

Pioneer

DVD Player

DV-420V-S

DV-420V-K

DV-320-S

DV-320-K



HDMI

RW
COMPATIBLE

Operating Instructions

Thank you for buying this Pioneer product.

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

IMPORTANT



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

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

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



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

D3-4-2-1-1_A1_En

CAUTION

This product is a class 1 laser product, but this product contains a laser diode higher than Class 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel. The following caution label appears on your unit. Location: inside of the unit.

**CLASS 1
LASER PRODUCT**

CAUTION : CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
ATTENTION : RADIATION CLASSE LASER 1M: LORSQUE L'APPAREIL EST OUVERT NE REGARDEZ PAS VERS L'OUVERTURE. SURTOUT SI VOUS PORTEZ DES LUNETTES OU D'AUTRES TYPES DE CORRECTIFS OPTIQUES.
Vorsicht : KLASSE 1M LASER Strahlung: Bei geöffnetem Gerät nicht mit optischen Geräten in den Laserstrahl blicken.
PRECAUCIÓN : RADIACION LASER CLASE 1M. AL ABRIR NO MIRAR DIRECTAMENTE CON INSTRUMENTOS OPTICOS.
VIKTIGT : KLASS 1M LASER STRÅLNING: NÄR APPARATEN ÄR ÖPPEN, TITTA INTE RAKT IN I DEN, SPECIELLT INTE OM DU HAR GLASÖGON PÅ DIG.
Varoitus! Luokka 1M:n lasersäteily: Älä koskaan katso laitteen sisään sen ollessa auki-ei myöskään silmälasella tai muulla optisilla laitteilla!
ADVARSEL : LASERSTRÅLER KLASSE 1M KIG IKKE DIREKTE IND I APPARATET. NÄR DETTE ER AUKET IS/ER IKKE MED BRILLER ELLER ANDRE OPTISKE OBJEKTER

Singapore and Taiwanese model only

CAUTION : CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

警告: 當開啟的時候, 會有 1M 等級的雷射放射光, 請不要利用光學儀器直視。

780001A142 SH

D3-4-2-1-8*_C_En

WARNING

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

D3-4-2-1-3_B_En

WARNING

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

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

D3-4-2-1-4_A_En

WARNING

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

D3-4-2-1-7a_A_En

VENTILATION CAUTION

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

WARNING

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

D3-4-2-1-7b_A_En

Operating Environment

Operating environment temperature and humidity: +5 °C to +35 °C (+41 °F to +95 °F); less than 85 %RH (cooling vents not blocked)

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

D3-4-2-1-7c*_A1_En

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.

D8-10-1-2_A1_En

Information to User

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

D8-10-2_A1_En

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.

D8-10-3a_A1_En

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. **D6-8-2-1_En**

If the AC plug of this unit does not match the AC outlet you want to use, the plug must be removed and appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. If connected to an AC outlet, the cut-off plug can cause severe electrical shock. Make sure it is properly disposed of after removal. The equipment should be disconnected by removing the mains plug from the wall socket when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-1a_A_En


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

K041_En

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement. **5002*_En**

CAUTION

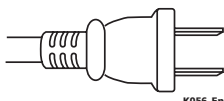
The  STANDBY/ON switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power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

D3-4-2-2-2a_A_En

For Austraria model

**For Taiwan exclusively**

Taiwanese two pin flat-bladed plug



K056_En

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Before you start

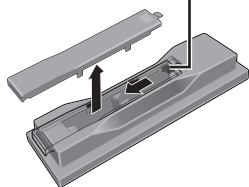
What's in the box

- Remote Control
- Audio/video cable
- Power cable (Central American, South American and Taiwanese model x2)
- AA batteries (R6) x 2
- Operating instructions (this document)
- Front panel button names sticker (Taiwanese model only) – Chinese language button names for the front panel controls.
- Remote control overlay (Taiwanese model only) – Place the overlay on the remote control to be able to read the buttons in Chinese

Loading the batteries in the remote control

1 Open the back cover.

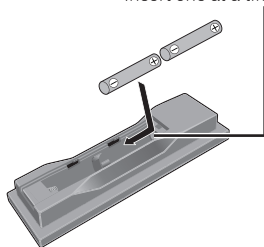
Press lightly on this part and slide into the direction of the arrow.



