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

**IMPORTANT**

The lightning flash with arrowhead, 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:**

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

**RISK OF ELECTRIC SHOCK**

DO NOT OPEN

**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.

**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.

**Information to User**

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

**WARNING**

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**WARNING:** Handling the cord on this product or cords associated with accessories sold with the product will expose you to lead, a chemical known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm.

Wash hands after handling

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

**K37_In**

**D1-4-2-3_In**

**D8-1-1-2_In**

**D1-4-2-1_In**

**D6-4-2-1_In**

**D8-10-2_In**

**D1-4-2-1_In**
IMPORTANT SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the appliance is operated.

RETAIL INSTRUCTIONS — The appliance and operating instructions should be retained for future reference.

HEED WARNINGS — All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and user instructions should be followed.

CLEANING — The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, inacetic acid, or other volatile liquids since they may corrode the cabinet.

ATTACHMENTS — Do not use attachments not recommended by the manufacturer as they may cause hazards.

WATER AND MOISTURE — Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; or other similar locations.

ACCESSORIES — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the product should follow the manufacturer’s instructions, and should use a mounting accessory recommended by the manufacturer.

CART — A product and cart combination should be moved with care. Quick stops, excessive force, or failure to grasp the appliance firmly may cause the appliance and cart combination to overturn.

VENTILATION — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating. These openings must not be blocked or covered. The appliance should never be placed under a built-in installation such as a cabinet or bookcase. If heat is to be dissipated by the ventilation openings, they shall be unimpeded.

POWER SOURCES — This appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

LOCATION — The appliance should be installed in a stable location.

NOUSUS PERIODS — The product cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

GROUNDING OR POLARIZATION — This appliance is provided with a polarized plug (a plug having one blade wider than the other). This plug will fit into the outlet only one way. If it does not fit fully into the outlet, reverse the plug. If it still does not fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of this polarized plug.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

OUTDOOR ANTENNA GROUNDING — If an outside antenna or cable system is connected to the appliance, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-in static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of the discharge unit, and requirements for the grounding electrode. See Figure A.

LIGHTING — For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

POWER LINES — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

OVERLOADING — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

OBJECT AND LIQUID ENTRY — Never push objects of any kind into this appliance through openings in the cabinet that may be covered by a door or. panel on the product or into power line outlets. Never spill liquids on the product.

SERVICING — Do not attempt to service this appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE — Unplug this appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:

• When the power-supply cord or plug is damaged.
• If liquid has been spilled, or objects have fallen into the product.
• If the product has been exposed to rain or water.
• If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
• If the product has been dropped or damaged in any way.

SAFETY CHECK — Upon completion of any service or repairs to this appliance, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

WALL OR CEILING MOUNTING — The product should be properly mounted to a wall or ceiling.

HEAT — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

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.
Once you have established a comfortable sound level, ease the sound until you can hear it comfortably and clearly, and without distortion.

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.

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.

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Chapter 1
Before you start

Features

- **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 a HDMI-equipped AV receiver or audiovisual device for high quality audio and video, and communication between the video source and (DTV) players, set-top boxes, and other audiovisual devices is also supported.

- **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.

- **HDMI digital interface**
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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).

- **DVD-Audio and SACD compatible**
Experience the super high-quality audio performance of DVD-Audio and Super Audio CD (SACD).

The on-board 24-bit/192kHz DAC means that this player is fully compatible with high sampling-rate discs, capable of delivering exceptional sound quality in terms of dynamic range, low-level resolution and high frequency detail.

In addition, with SACD playback, you can select which part of the disc you want to hear (stereo audio, multi-channel audio and, for hybrid SACDs, standard CD audio) with the simple press of a button on the front panel.

- **Built-in Dolby Digital and DTS decoding with multichannel outputs**

This player features multichannel analog outputs for connection to an AV amplifier to give you stunning surround sound from Dolby Digital, DTS and multichannel DVD-Audio discs.

- **Pure Audio listening**
The Pure Audio feature allows you to listen to analog audio sources with the video and digital outputs disabled, and the front panel display switched off. This is particularly useful when listening to high-quality audio formats such as DVD-Audio and Super Audio CD.

- **PureCinema Progressive Scan video**
When connected to a progressive scan-compatible TV or monitor using the component video outputs, you can enjoy extremely stable, flicker free images, with the same frame refresh rate as the original movie.

- **Analog video signal output capability in HD (High Definition)**
The analog video signals output from the COMPONENT VIDEO OUT can be output as HD signals. JPEG files are output in JPEG HD format. DivX video/WMV signals in SD (Standard Definition) are converted into HD for output.

- **DivX® video compatibility**
See DivX video compatibility on page 9.

- **MP3, WMA and MPEG-4 AAC compatibility**
See Compressed audio compatibility on page 8.

- **JPEG compatibility**
See JPEG file compatibility on page 9.

- **WMV compatibility**
See CD-IV-RW compatibility on page 8 or About WMV on page 9.

- **Energy saving design**
An auto power-off function switches the player into standby if not used for about 30 minutes.
What's in the box

Please confirm that the following accessories are in the box when you open it:

- Remote control
- AA/R6P dry cell batteries x 2
- Audio cable (red/white plugs)
- Video cable (yellow plug)
- Power cable
- Operating instructions
- Warranty card

Putting the batteries in the remote

- Open the battery compartment cover and insert the batteries as shown.

Hints on installation

We want you to enjoy using this product for years to come, so please use the following guidelines when choosing a suitable location:

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 a 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.
- Use near a television or monitor as you may experience interference — especially if the television uses an indoor antenna.
- 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.

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 battery 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.
- 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.
Disc/content format playback compatibility

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

Please also note that recordable discs cannot be recorded using this player.

- This unit will play DVD+R/+RW discs.
- is a trademark of DVD Format/Logo Licensing Corporation.
- is a trademark of FUJIFILM Corporation.
- Also compatible with KODAK Picture CD

About 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 non-DVD, audio side of the disc is not compliant with the CD audio specification and therefore may not play.

The DVD side of a DualDisc plays in this product. DVD-Audio content will not play.

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

CD-R/-RW compatibility

- Compatible formats: CD-audio, Video CD, ISO 9660 CD-ROM* containing MP3, WMA, MPEG-4 AAC, JPEG or DivX video/WMV files
  * ISO 9660 Level 1 or 2 compliant. CD physical format: Mode1, Mode2XA Form1. Romeo and Joliet file systems are both compatible with this player.
- Multi-session playback: No
- Unfinalized disc playback: No
- File structure (may differ): Up to 299 folders on a disc; up to 648 folders and files (combined) within each folder

DVD+R/+RW compatibility

Only DVD+R/DVD+RW discs recorded in 'Video Mode (DVD Video Mode)' which have been finalized, can be played back. However, some editing made during the recording may not be played back accurately.

DVD-R/-RW compatibility

- Compatible formats: DVD-Video, Video Recording (VR)*
  * Edit points may not play exactly as edited; screen may go momentarily blank at edited points.
- Unfinalized playback: No
- MP3/WMA/MPEG-4 AAC/JPEG or DivX video/WMV file playback on DVD-R/-RW: No

Compressed audio compatibility

- Compatible formats: MPEG-1 Audio Layer 3 (MP3), Windows Media Audio (WMA), MPEG-4 AAC
- Sampling rates: 32 kHz, 44.1 kHz or 48 kHz
- Bit-rates: Any (128 kbps or higher recommended)
- VBR (Variable Bit Rate) MP3/WMA/MPEG-4 AAC playback: No
- WMA lossless encoding compatible: No
- DRM (Digital Rights Management) compatible: No (DRM-protected audio files will not play in this player — see also DRM in the Glossary on page 45)
- File extensions: .mp3, .wma, .m4a (these must be used for the player to recognize MP3, WMA and MPEG-4 AAC files — do not use for other file types)
About MPEG-4 AAC

Advanced Audio Coding (AAC) is at the core of the MPEG-4 AAC standard, which incorporates MPEG-2 AAC, forming the basis of the MPEG-4 audio compression technology. The file format and extension used depend on the application used to encode the AAC file. This unit plays back AAC files encoded by iTunes® bearing the extension ‘.m4a’. DRM-protected files will not play, and files encoded with some versions of iTunes® may not play, or filenames may display incorrectly.

Apple and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.

WMA (Windows Media™ Audio) compatibility

This player can playback Windows Media Audio content. WMA is an acronym for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation. WMA content can be encoded by using Windows Media Player for Windows XP, Windows Media Player 9 or Windows Media Player 10 series.

- 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.

About DivX video

DivX is a media technology created by DivX, Inc. DivX media files contain not only video but also include advanced media features like menus, subtitles, and alternate audiotracks. This player can play DivX videos burned on CD-R/-RW/-ROM discs. Keeping the same terminology as DVD-Video, individual DivX video files are called “Titles”. When naming files/titles on a CD-R/-RW disc prior to burning, keep in mind that by default they will be played in alphabetical order.

Displaying external subtitle files

The font sets listed below are available for external subtitle files. You can see the proper font set on-screen by setting the Subtitle Language (in Language settings on page 33) to match the subtitle file.

This player supports the following language groups:

Group 1
- Albanian (sq), Basque (eu), Catalan (ca), Danish (da), Dutch (nl), English (en), Faroese (fo), Finnish (fi), French (fr), German (de), Icelandic (is), Irish (ga), Italian (it), Norwegian (no), Portuguese (pt), Rhaeto-Romance (rm), Scottish (gd), Spanish (es), Swedish (sv)

Group 2
- Albanian (sq), Croatian (hr), Czech (cs), Hungarian (hu), Polish (pl), Romanian (ro), Slovak (sk), Slovenian (sl)

Group 3
- Bulgarian (bg), Byelorussian (be), Macedonian (mk), Russian (ru), Serbian (sr), Ukrainian (uk)

Group 4
- Hebrew (iw), Yiddish (ji)

Group 5
- Turkish (tr)

- Some external subtitle files may be displayed incorrectly or not at all.
- For external subtitle files the following subtitle format filename extensions are supported (please note that these files are not shown within the disc navigation menu): .srt, .sub, .ssa, .smi
- The filename of the movie file has to be repeated at the beginning of the filename for the external subtitle file.
- The number of external subtitle files which can be switched for the same movie file is limited to a maximum of 10.

DivX video compatibility

- Official DivX® Ultra Certified product.
- Plays all versions of DivX® video (including DivX® 6) with enhanced playback of DivX® media files and the DivX® Media Format.
- File extensions: .avi and .divx (these must be used for the player to recognize DivX video files). Note that all files with the .avi extension are recognized as MPEG4, but not all of these are necessarily DivX video files and therefore may not be playable on this player.

About WMV

WMV is an acronym for Windows Media Video and refers to a video compression technology developed by Microsoft Corporation. WMV content can be encoded by using Windows Media® Encoder.

- This player is compatible with WMV9 files that are encoded by using the Windows Media® Encoder 9 Series, with .wmv as an extension.
- Compatible with size under 720 x 480 pixels.
- Advanced Profile is not supported.
- DRM-protected video files will not play in this player.

JPEG file compatibility

- Compatible formats: Baseline JPEG and EXIF 2.2* still image files up to a resolution of 3072 x 2048. *File format used by digital still cameras.
- Progressive JPEG compatible: No
- File extensions: .jpg (must be used for the player to recognize JPEG files—do not use for other file types)

PC-created disc compatibility

Discs recorded using a personal computer may not be playable in this unit due to the setting of the application software used to create the disc. In these particular instances, check with the software publisher for more detailed information.

Discs recorded in packet write mode (UDF format) are not compatible with this player. Check the DVD-R/RW or CD-R/RW software disc boxes for additional compatibility information.
Chapter 2
Connections

Rear panel

1 HDMI OUT
HDMI output providing a high quality interface for digital audio and video (page 14).

2 DIGITAL AUDIO OUT OPTICAL
Digital optical audio outputs for connection to a PCM, Dolby Digital, and/or DTS-compatible AV receiver (page 13).

3 DIGITAL AUDIO OUT COAXIAL
Digital coaxial audio outputs for connection to a PCM, Dolby Digital, and/or DTS-compatible AV receiver (page 13).

4 VIDEO OUT
Video output (composite) that you can connect to your TV or AV receiver using the supplied video cable (page 11).

5 S-VIDEO OUT
S-Video output that you can use instead of the VIDEO OUT jacks (page 12).

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 12).

7 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 14).

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 13).

