Linear PCM (WAV)
  - Sampling rates: 44.1 kHz or 48 kHz

**Supported image formats**
- JPEG
  - File format: JFIF or Exif
  - Resolution: up to 4096 x 4096 pixels
  - Baseline JPEG and progressive JPEG are supported
- PNG
  - Resolution: up to 4096 x 4096 pixels
- GIF
  - Resolution: up to 4096 x 4096 pixels

**File extensions**
The following file extensions should be used with this player:
- Video
  - `.
  - .wmv`
  - `.mpeg`
- Audio
  - `.
  - .wma`
  - `.mp3`
  - `.wav`
- Image
  - `.
  - .jpg`
  - `.jpeg`
  - `.png`
  - `.gif`

Even when files have a supported file extension, some files may not play or display depending on the content or media server type.

**Titles and chapters**
BD and DVD movie discs are divided into one or more titles. Titles may be further subdivided into chapters.

**DVD-Video regions**
All commercially produced DVD movies (DVD-Video discs) carry a region mark on the case somewhere that indicates which region(s) of the world the disc is compatible with. This player also has a region mark, which you can find on the rear panel. Discs from incompatible regions will not play in this player. Discs marked ALL will play in any player.

The diagram below shows the various DVD regions of the world.

This player is region 1.

**BD-ROM regions**
Like DVD movies, BD movie discs (BD-ROM) also carry a region mark that indicates which region(s) of the world the disc is compatible with. This player also has a region mark, which you can find on the rear panel. Discs from incompatible regions will not play in this player. Discs marked ALL will play in any player.

The diagram below shows the various BD-ROM regions of the world.

This player is region A.

¹ This player is not compatible with WMV9 Complex Profile.
Chapter 2
Connecting up

Rear panel

1 AC IN
Connect the supplied power cord here, then plug into a power outlet.

2 CONTROL IN
Use to control this player from the remote sensor of another Pioneer component with a CONTROL OUT terminal and bearing the mark. Connect the CONTROL OUT of the other component to the CONTROL IN of this player using a mini-plug cord (page 16).

3 HDMI OUT
HDMI output providing a high quality interface for digital audio and video (page 13).

4 LAN (100)
Ethernet port for 100BASE-TX (100 Mbps) network connection (page 16).

5 VIDEO OUT and S-VIDEO OUT
Video output (composite) that you can connect to your TV or AV receiver using the supplied video cable (page 12). S-Video output that you can use instead of the VIDEO OUT jacks (page 14).

6 COMPONENT VIDEO OUT
High quality video output for connection to a TV, monitor or AV receiver that has component video inputs. Connect using a commercially available three-way component video cable (page 13).

7 DIGITAL AUDIO OUT (COAXIAL/OPTICAL)
Digital audio outputs for connection to a PCM, Dolby Digital, and/or DTS-compatible AV receiver (page 15).

8 AUDIO OUT (5.1ch)
Multi-channel (5.1ch) analog audio outputs for connection to an AV receiver with multi-channel analog audio inputs (page 15).

9 AUDIO OUT (2ch)
Stereo analog audio outputs for connection to your TV, AV receiver or stereo system (page 12).

10 IR IN
Jack for an external IR (infrared) remote control receiver (page 17).

11 IR RECEIVER switch
Switch to the setting compatible with your external IR remote control receiver (page 17).

Tip
- When connecting this player to your TV, AV receiver or other equipment, make sure that all components are ‘switched off’ and ‘unplugged’.
- You may find it useful to have the manuals supplied with your other components handy when connecting this player.
Easy connections

This is a basic setup that allows you to watch discs on your TV using just the cables supplied.

**Important**

- This player is equipped with copy protection technology. Do not connect this player to your TV via a VCR using AV cables, as the picture from this player will not appear properly on your TV. (This player may also not be compatible with some combination TV/VCRs for the same reason; refer to the manufacturer for more information.)
- Do not unplug the player from the power outlet while it is switched on.
- Do not plug this player into a switched power supply found on some amplifiers and AV receivers.

1. Connect the VIDEO OUT and one pair of AUDIO OUT (2ch) jacks to a set of audio/video inputs on your TV.
   Use the supplied red/white stereo audio and yellow video cables. Make sure you match up the left and right audio outputs with their corresponding inputs for correct stereo sound.
   See *Using other types of video output* below if you want to use a different type of connection.

2. Connect the supplied AC power cord to the AC IN inlet, then plug into a power outlet.

---

**Using other types of video output**

This player has standard (composite), S-Video and component video outputs, as well as an HDMI connector (for digital video/audio).

In order to be able to watch HD (high definition) BDs at their full resolution, you should connect the player to your TV using either the component video output, or (even better) the HDMI output.

An HDMI connection will additionally give you HD output when watching DVDs.

If your display has neither of these connection types, an S-Video jack is also provided, which should give slightly better video quality than using the standard video output.
Connecting for HDMI output

If you have an HDMI or DVI (with HDCP) equipped monitor or display, you can connect it to this player using a commercially available HDMI cable that supports the HDMI 1.3 specification (Category 2) or later.

The HDMI connector outputs uncompressed digital video, as well as most digital audio formats.

**Important**

- This unit has been designed to be compliant with HDMI (High-Definition Multimedia Interface). Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers.

- If you change the display connected to the HDMI output, you will also need to change the output video resolution settings to match the new display (see Changing the output video resolution on page 14 to do this).

- The HDMI connection is compatible with 8-channel linear PCM signals (44.1 kHz to 192 kHz, 16 bit/20 bit/24 bit), Dolby Digital, Dolby TrueHD, Dolby Digital Plus, DTS-HD High Resolution Audio and DTS (5.1 channel signals) bitstreams.

- Depending on the HDMI cable being used, 1080p output may not appear correctly.

- If you connect a DVI device to the HDMI output of this player, ensure that it is compliant with High-bandwidth Digital Content Protection (HDCP). If you choose to connect to a DVI connector, you will need a separate adaptor (DVI → HDMI) to do so. A DVI connection, however, does not support audio signals. Consult your local audio dealer for more information.

- Use an HDMI cable (not supplied) to connect the HDMI OUT interconnect on this player to an HDMI interconnect on an HDMI-compatible display.

After switching on the player you may need to set the output video resolution and HDMI color space for compatibility with your display. See Changing the output video resolution on page 14 and HDMI Color Space in Using the Initial Setup menu on page 41.

**About HDMI**

HDMI supports both standard and high-definition video, plus standard and multi-channel surround-sound audio. HDMI features include uncompressed digital video, one connector (instead of several cables and connectors), and communication between the AV source and AV devices such as DTVs.

HDMI was developed to provide the technologies of High-bandwidth Digital Content Protection (HDCP) as well as Digital Visual Interface (DVI) in one specification. HDCP is used to protect digital content transmitted and received by DVI-compliant displays.

**About HDMI Control**

You can enable HDMI Control by turning the HDMI Control setting to On for all components connected via HDMI cable. Check the video output from this unit once you have completed making connections and settings for all components. You will need to check the video output each time you change connected components or remove the HDMI cable.

The HDMI Control functions may not operate properly if you do not use an HDMI cable that supports the HDMI 1.3 specification (Category 2) or later.

**Connecting using the component video output**

You can use the component video output instead of the standard video out jack to connect this player to your TV (or other equipment).

- Use a component video cable (not supplied) to connect the COMPONENT VIDEO OUT jacks to a component video input on your TV, monitor or AV receiver.

Be careful to match up the colors of the three jacks for correct connection.

---

1 There are some restrictions depending on the sampling rate. For more information see About the audio output settings on page 44.
Changing the output video resolution

Use the OUTPUT RESOLUTION button located on both the front panel and the remote control to switch the output video resolution for the HDMI and component video outputs.

The table below shows the output settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>HDMI output</th>
<th>Component output</th>
<th>Video/S-Video output</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO</td>
<td>TV’s preferred resolution¹ ²</td>
<td>TV’s preferred resolution²</td>
<td>480/60i</td>
</tr>
<tr>
<td>480i</td>
<td>480/60i</td>
<td>480/60i</td>
<td>480/60i</td>
</tr>
<tr>
<td>480p</td>
<td>480/60p</td>
<td>480/60p</td>
<td>480/60i</td>
</tr>
<tr>
<td>720p</td>
<td>720/60p</td>
<td>720/60p</td>
<td>480/60i</td>
</tr>
<tr>
<td>1080i</td>
<td>1080/60i</td>
<td>1080/60i</td>
<td>480/60i</td>
</tr>
<tr>
<td>1080p</td>
<td>1080/60p</td>
<td>480/60i</td>
<td>480/60i</td>
</tr>
<tr>
<td>Source</td>
<td>Dependent on source¹ ²</td>
<td>Dependent on source² ³ ⁴ ⁵ ⁶</td>
<td>480/60i</td>
</tr>
<tr>
<td>Direct</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note

¹ Refer to 24p output below for conditions.
² The video output will be interrupted when switching the video output.
³ For resolutions that cannot be output by component output, video is output in the following resolutions: 480/60i
⁴ Video output is 480i during copy protected DVD-Video playback.
⁵ Video output during BD-ROM playback is 480i depending on the disc.
⁶ The frame frequency for 1080/24p is still 60 Hz.

24p output

For smooth presentation of 1080/24p or 720/24p video with an HDMI-equipped display compatible with 1080/24p input, set 24p Direct Out (page 41) on this player to On.

This player will output 1080/24p video over HDMI in the following cases:
- 1080/24p video: When the output video resolution is set to Auto or Source Direct.
- 720/24p video: When the output video resolution is set to Auto.

Note

- Even when 24p Direct Out is set to On, if a TV not compatible with 1080/24p video is connected, the actual frame frequency of the video output will be 60 Hz.
- The video output will be interrupted when switching the video output from 1080/24p or 720/24p to other output video resolutions, or when switching to 1080/24p or 720/24p from other output video resolutions.

Connecting using an S-Video output

You can use the S-Video output instead of the VIDEO OUT jack to connect this player to your TV (or other equipment).

- Use an S-Video cable (not supplied) to connect the S-VIDEO OUT to an S-Video input on your TV, monitor or AV receiver. Line up the small triangle above the jack with the same mark on the plug before plugging in.

Note

- Depending on your display, some of the settings may result in the picture disappearing. In this case, press OUTPUT RESOLUTION repeatedly until the picture re-appears.
- 1080/60p and 1080/24p output is only compatible with HDMI displays. They are not compatible with the component video output.
- When output video resolution is set to 720p, 1080i or 1080p, video is output in 16:9 format even if TV Aspect Ratio (page 41) is set to 4:3 (Standard).
- If the contours of the displayed subjects look jagged or blurred, try setting the output video resolution to 480i. (If you connected this player to your TV with the HDMI connection and the picture disappears when you switch the output video resolution to 480i, use the component connection with the 480i output video resolution or S-Video, the standard composite connection instead.)
- Note that when using a Component Video connection with a TV or other AV component (not using HDMI), 480i video may be output in 480/60i.
Connecting for surround sound

This player offers both analog and digital connections for surround sound. The digital outputs (coaxial and optical) provide a convenient way to connect this player to an AV receiver with built-in Dolby Digital and/or DTS decoders. The 5.1ch analog outputs can be used to connect to an AV receiver with multi-channel analog audio inputs. Check the operating instructions that came with your AV receiver for more on these connections.

Digital connections

- Connect one of the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) jacks on this player to a digital input on your AV receiver.

Optical connection: Use an optical cable (not supplied) to connect the DIGITAL AUDIO OUT OPTICAL jack to an optical input on your AV receiver.

- When inserting the plug, the protective shutter will open and you should hear the plug click into position when fully inserted. Take care not to force the plug as this may damage the shutter, the cable and/or the player.

Coaxial connection: Use a coaxial cable (not supplied) to connect the DIGITAL AUDIO OUT COAXIAL jack to a coaxial input on your AV receiver.

Note

- Linear PCM audio output over the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) jacks is limited to 2ch, 48 kHz.

Analog connections

- Connect the AUDIO OUT (5.1ch) jacks on this player to the multi-channel analog inputs on your AV receiver.

Use a dedicated six-way cable (not supplied), or three sets of stereo cables (not supplied) to connect the six channels. Check carefully that each channel is connected to its corresponding channel on the AV receiver. After connecting, you can make settings for the number of speakers connected to your system — see the Speakers section of the Initial Setup menu on page 43 and Speaker Setup on page 45.
Network connection

This player can be connected to a local area network (LAN) via the Ethernet port on the rear panel.

After making the physical connection the player needs to be set up for network communication. This is done from the Initial Setup menu — see Setting up for network use on page 21 for detailed instructions.

For best performance, we recommend using a 100BASE-TX compatible PC and Ethernet hub.

Connecting via an Ethernet hub

If you already operate one or more PCs on a local area network, you can integrate this player by connecting it to the Ethernet hub using the included LAN cable.

In the example configuration below, this player would be able to access content from either of the PCs.

Connecting directly to a PC

If you only need to use one PC to act as a media server, you can connect this player directly to the PC using the included LAN cable.

Controlling this player via another Pioneer component

The CONTROL IN jack allows you to control this player via the remote control sensor of another Pioneer component — typically an AV receiver — that has a CONTROL OUT jack. Remote control signals are passed through to the player from the remote sensor of the other component, allowing you greater freedom in the placement of your player.

- Use a miniplug cord (not supplied) to connect the CONTROL IN jack of this player with the CONTROL OUT jack of your other Pioneer component.
- You will also need to connect a coaxial digital cable, analog audio cable, or video cable.
- When connected via System Control, point the remote control toward the connected component (such as an AV receiver). The remote will not work correctly when pointed at this unit.
- You cannot connect use System Control with components that do not have a System Control jack or with components manufactured by companies other than Pioneer.
Using an external IR receiver with this player

If you prefer to keep your AV equipment in a closed cabinet, you can use an external IR receiver connected to the IR IN jack. You can thus have just the receiver outside of the cabinet and still be able to control the player.

Tip

- You may need to set the IR RECEIVER switch (located under the IR IN jack) for this player to recognize the IR receiver correctly.
- This player does not supply power to the external IR receiver. Please see the operating instructions of the IR receiver for the power requirements.
Chapter 3
Controls and displays

Front panel

1 STANDBY/ON
Press to switch the player on (the power indicator and indicator in the middle of the unit light up when the power is on) or into standby.

2 Disc tray

3 OPEN/CLOSE
Press to open or close the disc tray.

4 Indicators
• FL OFF – Lights when the display and other indicators are switched off.
• HD – Lights when the video output is 720p, 1080i or 1080p (HDMI), or 720p or 1080i (component).
• LAN – Lights when there is an active local area network (LAN) connection.
• HDMI – Lights when a device is connected via HDMI.

5 Display
Shows disc status and playback information.

Front panel display

1
Lights during playback of a disc.

2 Character display
Shows various playback information — disc time, chapter and title number, etc.

6 (play)
Press to start or resume playback.