2 Insert the included batteries (two size AA batteries).

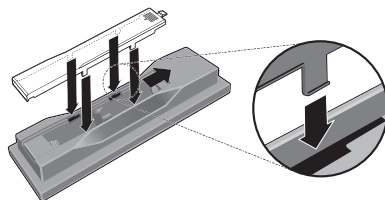
Insert the batteries in the proper direction, as indicated by the ⊕ and ⊖ marks inside the case.

Insert one at a time from the top.



3 Close the back cover.

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




Notes

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

Playable discs

DVD-Video	<ul style="list-style-type: none"> Commercially available DVD-Video discs DVD-R/-RW/-R DL and DVD+R/+RW/+R DL discs recorded in the Video mode and finalized
DVD VR	DVD-R/-RW/-R DL discs recorded in the VR mode
Video CD	Video CDs (including Super VCDs)
CD(R/RW)	<ul style="list-style-type: none"> Commercially available audio CDs CD-R/-RW/-ROM discs containing music recorded in the CD-DA format
JPEG	JPEG files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs or USB devices
DivX®	DivX video files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs or USB devices
WMV	WMV files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs or USB devices
WMA	WMA files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs or USB devices
MP3	MP3 files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs or USB devices
MPEG-4 AAC	MPEG-4 AAC files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs or USB devices
Fujicolor CD	
KODAK Picture CD	

- **DVD** is a trademark of DVD Format/Logo Licensing Corporation.
-  is a trademark of FUJIFILM Corporation.

RW

- **COMPATIBLE**

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



Notes

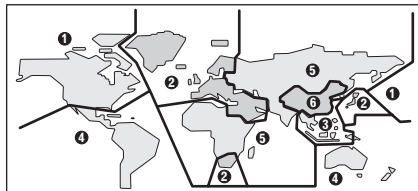
- This player does not support multisession discs or multiborder recording.
- Multisession/multiborder recording is a method in which data is recorded on a single disc in two or more sessions/borders. A "session" or "border" is one recording unit, consisting of a complete set of data from lead-in to lead-out.

Discs that cannot be played

- DVD-Audio discs
- DVD-RAM discs
- SACDs
- CD-G
- Blu-ray discs
- HD DVDs
- **Discs that have not been finalized**
- Discs recorded with packet writing

About region numbers

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.



Before you start


Regarding copy protected CDs

This player is designed to conform to the specifications of the audio CD format. This player does not support the playback or function of discs that do not conform to these specifications.

About playing DualDiscs

- A DualDisc is a new two-sided disc, one side of which contains DVD content — video, audio, etc. — while the other side contains non-DVD content such as digital audio material.
- The DVD side of a DualDisc can be played on this player (excluding any DVD-Audio content).
- The non-DVD, audio side of the disc is not compatible with this player.
- It is possible that when loading or ejecting a DualDisc, the opposite side to that being played will be scratched. Scratched discs may not be playable.
- For more detailed information on the DualDisc specification, please refer to the disc manufacturer or disc retailer.

Playing discs created on computers or BD/DVD recorders

- It may not be possible to play discs recorded using a computer due to the application settings or computer's environment settings. Record discs in a format playable on this player. For details, contact the dealer.
- It may not be possible to play discs recorded using a computer or a BD/DVD recorder, if burn quality is not good due to characteristics of the disc, scratches, dirt on the disc, dirt on the recorder's lens, etc. 

Playable files

- Only discs recorded in ISO9660 Level 1, Level 2 and Joliet can be played.

- Files protected by DRM (Digital Rights Management) cannot be played.

Supported video file formats

Windows Media™ Video (WMV)

- Resolution: Up to 720 x 480/720 x 576 pixels
- This player supports files encoded using Windows Media Player 9 Series.
- This player does not support Advanced Profile.
- Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from Microsoft Licensing, Inc.

DivX

- DivX is a media technology created by DivX, Inc. DivX media files contain image data.
- DivX files may also include such advanced playback functions as menu screens and selection of multiple subtitle languages/audio tracks.



- Plays DivX® video, including premium content
- DivX® is a registered trademark of DivX, Inc., and is used under license.

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* on page 31 to match the subtitle file.
- This player supports the following language groups:

Before you start

Group 1	Afrikaans (af), 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-Romanic (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.