9 AUDIO OUT (2ch)
Stereo analog audio outputs for connection to your TV, AV receiver or stereo system (page 11).

10 AC IN
Connect the supplied power cord here, then plug into a power outlet.
Easy connections

Important

- Before making or changing any connections, switch off the power and disconnect the power cable from the AC outlet.
- The setup described here is a basic setup that allows you to play discs using just the cables supplied with the player. In this setup, stereo audio is played through the speakers in your TV.
- This player is equipped with copy protection technology. Do not connect this player to your TV via a VCR using audio/video or S-Video 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.)

1. Connect the VIDEO OUT and AUDIO OUT (5.1ch) jacks to a set of A/V inputs on your TV.
   Use the supplied audio/video cable, connecting the red and white plugs to the audio outputs and the yellow plug to the video output. Make sure you match up the left and right audio outputs with their corresponding inputs for correct stereo sound.
   See page 12 if you want to use a component or S-Video cable for the video connection.

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

Note

- Before unplugging the player from the power outlet, make sure you first switch it into standby using either the front panel STANDBY/ON button, or the remote control, and wait of the OFF message to disappear from the player’s display.
- For the above reasons, do not plug this player into a switched power supply found on some amplifiers and AV receivers.
Connecting using the S-Video output

If your TV (or other equipment) has an S-Video input, you can use the S-Video output on this player instead of the standard (composite) output for a better quality picture.

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

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). This should give you the best quality picture from the three types of video output available.

- 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.

Watching 1080i/720p/480p from the component video outputs

This player can output 1080i/720p/480p from the component video outputs. Compared to 480i, 1080i/720p/480p effectively doubles the scanning rate of the picture, resulting in a very stable, flicker-free image.

To set up the player for use with a progressive scan or HD (High Definition) TV, see Resolution (Max) on page 33. When the player is set to output progressive scan video, the PGSVE indicator lights in the front panel display.

Important

- If you connect a TV that is not compatible with a 1080i/720p/480p and switch the player to them, you will not be able to see any picture at all. In this case, switch everything off and reconnect using the supplied video cable (see Easy connections on page 11), then switch back to 480i (see Switching the video output to 480i using the front panel controls on page 12).

Switching the video output to 480i using the front panel controls

Switch the player to standby then, using the front panel controls, press STANDBY/ON while pressing to switch the player back to 480i.

- If the player is connected using HDMI, disconnect the HDMI cable before resetting the player to 480i output. (If left connected, the HDMI output resolution will be reset to its default — see Resetting the output resolution to the default setting with HDMI connection on page 15.)
Connecting to an AV receiver

You can connect this player to your AV receiver using the multichannel analog outputs or one of the digital outputs. In addition to these connections, you should also connect the 2 channel analog outputs for compatibility with all discs. You’ll probably also want to connect a video output to your AV receiver. You can use any of the video outputs available on this player (the illustration shows a standard (composite) connection).

1 Connect the analog AUDIO OUT (2ch) and VIDEO OUT jacks on this player to a set of analog audio and video inputs on your AV receiver.

2 Connect the AV receiver’s video output to a video input on your TV. You can also use the S-Video or component video jacks to connect to the AV receiver if you prefer.

Tip
- You usually have to connect the same kind of video cable between your DVD player and AV receiver, and between your AV receiver and TV.

Connecting the multichannel analog outputs

If your AV receiver has 5.1 channel analog inputs, we recommend connecting this player to it using the multichannel analog outputs. Doing this will ensure that you can enjoy all kinds of disc, including Dolby Digital and DTS DVD-Video discs, as well as high sampling rate and multichannel DVD-Audio and SACD discs.

- Connect the multi-channel audio outputs on this player to the multi-channel audio inputs on your AV receiver.

It’s convenient to use three stereo audio cables; one for the FRONT, one for the SURROUND and one for the CENTER and SUBWOOFER channels.

Connecting the digital output

This player has both optical and coaxial-type digital audio outputs for connection to an AV receiver. Connect whichever is convenient. Depending on the capabilities of your AV receiver, you might have to set up this player to output only digital audio in a compatible format. See Digital Audio Out settings on page 32 and refer to the operating instructions that came with your AV receiver.

Note that SACD audio is not output through these jacks, so this connection should be in addition to, rather than instead of, a 5.1 channel analog connection.

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

For an optical connection, use an optical cable (not supplied) to connect the DIGITAL AUDIO OUT OPTICAL jack to an optical input on your AV receiver.

For a coaxial connection, use a coaxial cable (similar to the supplied video cable) to connect the DIGITAL AUDIO OUT COAXIAL jack to a coaxial input on your AV receiver.
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.

Connecting using HDMI

If you have a HDMI equipped monitor or display, you can connect it to this player using a commercially available HDMI cable.

The HDMI connector outputs uncompressed digital video, as well as almost every kind of digital audio that the player is compatible with, including DVD-Video, DVD-Audio (see below for limitations), SACD, Video CD, CD, WMA, MP3, MPEG-4 AAC, DivX video and WMV.

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

- 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.

Note

- 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.
- When you change the component connected to the HDMI output, you will also need to change the HDMI settings to match the new component (see HDMI Out on page 32, Resolution (Max) and HDMI Color on page 33 to do this). However, the settings for each component are then stored in memory (for up to 2 components).
- The HDMI connection is compatible with 2 channel linear PCM signals (44.1 kHz to 192 kHz, 16 bit/20 bit/24 bit), and Dolby Digital, DTS, MPEG audio bitstream, multi channel DSD, and multi channel linear PCM signals, (5.1 channel signals up to 96 kHz, 16 bit/20 bit/24 bit).
- Depending on the HDMI cable being used, 1080p output may not appear correctly.
About HDMI

HDMI (High-Definition Multimedia Interface) supports both video and audio on a single digital connection for use with DVD players, DTV, set-top boxes, and other AV devices. 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.

HDMI has the capability to support standard, enhanced, or high-definition video plus standard to multi-channel surround-sound audio. HDMI features include uncompressed digital video, a bandwidth of up to five gigabytes per second (with HDTV signals), one connector (instead of several cables and connectors), and communication between the AV source and AV devices such as DTVs.

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.

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

Changing the output resolution

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

Depending on the type of disc or file being played, the signals may not be output with the resolution set at Resolution (Max) (page 33). For details, see the table below.

<table>
<thead>
<tr>
<th>Resolution (Max) setting</th>
<th>480i</th>
<th>480p</th>
<th>1080i</th>
<th>720p</th>
<th>1080p</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD</td>
<td>480i</td>
<td>480p</td>
<td>480p</td>
<td>480p</td>
<td>480p</td>
</tr>
<tr>
<td>DVD-Audio</td>
<td>480i</td>
<td>480p</td>
<td>480p</td>
<td>480p</td>
<td>480p</td>
</tr>
<tr>
<td>DivX video/WMV</td>
<td>480i</td>
<td>480p</td>
<td>1080i</td>
<td>720p</td>
<td>480p</td>
</tr>
<tr>
<td>JPEG</td>
<td>480i</td>
<td>480p</td>
<td>1080i</td>
<td>720p</td>
<td>480p</td>
</tr>
<tr>
<td>Audio CD/ Super Audio CD</td>
<td>480i</td>
<td>480p</td>
<td>480p</td>
<td>480p</td>
<td>480p</td>
</tr>
<tr>
<td>MP3/WMA/MPEG-4 AAC</td>
<td>480i</td>
<td>480p</td>
<td>1080i</td>
<td>720p</td>
<td>480p</td>
</tr>
<tr>
<td>Video CD</td>
<td>480i</td>
<td>480p</td>
<td>480p</td>
<td>480p</td>
<td>480p</td>
</tr>
</tbody>
</table>

Resetting the output resolution to the default setting with HDMI connection

Use the OUTPUT RESOLUTION button on the remote control to switch the player back to 480p. You can also switch the player to standby then, using the front panel controls, press STANDBY/ON while pressing to switch the player back to 480p.

Note

- If analog video signals are output at a resolution of 1080i or 720p, the GUI screen may look rough. This is not a malfunction.
Chapter 3
Controls and displays

Front panel

1 STANDBY/ON (page 20)
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 SACD SETUP
Press to select which part of an SACD disc you want to listen to — stereo audio (2ch Area), multi-channel audio (Multi-ch Area) and, for hybrid SACDs, standard CD audio (CD Area). See SACD Playback on page 34 for more on this.
The indicator lights when an SACD disc is set and SACD Playback is set to 2ch Area or Multi-ch Area.

3 PURE AUDIO
When playback is stopped, press to switch off/on the front panel display and disable the video and digital outputs*. Use this when you want to hear audio from the analog outputs with no interference from other signals (when listening to a DVD-Audio disc, for example). The indicator lights when the Pure Audio feature is switched on.
This button only functions when Pure Audio Button (page 34) is set to Available.
*These include HDMI, and the coaxial and optical digital outputs.

4 Display (page 17)

5 Disc tray

6 Remote control sensor
The remote control has a range of up to about 7 m.

7 HDMI indicator
Lights when this player is recognized by another HDMI or DVI/HDCP compatible component.

8 (play) (page 22)

9 (stop) (page 22)

10 II (pause) (page 22)

11 and (page 22)

12 ♩ OPEN/CLOSE (page 22)
Display

1 5.1CH
Lights when analog 5.1 channel output is selected (page 36).

2 V-PART
Lights when playing a video part of a DVD disc.

3 PRGSVE
Lights when the video output is 1080i/720p/480p (page 12).

4
Lights during multi-angle scenes on a DVD disc (page 30).

5 GUI (Graphical User Interface)
Lights when a menu is displayed on-screen.

6 GRP
Indicates that the character display is showing a DVD-Audio group number.

7 TITLE
Indicates that the character display is showing a DVD-Video title number.

8 TRK
Indicates that the character display is showing a track number.

9 CHP
Indicates that the character display is showing a DVD chapter number.

10 REMAIN
Lights when the character display is showing the time or number of tracks/titles/chapters remaining.

11 Character display

12
Lights when a disc is paused.

13
Lights when a disc is playing.

14 DDD
Lights when a Dolby Digital soundtrack is playing.

15 DTS
Lights when a DTS soundtrack is playing.
Remote control

Tip

- All buttons glow slightly in the dark for ease of use.

1  ○ STANDBY/ON (page 20)
2  FL DIMMER
   Press to change the display brightness.
3  Number buttons (page 22)
4  CLEAR (pages 19 and 28)
5  □ AUDIO (page 29)
6  □ SUBTITLE (page 29)
7  TOP MENU (page 23)
8  ENTER & cursor buttons (page 21)
9  HOME MENU (page 21)
10 SURROUND (page 31)
11 PLAY MODE (page 27)
12 ← and → (pages 22 and 25)
13 ▶ PLAY (page 22)
14 ▼ PREV (page 22)
15 II PAUSE (page 22)
16 ♤ OPEN/CLOSE (page 22)
17 HDMI COLOR (page 33)
18 OUTPUT RESOLUTION +/− (pages 15 and 33)
19 ENTER (page 21)
20 ▼ ANGLE (page 30)
21 MENU (page 23)
22 RETURN (page 21)
23 ZOOM (page 29)
24 DISPLAY (page 30)
25 ▼▼ and ▼▼ (pages 22 and 25)
26 ▼▼ NEXT (page 28)
27 ■ STOP (page 22)
28 TV CONTROL (page 19)

Using the remote control

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.
- 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.
Setting up the remote to control your TV

You can use the supplied remote to control your TV. To be able to use this feature you first have to program the remote with a maker code from the table below.

1. Press and hold down the CLEAR button, then enter the maker code for your TV.
   See the table below for the list of maker codes. If there is more than one code given for your make, input the first one in the list.
   • If the maker’s name of your TV doesn’t appear in the table below, you will not be able to use this remote to control your TV.

2. Press TV to check that the remote works with your TV.
   If the remote is set up correctly, the TV should switch on/off. If it doesn’t and there is another code given for your maker, repeat step 1 with a new code.

Using the TV remote control buttons

The table below shows how to use this remote control with your TV.