7 (stop)
Press to stop playback (you can resume playback by pressing ▶).

8 (pause)
Press to pause playback. Press again to restart.

9 Skip/scan buttons
• ▶▶ – Press to jump to the next chapter, track, etc. Press and hold for fast forward scanning.
• ◀◀ – Press to jump back to the beginning of the current chapter, track, etc. then to previous chapters, tracks, etc. Press and hold for fast reverse scanning.

10 OUTPUT RESOLUTION
Press to switch the output resolution over HDMI and component video outputs. See Changing the output video resolution on page 14.
Remote control

1. **STANDBY/ON**
   Press to switch the player on or into standby.

2. **OPEN/CLOSE**
   Press to open or close the disc tray.

3. **FL DIMMER**
   Press to change the brightness of the display. When the display and other indicators are off, the FL OFF indicator (page 18) lights.

4. **Number buttons**
   Use to enter title, chapter or track numbers, etc.
   - **CLEAR**: Press to clear a numeric entry, etc.
   - **ENTER**: Press to select an option or execute a command.

5. **HOME MEDIA GALLERY**
   Press to display the Home Media Gallery screen (see page 32).

6. **OUTPUT RESOLUTION**
   Press to switch the output resolution over HDMI and component video outputs (see pages 14 and 25).

7. **AUDIO**
   Press to select the audio channel or language (see page 25).

8. **SUBTITLE**
   Press to select a subtitle display (see page 25).

9. **DISPLAY**
   Press to display information (see page 25).

10. **ANGLE**
    Press to change the camera angle during BD-ROM or DVD-Video movie multi-angle scene playback (see page 25).

11. **DISC NAVIGATOR/TOP MENU**
    Press to display the top menu of a BD-ROM or DVD-Video disc. When playing a DVD-R/-RW disc, press to display/exit the Disc Navigator.

12. **POPUP MENU/MENU**
    BD-ROM: Press to display/hide the pop-up menu.
    DVD-Video: Press to display the disc menu (if there is one).

13. **and ENTER**
    Use to navigate on-screen displays and menus. Press **ENTER** to select an option or execute a command.

14. **HOME MENU**
    Press to display the player’s Home Menu, from which you can access most of the player’s functions.

15. **RETURN**
    Press to return to a previous screen.

16. **Red/Green/Blue/Yellow**
    Use to navigate BD-ROM menus.

17. **Playback controls**
    - **||||**: Press to start reverse/forward scanning.
    - **►**: Press to start or resume playback.
    - **II**: Press to pause playback; press again to restart.
    - **■**: Press to stop playback (you can resume playback by pressing **►**).
    - **||||**: Press to jump to the start of the previous/next chapter/track.
    - **|||/|**: Use for slow motion and step frame (see page 24).

18. **PLAY MODE**
    Press to change the Play Mode (repeat play, for example) (see page 24).

19. **PHOTO ZOOM**
    Press to zoom the screen when displaying a still image (see page 25).

20. **VIDEO ADJUST**
    Press to display the Video Adjust screen (see page 39).

21. **TV CONTROL buttons**
    See also Setting up the remote to control your TV on page 48.
    - **O**: Press **O** to turn the TV on or into standby.
    - **VOLUME +/-**: Use to adjust the volume.
    - **CHANNEL +/-**: Use to select TV channel.
    - **INPUT SELECT**: Press to change the input function of the TV.
Chapter 4
Getting Started

Switching on and setting up

When you switch the player on for the first time the Setup Navigator screen appears. We recommend using this to make a few basic player settings.

1 Switch on your TV and set the video input to this player.

2 Press the STANDBY/ON button on the remote control or the front panel to switch on.
   • It can take up to one minute for the unit to turn on.
   • When you switch on for the first time, your TV should display the Setup Navigator screen. (If the Setup Navigator doesn’t appear, you can also access it from the Initial Setup menu; see page 43).
   • When you have this unit connected to a plasma display that is compatible with HDMI Control, language settings are imported from the plasma display’s OSD settings before Setup Navigator begins.

3 Use the ↑/↓ buttons to choose a language, then press ENTER.

4 Press ENTER to start setting up using the Setup Navigator.

   - Setup Navigator
     Before using, make some simple settings for the BD player.
     Start
     Cancel

     Please use the Initial Setup if you want to make more detailed settings.

   If you don’t want to use the Setup Navigator, press ↓ to select Cancel, then press ENTER to exit the Setup Navigator.

5 Use the ↑/↓ buttons to select the output video resolution then press ENTER.

   - Setup Navigator
     Output Video Resolution: 480i, 480p, 720p, 1080i, 1080p, or Source Direct, then skip to step 7 (the aspect ratio will automatically be set to 16:9 (Widescreen)). Generally, the Auto setting is recommended.

6 Use the ↑/↓ buttons to select the aspect ratio of your TV then press ENTER.

   - Setup Navigator
     TV Aspect Ratio: 16:9 (Widescreen), 4:3 (Standard).

   If you’re using an S-Video or composite video connection, select S-Video/Video only.

   If you’re using a component video connection, match the output setting with the capabilities of your TV. Select from: 480i, 480p, 720p, 1080i or Don’t Know. If you select 720p or 1080i, skip the next step since the aspect ratio will automatically be set to 16:9 (Widescreen).

   - Setup Navigator
     Output Video Resolution: 480i, 480p, 720p, 1080i or Don’t Know

   If you have a widescreen TV, select 16:9 (Widescreen); if you have a standard size TV, select 4:3 (Standard).
7 Select 'Finish Setup' to accept the settings and exit the Setup Navigator, or 'Go Back' to go through the settings again.

You can run the Setup Navigator at any time by selecting it from the Options menu — see page 43.

About the screen saver
If the player is stopped or paused for more than five minutes with no other operation, the screen saver starts.

Once the screen saver has started, pressing any button on the front panel or remote will clear it and return the player to normal operation.

The screen saver starts for CDs and music files after five minutes pass without any commands input, whether or not playback has been paused or stopped.

Using the on-screen displays
This player makes extensive use of graphical on-screen displays (OSDs). You should get used to the way these work as you'll need to use them when setting up the player, using some of the playback features, and when making more advanced settings for audio and video.

All the screens are navigated in basically the same way, using the cursor buttons (↑/↓/←/→) to change the highlighted item and pressing ENTER to select it.

Tip
• Information at the bottom of an OSD screen explains the currently selected menu item and shows which buttons can be used for that screen.

Setting up for network use
If you’ve connected this player to a local area network (LAN) you may need to make a few settings before you can use the Home Media Gallery feature over the network.

1 Press HOME MENU and select 'Initial Setup'.
2 Select 'Network'.
3 Select 'Device Name' then 'Next Screen'.

4 Use the on-screen keypad to enter a name for the player. This is how the player will appear to connected devices on the local area network.

5 Select 'DONE' to register the name and exit the input screen.

6 Select 'IP Configuration' then 'Next Screen' to display the IP configuration screen.

7 Set 'Auto set IP Address' to 'On'.

If there is a DHCP server on the local area network (LAN), this player will automatically be allocated an IP address. If you’re using a broadband router or broadband modem that has a DHCP (Dynamic Host Configuration Protocol) server function, select On. The IP address will automatically be determined.

If there is no DHCP server on the network and you select On, this player will use its own Auto IP function to determine the IP address.

• If you want to set the IP address manually, select Off then set the IP Address, Subnet mask and Default gateway: Use the ↑/↓/←/→ buttons to select a field; use the number buttons to enter a value. Press ENTER to finish and exit the screen.

8 Press HOME MENU to exit the Initial Setup menu.

You should now be able to use the Home Media Gallery (accessible from the Home Menu). See Using the Home Media Gallery on page 32 for more.

• For information on DHCP refer to the network device’s operating instructions.

• You may need to contact your service provider or network administrator when manually entering an IP address.
Playing movies, music and photos

Using this player, you can enjoy watching movies, listening to music and browsing photos, from DVD discs or from a media server on the network. How you navigate, browse and play content varies according to the format of the content and the media:

- To play a DVD movie disc (i.e., one containing DVD-Video application format), see Playing BD/DVD movies and Audio CD below.
- To play a DVD-R/-RW disc recorded with movie, music or photo files, turn to Using the Disc Navigator on page 27.
- To play content from a media server, please refer to Using the Home Media Gallery on page 32.

Playing BD/DVD movies and Audio CD

The basic playback controls for playing BD/DVD movies and Audio CD discs are covered here. Further functions are detailed in the next chapter.

When playing BD-ROM discs:
- Commercially produced BD-ROM movie discs often go straight to the disc menu when playback is started (sometimes preceded by an opening sequence). Navigate through the disc menu using the cursor keys (↑/↓/←/→) and the ENTER button. You can also use the number buttons to select numbered items in some menus.
- To get back to the top menu, press TOP MENU.
- Some BD-ROM discs feature pop-up menus that do not interrupt playback; press POPUP MENU/MENU to access these.

When playing DVD-Video discs:
- Commercially produced DVD movies often go straight to the disc menu when playback is started (sometimes preceded by an opening sequence). Navigate the disc menu using the cursor keys (↑/↓/←/→) and ENTER buttons. You can also use the number buttons to select numbered items in some menus.
- To get back to the top menu, press TOP MENU.
- To get back to the disc menu, press POPUP MENU/MENU.

When playing Audio CDs:
- For more information see Playback controls on page 23.

5 When you've finished using the player, eject the disc and switch the player back into standby.
- To open/close the disc tray, press OPEN/CLOSE. Remove the disc before putting the player into standby.
- Press STANDBY/ON to switch the player into standby.
Playback controls

Resuming playback

The resume function offers a convenient way to restart playback from where you stopped it previously.

Resuming playback of BD/DVD movies and Audio CDs
If you stop playback before the end of the disc, the playback stop position is stored so that you can resume watching the disc from the same place later.

- To resume playback, press ▶. Playback will start from the stored resume position. For Audio CDs, playback resumes from the beginning of the track.
- Press ■ again to cancel the resume function.

Note
In the following case, the resume position is cleared:

- Eject the disc.
- Use Home Media Gallery/Disc Navigator.
- Switch the player off (DVD resume position remains saved).
- Certain BD-ROM discs cannot be restarted from the position in which they are paused.

Resuming playback of movie, music and photo files
Movie and music files are resumed from the start of the title/track (rather than the stop position within the title/track): photo slideshow playback is resumed from the photo file within the slideshow.

- If you interrupt playback of a movie or slideshow by pressing RETURN to display the Disc Navigator or Home Media Gallery screen, you can still resume playback of the same title/slideshow photo using the ▶ button, regardless of what is highlighted on the screen. (Use the ENTER button to start playback of the currently highlighted item in the Disc Navigator/Home Media Gallery.)

- Some actions in the Disc Navigator/Home Media Gallery (such as changing the Browse category) will cause the resume position to be lost.

Scanning video and audio

You can fast-scan BD/DVD movies or Audio CDs, forward or backward at various speeds.

1. During playback, press ◀ or ▶ to start scanning. There is no sound while scanning video and audio.
2. Press repeatedly to increase the scanning speed. The scanning speed is shown on-screen.
3. To resume normal playback, press ◀. Depending on the disc, normal playback may automatically resume when a new chapter is reached on a BD/DVD movie disc.

Selecting titles, chapters and tracks directly

You can select titles, chapters and tracks directly with BD, DVD movies and Audio CDs.

- Use the number buttons to select a title, chapter or track.
  - If the disc is stopped, playback starts from the selected title or track.
  - If the disc is playing, playback jumps to the start of the selected chapter or track.

Skipping content

You can skip over content during playback of BD and DVD movies, Audio CDs, movie and song files, and photo slideshows.

- During playback, press ◀ or ▶ to skip content.1
  - When playing a BD or DVD movie, playback jumps to the start of the previous/next title, chapter or track. (If the disc is stopped, playback will start.)
  - During movie or song file playback, the previous or next file will start playing.
  - During photo slideshow playback, you can skip to the previous or next photo.

Note

1 With some titles on BD-ROM or DVD-Video discs it is not possible to jump to the start of the selected title or chapter.
Playing video in slow motion

You can play BD and DVD movies at different forward slow motion speeds.

1 During playback, press \(\text{\(\uparrow\)}\) to start slow motion playback.
   • The slow motion speed is shown on-screen.
   • There is no sound during slow motion playback.
2 Press repeatedly to change the slow motion speed.
3 To resume normal playback, press \(\text{\(\uparrow\)}\).
   Depending on the disc, normal playback may automatically resume when a new chapter is reached.

Video step forward and step reverse

You can use step forward and step reverse when playing a BD or DVD movie.

1 During playback, press \(\text{\(\uparrow\)}\) (pause).
2 Press \(<\) or \(>\) to move the video forward or back one step.
3 To resume normal playback, press \(\text{\(\uparrow\)}\).
   When playing a BD or DVD movie, normal playback may automatically resume when a new chapter is reached.

Changing the Play Mode

Use the \text{PLAY MODE} button on the remote control to select one of the various playback modes for BD and DVD movie discs, Audio CD discs, movie and music files and photo slideshows.

You can’t select a Play Mode while a BD or DVD disc menu is being displayed, or while playing some BD/DVD movie titles, Audio CD, or movie and music files and photo slideshows.

• During playback, press \text{PLAY MODE} to change the Play Mode.
   See \text{Play Mode option compatibility} below for the options available with the disc/file you're playing.

   ➔ Time Search (see \text{Using time search} below)
   ➔ Title Search (see \text{Using title search} below)
   ➔ Repeat Chapter (repeats the current chapter)
   ➔ Repeat Title (repeats the current title)
   ➔ Repeat Track (repeats the current track)
   ➔ Repeat All (repeats the current browse list)
   ➔ Random (play tracks from an Audio CD, music files, or photo files in a random order)
   ➔ Repeat Off (cancels the repeat and random modes)

The current Play Mode is displayed on-screen. Press \text{CLEAR} to resume normal playback.

Play Mode option compatibility

The available options depend on what kind of disc/file is playing (✓ = available/✗ = unavailable):¹

<table>
<thead>
<tr>
<th>Play Mode Option</th>
<th>BD-ROM</th>
<th>DVD-Video</th>
<th>PC File (Music)</th>
<th>PC File (Movie)</th>
<th>PC File (Photo)</th>
<th>Audio CD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time Search</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Title Search</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Repeat Chapter</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Repeat Title</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Repeat Track</td>
<td>✗</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Repeat All</td>
<td>✗</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Random</td>
<td>✗</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Repeat Off</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Using time search

You can navigate directly to a certain point in a BD or DVD movie, or in a movie file.¹²

1 During playback, press \text{PLAY MODE} and select ‘Time Search’.
2 Use the number buttons to enter a time in hours, minutes and seconds for playback to resume from. For a BD or DVD movie, the time you enter should be the time into the currently playing title. For a movie file it will be the playback time into the file.
   • For example, press 4, 5, 0, 0 to have playback start from 45 minutes into the title/file. For 1 hour, 20 minutes, press 1, 2, 0, 0.
   • Press \text{CLEAR} to clear the input.
3 Press \text{ENTER} to start playback from the time you entered.