Supported image file formats

JPEG

- Resolution: Up to 3 072 x 2 048 pixels
- This player supports baseline JPEG.
- This player supports Exif Ver.2.2.
- This player supports JPEG HD. Images are output with a high resolution of 720p or 1 080i (DV-420V only).
- This player does not support progressive JPEG.

Supported audio file formats

- This player does not support VBR (Variable Bit Rate).
- This player does not support lossless encoding.

Windows Media Audio (WMA)

- Sampling frequencies: 32 kHz, 44.1 kHz and 48 kHz
- Bit rate: Up to 192 kbps
- This player supports files encoded using Windows Media Player Ver. 7/7.1, Windows Media Player for Windows XP and Windows Media Player 9 Series.

MPEG-1 Audio Layer 3 (MP3)

- Sampling frequencies: 32 kHz, 44.1 kHz and 48 kHz

MPEG-4 Advanced Audio Coding (MPEG-4 AAC)

- Sampling frequencies: 44.1 kHz and 48 kHz
- This player supports files encoded using iTunes.
- Depending on the version of iTunes used for encoding, it may not be possible to play some files.
- Apple and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.

Playable file extensions

Video files

.divx .avi .wmv

- Files not containing DivX video signals cannot be played, even if they have the extension ".avi".

Image files

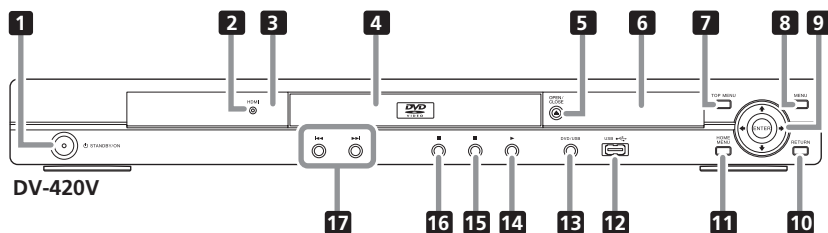
.jpg .jpeg

Audio files

.wma .mp3 .m4a

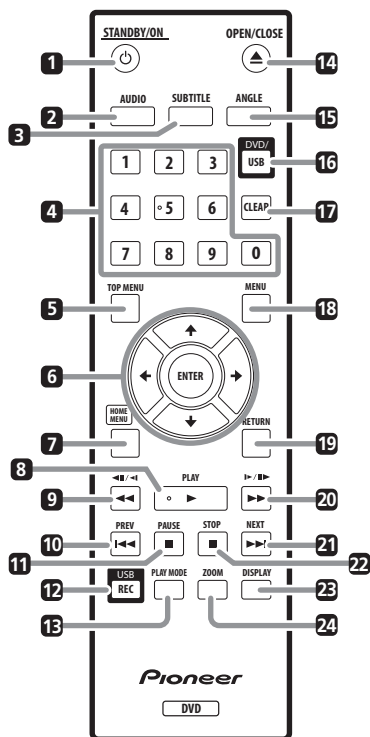
Part Names and Functions

Front Panel



- 1** **STANDBY/ON** (page 16)
- 2** **HDMI** (page 12) (DV-420V only)
This lights when the device connected to the HDMI terminal is recognized.
- 3** **Remote control sensor**
Point the remote control to this, then operate it within a distance of approximately 7 m.
- Reception of remote control signals may be poor when exposed to direct sunlight or strong artificial light from a fluorescent bulb, etc.
- 4** **Disc tray**
- 5** **OPEN/CLOSE** (page 16)
- 6** **Front panel display** (page 11)
- 7** **TOP MENU**
Press to display the top menu of the DVD-Video.
- 8** **MENU**
Press to display the menu screen or Disc Navigator.
- 9** **↑/↓/←/→**
Use these to select items, change settings and move the cursor.
ENTER
Use this to implement the selected item or enter a setting that you have changed.
- 10** **RETURN**
Press to return to the previous screen.
- 11** **HOME MENU**
Press to display/hide the Home Menu.
- 12** **USB port (type A)** (page 21)
- 13** **DVD/USB** (page 21)
- 14** (page 16)
- 15** (page 16)
- 16** (page 16)
- 17** (page 18)

Remote control



1 **⏻ STANDBY/ON (page 16)**

2 **AUDIO (page 18)**

3 **SUBTITLE (page 19)**

4 **Number buttons (0 to 9)**

Use these to specify and play the title, chapter, track or file you want to view/listen to. Also use them to select items on menu screens, etc.