<table>
<thead>
<tr>
<th>Button</th>
<th>What it does</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV</td>
<td>Press to switch the TV on/off (standby)</td>
</tr>
<tr>
<td>INPUT SELECT</td>
<td>Press to change the TV’s video input</td>
</tr>
<tr>
<td>VOLUME +/-</td>
<td>Use to adjust the TV volume</td>
</tr>
<tr>
<td>CHANNEL +/-</td>
<td>Use to change TV channels</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maker</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aiwa</td>
<td>38</td>
</tr>
<tr>
<td>Funai</td>
<td>36</td>
</tr>
<tr>
<td>GE</td>
<td>11, 28</td>
</tr>
<tr>
<td>General</td>
<td>34</td>
</tr>
<tr>
<td>Goldstar</td>
<td>10, 23</td>
</tr>
<tr>
<td>Grandiente</td>
<td>30</td>
</tr>
<tr>
<td>Hitachi</td>
<td>06, 04, 25, 32</td>
</tr>
<tr>
<td>Magnavox</td>
<td>12, 29</td>
</tr>
<tr>
<td>Mitsubishi</td>
<td>09</td>
</tr>
<tr>
<td>NEC</td>
<td>37</td>
</tr>
<tr>
<td>Panasonic</td>
<td>08, 02, 41</td>
</tr>
<tr>
<td>Philips</td>
<td>07</td>
</tr>
<tr>
<td>Pioneer</td>
<td>00, 35, 40, 44</td>
</tr>
<tr>
<td>RCA</td>
<td>01, 15, 18, 17, 18</td>
</tr>
<tr>
<td>Samsung</td>
<td>73, 75</td>
</tr>
<tr>
<td>Sanyo</td>
<td>14, 21</td>
</tr>
<tr>
<td>Sharp</td>
<td>02, 19, 27</td>
</tr>
<tr>
<td>Sony</td>
<td>04</td>
</tr>
<tr>
<td>Toshiba</td>
<td>05, 26, 31, 43</td>
</tr>
<tr>
<td>JVC</td>
<td>13, 33, 42</td>
</tr>
<tr>
<td>Zenith</td>
<td>03, 20</td>
</tr>
</tbody>
</table>
Chapter 4
Getting started

Switching on and setting up

When you switch the player on for the first time the Startup 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.

• When you switch on for the first time, your TV should display the Startup Navigator screen.
• 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 Startup Navigator begins.

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

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

If you don't want to use the Startup Navigator, press to select Cancel, then press ENTER to exit the Startup Navigator.

5 Use the buttons to select the terminal from which the audio signals are to be output, then press ENTER.
   • If you have selected Analog, proceed to step 6.
   • If you have selected COAX/OPT, proceed to step 7.
   • If you have selected HDMI or I don't know, proceed to step 8.

6 Use the buttons to select whether to output the analog audio signals from the 2ch or 5.1ch audio outputs, then press ENTER.

7 Use the buttons to select whether or not to convert the digital audio signals output from the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) into linear PCM format (‘Yes’ or ‘No’), then press ENTER.
   • Proceed to step 8.
Use the / buttons to select whether or not to display a black band on the left and right sides of the screen when playing DVDs recorded with a 4:3 aspect ratio ('Yes' or 'No'), then press ENTER.

Note
- From here on in this manual, the word ‘select’ generally means use the cursor buttons to highlight an item on-screen, then press ENTER.

Setting up the player for your TV

If you have a widescreen (16:9) TV, you should setup the player so that the picture will be presented correctly. If you have a conventional (4:3) TV, you can leave the player on the default setting and move on to the next section.

1 Press HOME MENU and select 'Initial Settings'.

2 Select ‘TV Screen’ from the ‘Video Output’ settings.

3 If you have a widescreen (16:9) TV, select ‘16:9 (Wide)’ or ‘16:9 (Compressed)’. If you have a conventional (4:3) TV, you can change the setting from 4:3 (Letter Box) to 4:3 (Pan & Scan) if you prefer. See Video Output settings on page 33 for more details.

4 Press HOME MENU to exit the menu screen.

Setting the language of this player’s on-screen displays

This sets the language of the player’s on-screen displays.

1 Press HOME MENU and select ‘Initial Settings’.

2 Select ‘OSD Language’ from the ‘Display’ settings.

3 Select a language. The on-screen language will change according to your selection.

4 Press HOME MENU to exit the menu screen.

<table>
<thead>
<tr>
<th>Button</th>
<th>What it does</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOME MENU</td>
<td>Display/exit the on-screen display.</td>
</tr>
<tr>
<td>///</td>
<td>Changes the highlighted menu item.</td>
</tr>
<tr>
<td>ENTER</td>
<td>Selects the highlighted menu item (both ENTER buttons on the remote work in exactly the same way).</td>
</tr>
<tr>
<td>RETURN</td>
<td>Returns to the main menu without saving changes.</td>
</tr>
</tbody>
</table>
04 Playing discs

The basic playback controls for playing DVD, CD, SACD, Video CD, DivX video/WMV and MP3/WMA/MPEG-4 AAC discs are covered here. Further functions are detailed in the next chapter. For details on playing JPEG picture discs, see Viewing a JPEG slideshow on page 25.

Important
• Throughout this manual, the term ‘DVD’ means DVD-Video, DVD-Audio and DVD-R/-RW. If a function is specific to a particular kind of DVD disc, it is specified.

1 If the player isn’t already on, press ◄ STANDBY/ON to switch it on.
If you’re playing a DVD, disc containing DivX video/WMV files or Video CD, also turn on your TV and make sure that it is set to the correct video input.

2 Press ◄ OPEN/CLOSE to open the disc tray.

3 Load a disc.
Load a disc with the label side facing up, using the disc tray guide to align the disc (if you’re loading a double-sided DVD disc, load it with the side you want to play face down).

4 Press ► PLAY to start playback.
If you’re playing a DVD or Video CD, an on-screen menu may appear. See DVD-Video and DivX disc menus and Video CD PBC menus on page 23 for more on how to navigate these.
• If you’re playing a containing DivX video/WMV files or MP3/WMA/MPEG-4 AAC audio files, it may take a few seconds before playback starts, etc. This is normal.
• Please see Disc/content format playback compatibility on page 8 if you want to play a DualDisc (DVD/CD hybrid disc).

Note
• You may find with some DVD discs that some playback controls don’t work in certain parts of the disc. This is not a malfunction.
• If a disc contains a mixture of movie (DivX video/WMV) and other media file types (MP3, for example), first select whether to play the movie files (DivX/WMV) or the other media file types (MP3/WMA/MPEG-4 AAC/JPEG) from the on-screen display. The media file types are selected automatically when the Pure Audio Mode is turned on.

Basic playback controls
The table below shows the basic controls on the remote for playing discs. The following chapter covers other playback features in more detail.

<table>
<thead>
<tr>
<th>Button</th>
<th>What it does</th>
</tr>
</thead>
<tbody>
<tr>
<td>► PLAY</td>
<td>Starts playback. If the display shows RESUME or LAST MEM playback starts from the resume or last memory point (see also Resume and Last Memory on page 23.)</td>
</tr>
<tr>
<td>■ PAUSE</td>
<td>Pauses a disc that’s playing, or restarts a paused disc. See also Resume and Last Memory on page 23.</td>
</tr>
<tr>
<td>► STOP</td>
<td>Stops playback.</td>
</tr>
<tr>
<td>◄◄ PREV (remote only)</td>
<td>Press to start fast reverse scanning. Press ► (play) to resume normal playback.</td>
</tr>
<tr>
<td>◄◄ NEXT (remote only)</td>
<td>Press to start fast forward scanning. Press ► (play) to resume normal playback.</td>
</tr>
<tr>
<td>Numbers (remote only)</td>
<td>Skips to the start of the current track, title or chapter, then to previous tracks/titles/chapters.</td>
</tr>
<tr>
<td>Numbers (remote only)</td>
<td>Skips to the next track, title or chapter.</td>
</tr>
</tbody>
</table>

Use to enter a title/chapter/track number. Press ENTER to select.
• If the disc is stopped, playback starts from the selected title (for DVD), group (for DVD-Audio) or track (for CD/SACD/Video CD).
• If the disc is playing, playback jumps to the start of the selected title (VR mode DVD-RW), chapter (DVD Video) or track (DVD Audio)/SACD/CD/Video CD).
*within the current group
Resume and Last Memory

With the exception of DVD-Audio and SACD discs, when you stop playback of a DVD, CD, or Video CD or DivX video/WMV discs, **RESUME** is shown in the display indicating that you can resume playback again from that point.

If the disc tray is not opened, the next time you start playback the display shows **RESUME** and playback resumes from the resume point. (If you want to clear the resume point, press **STOP** while **RESUME** is displayed.)

With DVDs and Video CDs, if you take the disc out of the player after stopping playback, the last play position is stored in memory. If the next disc you load is the same one, the display shows **LAST MEM** and playback will resume. For DVD-Video discs, the player stores the play position of the last five discs. When one of these discs is next loaded, you can resume playback.

*Note*

- The Last Memory function doesn’t work with VR format DVD-R/-RW, DVD-Audio or SACD discs.
- If you don’t need the Last Memory function when you stop a disc, you can press **OPEN/CLOSE** to stop playback and open the disc tray.

DVD-Video and DivX disc menus

Some DivX media files and many DVD-Video and DVD-Audio discs feature menus from which you can select what you want to watch. They may also give access to additional features, such as subtitle and audio language selection, or special features such as slideshows. See the disc packaging for details.

Sometimes DivX and DVD-Video menus are displayed automatically when you start playback; others only appear when you press **MENU** or **TOP MENU**.

**Important**

- Some DVD-Audio discs feature a ‘bonus group’. To play this group you first have to input a password, which you can find on the disc’s packaging. Use the number buttons to input the password.

---

Video CD PBC menus

Some Video CDs have menus from which you can choose what you want to watch. These are called PBC (Playback Control) menus. You can play a PBC Video CD without having to navigate the PBC menu by starting playback using a number button to select a track, rather than the **PLAY** button.

<table>
<thead>
<tr>
<th>Button</th>
<th>What it does</th>
</tr>
</thead>
<tbody>
<tr>
<td>RETURN</td>
<td>Displays the PBC menu.</td>
</tr>
<tr>
<td>Numbers (remote only)</td>
<td>Use to enter a numbered menu option. Press <strong>ENTER</strong> to select.</td>
</tr>
<tr>
<td><strong>PREV</strong></td>
<td>Displays the previous menu page (if there is one).</td>
</tr>
<tr>
<td><strong>NEXT</strong></td>
<td>Displays the next menu page (if there is one).</td>
</tr>
</tbody>
</table>
FAQ

- **After I load a DVD disc, it ejects automatically after a few seconds!**
  Most likely, the disc is the wrong region for your player. The region number should be printed on the disc; check it against the region number of the player (which you can find on the rear panel). See also DVD-Video regions on page 41.
  If the region number is OK, it may be that the disc is damaged or dirty. Clean the disc and look for signs of damage. See also Taking care of your player and discs on page 40.

- **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 undamaged. See Taking care of your player and discs on page 40 for information on cleaning discs.
  If a disc loaded correctly won’t play, it’s probably an incompatible format or disc type, such as DVD-ROM. See Disc/content format playback compatibility on page 8 for more on disc compatibility.

- **There’s no picture!**
  Check the front panel and make sure that the PURE AUDIO indicator isn’t lit. If it is, press the PURE AUDIO button to switch the video and HDMI outputs back on. See also Front panel on page 16.
  Check that your TV is compatible with resolutions of 1080i, 720p, or 480p. See Watching 1080i/720p/480p from the component video outputs on page 12.
  - 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 are necessary at the top and bottom of the screen. This is not a malfunction.
  - I have a standard (4:3) TV and set the player to show widescreen DVDs in pan & scan format, so why do I still get black bars top and bottom with some discs?
    Some discs override the display preferences of the player, so even if you have 4:3 (Pan & Scan) selected, those discs will still be shown in letter box format. This is not a malfunction.
  - I’ve connected to a HDMI 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. See Connecting using HDMI on page 14 for more on HDMI compatibility.
  - There’s no picture from the HDMI output!
    This player cannot display pictures from DVI compatible sources. See Connecting using HDMI on page 14 for more on HDMI compatibility.
    Make sure the resolution on this player matches that of the component you have connected using HDMI. See Resolution (Max) on page 33 to change the HDMI resolution.
  - My AV receiver is definitely compatible with 96 kHz/88.2 kHz Linear PCM audio, but it doesn’t seem to work with this player. What’s wrong?
    For digital copy-protection purposes, some 96 kHz/88.2 kHz DVD discs only output digital audio downsampled to 48 kHz/44.1 kHz. This is not a malfunction.
    To fully take advantage of the high sampling rate audio, connect the analog audio outputs to your amplifier/receiver.