Using title search

You can directly jump to the start of any title on a BD-ROM or DVD-Video.¹²

1 During playback, press \text{PLAY MODE} and select ‘Title Search’.
2 Use the number buttons to select a title.
   Press \text{CLEAR} to clear the input.
3 Press \text{ENTER} to start playback of the title you selected.
Switching camera angles

Some BD and DVD movies feature scenes shot from two or more angles — check the disc box for details.

- During playback, press **ANGLE** to switch the angle.
- There may be a short delay after pressing the button before the angle changes.
- Playback resumes if the angle is changed while paused.

Zooming the screen

During playback of a photo slideshow you can zoom the screen to 2x view or 4x view.

1. During playback, press **PHOTO ZOOM** to change the zoom. Press repeatedly to cycle through: normal — 2x zoom — 4x zoom.
2. Use the cursor keys (↑/↓/←/→) to move the zoomed area of the screen.

The zoom mode is canceled when you stop playback.

Switching subtitles

Some BD and DVD movie discs have subtitles in one or more languages; the disc box will usually tell you which subtitle languages are available.

1. Press **SUBTITLE** repeatedly to select a subtitle option. The current subtitle language/option is displayed on-screen and in the front panel display.

2. To switch the subtitle display off, press **SUBTITLE** then **CLEAR**.

To set subtitle language preferences, see page 42.

Switching audio streams/channels

Some BD and DVD movie discs contain multiple audio streams that you can select on playback. These might be different audio languages and/or different audio formats (such as a DTS 5.1-channel sound track and a Dolby Digital 2-channel sound track).

1. Press **AUDIO** repeatedly to select an audio channel/stream option.

The current option is shown on-screen.

- There may be a short delay after pressing the button for the audio channel to change.

Tip

- Even when multiple audio streams are included in a movie file, you cannot select from among them while playing back of a movie file.
- To set audio language preferences, see page 42.

Displaying disc or file information

Various track, chapter and title information, as well as the video transmission rate for DVD and BD movies, can be displayed on-screen. The information available depends on the type disc or file, and whether it's playing or stopped.

- Press **DISPLAY** to show/switch the information displayed. Press **DISPLAY** repeatedly to change the displayed information.

Switching the output video resolution

You can switch the output video resolution for HDMI and component output.

- Press **OUTPUT RESOLUTION** repeatedly to select an output video resolution.

The current source and output video resolution are shown on-screen.

Note

- Depending on your display, some of the settings may result in the picture disappearing. In this case, press **OUTPUT RESOLUTION** repeatedly until the picture re-appears.
- See Changing the output video resolution on page 14 for more information.

Note

1. Some discs only allow you to change the subtitle language from the disc menu. Press **POPUP MENU/MENU** to access.
2. Some discs only allow you to change the audio language from the disc menu. Press **POPUP MENU/MENU** to access.
3. There may be instances with some discs where no information can be displayed.
Frequently Asked Questions

• Why won’t the disc I loaded play?
  First check that you loaded the disc the right way up (label side up), and that it’s clean and not damaged. See Taking care of your player and discs on page 46 for information on cleaning discs. If a disc loaded correctly won’t play, it’s probably an incompatible format or disc type. See Disc/content format playback compatibility on page 9 for more on disc compatibility.

• There’s no picture!
  Your TV is probably not compatible with the selected video output resolution. Check your TV for compatibility with progressive scan video and higher resolutions. Press the OUTPUT RESOLUTION button to switch the video output. See also Changing the output video resolution on page 14.

• I can’t see any picture, or get high definition video output when playing some BDs!
  When playing some discs, there may be no composite video, S-Video and/or component video output, or high-definition content may be converted to standard-definition 480i or 480p component output. This is for content protection. To view the disc, connect the player to an HDMI-compatible display. See Connecting for HDMI output on page 13.

• I have a widescreen TV so why are there black bars at the top and bottom of the screen when I play some discs?
  Some movie formats are such that even when played on a widescreen TV, black bars appear at the top and bottom of the screen. This is not a malfunction.

• I’ve connected to a HDMI/DVI compatible component but I can’t get any signal and the front panel HDMI indicator won’t light!
  Make sure that you’ve selected this player as the HDMI input in the settings for the component you’re using. You may need to refer to the instruction manual of the component to do this. An HDMI connection can only be made with other HDMI components, or a High-bandwidth Digital Content Protection (HDCP)-compatible DVI component. See Connecting for HDMI output on page 13 for more on HDMI compatibility.

• There’s no picture from the HDMI output!
  Make sure the output resolution of this player matches that of the component you have connected using HDMI. See Changing the output video resolution on page 14.

• Why is the playback sample rate of the DVD only 48 kHz instead of 96 kHz?
  Playback sample rate of the audio is downsampled to 48 kHz.

• My AV receiver is definitely compatible with 96 kHz Linear PCM audio, but it doesn’t seem to work with this player. What’s wrong?
  192 kHz/96 kHz BD and 96 kHz DVD discs only output digital audio downsampl ed to 48 kHz through the optical and coaxial outputs.
  96 kHz 7.1ch BD discs only output digital audio downsampl ed to 48 kHz through HDMI output when video output is 480i or 480p over HDMI. These are not malfunctions.

• Why is the mono audio on some discs rather quiet compared to other discs?
  When mono audio is split into the L and R channels, there may be a small loss of volume.

• There’s no sound when connected using HDMI!
  You won’t hear any sound from the HDMI output if your component is only DVI/HDCP-compatible.

• I can’t connect to my local area network!
  First of all check the settings of the media server you’re using. Make sure that if you made the network settings automatically on this player then you also select auto setup on the server. (Likewise, if you made the settings manually on the server, you should set up this player manually.)
Chapter 5
Using the Disc Navigator

Use the Disc Navigator to browse through the PC files on a DVD-R/-RW disc to find what you want to play. You can use the Disc Navigator when a disc is playing or stopped.

Important
• It’s not possible to use the Disc Navigator with DVD-Video discs, or with Audio CDs.

Introduction

Most of the features described in this chapter make use of on-screen displays. Navigate these using the ↑/↓/←/→ and ENTER. To go back to the previous menu or screen, use the RETURN button. The button guide at the bottom of every screen shows which buttons do what.

1 Press HOME MENU and select ‘Disc Navigator’ from the on-screen display.
Alternatively, press DISC NAVIGATOR.

2 Select ‘Movies’, ‘Photos’ or ‘Music’.
See the sections below for more information on each of these.

Movie Navigator

The movie section of the Disc Navigator allows you to browse and play all the compatible movie files stored on the loaded DVD-R/-RW disc (non-movie files are not displayed).

See also File compatibility on page 9 for more on compatible file types.

1 If you haven’t already done so, select ‘Disc Navigator’ from the Home Menu, then ‘Movies’.
You should see a list of all the movie files found on the disc, together with their playing times.

• When the movie length cannot be determined, it is displayed as “-:--”.

2 Use the ↑/↓ buttons to change the current selection (highlighted in yellow).
On the left side of the screen you can see file information, such as the genre, date and file format, for the current selection.

3 Press ENTER to play the currently highlighted movie.
Press ► to start or resume playback from the last title played.

Displaying the Movie Options menu

• Press ◄ to display the Movie Options menu:

• Play from Beginning: Play the selected movie from the beginning
• Add to Quicklist: Add the selected movie to your Quicklist. The Quicklist feature is a useful way to organize movie files for handy selection and playback. The Quicklist can contain up to 25 movies.¹

¹ Quicklists are lost when you exit Movie Navigator.
Displaying the browse menu

- Press ‐ to display the browse menu:

- All Movies: Display all movie files found on the disc.
- Browse: Browse movies by Genre, Quicklist, or Folders. See also Browsing movies below.
- Search: Find a movie by entering a name (or a few letters) to search for. The search results are narrowed down as you enter more letters. See also Searching movies below.
- Sort: Sort movies by date (oldest first or most recent first) or alphabetically by title or genre (‘A’ first or ‘Z’ first).

Browsing movies

The browse sub-menu gives you three ways to browse movies.

- Go back: Return to the previous menu.
- Genre: Display all movie genres and how many movies are in each one. Select a genre and press ENTER to see the list of movies in that genre.
- Quicklist: Display a list of all the movies currently in your Quicklist. Press ‐ to display the Movie Options menu, where you can start playback or remove movies from the Quicklist.
- Folders: Display a list of folders and movie files. Select a folder and press ENTER to see the list of subfolders/movies files in that folder.

Searching movies

From the Search sub-menu you can enter a few (up to 20) characters of a movie title or genre. As each character is entered into the search field the search results are dynamically updated, narrowing down the list of movies until you can see the one you’re looking for.

- Use the ↑/↓/←/→ and ENTER buttons to select characters from the keypad.
- Select SHFT to toggle between upper and lower case.
- Select SPC to insert a space.
- Select DEL to delete the character at the current cursor position in the search field.
- Select CLR to clear the search field.
- Select DONE to close the keypad and select movies or genres from the search results; select CANCEL to close the keypad and clear the search results.

Photo Navigator

The photo section of the Disc Navigator allows you to browse and display all the compatible photo files found on the loaded DVD-R/RW disc (non-photo files are not displayed).

See also File compatibility on page 9 for more on compatible file types.

1 If you haven’t already done so, select ‘Disc Navigator’ from the Home Menu, then ‘Photos’.
You should see a list of folders/photo files from the disc.
2 Use the ↑/↓ buttons to change the current selection (highlighted in yellow).
3 Select a folder and press ENTER to see the list of photos and subfolders within the folder.
4 Use the ↑/↓ buttons to change the current selection (highlighted in yellow).
   • Press ENTER to start full-screen slideshow playback from the currently selected photo.
   • Press ► to start or resume slideshow playback from the last photo displayed.

Displaying the Photo Options menu
   • Press ← to display the Photo Options menu.
   • Press ENTER to display the Photo Options menu when displaying photos in thumbnail view.

   • Slideshow: Start full-screen slideshow playback from the currently selected photo. During the slideshow, press ►■ to advance to the next photo; ■◄ to go back to the previous photo; ■II (pause) to pause the slideshow; ■■ to stop and exit the slideshow; PHOTO ZOOM to enlarge the picture on the screen.
   • Add to Quicklist: Add the selected photo to your Quicklist. The Quicklist feature is a useful way to organize photos for handy selection and slideshow playback. The Quicklist can contain up to 25 photos.¹

Displaying the browse menu
   • Press ← to display the browse menu.
   • From the left-most column, press ← to display the browse menu when displaying photos in thumbnail view.

   Depending on the browse menu, certain options may not be selectable.
   • All Photos: Display all photos found on the disc as thumbnail files.
   • Browse: Browse photos by Date, Quicklist or Folders. See also Browsing photos below.
   • Search: Find a photo by entering a name (or a few letters) to search for. The search results are narrowed down as you enter more letters. See also Searching photos on page 29.
   • Sort: Sort photos by date (oldest first or most recent first), or alphabetically by name (‘A’ first or ‘Z’ first).

Browsing photos
   The browse sub-menu gives you several ways to browse photos.

   • Go back: Return to the previous menu.
   • Date: Browse photos as thumbnails by date (year and month). Select a year then press ENTER to further browse by month. Select a month and press ENTER to see the photos taken that month.
   • Quicklist: Display thumbnails of all the photos currently in your Quicklist. Press ENTER to display the Photo Options menu, from where you can start slideshow playback or remove photos from the Quicklist:

   • Folders: Display a list of folders and photo files on the disc. Select a folder and press ENTER to see the subfolders/photos.

Searching photos
   From the Search sub-menu you can enter a few (up to 20) characters of a photo title. As each character is entered into the search field the search results are dynamically updated, narrowing down the list of photos until you can see the one you’re looking for.

Note
   ¹ Quicklists are lost when you exit Photo Navigator.
Music Navigator

The music section of the Disc Navigator allows you to browse and play all the compatible music files found on the loaded DVD-R/-RW disc (non-music files are not displayed).

See also File compatibility on page 9 for more on compatible file types.

1 If you haven't already done so, select 'Disc Navigator' from the Home Menu, then 'Music'. You should see a list of the artist names on the disc.

2 Use the  button to change the current selection (highlighted in yellow).

3 Press ENTER to display the album list.

4 Select the album you want to listen to and press ENTER to display the song list.

• When the song length cannot be determined, it is displayed as "-:-:--".

5 Use the  button to change the current selection (highlighted in yellow).

On the left side of the screen you can see file information, such as the artist and album name, genre and file format, for the current selection.

6 Press ENTER to play the currently highlighted music.

Press  to start or resume playback from the last track played on the Now Playing screen.

Displaying the Song Options menu

• Press  to display Song Options menu:

  Play Song: Play the selected song from the beginning.
  Add to Quicklist: Add the selected song to your Quicklist. The Quicklist feature is a useful way to organize music files for handy selection and playback. The Quicklist can contain up to 25 songs.1

Displaying the browse menu

• Press  to display the browse menu:

  All Songs: Display all songs (files/tracks) found on the disc.
  Browse: Browse songs by Artists, Albums, Genres, Quicklist or Folders. See also Browsing songs on page 31.
  Search: Find a song by entering a name (or a few letters) to search for. The search results are narrowed down as you enter more letters. See also Searching songs on page 31.
  Sort: Sort songs by date (oldest first or most recent first), or alphabetically by song title, artist, album or genre ('A' first or 'Z' first).
  Now Playing: Display song information (track name, artist, album, genre, etc.) and playback information. See also Now playing song information on page 31.

1 Quicklists are lost when you exit Music Navigator.
Browsing songs
The browse sub-menu gives you various ways to browse songs.

- Go back: Return to the previous menu.
- Artists: Display a list of artists, and how many albums are associated with each. Select an artist and press ENTER to see the album list by that artist.
- Albums: Display a list of albums, and how many songs are associated with each. Select an album and press ENTER to see the list of songs on that album.
- Genres: Display all music genres, and how many songs are in each one. Select a genre and press ENTER to see the list of artists in that genre.
- Quicklist: Display a list of all the songs currently in your Quicklist. Press ➔ to display the Song Options menu, where you can start playback or remove songs from the Quicklist:

- Folders: Display a list of folders and song files. Select a folder and press ENTER to see the list of subfolders/songs.

Searching songs
From the Search sub-menu you can enter a few characters (up to 20) of a song title, genre, artist, or album. As each character is entered into the search field the search results are dynamically updated, narrowing down the list until you can see the one you’re looking for.