5 **TOP MENU**

Press to display the top menu of the DVD-Video.

6 **↑/↓/←/→**

Use these to select items, change settings and move the cursor.

ENTER

Use this to implement the selected item or enter a setting that you have changed.

7 **HOME MENU**

Press to display/hide the Home Menu.

8 **▶ PLAY (page 16)**

9 **◀◀/◀||/▶ (page 17)**

10 **◀◀◀ PREV (page 18)**

11 **⏸ PAUSE (page 16)**

12 **USB REC (page 21)**

13 **PLAY MODE (page 23)**

14 **⏏ OPEN/CLOSE (page 16)**

15 **ANGLE (page 19)**

16 **DVD/USB (page 21)**

17 **CLEAR**

Press to clear the selected item. Use this for example if you input the wrong number.

18 **MENU**

Press to display the menu screen or Disc Navigator.

19 **RETURN**

Press to return to the previous screen.

20 **▶▶/▶||▶ (page 17)**

21 **▶▶▶ NEXT (page 18)**

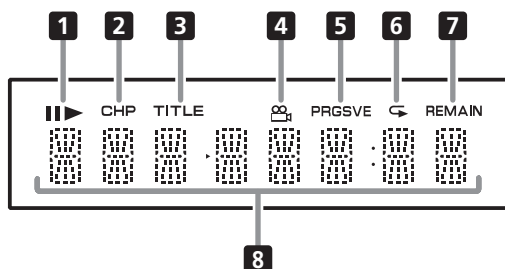
22 **■ STOP (page 16)**




23 **DISPLAY (page 20)**

24 **ZOOM (page 19) □**

Part Names and Functions

Front Panel Display



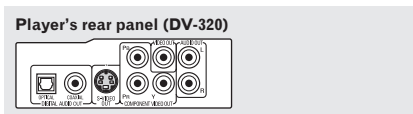
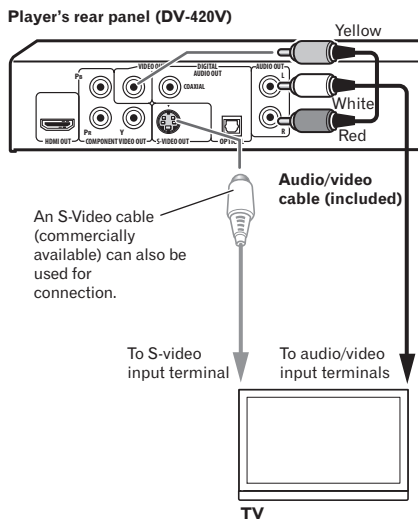
- 1** **||**
Lights when playback is paused.
▶
Lights during playback.
- 2** **CHP**
Lights when the chapter number is displayed.
- 3** **TITLE**
Lights when the title number is displayed.
- 4**  **(page 19)**
Lights when switched to a different angle (DVD-Video only).
- 5** **PRGSVE (page 30)**
Lights when **Component Out** is set to **Progressive**.
- 6**  **(page 23)**
Lights when in the Repeat Play mode.
- 7** **REMAIN**
Lights when the remaining time of the currently playing title, chapter or track is displayed.
- 8** **Counter display**
Displays the title, chapter, track or file number, the elapsed time, etc. .

- Be sure to turn off the power and unplug the power cord from the power outlet whenever making or changing connections.
- Connect the power cord after all the connections between devices have been completed.
- **Connect the player's video output directly to the TV.**

This player supports analog copy protection technology. Therefore the picture may not be displayed properly if connected to a TV via a DVD recorder/video deck or when playing the player's output material that is recorded by a DVD recorder/video deck. Furthermore, the picture may not be displayed properly due to the copy protection when the player is connected to a TV with a built-in video deck. For details, contact the manufacturer of your TV.



Connecting using an audio/video cable



Connecting using an HDMI cable (DV-420V only)

By using an HDMI cable, digital signals can be transferred to an HDMI-compatible TV on a single cable with no loss of picture or sound quality. After connecting, make the player's resolution and HDMI color settings according to the HDMI-compatible TV. Also refer to the HDMI-compatible TV's operating instructions.