- **Why can’t I hear SACD audio through the digital outputs?**
  SACD digital audio is only available through the HDMI outputs when connected to an HDMI-compatible amp that can handle protected audio contents. Some DVD-Audio discs too only output digital audio through the HDMI outputs.

- **Is it better to listen to DVD-Audio discs through the analog outputs?**
  Some DVD-Audio discs do not output anything through the digital outputs, and multichannel discs are downmixed to stereo for the digital output. In addition, high sampling rate DVD-Audio discs (higher than 96 kHz) automatically downsample audio output from the digital outputs.
  Using the multichannel analog audio outputs for DVD-Audio have none of these limitations.
  - My DVD-Audio disc starts playing, but then suddenly stops! The disc may have been illegally copied.
  - There’s no sound from the optical/coaxial outputs or the HDMI interface!
    Check the front panel and make sure that the PURE AUDIO indicator isn’t lit. If it is, press the PURE AUDIO button to switch the digital audio (optical/coaxial and HDMI) outputs back on.
    You won’t hear any sound from the HDMI output if the source component is only DVI/HDCP-compatible.
Chapter 5
Playing discs

Note
- Many of the functions covered in this chapter apply to DVD and SACD discs, Video CDs, CDs, DivX video/WMV and MP3/WMA/MPEG-4 AAC/JPEG discs, although the exact operation of some varies slightly with the kind of disc loaded.
- Some DVDs restrict the use of some functions (random or repeat, for example) in some or all parts of the disc. This is not a malfunction.
- When playing Video CDs, some of the functions are not available during PBC playback. If you want to use them, start the disc playing using a number button to select a track.

Scanning discs
You can fast-scan discs forward or backward at four different speeds (only one speed for DivX video/WMV).

1 During playback, press ◄ or ► to start scanning.
   - There is no sound while scanning DVDs (including DVD-Audio), DivX video/WMV and Video CDs.
2 Press repeatedly to increase the scanning speed.
   - The scanning speed is shown on-screen.
3 To resume normal playback, press ◄ PLAY.
   - Depending on the disc, normal playback may automatically resume when a new chapter is reached.

Playing in slow motion
You can play DVD-Video and DVD-R/-RW at four different slow motion speeds, forwards and backwards. Video CDs and DivX video/WMV can be played at four different forward slow motion speeds.

1 During playback, press II PAUSE.
2 Press and hold ◄ or ► until slow motion playback starts.
   - The slow motion speed is shown on-screen.
   - There is no sound during slow motion playback.
3 Press repeatedly to change the slow motion speed.
4 To resume normal playback, press ◄ PLAY.
   - Depending on the disc, normal playback may automatically resume when a new chapter is reached.

Frame advance/frame reverse
You can advance or back up DVD-Video and DVD-R/-RW discs frame-by-frame. With Video CDs and DivX video/WMV file you can only use frame advance.

1 During playback, press II PAUSE.
2 Press ◄ or ► or ◄ or ► to reverse or advance a frame at a time.
3 To resume normal playback, press ◄ PLAY.
   - Depending on the disc, normal playback may automatically resume when a new chapter is reached.

Viewing a JPEG slideshow
After loading a CD/CD-R/-RW containing JPEG picture files, press ◄ (play) to start a slideshow from the first folder/picture on the disc. The player displays the pictures in each folder in alphabetical order.
- If the folder contains MP3/WMA/MPEG-4 AAC files, playback of the slideshow and MP3/WMA/MPEG-4 AAC file repeats. During the audio playback, you can still use the skip (◄ PREV/► NEXT), scan (◄◄◄◄ or ◄►►►) and pause (II PAUSE) functions.

Pictures are automatically adjusted so that they fill as much of the screen as possible (if the aspect ratio of the picture is different to your TV screen you may notice black bars at the sides, or at the top and bottom of the screen).

While the slideshow is running:

<table>
<thead>
<tr>
<th>Button</th>
<th>What it does</th>
</tr>
</thead>
<tbody>
<tr>
<td>◄ PREV</td>
<td>Displays the previous picture.</td>
</tr>
<tr>
<td>►► NEXT</td>
<td>Displays the next picture.</td>
</tr>
<tr>
<td>◄ or ◄</td>
<td>Pauses the slideshow and rotates the displayed picture 90° (counter clockwise). (Press ► PLAY to restart slideshow.)</td>
</tr>
<tr>
<td>◄ or ◄</td>
<td>Pauses the slideshow and flips the displayed picture horizontally or vertically. (Press ► PLAY to restart slideshow.)</td>
</tr>
<tr>
<td>ZOOM</td>
<td>Pauses the slideshow and zooms the picture. Press again to toggle between 1x, 2x and 4x zoom. (Press ► PLAY to restart slideshow.)</td>
</tr>
<tr>
<td>MENU</td>
<td>Displays the Disc Navigator screen (see page 26).</td>
</tr>
</tbody>
</table>

Note
- The time it takes for the player to load a file increases with large file sizes.
Browsing DVD or Video CD disc with the Disc Navigator

Use the Disc Navigator to browse through the contents of a DVD-Video, VR mode DVD-R/-RW or Video CD disc to find the part you want to play.

**Important**
- You can’t use the Disc Navigator with Video CDs in PBC mode.

1. During playback, press HOME MENU and select ‘Disc Navigator’ from the on-screen menu.
2. Select a view option.
   - **Title** – Titles from a DVD-Video disc.
   - **Chapter** – Chapters from the current title of a DVD-Video disc.
   - **Track** – Tracks from a Video CD disc.
   - **Time** – Thumbnails from a Video CD disc at 10 minute intervals.
   - **Original: Title** – Original titles from a VR mode DVD-R/-RW disc.
   - **Play List: Title** – Play List titles from a VR mode DVD-R/-RW disc.
   - **Original: Time** – Thumbnails from the Original content at 10 minutes intervals.
   - **Play List: Time** – Thumbnails from the Play List at 10 minutes intervals.

   The screen shows up to six moving thumbnail images displayed one after another. To display the previous/next six thumbnails, press ***/ (you don’t have to wait for all the thumbnails to finish playing to display the previous/next page).

3. Select the thumbnail image for what you want to play.

You can use either the cursor buttons (↑/↓/←/→) and ENTER to select a thumbnail, or the number buttons.

   To select using the number buttons, enter a two-digit number then press ENTER.

**Tip**
- Another way to find a particular place on a disc is to use one of the search modes. See Searching a disc on page 29.

Browsing WMA, MP3, MPEG-4 AAC, DivX video, WMV and JPEG files with the Disc Navigator

Use the Disc Navigator to find a particular file or folder by filename. Note that if there are other types of files on the same disc, these will not be displayed in the Disc Navigator.

1. Press HOME MENU and select ‘Disc Navigator’ from the on-screen menu.
2. Use the cursor buttons (↑/↓/←/→) and ENTER to navigate.

   Use the cursor up/down buttons (↑/↓) to move up and down the folder/file list.
   - Use the cursor left button (←) to return to the parent folder.
   - Use ENTER or cursor right (→) to open a highlighted folder.
   - You can also return to the parent folder by going to the top of the list to the ‘..’ folder, then pressing ENTER.
   - When a JPEG file is highlighted, a thumbnail image is displayed on the right.

3. To play the highlighted track or DivX video/WMV file or display the highlighted JPEG file, press ENTER.
   - When a MP3/WMA/MPEG-4 AAC or DivX video/WMV file is selected, playback begins, starting with the selected file, and continues until the end of the folder.
   - When a JPEG file is selected, a slideshow begins, starting with that file, and continues to the end of the folder.

**Tip**
- You can also play a JPEG slideshow while listening to MP3/WMA/MPEG-4 AAC playback. Simply select the audio file you want to listen to followed by the JPEG from which you want the slideshow to start. Playback of both the slideshow and the audio files repeats. Playback controls are effective for the JPEG slideshow only.
- To play the contents of the whole disc rather than just the current folder, exit the Disc Navigator and start playback using the PLAY button.
Looping a section of a disc

The A-B Repeat function allows you to specify two points (A and B) within a track (CD, Video CD) or title (DVD-Video and DVD-RW) that form a loop which is played over and over.

- You can’t use A-B Repeat with DVD-Audio, SACD, Video CDs in PBC mode, or MP3/WMA/MPEG-4 AAC/DivX video/WMV files.

1. During playback, press PLAY MODE and select ‘A-B Repeat’ from the list of functions on the left.

2. Press ENTER on ‘A(Start Point)’ to set the loop start point.

3. Press ENTER on ‘B(End Point)’ to set the loop end point. After pressing ENTER, playback jumps back to the start point and plays the loop.

4. To resume normal playback, select ‘Off’ from the menu.

Using repeat play

There are various repeat play options, depending on the kind of disc loaded. It’s also possible to use repeat play together with program play to repeat the tracks/chapters in the program list (see Creating a program list on page 28).

Important

- You can’t use Repeat play with Video CDs in PBC mode, or with MP3/WMA/MPEG-4 AAC discs.
- You can’t use repeat and random play at the same time.

1. During playback, press PLAY MODE and select ‘Repeat’ from the list of functions on the left.

2. Select a repeat play option. If program play is active, select Program Repeat to repeat the program list, or Repeat Off to cancel.

The repeat options available depend on the kind of disc loaded. For example, for DVD-Video and DVD-RW discs, you can select Title Repeat or Chapter Repeat (or Repeat Off).

- For DVD-Audio discs, select Group Repeat or Track Repeat (or Repeat Off).
- For SACDs, CDs and Video CDs, select Disc Repeat or Track Repeat (or Repeat Off).
- For DivX video/WMV discs, select Title Repeat, and for some DivX media files, select Chapter Repeat (or Repeat Off).
Using random play

Use the random play function to play titles or chapters (DVD-Video), Groups (DVD-Audio), or tracks (DVD-Audio, SACD, CD, Video CD) at random. (Note that the same track/title/chapter may play more than once.)

You can set the random play option when a disc is playing or stopped.

Important

• Random play remains in effect until you select Random Off from the random play menu options.
• You can’t use random play with VR format DVD-R/-RW discs, Video CDs playing in PBC mode, MP3/WMA/MPEG-4 AAC discs, DivX video/WMV discs, or while a DVD disc menu is being displayed.
• You can’t use random play together with program or repeat play.

1. Press PLAY MODE and select ‘Random’ from the list of functions on the left.
2. Select a random play option.
   The random play options available depend on the kind of disc loaded. For example, for DVD-Video discs, you can select Random Title or Random Chapter (or Random Off).

   • For DVD-Audio discs, select Random Group or Random Track (or Random Off).
   • For CDs, SACDs and Video CDs, select On or Off to switch random play on or off.

Tip

• Use the following controls during random play:
  
<table>
<thead>
<tr>
<th>Button</th>
<th>What it does</th>
</tr>
</thead>
<tbody>
<tr>
<td>►◄ NEXT</td>
<td>Selects a new track/title/chapter at random.</td>
</tr>
<tr>
<td>►◄ PREV</td>
<td>Returns to the beginning of the current track/title/chapter; further presses select another random track/title/chapter.</td>
</tr>
</tbody>
</table>

Creating a program list

This feature lets you program the play order of titles/chapters/groups/tracks on a disc.

Important

• You can’t use Program play with VR format DVD-R/-RW discs, Video CDs playing in PBC mode, MP3/WMA/MPEG-4 AAC discs, DivX video/WMV discs, or while a DVD disc menu is being displayed.

1. Press PLAY MODE and select ‘Program’ from the list of functions on the left.
2. Select ‘Create/Edit’ from the list of program options.
3. Use the cursor buttons and ENTER to select a title, chapter or track for the current step in the program list.

   • For a DVD-Video disc, you can add a title or a chapter to the program list.
   • For a DVD-Audio disc, you can add a whole group, or a track within a group to the program list.
   • For a CD, SACD or Video CD, select a track to add to the program list.

   After pressing ENTER to select the title/chapter/group/track, the step number automatically moves down one.
4. Repeat step 3 to build up a program list.
   A program list can contain up to 24 titles/chapters/tracks.
   • You can insert steps into the middle of a program list by just highlighting the position where you want the new step to appear and entering a title/chapter/group/track number.
   • To delete a step, highlight it and press CLEAR.
5. To play the program list, press ►◄ PLAY.
   Program play remains active until you turn off program play (see page 29), erase the program list (see page 29), eject the disc or switch off the player.
Use the following controls during program play:

<table>
<thead>
<tr>
<th>Button</th>
<th>What it does</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAY MODE</td>
<td>Save the program list and exit the program edit screen without starting playback (HOME MENU does the same).</td>
</tr>
<tr>
<td> NEXT</td>
<td>Skip to the next step in the program list.</td>
</tr>
</tbody>
</table>

Other functions available from the program menu

There are a number of other options in the program menu in addition to Create/Edit.