See Searching movies on page 28 for how to use the screen keypad.
Chapter 6
Using the Home Media Gallery

Introduction
The Home Media Gallery allows you to browse and play movies, music and photos stored on media servers connected on an identical Local Area Network (LAN) as the player. This unit allows for the playing of files stored on the following:
- PCs running Microsoft Windows XP with Windows Media Connect installed
- PCs running Microsoft Windows Vista or XP with Windows Media Player 11 installed
- DLNA-compatible digital media servers (on PCs or other components)

About network playback
The network playback function of this unit uses the following technologies:

Windows Media Player 11/Windows Media Connect
See About Windows Media Player 11/Windows Media Connect on page 38 for details.

Windows Media DRM
Microsoft Windows Media Digital Rights Management (WMDRM) is a platform to protect and securely deliver content for playback on computers, portable devices and network devices. Home Media Gallery functions as a WMDRM 10 for networked devices. WMDRM-protected content can only be played on media servers supporting WMDRM.
- Content owners use WMDRM technology to protect their intellectual property, including copyrights. This device uses WMDRM software to access WMDRM-protected content. If the WMDRM software fails to protect the content, content owners may ask Microsoft to revoke the software’s ability to use WMDRM to play or copy protected content. Revocation does not affect unprotected content. When you download licenses for protected content, you agree that Microsoft may include a revocation list with the licenses. Content owners may require you to upgrade WMDRM to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade.
- This product is protected by certain intellectual property rights of Microsoft. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft.

DLNA

- DLNA CERTIFIED™ Audio/Video/Image Player

The Digital Living Network Alliance (DLNA) is a cross-industry organization of consumer electronics, computing industry and mobile device companies. Digital Living provides consumers with easy sharing of digital media through a wired or wireless network in the home.

The DLNA certification logo makes it easy to find products that comply with the DLNA Interoperability Guidelines. This unit complies with DLNA Interoperability Guidelines v1.0.
When a PC running DLNA server software or other DLNA-compatible device is connected to this player, some setting changes of software or other devices may be required. Please refer to the operating instructions for the software or device for more information.
- DLNA and DLNA CERTIFIED™ are trademarks and/or service marks of Digital Living Network Alliance.

Content playable over a network
Even when encoded in a compatible format, some files may not play correctly. See File compatibility on page 9. Some functions may not be supported depending on the server type or version used.
Supported file formats vary by server. As such, files not supported by your server are not displayed on this unit.

About playback behavior over a network
- Playback may stall when the PC is switched off or any media files stored on it are deleted while playing content.
- If there are problems within the network environment (heavy network traffic, etc.) content may not be displayed or played properly (playback may be interrupted or stalled). For best performance, a 100BASE-TX connection between player and PC is recommended.
- Playback performance will vary with the power and condition (seek time of the hard disk, etc.) of the PC being used.
- If several clients are playing simultaneously, as the case may be, playback is interrupted or stalled.
- Depending on the security software installed on a connected PC and the setting of such software, network connection may be blocked.
- Problems with the PC may cause malfunctions.
Pioneer is not responsible for any malfunction of the player and/or the Home Media Gallery features due to communication error/ malfunctions associated with your network connection and/or your PC, or other connected equipment. Please contact your PC manufacturer or Internet service provider.

About the network settings
This unit uses DHCP and Auto IP functionality to make all the network settings automatically.
If you are using a broadband router or a broadband modem with a DHCP server function, setup should be completely automatic with no manual settings required.
Using the Home Media Gallery

Before using the Home Media Gallery, make sure that you have connected the player to the network and made the necessary settings. See Network connection on page 16 and Setting up for network use on page 21 for more information.

1 Press HOME MENU and select ‘Home Media Gallery’ from the on-screen display.

   Alternatively, press HOME MEDIA GALLERY.

   The Home Media Gallery is only available when the network or server contains movies, photos or music files.

2 Select ‘Movies’, ‘Photos’ or ‘Music’.

   On selecting an option, a list of movies, photos or music files that the player finds on the selected server is displayed. From here you can browse, play and sort network files.

   See the sections below for more information on each part of the Home Media Gallery.

3 Press HOME MENU to exit the Home Media Gallery screen.

Movie Navigator

From the movie section of the Home Media Gallery you can browse and play all the compatible movie files found on your local area network (non-movie files are not displayed).

See also File compatibility on page 9 for more on compatible file types.

1 If you haven’t already done so, select ‘Home Media Gallery’ from the Home Menu, then ‘Movies’.

   You should see a list of all the movie files found on the selected server, together with their playing times.

   • When the movie length cannot be determined, it is displayed as ‘-:--’.

2 Use the ↑ / ↓ buttons to change the current selection (highlighted in yellow).

   On the left side of the screen you can see file information, such as the genre, date and file format, for the current selection.

3 Press ENTER to play the currently highlighted movie.

   Press ➪ to start or resume playback from the last title played.

Displaying the Movie Options menu

   • Press ➞ to display the Movie Options menu:

   • Play from Beginning: Play the selected movie from the beginning.

   • Add to Quicklist: Add the selected movie to your Quicklist. The Quicklist feature is a useful way to organize movie files for handy selection and playback. The Quicklist can contain up to 25 movies.1

Note

1 Quicklists are lost in the following instances:

   • When you exit Movie Navigator.

   • When you change the server to which you are connected.
Displaying the browse menu

- Press \( \leftarrow \) to display the browse menu:

  ![Browse Menu]

Depending on the browse menu, certain options may not be selectable.

- **All Movies**: Display all movie files found on the selected server.
- **Browse**: Browse movies by Genre, Quicklist or Folders. See also Browsing movies below.
- **Search**: Find a movie by entering a name (or a few letters) to search for. The search results are narrowed down as you enter more letters. See also Searching movies below.
- **Sort**: Sort movies by date (oldest first or most recent first), or alphabetically by title or genre ('A' first or 'Z' first).
- **Movie Sources**: Display servers on the network. See also Movie sources below.

Browsing movies

The Browse sub-menu gives you three ways to browse movies.

- **Go back**: Return to the previous menu.
- **Genres**: Display all movie genres and how many movies are in each one. Select a genre and press ENTER to see the list of movies in that genre.
- **Quicklist**: Display a list of all the movies currently in your Quicklist. Press \( \leftarrow \) to display the Movie Options menu, where you can start playback or remove movies from the Quicklist.
- **Folders**: Display a list of folders and movie files. Select a folder and press ENTER to see the list of movies and subfolders within the folder. (The folder configuration may change depending on the server type.)

Searching movies

From the Search sub-menu you can enter a few (up to 20) characters of a movie title or genre. As each character is entered into the search field the search results are dynamically updated, narrowing down the list of movies until you can see the one you’re looking for.

- Use the \( \uparrow / \downarrow / \leftarrow / \rightarrow \) and ENTER buttons to select characters from the keypad.
- Select SHFT to toggle between upper and lower case.
- Select SPC to insert a space.
- Select DEL to delete the character at the current cursor position in the search field.
- Select CLR to clear the search field.
- Select DONE to close the keypad and select a movie or genre from the search results; select CANCEL to close the keypad and clear the search results.

Movie sources

From the movie sources window you can see all the servers found on the network and change the selected server.

- Some servers found on the network may not be available for the following reasons:
  - The player is collecting file information from the server.
  - There are no playable movie files on the server.
  - This player is not authorized for the server. See also Authorizing this player on page 38.
- Servers not currently available appear with a lock icon (\( \otimes \)) in the server list.
**Photo Navigator**

The photo section of the Home Media Gallery allows you to browse and display all the compatible photo files found on your local area network (non-photo files are not displayed).

See also File compatibility on page 9 for more on compatible file types.

1. If you haven’t already done so, select ‘Home Media Gallery’ from the Home Menu, then ‘Photos’. You should see a list of albums from the selected server.

2. Use the ‹/› buttons to change the current selection (highlighted in yellow).

3. Press ENTER to display the selected photo list.

4. Use the ‹/›/› buttons to change the current thumbnail selection (highlighted in yellow).

   Press ‹ to start or resume slideshow playback from the last photo displayed.

**Displaying the Photo Options menu**

- Press ENTER to display the Photo Options menu:

**Displaying the browse menu**

- From the left-most column, press ‹ to display the Browse menu:

Depending on the browse menu, certain options may not be selectable.

- All Photos: Display all photos found on the server.
- Browse: Browse photos by Albums, Date, Quicklist or Folders. See also Browsing photos below.
- Search: Find a photo by entering a name (or a few letters) to search for. The search results are narrowed down as you enter more letters. See also Searching photos on page 36.
- Sort: Sort photos by date (oldest first or most recent first), or alphabetically by name (‘A’ first or ‘Z’ first).
- Photo Sources: Display servers on the network. See also Photo sources on page 36.

**Browsing photos**

The Browse sub-menu gives you several ways to browse photos.

- Go back: Return to the previous menu.
- Albums: Display a list of server albums.
- Date: Browse photos by date (year and month). Select a year then press ENTER to further browse by month. Select a month and press ENTER to see the photos taken that month.
- Quicklist: Display thumbnails of all the photos currently in your Quicklist. Press ENTER to display the Photo Options menu, where you can start slideshow playback or remove photos from the Quicklist.

**Note**

1. Quicklists are lost in the following instances:
   - When you exit Photo Navigator.
   - When you change the server to which you are connected.
• **Folders:** Display a list of folders and photo files. Select a folder and press **ENTER** to see a list of photos and subfolders within the folder. (The folder configuration may change depending on the server type.)

**Searching photos**

From the Search sub-menu you can enter a few (up to 20) characters of a photo title. As each character is entered into the search field the search results are dynamically updated, narrowing down the list of photos until you can see the one you’re looking for.

See **Searching movies** on page 34 for how to use the screen keypad.

**Photo sources**

From the photo sources window you can see all the servers found on the network and change the selected server. See **Movie sources** on page 34 for more information.

**Music Navigator**

From the music section of the Home Media Gallery you can browse and play all the compatible song files found on your local area network (non-music files are not displayed).

See also **File compatibility** on page 9 for more on compatible file types.

1. If you haven’t already done so, select ‘Home Media Gallery’ from the Home Menu, then ‘Music’.
2. You should see a list of all the artist names found on the selected server.

2. Use the **↑/↓** buttons to change the current selection (highlighted in yellow).
3. Press **ENTER** to display the album list.

4. Select the album you want to listen to and press **ENTER** to display the song list.

5. Use the **↑/↓** buttons to change the current selection (highlighted in yellow).

On the left side of the screen you can see file information, such as the artist and album name, genre and file format, for the current selection.

6. Press **ENTER** to play the currently highlighted music.

The display shows the **Now Playing** screen.

- Press **►** to start or resume playback from the last track played on the **Now Playing** screen.

**Displaying the Song Options menu**

- Press **►** to display Song Options menu:
  - **Play Song:** Play the selected song from the beginning.
  - **Add to Quicklist:** Add the selected song to your Quicklist. The Quicklist feature is a useful way to organize music files for handy selection and playback. The Quicklist can contain up to 25 songs.1

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**Note**

1. Quicklists are lost in the following instances:
   - When you exit Music Navigator.
   - When you change the server to which you are connected.
Displaying the browse menu

- **Press **to display the browse menu:

  - **All Songs**: Display all songs (files/tracks) found on the server.
  - **Browse**: Browse songs by Artists, Albums, Genres, Playlists, Quicklist or Folders. See also Browsing songs below.
  - **Search**: Find a song by entering a few characters (up to 20) into the search field. As each character is entered, the search results are dynamically updated, narrowing down the list of songs until you can see the one you’re looking for.
  - **Sort**: Sort songs by date (oldest first or most recent first), or alphabetically by song title, artist, album or genre (‘A’ first or ‘Z’ first).
  - **Now Playing**: Display song information (track name, artist, album, genre, etc.) and playback information. See also Now playing song information on page 37.
  - **Music Sources**: Display servers on the network. See also Movie sources on page 34 for how to use the screen keypad.

Browsing songs

The browse sub-menu gives you various ways to browse songs.

- **Go back**: Return to the previous menu.
- **Artists**: Display a list of artists, and how many albums are associated with each. Select an artist and press **ENTER** to see the album list by that artist.
- **Albums**: Display a list of albums, and how many songs are associated with each. Select an album and press **ENTER** to see the list of songs on that album.
- **Genres**: Display all music genres, and how many songs are in each one. Select a genre and press **ENTER** to see the list of artists in that genre.
- **Playlists**: Display the server Playlists.

- **Quicklist**: Display a list of all the songs currently in your Quicklist. Press ** ENTER** to display the Song Options menu, where you can start playback or remove songs from the Quicklist:

  - **Folders**: Display a list of folders and song files. Select a folder and press **ENTER** to see the list of songs and subfolders within the folder. (The folder configuration may change depending on the server type.)

Searching songs

From the Search sub-menu you can enter a few characters (up to 20) of a song title, genre, artist or album. As each character is entered into the search field the search results are dynamically updated, narrowing down the list of songs until you can see the one you’re looking for.

See Searching songs on page 34 for more information.

Now playing song information

The Now Playing screen shows detailed information about the song playing, including:

- **Artist and song title**
- **Progress bar (elapsed time and song length)**
- **Album name**
- **Genre**
- **File format**
- **Browse menu**
- **Play status**
- **Play mode**
- **Next/Previous song names**

Music sources

From the music sources window you can see all the servers found on the network and change the selected server. See Movie sources on page 34 for more information.
About Windows Media Player 11/Windows Media Connect

Windows Media Player 11/Windows Media Connect is software to deliver music, photos and movies from a Microsoft Windows XP computer to home stereo systems and TVs. The same function is also available in Windows Media Player 11.

With this software, you can play back files stored on the PC through various devices wherever you like in your home.

At this time you cannot download the Windows Media Connect software from Microsoft’s website. If your server currently does not have Windows Media Connect installed, install Windows Media Player 11 (for Windows XP) instead. This software can be downloaded from Microsoft’s website.

For more information check the official Microsoft website.

Authorizing this player

In order to be able to browse and play files from a server this player must be authorized or registered. This happens automatically when the player makes a connection over the network to the server. If not, please authorize or register this player manually on the server.

For more information on authorizing this player, refer to the instruction manual of your server.

FAQ

• Some files don’t show up. Where are they?
  – File names that don’t end with one of the permitted extensions won’t be recognized by this player. See also File compatibility on page 9.
  – Supported file formats vary by server. As such, files not supported by your server are not displayed on this unit.

For more information check with the manufacturer of your server.

First entering Movie, Photo or Music Navigator

After powering on this player and entering the Movie, Music or Photo Navigator, you may be presented with the Folders screen. This is due to this player compiling a list of the available media on your media servers. This list will vary depending on the media sharing software you are using, but you will be able to navigate through the list using the ↑ / ↓ buttons, the ENTER key to select a folder, or the ENTER key on the Go back selection found in each folder.

If you come to a folder containing content that you wish to play, you may press ➔ to display the Movie Options, Photo Options, or Song Options as illustrated in pages 33, 35 and 36).