HDMI[™]
HIGH-DEFINITION MULTIMEDIA INTERFACE

Connections

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

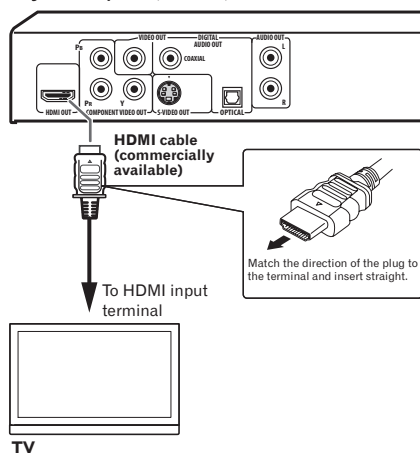


Notes

- This player's interface is designed based on the High-Definition Multimedia Interface specification.
- When an HDMI-compatible device is connected, the resolution is displayed on the front panel display.
- The resolution of the video signals output from the player's **HDMI OUT** terminal is changed manually. Change the **HDMI Resolution** setting (page 30). Settings for two units can be stored in the memory.
- This player is designed for connection to HDMI-compatible devices. It may not operate properly if connected to DVI devices.

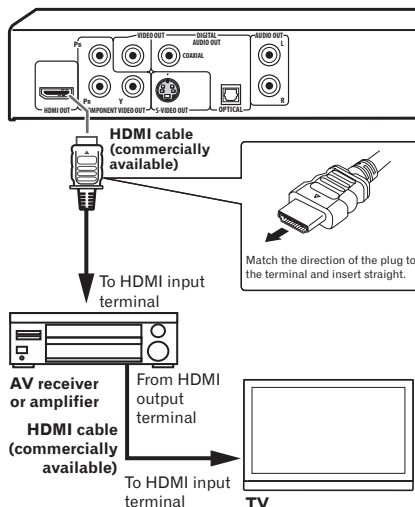
Connecting to a TV

Player's rear panel (DV-420V)



Connecting to an AV receiver or amplifier

Player's rear panel (DV-420V)



About video/audio signals output from the HDMI OUT terminal

Video signals (resolution of) that can be output from the player's HDMI OUT terminal

- 720 x 480/720 x 576 pixel progressive or interlaced video
- 1 280 x 720 pixel progressive video
- 1 920 x 1 080 pixel progressive or interlaced video

Audio signals that can be output from the player's HDMI OUT terminal

- 44.1 kHz to 96 kHz, 16-bit/20-bit/24-bit 2-channel linear PCM audio (including 2-channel downmixing)
- Dolby Digital 5.1-channel audio
- DTS 5.1-channel audio
- MPEG audio



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



- Manufactured under license under U.S. Patent #: 5,451,942 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Out are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.

About KURO LINK function

- The functions listed below can be used when a Pioneer KURO LINK compatible Flat Screen TV and AV system (AV receiver or amplifier, etc.) is connected to the player using an HDMI cable.
- Refer to the operating instructions of the Flat Screen TV, etc.

To use the KURO LINK function

- The KURO LINK function operates when KURO LINK is set to On for all devices connected to the **HDMI OUT** terminal.
- Once connections and the settings of all the devices are finished, be sure to check that the player's picture is output to the Flat Screen TV. (Also check after changing the connected devices and reconnecting HDMI cables.) The KURO LINK function may not operate properly if the player's picture is not properly output to the Flat Screen TV.

- Use High Speed HDMI™ cables when using the KURO LINK function. The KURO LINK function may not operate properly if other HDMI cables are used.
- For some models, the KURO LINK function may be referred to as "HDMI Control".
- The KURO LINK function does not work with devices of other brands, even if connected using an HDMI cable.

What the KURO LINK function can do

Operating the player with the Flat Screen TV's remote control.

- Such player operations as starting and stopping playback and displaying the menus can be performed from the Flat Screen TV. For details on the functions that can be operated, see the Flat Screen TV's operating instructions.

The player's playback picture is displayed on the Flat Screen TV's screen. (Auto-select function)

- The input switches automatically on the Flat Screen TV and AV system (AV receiver or amplifier, etc.) when playback is started on the player or the Home Menu or the Disc Navigator is displayed. When the input is switched, the playback picture, the Home Menu or the Disc Navigator appears on the Flat Screen TV.