- Playback Start – Starts playback of a saved program list
- Playback Stop – Turns off program play, but does not erase the program list
- Program Delete – Erases the program list and turns off program play

Searching a disc

You can search DVD-Video discs by title or chapter number, or by time; DVD-Audio discs can be searched by group or track number; SACDs by track number, CDs and Video CDs by track number or time; DivX video/WMV discs by time, and some DivX media files by chapter number.

Important

- Search functions are not available with Video CDs in PBC mode, or with MP3/WMA/MPEG-4 AAC discs.

1 Press PLAY MODE and select ‘Search Mode’ from the list of functions on the left.
2 Select a search mode.
   - The disc must be playing in order to use time search.
3 Use the number buttons to enter a title, chapter or track number, or a time.
   - For a time search, enter the number of minutes and seconds into the currently playing title (DVD/DivX video/WMV) or track (CD/Video CD) you want playback to resume from. For example, press 4, 5, 0, 0 to have playback start from 45 minutes into the disc. For 1 hour, 20 minutes and 30 seconds, press 8, 0, 3, 0.
   - Some DVD-Audio discs feature pages of browsable pictures. Enter the page number you want.
4 Press ENTER to start playback.

Switching subtitles

Some DVD-Video and DivX video discs have subtitles in one or more languages; the disc box will usually tell you which subtitle languages are available. You can switch subtitle language during playback.

- Press  SUBTITLE repeatedly to select a subtitle option.

Note

- Some discs only allow you to change subtitle language from the disc menu. Press TOP MENU or MENU to access.
- To set subtitle language preferences, see page 33.
- See Displaying external subtitle files on page 9 for more on DivX subtitles.

Switching audio language/channels

When playing a DVD-Video and DivX video disc recorded with dialog in two or more languages, you can switch audio language during playback.

When playing a VR format DVD-R/-RW disc recorded with dual-mono audio, you can switch between the main, sub, and mixed channels during playback.

When playing a DVD-Audio disc, you may be able to switch channels — see the disc box for details. (When you change the audio channel, playback restarts from the beginning of the current track.)

When playing a Video CD, you can switch between stereo, just the left channel or just the right channel.

- Press  AUDIO repeatedly to select an audio language/channel option.
- The language/channel information is shown on-screen.

Note

- Some DVD discs only allow you to change audio language from the disc menu. Press TOP MENU or MENU to access.
- To set DVD audio language preferences, see page 33.

Zooming the screen

Using the zoom feature you can magnify a part of the screen by a factor of 2 or 4, while watching a DVD, DivX video/WMV title or Video CD or playing a JPEG disc.

1 During playback, use the ZOOM button to select the zoom factor (Normal, 2x or 4x).
   - Since DVD, Video CD, DivX video/WMV title and JPEG pictures have a fixed resolution, picture quality will deteriorate, especially at 4x zoom. This is not a malfunction.
2 Use the cursor buttons to change the zoomed area.
   - You can change the zoom factor and the zoomed area freely during playback.
   - If the navigation square at the top of the screen disappears, press ZOOM again to display it.
Switching camera angles

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

When a multi-angle scene is playing, a icon appears on screen to let you know that other angles are available (this can be switched off if you prefer — see Display settings on page 34).

• During playback, press ANGLE to switch angle.

Displaying disc information

Various track, chapter and title information, such as the elapsed and remaining playing time can be displayed on-screen while a disc is playing.

• To show/switch/hide the information displayed, press DISPLAY repeatedly.
  • When a disc is playing, the information appears at the top of the screen. Keep pressing DISPLAY to change the displayed information.
Chapter 6
Audio Settings and Video Adjust menus

Audio Settings menu

The Audio Settings menu offers features for adjusting the way discs sound.

1. Press HOME MENU and select 'Audio Settings' from the on-screen display.

2. Select and change settings using the $\uparrow / \downarrow / \leftarrow / \rightarrow$ (cursor) buttons, and ENTER.

Audio DRC
- Settings: High, Medium, Low, Off (default)
When watching Dolby Digital DVDs at low volume, it’s easy to lose the quieter sounds completely — including some of the dialog. Switching Audio DRC (Dynamic Range Control) 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.

Note
- Audio DRC is only effective with Dolby Digital audio sources.
- Audio DRC is only effective through the digital output when Digital Out (page 32) is set to On, and Dolby Digital Out (page 32) is set to Dolby Digital > PCM.
- The effect of Audio DRC also depends on your speakers and AV receiver settings.

Virtual Surround
- Settings: On, Off (default)
Switch on Virtual Surround to enjoy realistic surround sound effects from just two speakers.

Tip
- You can also use the SURROUND button on the remote control to switch Virtual Surround on.

Note
- 96 kHz linear PCM audio is automatically downsamples to 48 kHz if Virtual Surround is switched on.
- The Audio Output Mode (page 36) must be set to 2 Channel in order to be able to use Virtual Surround.

Dialog
- Settings: High, Medium, Low, Off (default)
The Dialog feature is designed to make the dialog stand out from other background sounds in the soundtracks.

Video Adjust menu

From the Video Adjust screen you can adjust various settings that affect how the picture is presented.

1. Press HOME MENU and select 'Video Adjust' from the on-screen display.

2. Make settings using the $\uparrow / \downarrow / \leftarrow / \rightarrow$ (cursor) buttons, and ENTER.

You can adjust the following picture quality settings:
- PureCinema – When watching DVDs, PureCinema optimizes the picture quality. The default setting is Auto, but if the picture appears unnatural, then set to Video1 or Video2, as appropriate.
- Sharpness – Adjusts the sharpness of edges in the picture (Fine, Standard (default), Soft).
- Brightness – Adjusts the overall brightness (−20 to +20).
- Contrast – Adjusts the contrast between light and dark (−16 to +16).
- Gamma – Adjusts the ‘gradation’ of the picture (−3 to +3).
- Hue – Adjusts the red/green balance (green 9 to red 9).
- Chroma Level – Adjusts how saturated colors appear (−9 to +9).
- BNR – Switches on/off block noise reduction (On, Off (default)). Adjust the Brightness, Contrast, Hue and Chroma Level settings using the $\uparrow / \downarrow$ (cursor left/right) buttons.

3. Press ENTER to return to the Video Adjust screen, or HOME MENU to exit.
Chapter 7
Initial Settings menu

Using the Initial Settings menu

The Initial Settings menu provides audio and video output settings, parental lock settings, and display settings, among others. If an option is grayed out, it means that it cannot be changed at the current time. This is usually because a disc is playing. Stop the disc, then change the setting.

1. Press HOME MENU and select 'Initial Settings'.
2. Use the cursor buttons and ENTER to select the setting and option you want to set.

All the settings and options are explained on the following pages.

Digital Audio Out settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Option</th>
<th>What it means</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Out</td>
<td>On •</td>
<td>Digital audio is output from the digital outputs.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>No digital audio output.</td>
</tr>
<tr>
<td>Dolby Digital</td>
<td>Dolby Digital</td>
<td>Dolby Digital encoded digital audio is output when playing a Dolby Digital disc.</td>
</tr>
<tr>
<td></td>
<td>Dolby Digital &gt; PCM</td>
<td>Dolby Digital audio is converted to PCM audio before being output.</td>
</tr>
<tr>
<td>DTS Out</td>
<td>DTS •</td>
<td>DTS encoded digital audio is output when playing a DTS disc.</td>
</tr>
<tr>
<td></td>
<td>DTS &gt; PCM</td>
<td>No digital audio is output when playing a DTS disc.</td>
</tr>
<tr>
<td>Linear PCM Out</td>
<td>Down Sample On •</td>
<td>96 kHz digital audio is converted to 48 kHz for digital output.</td>
</tr>
<tr>
<td></td>
<td>Down Sample Off</td>
<td>96 kHz digital audio is output as is at 96 kHz.</td>
</tr>
<tr>
<td>MPEG Out</td>
<td>MPEG &gt; PCM</td>
<td>MPEG encoded digital audio is converted to PCM audio for digital output.</td>
</tr>
<tr>
<td></td>
<td>MPEG</td>
<td>MPEG encoded digital audio is output as is.</td>
</tr>
</tbody>
</table>

Note

- In the table below, the default option is marked with a •.
- The Digital Audio Out settings only need to be set if you have connected the digital output of this player to an AV receiver, or other equipment.
- Check the operating instructions supplied with your other equipment to see which digital audio formats it is compatible with.
- Some settings, such as TV Screen, Audio Language and Subtitle Language, may be overridden by the DVD disc. Often these settings can also be made from the DVD disc menu.
- The HDMI Out and HDMI Color settings only need to be set if you connected this player to an HDMI-compatible component using the HDMI connector.
- The Digital Audio Out and Speakers settings cannot be set if the player is connected to an HDMI-compatible component using the HDMI connector. Additionally, these settings may be changed automatically.
### Video Output settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Option</th>
<th>What it means</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV Screen</td>
<td>4:3 (Letter Box)</td>
<td>Set if you have a conventional 4:3 TV. Widescreen movies are shown with black bars top and bottom.</td>
</tr>
<tr>
<td></td>
<td>4:3 (Pan &amp; Scan)</td>
<td>Set if you have a conventional 4:3 TV. Widescreen movies are shown with the sides cropped so that the image fills the screen.</td>
</tr>
<tr>
<td></td>
<td>16:9 (Wide)</td>
<td>Set if you have a widescreen TV.</td>
</tr>
<tr>
<td></td>
<td>16:9 (Compressed)</td>
<td>This can only be selected when Resolution (Max) is set to 1920x1080p, 1920x1080i or 1280x720p. Video in 4:3 can be properly displayed on a 16:9 high definition television (with black bars shown on either side of the screen).</td>
</tr>
<tr>
<td>Resolution (Max)</td>
<td>1920x1080p</td>
<td>Set if your TV supports 1920 x 1080 pixel progressive-scan video (24 Hz frame rate is not supported).</td>
</tr>
<tr>
<td></td>
<td>1920x1080i</td>
<td>Set if your TV supports 1920 x 1080 pixel interlace video.</td>
</tr>
<tr>
<td></td>
<td>1280x720p</td>
<td>Set if your TV supports 1280 x 720 pixel progressive-scan video.</td>
</tr>
<tr>
<td></td>
<td>720x480p</td>
<td>Set if your TV supports 720 x 480 pixel progressive-scan video.</td>
</tr>
<tr>
<td></td>
<td>720x480i</td>
<td>Set if your TV supports 720 x 480 pixel interlace video.</td>
</tr>
<tr>
<td>HDMI Color</td>
<td>Full range RGB</td>
<td>If colors are weak, this gives brighter colors and deeper black.</td>
</tr>
<tr>
<td></td>
<td>RGB</td>
<td>Use this setting if colors appear overly rich on the Full range RGB setting.</td>
</tr>
<tr>
<td></td>
<td>Component</td>
<td>Outputs component video format (default setting for HDMI-compatible devices).</td>
</tr>
</tbody>
</table>

### Language settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Option</th>
<th>What it means</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Language</td>
<td>English</td>
<td>If there is an English soundtrack on the disc then it will be played.</td>
</tr>
<tr>
<td></td>
<td>Languages as displayed</td>
<td>If there is the language selected on the disc, then it will be played.</td>
</tr>
<tr>
<td></td>
<td>Other Language</td>
<td>Select to choose a language other than the ones displayed (see page 41).</td>
</tr>
<tr>
<td>Subtitle Language</td>
<td>English</td>
<td>If there are English subtitles on the disc then they will be displayed.</td>
</tr>
<tr>
<td></td>
<td>Languages as displayed</td>
<td>If there is the subtitle language selected on the disc, then it will be displayed.</td>
</tr>
<tr>
<td></td>
<td>Other Language</td>
<td>Select to choose a language other than the ones displayed (see page 41).</td>
</tr>
<tr>
<td>DVD Menu Lang. w/Subtitle Lang.</td>
<td>w/Subtitle Lang.</td>
<td>DVD disc menus will be displayed in the same language as your selected subtitle language, if possible.</td>
</tr>
<tr>
<td></td>
<td>Languages as displayed</td>
<td>DVD disc menus will be displayed in the selected language, if possible.</td>
</tr>
<tr>
<td></td>
<td>Other Language</td>
<td>Select to choose a language other than the ones displayed (see page 41).</td>
</tr>
<tr>
<td>Subtitle Display</td>
<td>On</td>
<td>Subtitles are displayed according to your selected subtitle language (see above).</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Subtitles are always off by default when you play a DVD disc (note that some discs override this setting).</td>
</tr>
</tbody>
</table>
### Display settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Option</th>
<th>What it means</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OSD Language</strong></td>
<td>English •</td>
<td>On-screen displays of the player are in English. Languages as displayed on-screen displays are shown in the language selected.</td>
</tr>
<tr>
<td><strong>Angle Indicator</strong></td>
<td>On •</td>
<td>A camera icon is displayed on-screen during multi-angle scenes on a DVD disc.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>No multi-angle indication is shown.</td>
</tr>
</tbody>
</table>