Pressing ➔ to display the browse menu (as illustrated in, pages 34, 35 and 37) will may a browse menu with the All Movies, All Photos or All Songs options grayed out. If this is the case, this means that this player has not finished compiling the list of available media, and you may continue to browse through the folders and play media while this list completes. When this player has finished compiling this list, the All Movies, All Photos or All Songs options will no longer be grayed out, and you will be able to select these and continue navigating as described in this chapter.

If you are not presented with a folders menu as described above, this means that this player has finished compiling a list of available media on your media servers, and you can navigate through the Movie, Photo or Music Navigator screens as described in this manual.

Changing content on your Media Server

If you change the available content on your media server (by adding or removing shared files) while you are in the Movie, Photo or Music Navigators, the Movie, Photo or Music Navigator screen you are on will change to the Folders menu. From here, you can browse the folders and play content as described in the first section. Once this player has finished compiling a new list of available media, the All Movies, All Photos or All Songs options of the browse menu will become highlighted an accessible.
Chapter 7

Video/Audio Adjust menu

From the Video/Audio Adjust menu you can make various settings that affect how video is presented on your TV and how the sounds are played back. Items in the Video/Audio Adjust menu can only be changed during playback.

**Video Adjust**

- Default setting: Standard

From the Video Adjust screen you can select the Standard or Cinema video presentation or define presets of your own in Memory 1 to Memory 3.

1. Press HOME MENU and select ‘Video/Audio Adjust’ from the on-screen display.
You can press VIDEO ADJUST on the remote to display the Video Adjust screen.

2. Select ‘Video Adjust’.

3. Use the buttons to select a preset.

   - Standard – Standard setting
   - Cinema – Optimized for watching movies
   - Memory 1/Memory 2/Memory 3 – Use for saving your own presets (see Creating your own presets below)

4. Press ENTER or RETURN to make the setting and exit the Video Adjust screen.

**PureCinema**

There are two types of video signals: Video interlace material, with a frame rate of 30 frames/second; and film progressive material, that has a frame rate of 24 frames/second.

In PureCinema mode film progressive material is converted to 60 frames/second progressive, which matches more closely the picture quality of a cinema screen. (24 frames/second source is converted to 60 frames/second.)

When you have Video Adjust set to Standard, Cinema, or Memory 1, Memory 2 or Memory 3 and play a BD-ROM or DVD disc video that can be identified as film progressive or video interlace material, PureCinema mode is automatically activated.

If you notice problems with the images projected when set to Cinema (images appear to motion-blurred, or jagged), set the Video Adjust to Standard or Memory 1, Memory 2 or Memory 3.

**Creating your own presets**

You can create up to three presets of your own.

1. Select one of the Memory presets.
2. Press to select ‘Detailed Settings’ then press ENTER.

   ![Memory 1 Detailed Settings]

3. Adjust the picture quality settings.
   - Use the buttons to select a setting.
   - Use the buttons to adjust the current setting.

   ![Memory 1]

Select a setting then press ENTER to display just that setting. This gives you more screen area in which to see the effects of changes you make.

4. Press RETURN to save the preset and exit the Detailed Settings screen.

**Note**

1 Effective only for video output from HDMI OUT or COMPONENT VIDEO OUT connections (settings do not affect video output from VIDEO OUT or S-VIDEO OUT).
Audio Adjust

From the Audio Adjust menu you can set the Audio DRC (Dynamic Range control).

Audio DRC
• Default setting: Off

When watching Dolby Digital BD and DVD discs, as well as PC files with Dolby Digital audio, at low volume, it’s easy to lose the quieter sounds completely — including some of the dialog. Switching Audio DRC to On can help by bringing up the quieter sounds, while controlling loud peaks.

How much of a difference you hear depends on the material you’re listening to. If the material doesn’t have wide variations in volume, you may not notice much change.

Important
• Audio DRC is effective with the following types of audio:
  – Analog audio from the AUDIO OUT (2ch) and AUDIO OUT (5.1ch) jacks.
  – PCM audio from the DIGITAL AUDIO OUT (COAXIAL/ OPTICAL) and HDMI OUT jacks (see also About the audio output settings on page 44).

1 Press HOME MENU and select ‘Video/Audio Adjust’ from the on-screen display.

2 Select ‘Audio Adjust’.

3 Highlight Audio DRC, then use the ←/→ buttons to change to ‘Off’, ‘Level 1’, ‘Level 2’ or ‘Max’ as required.

4 Press ENTER or RETURN to make the setting and exit the Audio Adjust screen.
# Chapter 8
## Initial Setup menu

**Using the Initial Setup menu**

The Initial Setup menu is where you can set various player options for sound, picture, language and so on. Note that settings can only be changed when the player is stopped.

If you disconnect the player from the wall outlet before switching the player off, any new settings made during that session will be lost.

- Press HOME MENU and select 'Initial Setup'.

In the table below, the default option is marked with a *.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video Out</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV Aspect Ratio</td>
<td>4:3 (Standard)</td>
<td>Select if you have a standard 4:3 TV. See Changing the output video resolution. When the output video resolution is set to 720p, 1080i or 1080p, video is output in 16:9 widescreen format even if TV Aspect Ratio is set to 4:3 (Standard). When connected to a 4:3 TV, set the output video resolution to 480i or 480p. See also Changing the output video resolution on page 14.</td>
</tr>
<tr>
<td></td>
<td>16:9 (Widescreen) •</td>
<td>Select if you have a widescreen 16:9 TV.</td>
</tr>
<tr>
<td>4:3 Video Out</td>
<td>Full</td>
<td>4:3 video material is output without black bars on either side of the picture if the TV Aspect Ratio (above) is set to 16:9 (Widescreen).</td>
</tr>
<tr>
<td></td>
<td>Normal •</td>
<td>4:3 video material is output with black bars on either side of the picture if the TV Aspect Ratio setting (above) is set to 16:9 (Widescreen).</td>
</tr>
<tr>
<td>DVD 16:9 Video Out</td>
<td>Letter Box •</td>
<td>If the TV Aspect Ratio setting (above) is set to 4:3 (Standard), select this if you prefer letterbox presentation of 16:9 format DVDs.</td>
</tr>
<tr>
<td></td>
<td>Pan &amp; Scan</td>
<td>If the TV Aspect Ratio setting (above) is set to 4:3 (Standard), select this if you prefer Pan &amp; Scan presentation of 16:9 format DVDs.</td>
</tr>
</tbody>
</table>

**HDMI Color Space**

- YCbCr •: This is the standard setting for HDMI-compatible devices.
- RGB (16-235): Use this setting if colors appear overly rich and the black too deep on the RGB (0-255) setting.
- RGB (0-255): Use if colors are weak and black appears to 'float' on the RGB (16-235) setting.

When using an HDMI monitor that accepts only RGB input, this player outputs RGB video even if this setting is set to YCbCr. If the monitor is DVI-compatible, the player outputs RGB (0-255) color space. If however the picture looks unnatural, set it to RGB (16-235).

| 24p Direct Out           | On            | Gives smooth movement in BD film material video. This setting is only effective when the player is connected to a 1080/24p-compatible TV using HDMI. |
|                         | Off •         | Choose this setting if you notice picture disturbance when the video switches between video and film material. |

When 24p Direct Out is On, you may experience some picture disturbance when the video switches between video and film material. See also Changing the output video resolution on page 14.
<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Audio Out</strong></td>
<td></td>
<td><strong>Dolby Digital Out</strong>&lt;br&gt;Dolby Digital ▶ Outputs a Dolby Digital signal when a Dolby Digital source is being played.&lt;br&gt;Dolby Digital ➔ PCM&lt;br&gt;Converts Dolby Digital sources to Linear PCM output. Use if your connected equipment doesn’t support Dolby Digital audio.</td>
</tr>
<tr>
<td><strong>DTS Out</strong></td>
<td></td>
<td><strong>DTS ▶</strong> Outputs a DTS signal when a DTS source is being played.&lt;br&gt;DTS ➔ PCM&lt;br&gt;Converts sources with DTS audio to Linear PCM output. Use if your connected equipment doesn’t support DTS audio.</td>
</tr>
<tr>
<td><strong>DTS Downmix</strong></td>
<td>Stereo ▶</td>
<td>If you’ve selected DTS ➔ PCM in DTS Out above, you can choose the way the DTS signal is downmixed PCM audio. Stereo downmixes the signal to 2-channel stereo.</td>
</tr>
<tr>
<td></td>
<td>Lt/Rt</td>
<td>Downmixes to a 2-channel signal compatible with Dolby surround matrix decoders. (This allows you to hear surround sound if your AV receiver or amplifier has Dolby Pro Logic capability.)</td>
</tr>
<tr>
<td><strong>HDMI Audio Out</strong></td>
<td>Auto ▶</td>
<td>Outputs a bitstream of Dolby TrueHD, Dolby Digital Plus, Dolby Digital, DTS-HD High Resolution Audio or DTS. However, if the player is connected to an HDMI device that is incompatible with the output of Dolby TrueHD, Dolby Digital Plus or DTS-HD High Resolution Audio, it outputs the Dolby Digital or DTS bitstream. Depending on the HDMI device connected and the content being played, Linear PCM audio may be output. See About the audio output settings on page 44 for details.</td>
</tr>
<tr>
<td></td>
<td>PCM</td>
<td>All audio signals are converted to Linear PCM. This player can output up to 7.1 ch Linear PCM if the connected HDMI devices are capable of the output of Dolby TrueHD, Dolby Digital Plus or DTS-HD High Resolution Audio. See About the audio output settings on page 44 for details.</td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td></td>
<td><strong>OSD Language</strong>&lt;br&gt;English ▶&lt;br&gt;Sets the language of the on-screen displays to English. available languages Choose from the languages displayed for the on-screen displays.</td>
</tr>
<tr>
<td></td>
<td>Audio Language</td>
<td>English ▶&lt;br&gt;Sets both the BD-ROM and DVD-Video default audio language to English. available languages Choose from the languages displayed to set the default audio language for BD-ROM and DVD-Video playback.</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>Continue to the next screen to set the default audio language for BD-ROM and DVD-Video disc playback. You can select the language name or enter the code number (see on page 49 for the code list).</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Subtitle Language</strong>&lt;br&gt;English ▶&lt;br&gt;Sets the default subtitle language for BD-ROM and DVD-Video playback to English. available languages Choose from the languages displayed to set the default subtitle language for BD-ROM and DVD-Video playback.</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>Continue to the next screen to set the default subtitle language for BD-ROM and DVD-Video disc playback. You can select the language name or enter the code number (see on page 49 for the code list).</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>BD/DVD Menu Language</strong>&lt;br&gt;w/Subtitle Language ▶&lt;br&gt;Sets the language of BD-ROM and DVD-Video menus to the same as that set for the subtitle language. available languages Choose from the displayed languages to set the default language for BD-ROM and DVD-Video menus.</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>Continue to the next screen to set the default menu language for BD-ROM and DVD-Video disc menus. You can select the language name or enter the code number (see on page 49 for the code list).</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Subtitle Display</strong>&lt;br&gt;On ▶&lt;br&gt;Select to have BD-ROM and DVD-Video discs display subtitles. Off&lt;br&gt;Select to switch off subtitle display.</td>
</tr>
</tbody>
</table>

*Discs do not necessarily have audio in your selected language. Also, some discs override the Audio Language preference.*

*Discs do not necessarily have subtitles in your selected language. Also, some discs override the Subtitle Language preference.*

*Discs do not necessarily have menus in your selected menu language.*

*Some discs may override these settings.*
### Parental Lock

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change Password (Set Password)</td>
<td>Next Screen</td>
<td>Set or change the password necessary to play BD or DVD discs that have level/age restrictions. In order to change the password, you’ll need to first enter your existing one.</td>
</tr>
<tr>
<td>DVD Parental Lock</td>
<td>Change Level</td>
<td>Enter your password and then set the parental lock level. Discs with a lock level higher than that set in the player will require the password to play.</td>
</tr>
<tr>
<td></td>
<td>DVD Country Code</td>
<td>Enter your password and then set a country/area code. This ensures that you see the scenes intended for your country or area. See BD/DVD country/area code list on page 49.</td>
</tr>
<tr>
<td>BD Parental Lock</td>
<td>Change Age Restriction</td>
<td>Enter your password and then set the age restriction. “255” indicates no parental control.</td>
</tr>
<tr>
<td></td>
<td>BD Country Code</td>
<td>Enter your password and then set a country/area code. This ensures that you see the scenes intended for your country or area. See BD/DVD country/area code list on page 49.</td>
</tr>
</tbody>
</table>

Only certain discs have parental lock features. Check the disc packaging to see what features the disc has. If you forget your password you can reset it by resetting the player to its factory settings. See BD/DVD language code list on page 49.

### Network

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Configuration</td>
<td>Next Screen</td>
<td>Continue to the next screen to input IP address details. See Setting up for network use on page 21 for more detailed information.</td>
</tr>
<tr>
<td>Device Name</td>
<td>Next Screen</td>
<td>Continue to the next screen to set the name of this player as it will appear to other devices on the network. See Setting up for network use on page 21 for more detailed information.</td>
</tr>
<tr>
<td>Display Network Config.</td>
<td>Next Screen</td>
<td>Continue to the next screen to see a summary of your network settings.</td>
</tr>
</tbody>
</table>

### Speakers

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Output Mode</td>
<td>2 Channel •</td>
<td>Set if you connected this player to an amplifier using only the front left/right channels of the AUDIO OUT (5.1ch) outputs.</td>
</tr>
<tr>
<td></td>
<td>5.1 Channel</td>
<td>Set if you connected this player to an amplifier using all 5.1 channels of the AUDIO OUT (5.1ch) outputs. On this setting the audio output from the AUDIO OUT (2ch) jacks will be incorrect.</td>
</tr>
<tr>
<td>Speaker Setup</td>
<td>Next Screen</td>
<td>Continue to the next screen to specify which speakers are connected to your system. This setting affects how audio is output from the multi-channel analog outputs. See Speaker Setup on page 45 for more detailed information.</td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Screen Display</td>
<td>On •</td>
<td>The player displays operation displays (“Stop”, “Play”, etc.) on-screen.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Switches off the on-screen operation displays.</td>
</tr>
<tr>
<td>Auto Power Off</td>
<td>On •</td>
<td>If the player is stopped or paused for more than 30 minutes with no operation by the user, the player automatically switches itself off.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>No automatic power off.</td>
</tr>
<tr>
<td>Setup Navigator</td>
<td>Start</td>
<td>Select to start the Setup Navigator. See also Switching on and setting up on page 20.</td>
</tr>
<tr>
<td>HDMI Control</td>
<td>On •</td>
<td>Select when using the HDMI Control function. See HDMI Control on page 7.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Select when not using the HDMI Control function. See HDMI Control on page 7.</td>
</tr>
<tr>
<td>Set hybrid disc playback layer</td>
<td>BD •</td>
<td>Playback the BD portion.</td>
</tr>
<tr>
<td></td>
<td>DVD</td>
<td>Playback the DVD portion. When no DVD portion is present, the BD portion is played back.</td>
</tr>
<tr>
<td></td>
<td>CD</td>
<td>Playback the CD portion. When no CD portion is present, the BD portion is played back.</td>
</tr>
</tbody>
</table>

This setting cannot be changed when a disc is inserted in the disc tray.