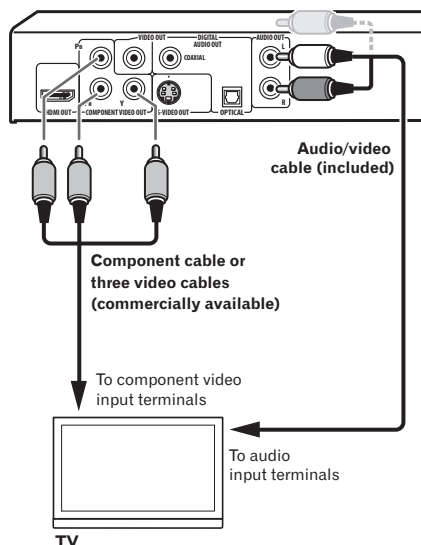
The power of the Flat Screen TV turns on automatically. (Simultaneous power function)

- When playback on the player is started or the Home Menu or Disc Navigator is displayed, if the Flat Screen TV's power is off, its power turns on automatically.

Connections

Connecting using a component video cable

Player's rear panel (DV-420V)



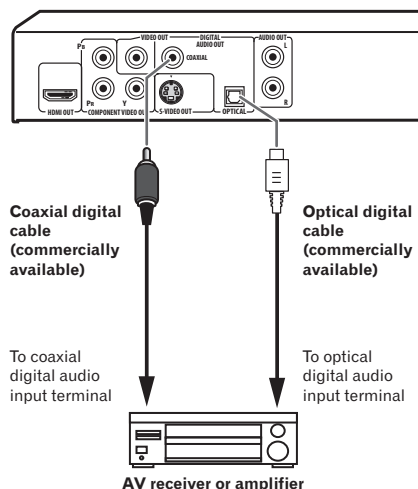
Player's rear panel (DV-320)



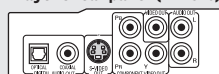
Connecting using a digital audio cable

- Connect an AV receiver or amplifier, etc., compatible with Dolby Digital or DTS audio to one of the **DIGITAL AUDIO OUT (COAXIAL/OPTICAL)** terminals.
- For instructions on connecting the AV receiver or amplifier to the TV and speakers, refer to the AV receiver or amplifier's operating instructions.

Player's rear panel (DV-420V)



Player's rear panel (DV-320)



Playing discs or files

- Before starting, turn the TV's power on and switch the TV's input.
- The player's screen display language can be changed (*OSD Language* on page 31).

1 Turn the power on.

Press  **STANDBY/ON**.

2 Open the disc tray and load the disc.




Press  **OPEN/CLOSE**.

Set the disc with the printed side facing up.



3 Starts playback.

Press  **PLAY**.

- To pause, press  **PAUSE** during playback.
- To stop, press  **STOP** during playback.
- To turn the power off, press  **STANDBY/ON**.



Notes

- Some discs start playing automatically when they are loaded.
- For some discs, black bars may be displayed along the top and bottom of the TV screen.

If the menu screen appears

For some discs, the menu screen appears automatically when playback starts. The contents of the menu screen and how the screen is operated differ from disc to disc.

Playback

























Various playback functions



It may not be possible to use some of these functions, depending on the type of disc or file.

Starting playback from where it was stopped (Resume Play)	DVD-Video DVD VR Video CD CD(R/RW) DivX® WMV	<ul style="list-style-type: none"> When ■ STOP is pressed during playback, the point at which playback was stopped is stored in the memory. When ▶ PLAY is pressed, playback resumes from the point at which it was stopped. To cancel the resume play, press ■ STOP while playback is stopped. Resume Play may not possible for certain discs.
Storing the stop point for ejected discs (Last Memory)	DVD-Video Video CD	<ul style="list-style-type: none"> The player stores the point at which ejected DVD-Video discs (for up to five discs) and Video CDs (for one disc) were stopped. When the disc is reloaded and ▶ PLAY is pressed, playback starts from the point at which the disc was stopped before it was ejected. To cancel the last memory setting, press ■ STOP while playback is stopped. If you do not want the player to store the point at which playback was stopped, press ▲ OPEN/CLOSE during playback to eject the disc. For some discs, the point at which playback was stopped cannot be stored. When the limit for the number of discs for which the stop point can be stored is exceeded, the older settings are overwritten.
Forward and reverse scanning	DVD-Video DVD VR Video CD CD(R/RW) DivX® WMV WMA MP3 MPEG-4 AAC	<ul style="list-style-type: none"> During playback, press ◀◀/◀ /▶ /▶▶. The speed changes each time the button is pressed. The speed steps differ according to the disc or file. With DVD-Video and DVD VR discs, when ▶▶/ /▶▶ is pressed once during playback, the picture and sound are played at about 1.4 times the regular speed. Note that the sound may not be output or may be broken. To resume normal playback, press ▶ PLAY.
Frame-by-frame forward/ frame-by-frame reverse play	DVD-Video DVD VR Video CD DivX® WMV	<ul style="list-style-type: none"> While playback is paused, press ◀◀/◀ /▶ /▶▶. The picture moves a frame forward or backward each time the button is pressed. To resume normal playback, press ▶ PLAY. No sound is produced during frame-by-frame forward/reverse play. The picture may shake during frame-by-frame reverse play. Frame-by-frame reverse play is not possible for Video CDs and video files.