### Options settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Option</th>
<th>What it means</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HDMI Control</strong></td>
<td>On •</td>
<td>Select when using the HDMI Control function. See HDMI Control on page 6.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Select when not using the HDMI Control function. See HDMI Control on page 6.</td>
</tr>
<tr>
<td><strong>Pure Audio Button</strong></td>
<td>Available</td>
<td>The Pure Audio Mode is turned on and off using the PURE AUDIO button on the front panel.</td>
</tr>
<tr>
<td></td>
<td>Unavailable •</td>
<td>The PURE AUDIO button on the front panel no longer functions.</td>
</tr>
<tr>
<td><strong>SACD Playback</strong></td>
<td>2ch Area •</td>
<td>Selects the 2 channel (stereo) SACD audio area of the disc for playback.</td>
</tr>
<tr>
<td></td>
<td>Multi-ch Area</td>
<td>Selects the multi-channel SACD audio area of the disc for playback.</td>
</tr>
<tr>
<td></td>
<td>CD Area</td>
<td>Selects the standard CD audio area of an SACD/CD hybrid disc for playback.</td>
</tr>
<tr>
<td><strong>DVD Playback Mode</strong></td>
<td>DVD-Audio •</td>
<td>All material on a DVD-Audio disc is playable.</td>
</tr>
<tr>
<td></td>
<td>DVD-Video</td>
<td>Only the DVD Video part of a DVD-Audio disc is playable.</td>
</tr>
<tr>
<td><strong>DTS Downmix</strong></td>
<td>STEREO •</td>
<td>Downmixes DTS for 2 channel output to regular stereo. (See also DTS Downmix on page 35.)</td>
</tr>
<tr>
<td></td>
<td>Lt/Rt</td>
<td>Downmixes DTS for 2 channel output to be compatible with Dolby Surround matrix decoders. (See also DTS Downmix on page 35.)</td>
</tr>
<tr>
<td><strong>Parental Lock</strong></td>
<td>–</td>
<td>See Parental Lock on page 35.</td>
</tr>
<tr>
<td><strong>DivX VOD</strong></td>
<td>Display</td>
<td>See About DivX® VOD content on page 36.</td>
</tr>
</tbody>
</table>

### Speakers settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Option</th>
<th>What it means</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Audio Output Mode</strong></td>
<td>2 Channel •</td>
<td>The player outputs analog audio in stereo only. See also Audio Output Mode on page 36.</td>
</tr>
<tr>
<td></td>
<td>5.1 Channel</td>
<td>The player outputs 5.1 channel analog audio. See also Audio Output Mode on page 36.</td>
</tr>
<tr>
<td><strong>Speaker Distance</strong></td>
<td>–</td>
<td>Specify the distance of your speakers from your listening position. See also Speaker Distance on page 39.</td>
</tr>
<tr>
<td><strong>Speaker Installation</strong></td>
<td>–</td>
<td>Specify the number and size of speakers in your system. See also Speaker Installation on page 39.</td>
</tr>
</tbody>
</table>
Parental Lock

- Default level: Off; Default password: none; Default Country/Area code: us (2119)

To give you some control over what your children watch on your DVD player, some DVD-Video discs feature a Parental Lock level. If your player is set to a lower level than the disc, the disc won’t play. Some discs also support the Country/Area Code feature. The player does not play certain scenes on these discs, depending on the Country/Area Code you set.

Note
- Not all discs use Parental Lock, and will play without requiring the password first.
- If you forget your password, you’ll need to reset the player to register a new password (see Resetting the player on page 41).

Registering a new password
You must register a password before you can change the Parental Lock level or enter a Country code.

1 Select ‘Options’, then ‘Password’.
2 Use the number buttons to enter a 4-digit password. The numbers you enter show up as asterisks (*) on-screen.
3 Press ENTER to register the password.

Changing your password
To change your password, confirm your existing password then enter a new one.

1 Select ‘Password Change’.
2 Use the number buttons to enter your existing password, then press ENTER.
3 Enter a new password and press ENTER.

This registers the new password and you will return to the Options menu screen.

Setting/changing the Parental Lock

1 Select ‘Level Change’.
2 Use number buttons to enter your password, then press ENTER.

3 Select a new level and press ENTER.

- Press (cursor left) repeatedly to lock more levels (more discs will require the password); press (cursor right) to unlock levels. You can’t lock level 1.

This sets the new level and you will return to the Options menu screen.

Setting/changing the Country/Area code

You can find the Country/area code list on page 46.

1 Select ‘Country Code’.
2 Use number buttons to enter your password, then press ENTER.
3 Select a Country/Area code and press ENTER.

There are two ways you can do this:
- Select by code letter: Use (cursor up/down) to change the Country/Area code.
- Select by code number: Press (cursor right) then use the number buttons to enter the 4-digit Country/Area code.

The new Country/Area code is set and you will return to the Options menu screen. Note that the new Country/Area code doesn’t take effect until the next disc is loaded (or the current disc is reloaded).

DTS Downmix

- Default setting: STEREO

If you’ve selected DTS > PCM in DTS Out on page 32 or 2 Channel in Audio Output Mode on page 34, you can choose the way the signal is downmixed to PCM audio. STEREO will downmix the DTS signal to 2-channel stereo, whereas Lt/Rt will downmix 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.)
About DivX® VOD content

In order to play DivX VOD (video on demand) content on this player, you first need to register the player with your DivX VOD content provider. You do this by generating a DivX VOD registration code, which you submit to your provider.

Important
• DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.
• If you load a disc that contains DivX VOD content not authorized for your player, the message "Authorization Error" is displayed and the content will not play.
• Resetting the player (as described in Resetting the player on page 41) will not cause you to lose your registration code.

Displaying your DivX VOD registration code

1 Press HOME MENU and select ‘Initial Settings’.
2 Select ‘Options’, then ‘DivX VOD’.
3 Select ‘Display’.

Your 8-digit registration code is displayed.

Playing DivX® VOD content

Some DivX VOD content may only be playable a fixed number of times. When you load a disc containing this type of DivX VOD content, the remaining number of plays is shown on-screen and you then have the option of playing the disc (thereby using up one of the remaining plays), or stopping. If you load a disc that contains expired DivX VOD content (for example, content that has zero remaining plays), the message "Rental Exired" is displayed. If your DivX VOD content allows an unlimited number of plays, then you may load the disc into your player and play the content as often as you like, and no message will be displayed.

Audio Output Mode

• Default setting: 2 Channel

If you connected this player to your amplifier using the 5.1 channel analog outputs (front, surround, center and subwoofer outs), set this to 5.1 Channel. If you connected only the stereo outs, set to 2 Channel.

Note
• Even if you set Audio Output Mode to 5.1 Channel, you’ll only get sound from all speakers when playing a 5.1 channel multi-channel disc.
• When set to 5.1 Channel, only the front left/right channels are output from the AUDIO OUT (2ch) jacks. Change to 2 Channel if you want to listen to downmixed stereo audio (for example, because you are listening through the TV’s built-in speakers).
• When set to 5.1 Channel there is no digital output when playing DVD-Audio.
• If you set to 2 Channel, Dolby Digital, DTS and MPEG audio is mixed down to two channels so you still hear all the audio recorded on the disc. With DTS encoded audio, you can choose how the signal is downmixed to PCM audio. See DTS Downmix on page 35 to change the downmix setting.
• Some DVD-Audio discs don’t allow down-mixing of audio. These discs always output multi-channel audio regardless of the setting made here.
About the audio output settings
The table below shows how the audio settings you make in the Initial Settings menu (page 32) affect the output from the 2 channel and the 5.1 channel analog outputs, and from the digital outputs with various types of disc.

<table>
<thead>
<tr>
<th>Disc audio format</th>
<th>Player setting</th>
<th>Front L/R analog outputs</th>
<th>Surround L/R, Center, Subwoofer outputs</th>
<th>Digital outputs PCM convert</th>
<th>Bitstream</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD</td>
<td>Dolby Digital</td>
<td>2ch</td>
<td>2ch downmix</td>
<td>2ch downmix</td>
<td>Dolby Digital</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.1ch</td>
<td>Front L/R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dolby Digital karaoke</td>
<td>2ch/5.1ch</td>
<td>Left/Right</td>
<td>—</td>
<td>Left/Right</td>
<td>Dolby Digital</td>
</tr>
<tr>
<td>Linear PCM</td>
<td>2ch/5.1ch</td>
<td>Left/Right</td>
<td>—</td>
<td>Left/Right</td>
<td></td>
</tr>
<tr>
<td>DTS</td>
<td>2ch</td>
<td>2ch downmix</td>
<td>Front L/R</td>
<td>—</td>
<td>DTS</td>
</tr>
<tr>
<td></td>
<td>5.1ch</td>
<td></td>
<td></td>
<td>Surround L/R, Center, Subwoofer</td>
<td></td>
</tr>
<tr>
<td>MPEG</td>
<td>2ch</td>
<td>2ch downmix</td>
<td>Front L/R</td>
<td>—</td>
<td>MPEG</td>
</tr>
<tr>
<td></td>
<td>5.1ch</td>
<td></td>
<td></td>
<td>Surround L/R, Center, Subwoofer</td>
<td></td>
</tr>
<tr>
<td>DVD-Audio</td>
<td>2ch</td>
<td>2ch downmix</td>
<td>Front L/R</td>
<td>2ch downmix</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5.1ch</td>
<td></td>
<td></td>
<td>2ch downmix</td>
<td></td>
</tr>
<tr>
<td>DVD-RW (VR mode)</td>
<td>2ch/5.1ch</td>
<td>Left/Right</td>
<td>—</td>
<td>Left/Right</td>
<td>Dolby Digital</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MPEG or PCM</td>
</tr>
<tr>
<td>Super Audio CD</td>
<td>2ch</td>
<td>2ch downmix</td>
<td>Front L/R</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5.1ch</td>
<td></td>
<td></td>
<td>Surround L/R, Center, Subwoofer</td>
<td></td>
</tr>
<tr>
<td>Audio CD/MP3/WMA/ MPEG-4 AAC</td>
<td>2ch/5.1ch</td>
<td>Left/Right</td>
<td>—</td>
<td>Left/Right</td>
<td></td>
</tr>
<tr>
<td>DTS CD</td>
<td>2ch</td>
<td>2ch downmix</td>
<td>Front L/R</td>
<td>—</td>
<td>DTS</td>
</tr>
<tr>
<td></td>
<td>5.1ch</td>
<td></td>
<td></td>
<td>Surround L/R, Center, Subwoofer</td>
<td></td>
</tr>
<tr>
<td>Video CD</td>
<td>2ch/5.1ch</td>
<td>Left/Right</td>
<td>—</td>
<td>Left/Right</td>
<td></td>
</tr>
</tbody>
</table>

1. When Audio Output Mode is set to 2 Channel, the AUDIO OUT (5.1ch) FRONT L/R jacks act as a second pair of stereo audio outputs.
2. Dolby Digital > PCM, DTS > PCM or MPEG > PCM setting (page 32)
3. Dolby Digital, DTS or MPEG setting (page 33)
4. Discs that prohibit downmixing will be output as 5.1 channel even if 2 Channel is selected as the Audio Output Mode setting (page 36).
5. Discs that prohibit downmixing also mute the digital output.
6. When Audio Output Mode is set to 5.1 Channel, mono sources are heard from the center speaker only.
# About the HDMI audio output settings

The table below shows how the audio settings you make in the **HDMI Out** (page 32) and **Audio Output Mode** (page 36) screens affect the HDMI output with various types of disc.

## HDMI output with DVD-Audio and SACD sources

The way audio sources are output from the HDMI terminal depends on the specification of the connected component.