### Software Update

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Update</td>
<td>Start</td>
<td>The Software Update function can check for and download updated system software from the network server. See Software updating on page 45.</td>
</tr>
</tbody>
</table>
# About the audio output settings

The table below shows how the audio settings you make in the Initial Setup menu (page 41) affect the output to the analog (2ch/5.1ch), digital and HDMI outputs with various types of disc/files.

<table>
<thead>
<tr>
<th>Disc audio format</th>
<th>Analog outputs</th>
<th>Digital outputs</th>
<th>HDMI output1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2ch²</td>
<td>5.1ch²</td>
<td>PCM convert³</td>
</tr>
<tr>
<td>BD-ROM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dolby Digital</td>
<td>2ch downmix PCM</td>
<td>5.1ch PCM</td>
<td>2ch downmix PCM</td>
</tr>
<tr>
<td>Dolby Digital Plus⁸</td>
<td>2ch downmix PCM</td>
<td>5.1ch PCM</td>
<td>2ch downmix PCM</td>
</tr>
<tr>
<td>Dolby TrueHD⁸</td>
<td>2ch downmix PCM</td>
<td>5.1ch PCM</td>
<td>2ch downmix PCM</td>
</tr>
<tr>
<td>DTS</td>
<td>2ch downmix PCM</td>
<td>5.1ch PCM</td>
<td>2ch downmix PCM</td>
</tr>
<tr>
<td>DTS-HD High Resolution Audio¹³</td>
<td>2ch downmix PCM</td>
<td>5.1ch PCM</td>
<td>2ch downmix PCM</td>
</tr>
<tr>
<td>DTS-HD Master Audio¹⁸</td>
<td>2ch downmix PCM</td>
<td>5.1ch PCM</td>
<td>2ch downmix PCM</td>
</tr>
<tr>
<td>Linear PCM</td>
<td>2ch downmix PCM</td>
<td>2ch downmix PCM⁷</td>
<td>2ch downmix PCM</td>
</tr>
<tr>
<td>DVD-Video</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dolby Digital</td>
<td>2ch downmix PCM</td>
<td>5.1ch PCM</td>
<td>2ch downmix PCM</td>
</tr>
<tr>
<td>DTS</td>
<td>2ch downmix PCM</td>
<td>2ch PCM</td>
<td>2ch downmix PCM</td>
</tr>
<tr>
<td>MPEG</td>
<td>2ch PCM</td>
<td>2ch PCM</td>
<td>2ch PCM</td>
</tr>
<tr>
<td>Linear PCM</td>
<td>2ch PCM</td>
<td>2ch PCM</td>
<td>2ch PCM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. If the connected HDMI device is compatible with fewer channels of Linear PCM audio than this player, the output will be adjusted to be compatible with the HDMI device.
2. When Audio Output Mode is set to 2 Channel or 5.1 Channel (see Audio Output Mode on page 43).
3. Dolby Digital → PCM or DTS → PCM setting (see Dolby Digital Out and DTS Out on page 43).
4. Dolby Digital or DTS setting (see Dolby Digital Out and DTS Out on page 42).
5. Even if there is interactive audio, interactive audio is not mixed.
6. When HDMI Audio Out is set to PCM or Auto (see HDMI Audio Out on page 42).
7. If the connected HDMI device is not compatible with Dolby Digital Plus, Dolby TrueHD or DTS-HD High Resolution Audio, the signal will be output as Dolby Digital or DTS. If the HDMI device is not compatible with Dolby Digital or DTS, the signal is output as Linear PCM. If Dolby TrueHD, Dolby Digital Plus or DTS-HD High Resolution Audio is converted and output as Linear PCM, the output signal is Linear PCM of each source signal.
8. AUDIO OUT (2ch), AUDIO OUT (5.1ch) and DIGITAL AUDIO OUT (COAXIAL/OPTICAL) output Dolby Digital.
9. Audio is output in 7.1ch/6.1ch with Surround Back output sources only. With other sources, audio is output in 5.1ch. The 6.1 Surround Back audio is output in 7.1ch.
10. Interactive audio is not mixed when the sampling rate is 192 kHz or 96 kHz.
11. Outputs 2ch downmix PCM when the sampling rate is 192 kHz.
12. Outputs max. 5.1ch audio when the disc contains 96 kHz audio and the resolution is set to 720p, 1080p or 1080p.
13. Outputs 2ch audio when the disc contains 96 kHz audio and the resolution is set to 480i or 480p.
14. Outputs a Dolby Digital bitstream when the resolution is set to 480i or 480p.
15. Outputs 48 kHz audio when the disc contains 96 kHz audio and the resolution is set to 480i or 480p.
16. Outputs 7.1ch audio when the source is the DTS-ES 6.1 Discer audio.
17. AUDIO OUT (2ch), AUDIO OUT (5.1ch) and DIGITAL AUDIO OUT (COAXIAL/OPTICAL) output DTS.
18. DTS sound is output.

**Note**

- Output sampling rate is 48 kHz through the digital audio outputs.
- MPEG audio is always output as linear PCM.
Speaker Setup

You only need to make this setting if you connected this player to your amplifier using the 5.1 channel analog outputs.
This setting does not affect any digital audio output.
Use the Speaker Setup screen to tell the player what kinds of speakers you have connected.

1. Press HOME MENU and select 'Initial Setup'.
2. Select 'Speakers'.
3. Select 'Speaker Setup', then 'Next Screen'.
4. Use the ↑/↓ buttons to select a speaker.
5. Use the ←/→ buttons to change the speaker setup.
   Specify which speakers you have in your setup:
   - C (Center): Yes or No
   - Ls/Rs (Surround): Yes or No
   - L/R (Main): Small or Large (This setting is only applicable if the C and Ls/Rs speakers are present.)
6. Press ENTER to save the settings and exit the Speaker Setup screen.

Software updating

The software of the player can be updated by connecting it to the Internet using a LAN cable.

Important
- Depending on the Internet connection conditions, software updating may take a certain period of time (certain time is also required for downloading of software). Other operations are defeated during software updating.
- As the disc tray opens automatically when software updating starts, it is recommended to open the rack door if the player is installed in a rack with front doors. When the disc tray is open, never attempt to push close it by force (leave the disc tray open).
- Do not unplug the power cord during software updating. Otherwise, the updating will be aborted and malfunction may occur with the player.

Note
- Steps 1 to 3 are the operations performed by the user (they are intended to download the software from the Internet).
- Steps 4 to 6 are the operations performed (automatically) by the player (they are intended to update the software).

1. Press HOME MENU and select 'Initial Setup'.
2. Select 'Options', then 'Software Update'.
3. Select 'Start', then 'Yes'.
4. Downloading and updating of the software start.
The front panel display shows the following messages, and the player produces an operating sound (it does not output audio or video).

5. Updating starts.
   - The player turns off automatically.
   - If the player is already running the latest software, a help message will be displayed.
   - Depending on the Internet connection conditions, software updating may take a certain period of time (certain time is also required for downloading of software). Other operations are defeated during software updating.

6. The disc tray opens automatically when updating completes.
   - The front panel display shows "DL OK" and the player turns off automatically.
   - When the disc tray is open, never attempt to push close it by force (leave the disc tray open).

7. Verify that the software is updated properly.
   - Step 7 is the operation performed by the user.
   - Turn the player on. If the front panel display shows "DL OK", the software has been updated successfully.
Chapter 9
Additional information

Taking care of your player and discs

Handling discs
When holding discs of any type, take care not to leave fingerprints, dirt or scratches on the disc surface. Hold the disc by its edge or by the center hole and edge.
Damaged or dirty discs can affect playback performance. Take care also not to scratch the label side of the disc. Although not as fragile as the recorded side, scratches can still result in a disc becoming unusable.
Should a disc become marked with fingerprints, dust, etc., clean using a soft, dry cloth, wiping the disc lightly from the center to the outside edge as shown in the diagram below.

Don’t wipe the disc surface using circular strokes.

If necessary, use a cloth soaked in alcohol, or a commercially available DVD/BD cleaning kit to clean a disc more thoroughly. Never use benzine, thinner or other cleaning agents, including products designed for cleaning vinyl records.

Storing discs
Although BD and DVD discs are more durable than vinyl records, you should still take care to handle and store discs correctly. When you’re not using a disc, return it to its case and store upright. Avoid leaving discs in excessively cold, humid, or hot environments (including under direct sunlight).

Don’t glue paper or put stickers onto the disc, or use a pencil, ball-point pen or other sharp-tipped writing instrument. These could all damage the disc.

For more detailed care information see the instructions that come with discs.
Do not load more than one disc into the player at a time.

Damaged and odd-shaped discs
Discs spin at high speed inside the player. If you can see that a disc is cracked, chipped, warped, or otherwise damaged, don’t risk using it in your player — you could end up damaging it.

This player is designed for use with conventional, fully circular discs only. Use of shaped discs is not recommended for this product. Pioneer disclaims all liability arising in connection with the use of shaped discs.
Do not use any kind of adapter when playing 8 cm DVD discs. This size disc can be played in this player without an adapter; just use the smaller disc guide in the disc tray.

Cleaning the pickup lens
The player’s lens should not become dirty in normal use, but if for some reason it should malfunction due to dust or dirt, consult your nearest Pioneer-authorized service center. Although lens cleaners for DVD players are commercially available, we advise against using them since some may damage the lens.

Problems with condensation
Condensation may form inside the player if it is brought into a warm room from outside, or if the temperature of the room rises quickly. Although the condensation won’t damage the player, it may temporarily impair its performance. For this reason you should leave it to adjust to the warmer temperature for about an hour before switching on and using.
Hints on installation
We want you to enjoy using this product for years to come, so please bear in mind the following points when choosing a suitable location for it:

Do...
- Use in a well-ventilated room.
- Place on a solid, flat, level surface, such as a table, shelf or stereo rack.

Don’t...
- Use in a place exposed to high temperatures or humidity, including near radiators and other heat-generating appliances.
- Place on a window sill or other place where the player will be exposed to direct sunlight.
- Use in an excessively dusty or damp environment.
- Place directly on top of an amplifier, or other component in your stereo system that becomes hot in use.
- Place the player on top of or immediately next to the television or monitor as you may experience interference.
- Use in a kitchen or other room where the player may be exposed to smoke or steam.
- Use on a thick rug or carpet, or cover with cloth — this may prevent proper cooling of the unit.
- Place on an unstable surface, or one that is not large enough to support all four of the unit’s feet.

Moving the player
If you need to move this unit, first remove the disc, if there’s one loaded, and close the disc tray. Next, press STANDBY/ON to switch the power to standby, checking that the power off indication in the display goes off. Wait at least 10 seconds. Lastly, disconnect the power cord.

Never lift or move the unit during playback — discs rotate at a high speed and may be damaged.

Caution for when the unit is installed in a rack with a glass door
Do not press the OPEN/CLOSE button on the remote control to open the disc table while the glass door is closed. The door will hamper movement of the disc table, and the disc table could be damaged.

Screen sizes and disc formats
BD-ROM and DVD-Video discs come in several different screen aspect ratios, ranging from TV programs, which are generally 4:3, to CinemaScope widescreen movies, with an aspect ratio of up to about 7:3.

Televisions, too, come in different aspect ratios: ‘standard’ 4:3 and ‘widescreen’ 16:9.

Widescreen TV users
If you have a widescreen TV, the TV Aspect Ratio setting (page 41) of this player should be set to 16:9 (Widescreen).

When you watch discs recorded in 4:3 format, you can use the TV controls to select how the picture is presented. Your TV may offer various zoom and stretch options; see the instructions that came with your TV for details.

Please note that some movie aspect ratios are wider than 16:9, so even though you have a widescreen TV, these discs will still play in a ‘letter box’ style with black bars at the top and bottom of the screen.

Standard TV users
If you have a standard TV, the TV Aspect Ratio setting (page 41) of this player should be set to 4:3 (Standard).

Resetting the player
Use this procedure to reset all the player’s settings to the factory default.

1. Make sure that the player is turned on.
2. Press ■ to stop playback when a disc is being played back.
3. Press and hold ■ and press STANDBY/ON.

• Use the control buttons on the front panel.
• The player turns off with all settings reset.
Setting up the remote to control your TV

1  Input the manufacturer code.
   While holding down the TV CONTROL button, input the two digit code from the table below that corresponds to the make of your TV.
   For example, if you have a Pioneer TV, press and hold TV CONTROL, then press 0, 0 on the remote control.

2  Confirm that the TV is responding to the programmed code.
   On the remote, press the TV CONTROL button. If the TV switches on (or into standby if it was on previously), then you have the correct code.
   If nothing happens when you press the TV CONTROL button, start again from step 1 using a different code. Some manufacturers have several codes. Try each one until you find the one that works.

TV Preset code list

Please note that there are cases where only certain functions may be controllable after assigning the proper preset code, or the codes for the manufacturer in the list will not work for the model that you are using.