### Components specification

<table>
<thead>
<tr>
<th>Component/output</th>
<th>Example component</th>
<th>Disc format (DVD-Audio or SACD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SACD, DVD-Audio and 5.1 channel compatible on HDMI¹</td>
<td>VSX-91TX</td>
<td>2ch 5.1ch²</td>
</tr>
<tr>
<td>DVD-Audio and 5.1 channel compatible on HDMI¹</td>
<td>VSX-94TXH</td>
<td>2ch 5.1ch²</td>
</tr>
<tr>
<td>DVD-Audio and 2 channel compatible on HDMI¹</td>
<td>PDP-6010FD</td>
<td>2ch</td>
</tr>
<tr>
<td>Incompatible with DVD-Audio on HDMI¹</td>
<td>PDP-5050HD</td>
<td>No sound¹</td>
</tr>
<tr>
<td>PDP-4950HD</td>
<td>No sound¹</td>
<td>No sound¹</td>
</tr>
</tbody>
</table>

1. This unit checks the specification of the connected component (such sample rate/multichannel limitations and compatibility with protected audio contents) and outputs the signal accordingly. Note that DVD-Audio compatible” indicates compatibility with protected audio contents, “SACD compatible” indicates compatibility with DSD signals.
2. If the HDMI device you are using is not compatible with Multi-ch formats, the output signal is the same as LPCM (2CH) setting.
3. If the connected component is not compatible with these compressed formats, the signal is output as linear PCM.
4. If the connected HDMI device is not compatible with protected audio contents (such as DVD-Audio or SACD), SACD audio is not output from the HDMI terminal.
5. If CPPM shows in the front panel display, it means it is not possible to output CPPM copy-controlled DVD-Audio sources from the HDMI connection. Discs with no CPPM protection are limited to 2 channel output.

---

### Disc audio format

<table>
<thead>
<tr>
<th>Disc audio format</th>
<th>HDMI Out setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD Dolby Digital¹</td>
<td>Left/Right or 2ch downmix³ 5.1ch² 5.1ch³</td>
</tr>
<tr>
<td>DVD-Audio (with CPPM)¹</td>
<td>Left/Right or 2ch downmix³ 5.1ch² 5.1ch³</td>
</tr>
<tr>
<td>DVD-Audio (without CPPM)</td>
<td>Left/Right or 2ch downmix³ 5.1ch²</td>
</tr>
<tr>
<td>Super Audio CD⁶</td>
<td>Left/Right 5.1ch² 5.1ch (DSD)²³</td>
</tr>
<tr>
<td>Audio CD/MP3/WMA/MPEG-4 AAC</td>
<td>Left/Right Left/Right Left/Right</td>
</tr>
<tr>
<td>DTS CD</td>
<td>Left/Right 5.1ch²</td>
</tr>
<tr>
<td>Video CD</td>
<td>Left/Right Left/Right Left/Right</td>
</tr>
<tr>
<td>LPCM (2CH)</td>
<td>2ch 5.1ch²</td>
</tr>
<tr>
<td>LPCM (5.1CH)</td>
<td>5.1ch³</td>
</tr>
<tr>
<td>Auto</td>
<td>Dolby Digital³</td>
</tr>
</tbody>
</table>

1. These formats include DVD-RW discs.
2. If the HDMI device you are using is not compatible with Multi-ch formats, the output signal is the same as LPCM (2CH) setting.
3. If the connected component is not compatible with these compressed formats, the signal is output as linear PCM.
4. If the connected component is not DVD-Audio (CPPM) compatible, it is not possible to output CPPM copy-controlled DVD-Audio sources from the HDMI connection (see HDMI output with DVD-Audio and SACD sources below for more on this).
5. If the discs prohibit downmixing, output AUDIO OUT (5.1ch) FRONT L/R.
6. If the discs prohibit downmixing, output AUDIO OUT (5.1ch) FRONT L/R.
7. This unit checks the specification of the connected component (such sample rate/multichannel limitations and compatibility with protected audio contents) and outputs the signal accordingly. Note that DVD-Audio compatible” indicates compatibility with protected audio contents, “SACD compatible” indicates compatibility with DSD signals.
8. If the HDMI device you are using is not compatible with Multi-ch formats, the output signal is the same as LPCM (2CH) setting.
9. If the HDMI device you are using is not compatible with Multi-ch formats, the output signal is the same as LPCM (2CH) setting.
10. If the HDMI device you are using is not compatible with Multi-ch formats, the output signal is the same as LPCM (2CH) setting.

---

1. If the HDMI Out setting (page 32) is set to LPCM (2CH), DVD-Audio multichannel sources will be downmixed to stereo. (In cases where the source is downmix-prohibited, only the front left/right channels are output.) For SACD sources, the 2 channel (stereo) SACD audio area is selected. If the output resolution is 480i or 480p, audio output may be limited to 2 channel (depending to the connected component).
2. In cases where the source is downmix-prohibited, only the front left/right channels are output.
3. In cases where the source is downmix-prohibited, only the front left/right channels are output.
4. If CPPM shows in the front panel display, it means it is not possible to output CPPM copy-controlled DVD-Audio sources from the HDMI connection. Discs with no CPPM protection are limited to 2 channel output.
Speaker Distance

- Default settings: all speakers 10.0ft
You only need to make this setting if you connected this player to your amplifier using the 5.1 channel analog outputs.
These settings do not affect any digital audio output.
To get the best surround sound from your system, you should set up the speaker distances from your listening position.

1 Use the ↑ / ↓ (cursor up/down) to select a speaker.
   - The L and R speakers are paired; you can’t set them differently.

2 Press → (cursor right) to change the speaker distance for the highlighted speaker.

3 Use the ↑ / ↓ (cursor up/down) to change the distance.
   - When you change the distance settings of the front left (L) or front right (R) speakers, all the other speaker distances change relative to it.
   - Front left/right (L/R) speaker distances can be set from 1.0 ft to 30.0 ft in 1.0 ft increments.
   - The center speaker (C) can be set from −7.0 ft to 0.0 ft relative to the front left/right speakers.
   - Surround left/right (SL/ SR) speakers can be set from −2.0 ft to 0.0 ft relative to the front left/right speakers.
   - You can’t set the subwoofer (SW) distance.

4 Press ← (cursor left) to go back to the speaker list if you want to modify another speaker, or press ENTER to exit the Speaker Distance screen.

Note
- During playback of MPEG-audio and DVD-Video discs, the effective C, SL and SR speaker distance settings are −30.0 ft to 0.0 ft relative to the front left/right speakers.
- Speaker Distance settings do not affect SACD playback.

Speaker Installation

- Default settings: L/R: Large | C: Large | SL/SR: Large | SW: On
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 digital audio output.

Use the Speaker Installation screen to tell the player what kinds of speakers you have connected.

1 Use the ↑ / ↓ (cursor up/down) buttons to select a speaker.
   - The L and R, and SL and SR speakers are paired; you can’t set them differently.

2 Press → (cursor right) to modify the selected speaker.

3 Use the ↑ / ↓ (cursor up/down) buttons to change the current setting.
   - You can see the effect of your changes in the room graphic on the right of the screen.
   - Except for the subwoofer, you can set speaker size to Large or Small. If the main speaker cone in the speaker is 12 cm or more, set to Large; otherwise set to Small (or Off if you don’t have that speaker).
   - If you set the front L and R speakers to Small, the center and surround speakers are automatically set to Small and the subwoofer to On.
   - The subwoofer can only be set to On or Off.

4 Press ← (cursor left) to go back to the speaker list if you want to modify another speaker, or press ENTER to exit the Speaker Installation screen.
Chapter 8  
Additional information

Taking care of your player and discs

General
Hold discs by the edge or by the center hole and edge.
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 on to discs. Do not use a pencil, ball-point pen or other sharp-tipped writing instrument to write on the disc.

Don’t use self-adhesive disc labels on discs as these can cause the disc to warp slightly during playback causing distortion in the picture and/or sound.

Damaged and shaped discs
Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the player.

This player is designed to be used only with conventional, fully circular discs. Do not use shaped discs. Pioneer disclaims all liability arising in connection with the use of shaped discs.

Cleaning discs
Fingerprints and dust on discs can affect playback performance. Clean using a soft, dry cloth, wiping the disc lightly from the center to the outside edge as shown below.

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

Cleaning the unit’s exterior
Unplug the unit before cleaning.
Use a dry cloth to wipe off dust and dirt. If the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water and wrung out well, then wipe again with a dry cloth.
Do not use furniture wax or cleaners. Never use thinners, benzine or insecticide sprays or other chemicals on or near this unit.

Cleaning the pickup lens
The DVD 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. We do not recommend using commercially available lens cleaners for CD players.

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. Leave it to adjust to the warmer temperature for about an hour before switching on.

Moving the player
If you need to move the player, first press STANDBY/ON on the front panel or remote control to turn the player off. Wait for “OFF” to disappear from the display, then unplug the power cable. 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

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 Screen setting (page 33) of this player should be set to 16:9 (Wide) or 16:9 (Compressed).

When you watch discs recorded in 4:3 format with the 16:9 (Wide) setting, 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 Screen setting (page 33) of this player should be set to 4:3 (Letter Box) or 4:3 (Pan & Scan), depending on which you prefer.

Set to 4:3 (Letter Box), widescreen discs are shown with black bars top and bottom.

Set to 4:3 (Pan & Scan), widescreen discs are shown with the left and right sides cropped. Although the picture looks larger, you don’t actually see the whole picture.

Please note that many widescreen discs override the player’s settings so that the disc is shown in letter box format regardless of the setting.

Note
- Using the 16:9 (Wide) or 16:9 (Compressed) setting with a standard 4:3 TV, or either of the 4:3 settings with a widescreen TV, will result in a distorted picture.

Resetting the player

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

1 Switch the player into standby.
2 Using the front panel buttons, hold down the ■ (stop) button and press STANDBY/ON to switch the player back on. All the player’s settings are now reset.

DVD-Video regions

All DVD-Video discs carry a region mark on the case somewhere that indicates which region(s) of the world the disc is compatible with. Your DVD player also has a region mark, which you can find on the rear panel. Discs from incompatible regions will not play in this player. In this case the attention sentence “Incompatible disc region number Can’t play disc” is displayed on screen. Discs marked ALL will play in any player. The diagram below shows the various DVD regions of the world.

Selecting languages using the language code list

Some of the language options (such as DVD Menu Lang. in the Initial Settings) allow you to set your preferred language from any of the 136 languages listed in the language code list on Language code list on page 46.

1 Select ‘Other Language’.
2 Use the ▶/◀ (cursor left/right) buttons to select either a code letter or a code number.
3 Use the ▼/▲ (cursor up/down) buttons to select a code letter or a code number.

See Language code list on page 46 for a complete list of languages and codes.
## 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, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Remedy</th>
</tr>
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</table>
| 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 (page 40).  
• Make sure the disc is loaded with the label side face-up and aligned properly in the disc tray guide.  
• Incompatible region number: If the region number on a DVD-Video disc does not match the number on the player, the disc cannot be used (page 41). In this case the attention sentence “Incompatible disc region number Can’t play disc” is displayed on screen.  
• Condensation inside the player: Allow time for condensation to evaporate. Avoid using the player near an air-conditioning unit.  
• Disc is loaded upside down: Reload the disc with the label side face up. |
| DVD-Audio playback stops. | • The disc may have been illegally copied. |
| Picture playback stops and the operation buttons cannot be used. | • Press ➤ STOP, then start playback again (➤ PLAY).  
• Press and hold the front panel ➤ STANDBY/ON button for about 10 seconds to switch the unit off, then press again to switch back on.  
• Switch the power off once, unplug from the wall socket, then plug back in and switch on again using the front panel ➤ STANDBY/ON button. |
| New settings made in the Setup screen menus while a disc is playing are ineffective. | • Some settings can be changed while a disc is playing, but are not effective until the disc is stopped then restarted: Press ➤ STOP, then start playback again (➤ PLAY). |
| Settings are canceled. | • When the power is cut due to power failure or by unplugging the power cord, settings will be canceled: Press ➤ STANDBY/ON on the front panel to turn the player off. Wait for "-OFF-" to disappear from the display, then unplug the power cord. |
| The remote control doesn’t seem to work. | • 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 (page 18).  
• The batteries are exhausted: Put in new ones (page 7).  
• The CONTROL IN jack on the rear panel is connected: Point the remote control at the connected component to control this player (page 14).  
• When the Startup Navigator is running, buttons other than ➤ OPEN/CLOSE, ➤ / /, ➤ ENTER and ➤ RETURN will not function. |
| 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.  
• The output resolution is set to 1080p/1080i/720p/480p but your TV/monitor is not compatible with these formats: See Switching the video output to 480i using the front panel controls on page 12 for how to set to 480i.  
• Check that the PURE AUDIO indicator is not lit. If it is, press the PURE AUDIO button (See also Front panel on page 16). |
| Screen is stretched or aspect does not change. | • The TV Screen setting in the Initial Settings menu is incorrect. See Screen sizes and disc formats on page 41 for how to set it correctly for your TV/monitor. |
| Picture disturbance during playback or the picture is dark. | • This player is compatible with Macro-Vision 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 prevent recording or cause picture problems. This is not a malfunction.  
• Check whether the TV system is properly set (page 41). |
<p>| The front panel display is dark or nothing is displayed. | • Check the FL DIMMER setting. Switch the setting with the FL DIMMER button on the remote control (page 18). |</p>
<table>
<thead>
<tr>
<th>Problem</th>
<th>Remedy</th>
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</table>
| No audio, or audio is distorted.                                        | • No audio is output during slow motion playback or when scanning discs other than Audio CDs and SACDs.  
• Some DVD discs do not output digital audio: Switch your amplifier to the player’s analog outputs.  
• Check that the disc is free from dust and dirt, and that it is not damaged (page 40).  
• 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 phone (turntable) inputs.  
• Check your amplifier/receiver’s settings (volume, input function, speaker settings, etc.). |
| The analog audio is OK, but there appears to be no digital audio signal. | • Make sure that the Digital Out (page 32) is set to On.  
• Check that the Dolby Digital Out, DTS Out, and MPEG Out (page 32) are suitable for your amplifier/receiver — check the instruction manual that came with your amplifier/receiver.  
• SACDs and some DVD-Audio discs do not output digital audio. Listen through the player’s analog audio outputs.  
• Check that the PURE AUDIO indicator is not lit. If it is, press the PURE AUDIO button (See also Front panel on page 16). |
| Noticeable difference in DVD and CD volume.                            | • This is due to differences in the audio format and is not a malfunction. |
| Cannot play multi-channel audio.                                        | • Make sure that Audio Output Mode (page 36) is set to 5.1 Channel.  
• Check that the Dolby Digital Out, DTS Out, and MPEG Out (page 32) are suitable for your amplifier/receiver—check the instruction manual that came with your amplifier/receiver.  
• DVD-Audio and SACDs do not output multichannel digital audio. Listen through the player’s analog outputs.  
• Check that the settings in the Speaker Installation screen are correct (page 34).  
• Check the audio options available from the disc menu. |
| Cannot listen to high-sampling rate audio through the digital output.   | • Make sure that Linear PCM Out (page 32) is set to Down Sample Off.  
• As a copy-protection measure, some DVDs do not output 96 kHz audio. In this case, even if set to Down Sample Off, the player automatically outputs the audio at 48 kHz. This is not a malfunction.  
• Check that Linear PCM Out (page 32) is set to Down Sample Off.  
• Check the audio options available from the disc menu. |
| Cannot output 192 kHz or 176.4 kHz digital audio.                       | • The player does not output digital audio at these sampling rates. The digital output is automatically downsampled.  
• Check that Linear PCM Out (page 32) is set to Down Sample Off.  
• Check the audio options available from the disc menu. |
| Cannot output 96 kHz or 88.2 kHz digital audio.                        | • Check that Linear PCM Out (page 32) is set to Down Sample Off.  
• As a copy-protection measure, some DVDs do not output 96 kHz audio. In this case, even if set to Down Sample Off, the player automatically outputs the audio at 48 kHz. This is not a malfunction.  
• Check that Linear PCM Out (page 32) is set to Down Sample Off.  
• Check the audio options available from the disc menu. |
| DTS audio signals are not output from the DIGITAL AUDIO OUT (COAXIAL/OPTICAL). | • If this unit is connected to a non-DTS compatible amplifier or decoder using a digital audio cable, set DTS Out (page 32) to DTS > PCM. If you do not do this, noise will be output when you play a DTS disc.  
• If this unit is connected to a DTS-compatible amplifier or decoder using a digital audio cable, check the amplifier settings, and that the cable is properly connected. |
| Audio mix does not sound right or sounds incomplete (for example, inaudible dialog). | • Make sure that Audio Output Mode (page 36) is set to 2 Channel if you’ve connected to the stereo inputs on your amplifier or TV.  
• Virtual Surround does not work with SACD or DVD-Audio.  
• The Virtual Surround effect is only output through the AUDIO OUT (2ch) analog audio outputs.  
• Make sure that Audio Output Mode (page 36) is set to 5.1 Channel.  
• The effectiveness of Virtual Surround varies with the disc. |
| Can’t hear effect of Virtual Surround.                                 | • This unit’s power may be turned on when you control this unit from a connected TV. If you do not want this unit to be turned on in this way, set this unit’s HDMI Control (page 34) to Off.  
• 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 34) 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 34) to Off. |
# HDMI troubleshooting

<table>
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<tr>
<th>Problem</th>
<th>Remedy</th>
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</table>
| No HDMI audio output. | • Check whether or not HDMI Out (page 32) is set to Off.  
  • 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 the front panel HDMI indicator is lit:  
    – You won’t hear any sound from the HDMI output if the source component is only DVI/HDCP-compatible.  
    – 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.  
      – Check that components connected using the HDMI interface are switched on and HDMI compatible.  
      – Check that the PURE AUDIO indicator is not lit. If it is, press the PURE AUDIO button (See also Front panel on page 16). |
| No HDMI video output. | • 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.  
  • Check that components connected using the HDMI interface are switched on and HDMI compatible.  
  • 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.  
  • Make sure the resolution on this player matches that of the component you have connected using HDMI. See Resolution (Max) on page 33 to change the HDMI resolution. See Resetting the output resolution to the default setting with HDMI connection on page 15 if you want to reset the output resolution.  
  • Check that the PURE AUDIO indicator is not lit. If it is, press the PURE AUDIO button (See also Front panel on page 16).  
  • Depending on the HDMI cable being used, 1080p output may not appear correctly. |
| No multichannel HDMI audio. | • Make sure that the HDMI Out (page 32) is set to Auto or LPCM (5.1CH) and that SACD Playback (page 34) is set to Multi-ch Area. See also About the HDMI audio output settings on page 38 and HDMI output with DVD-Audio and SACD sources on page 38. |
| A connected DVI component (with HDCP) doesn’t work with this player. | • 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.  
  • Make sure that the HDMI cable is firmly connected.  
  • Make sure that this unit’s HDMI Control (page 34) is set to On.  
  • 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.  
  • Note that HDMI Control may not operate properly if you do not use an HDMI cable that supports the HDMI 1.3 specification (Category 2) or later. |

**Note**

• Static electricity or other external influences may cause malfunctioning of this unit. In this case, unplug the power cord and then plug back in. This will usually reset the unit for proper operation. If this does not correct the problem, please consult your nearest Pioneer service center.
Glossary

Analog audio
Direct representation of sound by an electrical signal. See also Digital audio.

Aspect ratio
The width of a TV screen relative to its height. Conventional TVs are 4:3; widescreen models are 16:9.

Bonus Group (DVD-Audio only)
An extra group on some DVD-Audio discs that requires a key number to access.

Browsable pictures (DVD-Audio only)
A feature of some DVD-Audio discs in which the user can browse still pictures recorded on the disc as the audio is played.

Digital audio
Indirect representation of sound using numbers. See also Sampling frequency and Analog audio.

DivX
DivX is a media technology created by DivX, Inc. DivX media files contain not only video but also include advanced media features like menus, subtitles, and alternate audio tracks.

Dolby Digital
A multi-channel audio encoding system developed by Dolby Laboratories that enables far more audio to be stored on a disc than PCM encoding. See also PCM (Pulse Code Modulation).

DRM
DRM (digital rights management) copy protection is a technology designed to prevent unauthorized copying by restricting playback, etc. of compressed audio files on devices other than the PC or other recording equipment used to record it. For detailed information, please see the instruction manuals or help files that came with your PC and/or software.

DTS
DTS (Direct Stream Digital) is a multi-channel audio encoding system developed by Digital Theater Systems that enables high sampling rate stereo and multi-channel audio, as well as conventional CD audio all on the same disc.

DSD (Direct Stream Digital)
The Digital Audio encoding system found on SACDs, that expresses the audio signals by the pulse density of one bit data.

EXIF (Exchangeable Image File)
A file format developed by FUJIFILM for digital still cameras. Digital cameras from various manufacturers use this compressed file format which carries date, time and thumbnail information, as well as the picture data.

File extension
A tag added to the end of a filename to indicate the type of file. For example, "mp3" indicates an MP3 file.

HDMI
HDMI (High-Definition Multimedia Interface) is a high-speed digital interface which has the capability to support standard, enhanced, or high-definition video plus standard to multi-channel surround-sound audio on a single digital connection. HDMI features include uncompressed digital video, a bandwidth of up to 5 gigabytes per second and communication between the AV source and AV devices such as DTVs.

ISO 9660 format
International standard for the volume and file structure of CD-ROM discs.

JPEG
A standard file format used for still images. JPEG files are identified by the file extension "jpg".

MP3
MP3 (MPEG audio layer 3) is a compressed stereo audio file format. Files are recognized by their file extension "mp3". WMA is short for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation. Files are recognized by their file extension "wma".

WMV
WMV is an acronym for Windows Media Video and refers to a video compression technology developed by Microsoft Corporation. Files are recognized by the file extension "wmv".

MPEG audio
An audio format used on Video CDs and some DVD discs.

Packed PCM (DVD-Audio only)
A lossless compression system that enables more PCM audio to be stored on a DVD-Audio disc than would otherwise be possible.

PBC (Playback Control)
Digital audio encoding system found on CDs. Good quality, but requires a lot of data compared to Dolby Digital, DTS and MPEG encoded audio. See also Digital audio.

Progressive scan video
All the lines that make up a video picture are updated in one pass (compared to interlace which takes two passes to update the whole picture).

Regions (DVD-Video only)
These associate DVD-Video discs and players with particular areas of the world. See DVD-Video regions on page 41 for more information.

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. CD is 44.1 kHz; DVD can be up to 96 kHz. See also Digital audio.

Super Audio CD (SACD)
Super Audio CD is a high quality audio disc format that can accommodate high sampling rate stereo and multi-channel audio, as well as conventional CD audio all on the same disc.

WMA
WMA is short for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation. Files are recognized by their file extension "wma".

WMV
WMV is an acronym for Windows Media Video and refers to a video compression technology developed by Microsoft Corporation. Files are recognized by the file extension "wmv".
## Language code list

Language (Language code letter), Language code

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
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## Country/Area code list

Country/Area, Country/Area code, Country/Area code letter

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Specifications

General
- Power requirements: AC 120 V, 60 Hz
- Power consumption: 14 W
- Power consumption (standby): 0.5 W
- Weight: 5.3 kg (11 lb 11 oz)
- Dimensions: 420 mm (W) x 102 mm (H) x 314 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 (luminance) - Output level: 1 Vp-p (75 Ω)
- Pb (color) - Output level: 0.7 Vp-p (75 Ω)
- Pr (color) - Output level: 0.7 Vp-p (75 Ω)
- Jack: RCA

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

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

Audio output (multi-channel L, R, C, SW, SL, SR)
- Output level: 200 mVRms (1 kHz, –20 dB)
- Number of channels: 6
- Jacks: RCA

Audio output (1 stereo pair)
- Output level: 200 mVRms (1 kHz, –20 dB)
- Number of channels: 2
- Jacks: RCA

Audio characteristics
- Frequency response: 4 Hz to 44 kHz
- S/N ratio: 118 dB
- Dynamic range: 108 dB
- Total harmonic distortion: 0.0010 %
- Wow and flutter: Limit of measurement (±0.001 % W. PEAK) or lower

Digital output
- Coaxial digital output: RCA
- Optical digital output: Optical

Other terminals
- Control in: Minijack (3.5 ø)

Accessories
- Remote control: 1
- AA/R6P dry cell batteries: 2
- Audio cable: 1
- Video cable: 1
- Power cable: 1
- Warranty card: 1

Operating instructions
The specifications and design of this product are subject to change without notice, due to improvement.
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.

1-800-421-1404

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.