Manufacturer Code(s)

ACURA 44
ADMIRAL 31
AIAO 60
AKAI 32, 35, 42
AKURA 41
ALBA 07, 39, 41, 44
AMSTRAD 42, 44, 47
ANITECH 44
ASA 45
ASUKA 41
AUDIODIGONIC 07, 36
BASIC LINE 41, 44
BAUR 31, 07, 42
BEKO 38
BEON 07
BLAUPUNKT 31
BLUE SKY 41
BLUE STAR 18
BPL 18
BRANDT 36
BTC 41
BUSH 07, 41, 42, 44, 47, 56
CASCADE 44
CATHAY 07
CENTURION 07
CGB 42
CIMLINE 44
CLARIVOX 07
CLATRONIC 38
CONDOR 38
CONTEC 44
CROSLEY 32
CROWN 38, 44
CRYSTAL 42
CYBERTRON 41
DAEWOO 07, 44, 56
DANJICHI 41
DANSAI 07
DAYTON 44
DECCA 07, 48
DIXI 07, 44
DUMONT 53
ELIN 07
ELITE 41
ELTA 44
EMERSON 42
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FISHER 32, 35, 38, 45
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FUNAI 40, 46, 58
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GEC 07, 34, 48
GELOSO 32, 44
GENERAL 29
GENEXKA 31, 41
GOLDSTAR 10, 23, 21, 02, 07, 50
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GRAETZ 31, 42
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ITC 42
ITT 31, 32, 42
JEC 05
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MAGNAFON 49
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MARANTZ 07
MARK 07
MATSU 07, 39, 40, 42, 44, 47, 48
MCMICHAEL 34
MEDIATOR 07
MEMOREX 44
METZ 31
MINERVA 31, 53
MITSUBISHI 09, 10, 02, 21, 31
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NOKLUKO 49
NOKIA 35, 42, 52
NORDMENDE 32, 36, 51, 52
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OSO 41
OTSE 48
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SONOLOR 31, 35
SONTEC 07
SONY 04
SOUNDWAVE 07
STANDARD 41, 44
STERN 31
SUSUMU 41
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VICTOR 13
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YOKO 07, 42, 46
ZENITH 03, 20
PIONEER 30, 31, 32, 07, 36, 42, 51
BD/DVD language code list

Language (Language code letter), Language code

Japanese (ja), 1001
English (en), 0514
French (fr), 0618
German (de), 0405
Italian (it), 0920
Spanish (es), 0519
Dutch (nl), 1412
Russian (ru), 1821
Chinese (zh), 2608
Korean (ko), 1115
Greek (el), 0512
Arabic (ar), 0110
Afrikaans (af), 0106
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Aymara (ay), 0121
Belarusian (be), 0125
Bengali (bn), 0128
Bosnian (bs), 0132
Breton (br), 0218

Catalan (ca), 0301
Corsican (co), 0315
Czech (cs), 0319
Welsh (cy), 0325
Danish (da), 0401
Basque (eu), 0521
Persian (fa), 0601
Finnish (fi), 0609
Fiji (fj), 0610
Faroeese (fo), 0615
Frisian (fy), 0625
Irish (ga), 0701
 Scots-Gaelic (gd), 0704
Galician (gl), 0712
Guarani (gn), 0714
Hausa (ha), 0801
Hindi (hi), 0809
Croatian (hr), 0818
Hungarian (hu), 0821
Armenian (hy), 0825
Interlingua (ia), 0901
Interlingue (ie), 0905
Inupiaq (ik), 0911

Indonesian (id), 0914
Icelandic (is), 0919
Hebrew (iw), 0923
Yiddish (yi), 1009
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Greenlandic (kl), 1112
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Kannada (kn), 1114
Kashmiri (ks), 1119
Kurdish (ku), 1121
Kirghiz (ky), 1125
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Burmese (my), 1325
Nauru (na), 1401
Nepali (ne), 1405
Norwegian (no), 1415
Occitan (oc), 1503
Oromo (om), 1513
Oriya (or), 1518
Panjabi (pa), 1601
Polish (pl), 1612
Pashto, Pushto (ps), 1619
Portuguese (pt), 1620
Quechua (qu), 1721
Rhaeto-Romance (rm), 1813
Kirundi (rw), 1814
Romanian (ro), 1815
Kinyarwanda (rw), 1823
Sanskrit (sa), 1901
Sindhi (sd), 1904
Sinhala (si), 1907
Serbo-Croatian (sh), 1908
Sinhalese (si), 1909
Slovak (sk), 1911
Slovenian (sl), 1912
Samoan (sm), 1913
Shona (sn), 1914
Somali (so), 1915
Albanian (sq), 1917

SD/SD memory card, call Local (905) 479-4411, or Long distance +1(877) 283-5901. (Telephone lines are open Monday through Friday 9:00 AM to 5:15 PM.)

Playback troubleshooting

Incorrect operation is often mistaken for trouble or malfunction. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components and electrical appliances being used. If the trouble cannot be rectified after checking the items below, please contact customer services. In the US, call Toll Free (800) 421-1404. (Telephone lines are open Monday through Friday 9:00 AM to 5:15 PM (EST).)

Problem	Remedy

The disc won’t play or is automatically ejected after loading.
• Make sure the disc is free from dirt and dust and is not damaged (see Taking care of your player and discs on page 46).
• Make sure the disc is loaded with the label side face-up and aligned properly in the disc tray guide.
• Incompatible region: If the region on a BD-ROM or DVD-Video disc does not match the region on the player, the disc cannot be used (see BD-ROM regions and DVD-Video regions on page 10).
• Condensation inside the player: Allow time for condensation to evaporate. Avoid using the player near an air-conditioning unit.
• Make sure the disc is compatible with this player (see Disc/content format playback compatibility on page 9).
<table>
<thead>
<tr>
<th>Problem</th>
<th>Remedy</th>
</tr>
</thead>
</table>
| Picture freezes and the front panel and remote control buttons stop working. | - Press (stop), then start playback again (play).  
- Press the front panel **STANDBY/ON** button to switch the power off, then switch back on and restart playback. If the power fails to switch off, press and hold **STANDBY/ON** for 20 seconds until the power switches off. Then switch on again by pressing **STANDBY/ON**.  
- Unplug from the wall socket, then plug back in and switch on again by pressing **STANDBY/ON** to switch the player on.                                                                                                                                                                                                                     |
| No picture/No color.                                                   | - Incorrect video connections: Check that connections are correct and that plugs are inserted fully. Also check the video cable for damage.  
- TV/monitor or AV amplifier settings are incorrect: Check the instruction manual of the connected equipment.  
- Depending on your display, some of the settings may result in the picture disappearing. In this case, press **OUTPUT RESOLUTION** repeatedly until the picture re-appears (see Changing the output video resolution on page 14).  
- Some BD-ROM discs output video only over HDMI.                                                                                                                                                                                                                                          |
| The video output is set to 720p/1080i/1080p, but the actual output is 480i or 480p. | - For copy-protection purposes, DVD-Video and some BD-ROM discs output 480i or 480p over the component output.                                                                                                                                                                                                                                           |
| Screen is stretched or aspect does not change.                        | - The **TV Aspect Ratio** or **4:3 Video Out** setting in the Initial Setup menu is incorrect. See TV Aspect Ratio and 4:3 Video Out on page 41 for how to set these correctly for your TV/monitor.  
- When output video resolution is set to 720p, 1080i or 1080p, video is output in 16:9 Widescreen format even if **TV Aspect Ratio** is set to 4:3 (Standard).                                                                                                                                         |
| Picture disturbance during playback or dark image.                    | - This player is compatible with Macrovision System copy guard. Some discs include a copy prevention signal, and when this type of disc is played back, stripes etc., may appear on some sections of the picture depending on the TV. This is not a malfunction.  
- Due to the player’s copy protection circuits, connection of this device through a VCR or an AV selector may cause picture problems. This is not a malfunction.                                                                                                                                                                           |
| No audio, or audio is distorted.                                       | - No audio is output during slow motion playback or when scanning contents.  
- Check your amplifier/receiver’s settings (volume, input function, speaker settings, etc.).  
- Check that the disc is free from dust and dirt, and that it is not damaged (Taking care of your player and discs on page 46).  
- Check that all interconnects are firmly inserted.  
- Check that the plugs and terminals are free of dirt, oxide, etc. and clean if necessary. Also check the cable for damage.  
- Make sure the player’s output is not connected to the amplifier’s phono (turntable) inputs.  
- Check the **Audio Output Mode** on page 43. If this is set to 5.1 Channel, output from the **AUDIO OUT (2ch)** jacks will be incorrect.  
- Check the **Speaker Setup** on page 45.  
- For copy-protection purposes, some BD-ROM discs only output audio over optical/coaxial and HDMI.  
- When Audio CDs containing text files or such data are played back, sound is muted.                                                                                                                                                                                                                     |
| The analog audio is OK, but there appears to be no optical/coaxial digital audio signal. | - Check that the **Dolby Digital Out** and **DTS Out** settings (page 42) are suitable for your amplifier/receiver — check the instruction manual that came with your amplifier/receiver (also check that the output settings on your amplifier/receiver are correct).                                                                                                                                                        |
| Cannot play multi-channel audio.                                      | - Check the audio options available from the disc menu.  
- Multi-channel 192 kHz audio is output in 2 channels.  
- Check that the **Dolby Digital Out** and **DTS Out** settings (page 42) are suitable for your amplifier/receiver — check the instruction manual that came with your amplifier/receiver.  
- If you connected this player to your amplifier/receiver using the 5.1 channel analog outputs, make sure the **Audio Output Mode** (page 43) and **Speaker Setup** (page 45) are set correctly.  
- If you connected this player to your amplifier/receiver using HDMI, or the optical/coaxial digital outputs, make sure that the output settings on your amplifier/receiver are correct (refer to the instruction manual that came with your amplifier/receiver).  
- To use the 7.1ch setting for **Dolby Digital Out**, set **Dolby Digital → PCM** (page 42).                                                                                                                                                                                                                         |
| Noise is output when DTS audio is played.                            | - If this unit is connected to a non-DTS compatible amplifier or decoder using a digital audio cable, set **DTS Out to DTS → PCM** (page 42). If you do not do this, noise will be output when you play a DTS disc.                                                                                                                                                                               |
| Cannot output 96 kHz or 192 kHz digital audio from optical/coaxial digital output. | - The player does not output digital audio from the optical/coaxial jacks at this sampling rate. The digital output is automatically downsampled.                                                                                                                                                                                                                                               |
### Problem: Disc containing PC files won’t play.

- Make sure the disc is compatible with this player (see Disc/content format playback compatibility on page 9).
- This player is compatible with multi-border discs, but only plays the first border.
- Check that the file complies to one of the supported formats, bit rates or profiles (see File compatibility on page 9). Also check that the file is not damaged.
- If the message ‘Cannot play this format’ is displayed when you try to play PC files, check the file formats.
- This player cannot play DRM-protected content on DVD and DRM-protected titles appear in the Disc Navigator with a lock icon (תמיכה).

### Problem: No picture or High Definition video output when watching a BD.

- For copy-protection purposes, composite, S-Video and component video output may not possible. See Connecting for HDMI output on page 13 to connect using HDMI.

### Problem: Image is blurred when you begin playback of a disc.

- Certain televisions cause blur effects when playback of a disc begins. This is not a malfunction.

### Problem: Tracks/files are repeated during random play.

- Because tracks/files are selected entirely at random, same tracks/files may be played in quick succession. For example, ‘Track 1’ may be followed by ‘Track 5,’ only to have ‘Track 1’ play again next. This is not a malfunction.

### Problem: Slideshow does not play.

- If you have selected a single file and select Slideshow from the Photo Options menu, then only that single file is played back. To play a slideshow you must select All Photos from the browse menu.

### Problem: Images no longer displayed when you change the 24p Direct Out setting to On.

- Depending on your display, some of the settings may result in the picture disappearing. In this case, press OUTPUT RESOLUTION repeatedly until the picture re-appears (see Changing the output video resolution on page 14).

### Problem: CDs cannot be copied on other external components.

- The audio signals of a CD output at the jacks of this player are protected from copying and cannot be copied on other external components.
- To copy the audio signals recorded on a CD, connect your external components to the AUDIO OUT (2ch) jacks of this player.

### HDMI troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No HDMI video output. (A connected HDMI component doesn’t work with this player.)</td>
<td>This unit has been designed to be compliant with HDMI (High-Definition Multimedia Interface). Depending on the component you have connected, unreliable signal transfers may result. If you connect a DVI device to the HDMI output of this player, ensure that it is compliant with High-bandwidth Digital Content Protection (HDCP). If the front panel HDMI indicator is unlit then: – Make sure that you’ve selected this player as the HDMI input in the settings for the component you’re using. You may need to refer to the instruction manual of the component to do this. – Check that the HDMI cable is connected properly and that the cable isn’t damaged.</td>
</tr>
<tr>
<td>Colors are too rich or too weak, or black is too deep or appears to ‘float’.</td>
<td>Use a different HDMI Color Space setting (page 41).</td>
</tr>
<tr>
<td>No HDMI audio output.</td>
<td>If you have connected to an HDCP-compatible DVI component, there won’t be any audio output from the HDMI terminal. Connect using the optical/coaxial digital outputs (or the analog outputs). Verify that the connected HDMI device is compatible with Dolby TrueHD or Dolby Digital Plus (i.e. if bitstream output is allowed). If the HDMI device is not compatible, the audio will be converted into Dolby Digital or Linear PCM.</td>
</tr>
</tbody>
</table>
**Problem**

HDMI Control does not function.

**Remedy**

- Verify that the HDMI cable is firmly connected.
- Make sure that this unit’s HDMI Control is set to On (page 43).
- Make sure that the HDMI Control for the connected components is set to On. For more information, refer to the operating manual for the connected component.
- This function may not work properly if you have multiple components connected to a single plasma display or AV system (amplifier or AV receiver etc.). For more information refer to the operating manual of your plasma display or AV system.
- You can enable HDMI Control by turning the HDMI Control setting to On for all components connected via HDMI cable. Check the video output from this unit once you have completed making connections and settings for all components. You will need to check the video output each time you change connected components or remove the HDMI cable.
- Check whether the connected component supports HDMI Control or not. For more information refer to the operating manual of your plasma display or AV system (amplifier or AV receiver etc.).
- Certain functions are not supported on some plasma displays.
- This player does not support HDMI Control-compatible components other than those made by Pioneer.
- This unit will not function properly with components that do not support HDMI Control, or when connected with components other than those made by Pioneer.
- The HDMI Control functions may not operate properly if you do not use an HDMI cable that supports the HDMI 1.3 specification (Category 2) or later.

---

**Network troubleshooting**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Remedy</th>
</tr>
</thead>
</table>
| Home Media Gallery is not available. | • LAN indicator is unlit:  
  – Check the physical connections (hub, 100BASE-TX, or other cable quality).  
  – LAN indicator is lit:  
    – If this player’s IP address is set automatically, make sure that the media server’s address is also set automatically. If the IP address of the media server has been set manually, set the IP address of the player manually too (see Network on page 43).  
    – Check the logical connections (IP address setup, DHCP, etc.). Confirm that the IP address is correct if acquired using DHCP or Auto-IP in the Network Config. screen that follows the Initial Setup menu (see page 43).  
    – Confirm that the media server is on and not in standby or sleep mode.  
    – Check the network and other settings on the media server.  
    – Check that this player and the media server are on the same Local Area Network (LAN).  
    – Check if the media server (Windows Media Player 11, Windows Media Connect or DLNA-compliant) is running. Restart if necessary.  
    – Check if the media server is setup correctly for file sharing, if the target folder has been deleted or if one or more folders has become corrupted on the server.  
    – Check if the PC is operating properly. Reboot the PC after confirming its specifications and setup. |
| A connected media server does not show up in the source list in the Home Media Gallery. | • Confirm that the media server is on and not in standby or sleep mode.  
  • Check the network and other settings on the media server.  
  • Check that this player and the media server are on the same Local Area Network (LAN).  
  • Check if the media server (Windows Media Player 11, Windows Media Connect or DLNA-compliant) is running. Restart if necessary.  
  • Check if the media server is setup correctly for file sharing, if the target folder has been deleted or if one or more folders has become corrupted on the server.  
  • Check if the PC is operating properly. Reboot the PC after confirming its specifications and setup.  
  • Check that there are playable files on the media server.  
  • After adding a new media server, exit the Home Media Gallery then, after a few moments, re-enter it. |
| A media server shows up in the source list but is not available (a lock icon appears). | • Check the media server setup. If a client is registered (authorized) manually, the setup procedure may have to be run again.  
  • Check that there are playable files on the media server.  
  • After adding a new media server, exit the Home Media Gallery then, after a few moments, re-enter it. |
<p>| Content different from last time appears on the network (missing items, etc.). | • If the player cannot connect to the same server as last time (because it is switched off, for example), the player will connect to another server on the network. To see content on a particular server, make sure it is running and then select it as the source in the Home Media Gallery (see Movie sources on page 34). |</p>
<table>
<thead>
<tr>
<th>Problem</th>
<th>Remedy</th>
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</table>
| Cannot play or display.                                                | • Check the physical connections (hub, 100BASE-TX, or other cable quality).  
• Check if the file complies to the supported format, bit rate or profile (see File compatibility on page 9).  
• If the message ‘Cannot play this format’ is displayed when you try to play PC files, check the file formats.  
• It takes time to capture and display a large-sized image; during this time you may have to wait to operate the player.  
• This player cannot play DRM-protected content stored on a DLNA server (not a Windows Media Player 11 or Windows Media Connect server).  
• Some files that comply with one of the supported formats may not play or be displayed.  
• Check if there are too many files on the server.  
• Check if the PC is operating properly. Reboot the PC after confirming its specification and setup.   |
| Image or sound is interrupted or distorted (block noise appears).      | • Check the physical connections (hub, 100BASE-TX, or other cable quality).  
• When connected by a wireless LAN, check if the bit rate is sufficient.  
• Check that the file complies with the supported format, bit rate or profile (see File compatibility on page 9).  
• Some files that comply with one of the supported formats may not play or be displayed.  
• Check if the PC is operating properly. Reboot the PC after confirming its specification and setup.   |
| Genre (movie), Playlist (music), Album (photo) or folder configuration differs from one server to another. | • The configuration may change depending on server type. This is not a malfunction.  |
| An available server is selected but cannot be navigated.               | • Check if the server is correctly set up for file sharing, if the target folder has been deleted, or if one or more folders have been corrupted on the server.  
• Check if there are too many files on the server.   |
| ‘Cannot connect to server.’ is displayed when network downloading is attempt. | • The message is displayed when connection to the server failed. Verify that the network cable is connected properly before retrying.   |
| ‘WRT FAILED’ is displayed on the front panel display during network downloading. | • The message is displayed when downloading failed. As the player may be failed, contact your local Pioneer Customer Service Center.   |

**Miscellaneous troubleshooting**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Remedy</th>
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<tbody>
<tr>
<td>It is taking a long time for the unit to start up.</td>
<td>• It can take up to one minute for the system to start up once you press the STANDBY/ON button. This does not mean that the player is experiencing problems.</td>
</tr>
</tbody>
</table>
| The power automatically turns off.                                     | • The Auto Power Off function switches the player into standby if no operation is performed for 30 minutes while the player is stopped or paused (page 43).  
• This unit’s power may be turned off when you control this unit from a connected TV. If you do not want this unit to be turned off in this way, set this unit’s HDMI Control (page 43) to Off.   |
| Your TV and AV system automatically change inputs.                    | • The connected TV and AV system automatically may change inputs in response to this unit starting playback or having the GUI screen (ex. Disc Navigator) displayed. If you do not want your TV and AV system to change inputs in this way, set this unit HDMI Control (page 43) to Off.   |
| The remote control doesn’t seem to work.                              | • The CONTROL IN jack on the rear panel is connected. Paint the remote control at the connected component to control this player.  
• The remote control is too far from the player, or the angle with the remote sensor is too wide: Use the remote within its operating range (see Using the remote control on page 8).  
• The batteries are exhausted: Put in new ones (see Putting the batteries in the remote control on page 8).  
• If you are using an external IR receiver, you may need to set the IR RECEIVER switch (see Using an external IR receiver with this player on page 17).   |
| Settings are canceled.                                                 | • When the power is cut due to power failure or by unplugging the power cord during operation, settings will be canceled. See Moving the player on page 47 for proper shutdown instructions.   |
| After inserting a disc, a ‘Loading’ message is displayed but playback does not begin. | • When you have inserted a disc containing PC files, the time necessary to load the files contained on the disc varies by how many files are present. The process can take anywhere from a few minutes to upwards of ten minutes.   |
| On hybrid discs with BD and DVD layers, the DVD layer cannot be played back. | • Change the Set hybrid disc playback layer to DVD (page 43).   |
Problem | Remedy
---|---
On hybrid discs with BD and CD layers, the CD layer cannot be played back. | • Change the *Set hybrid disc playback layer* to CD (page 43).
When the *Set hybrid disc playback layer* is set to DVD and you insert a hybrid disc with BD and CD layers, the BD layer is played back. | • When the layer set to playback at *Set hybrid disc playback layer* is not present on an inserted hybrid disc, the BD layer is played back.
The *Set hybrid disc playback layer* setting cannot be changed (it is grayed out). | • You cannot change the *Set hybrid disc playback layer* when a disc is inserted. Eject the disc to make changes.
A "■" appears in the file name. | • A character that cannot be displayed on this unit is included in the file name. Use only alphanumeric characters if you want file names to be displayed correctly on this player.
The power automatically turns on. | • This unit’s power may be turned on when you control this unit from a connected plasma display. If you do not want this unit to be turned on in this way, set this unit’s HDMI Control to Off (page 43).

---

**Glossary**

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

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

**BD-J**
BD-J is the Java specification for BD-ROM, allowing content providers to put interactive material linked to specific titles on the disc.

**BDAV**
BDAV is one of the application formats used by writable Blu-ray Discs (BD-R or BD-RE). It corresponds to the VR mode of the DVD standard.

**BD-MV**
BD-MV is one of the Blu-ray Disc standards (application standard for BD-ROM). It corresponds to the Video mode of the DVD standard.

**Default Gateway**
Default Gateway is a node on a computer network that serves as an access point to another network. A default gateway (such as a computer and router) is used to forward all traffic that is not addressed to a station within the local subnet.

**DHCP (Dynamic Host Configuration Protocol) Server**
A DHCP server is a server that allocates IP addresses to hosts (network devices). In most cases, a broadband router serves as a DHCP server in a home network.

**Digital audio**
An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also *Sampling frequency* and *Analog audio*.

**Dolby Digital Plus**
Dolby Digital Plus is the next-generation audio technology for all high-definition programming and media. It combines the efficiency to meet future broadcast demands with the power and flexibility to realize the full audio potential expected in the upcoming high-definition era. Built on Dolby Digital, the multi-channel audio standard for BD and DVD, Dolby Digital Plus has been designed for the next-generation AV Systems (amplifier or AV receiver) but remains fully compatible with all current AV Systems.

Dolby Digital Plus delivers multi-channel audio programs of up to 7.1 channels and supports multiple programs in a single encoded bitstream with the maximum bit rate potential of 6 Mbps and the maximum bit rate performance of 1.7 Mbps on BD, and it outputs Dolby Digital bitstreams for playback on existing Dolby Digital systems. Dolby Digital Plus can accurately reproduce the sound originally intended by directors and producers.

It also features multi-channel sound with discrete channel output, interactive mixing and streaming capability in advanced systems. Supported by HDMI (High-Definition Multimedia Interface), a single-cable digital connection is possible for high-definition audio and video.

**Dolby TrueHD**
Dolby TrueHD is the next-generation lossless encoding technology developed for high-definition optical discs in the upcoming era.

Dolby TrueHD delivers tantalizing sound that is bit-for-bit identical to the studio master, unlocking the true high-definition entertainment experience on high-definition optical discs in the next generation.

When coupled with high-definition video, Dolby TrueHD offers an unprecedented home theater experience with stunning sound and high-definition picture.

It supports bit rates of up to 18 Mbps and records up to 8 full-range channels individually with 24-bit/96 kHz audio. It also features extensive metadata including dialogue normalization and dynamic range control. Supported by HDMI (High-Definition Multimedia Interface), a single-cable digital connection is possible for high-definition audio and video. BD standards currently limit their maximum number of audio channels to eight, whereas Dolby Digital Plus and Dolby TrueHD support more than eight audio channels.

**DRM (Digital Rights Management)**
DRM is one of several technologies that controls access to and use of digital data, such as music, movies and other copyrighted contents.
DTS-HD High Resolution Audio
DTS-HD High Resolution Audio provides sound quality which far outpaces that of the current DVD discs with constant data rates from 1.5 Mbps to 6.0 Mbps for Blu-ray Disc. DTS-HD High Resolution Audio is capable of up to 7.1 channels of audio at a sampling frequency of 96 kHz/24 bits so the original sound is finely and faithfully reproduced with less disc space compared to DTS-HD Master Audio. The result of using DTS-HD High Resolution Audio use is especially significant when watching high definition video as the sound that is clearer than ever creates the whole new movie experience right at home.

Dynamic range
The difference between the quietest and loudest sounds possible in an audio signal (without distorting or getting lost in noise). Dolby Digital and DTS soundtracks are capable of a very wide dynamic range, delivering dramatic cinema-like effects.

Ethernet
A frame-based computer networking technology for local area networks (LANs). This player supports 100BASE-TX.

File extension
A tag added to the end of a filename to indicate the type of file. For example, *.jpg” indicates an JPEG image file.

HDMI
HDMI (High-Definition Multimedia Interface) is a high-speed digital interface which has the capability to support standard or high-definition video plus standard to multi-channel surround-sound audio on a single digital connection.

Interactive audio
Interactive audio is Linear PCM (LPCM) audio activated by a BD-ROM application and mixed with the primary audio. It is typically used to provide dynamic sounds associated with interactive applications, such as button sounds.

Interlaced video
A method of displaying a picture in which odd-numbered lines are updated in one pass, then even-numbered lines updated in the next. See also Progressive scan video.

IP (Internet Protocol) address
A unique number that devices use in order to identify and communicate with each other on a network utilizing the Internet Protocol standard, such as ‘192.168.0.1’. No duplicate numbers are allowed in the network.

LAN cable
A cable that has an 8-pin modular plug on each end and is different from a telephone plug which has 4-pins.

MAC (Media Access Control) address
An address attached to the port of any device. The MAC address cannot be changed.

PCM (Pulse Code Modulation)
A common system of encoding digital audio. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders and AV amplifiers with digital inputs, this unit can convert Dolby Digital, DTS and MPEG audio to PCM. See also Digital audio.

Pop-up menu (BD only)
A context-sensitive menu that can be used without interrupting playback of a BD.

Progressive scan video
Also called non-interlaced video, this method of displaying a picture updates all the lines in one pass, resulting in a more stable, flicker-free image than interlaced video (for a given scanning rate). See also Interlaced video.

Regions (DVD-Video and BD-ROM)
These associate discs and players with particular areas of the world. This unit will only play discs that have a compatible region code (i.e., the same code as your player). You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).
Note that the region systems for DVD and BD are not the same.

Sampling frequency
The rate at which sound is measured to be turned into digital audio data. The higher the rate, the better the sound quality, but the more digital information is generated. For example, a sampling frequency of 44.1 kHz means 44 100 samples (measurements) per second. See also Digital audio.

Subnet mask
The IP address is divided into the network address part and the host address part. The subnet mask is expressed as ‘255.255.255.0’. In most cases, the subnet mask is automatically assigned by the DHCP server.
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Glenn Randers-Pehrson
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Specifications

General
System: Blu-ray Disc PLAYER (BD-ROM, DVD-Video, DVD-R/RW, CD, network file playback)
Power requirements: AC 120 V, 60 Hz
Power consumption: 35 W
Power consumption (standby): 0.5 W
Weight: 6.6 kg (14 lb 9 oz)
Dimensions: 420 mm (W) x 103 mm (H) x 353 mm (D)
Operating temperature: +5 °C to +35 °C (+41 °F to +95 °F)
Operating humidity: 5 % to 85 % (no condensation)

HDMI output
HDMI output: 19-pin

Component Video output (Y, Pb, Pr)
Output level: Y: 1.0 Vp-p (75 Ω) Pb, Pr: 0.7 Vp-p (75 Ω)
Jacks: RCA jacks

S-Video output
Y (luminance) - Output level: 1 Vp-p (75 Ω)
C (color) - Output level: 286 mVp-p (75 Ω)
Jack: S-Video jack

Video output
Output level: 1 Vp-p (75 Ω)
Jack: RCA jack

Audio output (1 stereo pair)
Output level: During audio output 200 mVrms (1 kHz, –20 dB)
Number of channels: 2
Jacks: RCA jack

Audio output (multi-channel/L, R, C, SW, LS, RS)
Output level: During audio output 200 mVrms (1 kHz, ~20 dB)
Number of channels: 6
Jacks: RCA jack

Audio characteristics
Frequency response: 4 Hz to 22 kHz
S/N ratio: 115 dB
Dynamic range: 108 dB
Total harmonic distortion: 0.0015 %
Wow and flutter: Limit of measurement (0.001 % W. PEAK) or lower

Digital output
Optical digital output: Optical digital jack
Coaxial digital output: RCA jack

Other terminals
LAN terminal: Ethernet jack (100BASE-TX)
IR in: Minijack (3.5 ø)
Power cable: 1
AA/R6P dry cell batteries: 2
Stereo audio cable (red/white plugs): 1
Video cable (yellow plugs): 1
LAN cable: 1
Power cable: 1
Warranty card: 1
Operating instructions: 1

The specifications and design of this product are subject to change without notice.
Should this product require service in the U.S.A. and you wish to locate the nearest Pioneer Authorized Independent Service Company, or if you wish to purchase replacement parts, operating instructions, service manuals, or accessories, please call the number shown below.

1 – 8 0 0 – 4 2 1 – 1 4 0 4

Please do not ship your product to Pioneer without first calling the Customer Support at the above listed number for assistance.

Pioneer Electronics Service, Inc.
P.O. BOX 1760, Long Beach,
CA 90801-1760, U.S.A.

For warranty information please see the Limited Warranty sheet included with your product.

Should this product require service in Canada, please contact a Pioneer Canadian Authorized Dealer to locate the nearest Pioneer Authorized Service Company in Canada. Alternatively, please contact the Customer Satisfaction Department at the following address:

Pioneer Electronics of Canada, Inc.
Customer Satisfaction Department
300 Allstate Parkway, Markham, Ontario L3R 0P2
1-877-283-5901
905-479-4411

For warranty information please see the Limited Warranty sheet included with your product.

Si ce produit doit être réparé au Canada, veuillez vous adresser à un distributeur autorisé Pioneer du Canada pour obtenir le nom du Centre de Service Autorisé Pioneer le plus près de chez-vous. Vous pouvez aussi contacter le Service à la clientèle de Pioneer:

Pioneer Électroniques du Canada, Inc.
Service Clientèle
300, Allstate Parkway, Markham, Ontario L3R 0P2
1-877-283-5901
905-479-4411

Pour obtenir des renseignements sur la garantie, veuillez vous reporter au feuillet sur la garantie restreinte qui accompagne le produit.