<p>Playing in slow motion</p>	<p>DVD-Video DVD VR Video CD DivX® WMV</p>	<ul style="list-style-type: none"> While playback is paused, press and hold in ◀◀/◀◀ or ▶▶/▶▶/ . Press and hold the button until Slow is displayed on the TV screen. The speed changes each time the button is pressed. The speed steps differ according to the disc or file. To resume normal playback, press ▶ PLAY. No sound is output during slow motion playback. Reverse playback in slow motion is not possible for Video CDs and video files.
<p>Skipping content</p>	<p>DVD-Video DVD VR Video CD CD(R/RW) DivX® WMV WMA MP3 MPEG-4 AAC</p>	<ul style="list-style-type: none"> During playback, press ◀◀ PREV or ▶▶ NEXT. When ▶▶ NEXT is pressed, playback skips ahead to the beginning of the next title, chapter, track or file. When ◀◀ PREV is pressed, playback skips back to the beginning of the currently playing title, chapter, track or file. When pressed twice, playback skips back to the previous title, chapter, track or file. It is not possible to return to previous titles, chapters, groups, tracks or files during random play. Operation is different during PBC playback of Video CDs. Check the disc's jacket, etc.
<p>Playing specific titles, chapters or tracks</p>	<p>DVD-Video DVD VR Video CD CD(R/RW)</p>	<ul style="list-style-type: none"> Use the number buttons (0 to 9) to input the number of the title, chapter or track you want to play, then press ENTER. Playback starts automatically 2 seconds after the number is input. For DVD-Video chapter searching, only chapters within the currently playing title can be specified.
<p>Switching the audio stream/channel</p>	<p>DVD-Video DVD VR Video CD CD(R/RW) DivX®</p>	<ul style="list-style-type: none"> For discs or files including multiple audio streams/channels, the audio stream/channel can be switched during playback. During playback, press AUDIO. The audio stream/channel switches each time the button is pressed. The types of audio streams/channels depend on the disc or file. For some DVD-Videos, the audio stream/channel is switched using a menu screen. The picture may stop momentarily when the audio stream/channel is switched. If the Resume Play or Last Memory setting has been canceled, the Audio Language setting is restored (page 31).

Playback

Switching the subtitle	 	<ul style="list-style-type: none"> On DVD-Video or DivX discs containing subtitles in multiple languages, the subtitle can be switched during playback. During playback, press SUBTITLE. The subtitle switches each time the button is pressed. The recorded subtitles depend on the disc or file. —/— is displayed if the disc or file does not contain any subtitles. For some DVD-Videos, the subtitle is switched using a menu screen. If the Resume Play or Last Memory setting has been canceled, the Subtitle Language setting is restored (page 31).
Changing the angle (Multi-Angle)		<ul style="list-style-type: none"> On DVD-Video discs containing multiple angles, the angle can be switched during playback. During playback, press ANGLE. For some DVD-Videos, the angle is switched using a menu screen. The  mark appears on the TV screen at scenes for which there are multiple angles. If you do not want the  mark to be displayed, set Angle Indicator to Off (page 31).
Zooming on the image	     	<ul style="list-style-type: none"> Press ZOOM. The zoomed area is displayed. Use /// to move the zoom area. The magnification (2x → 4x → normal) changes each time the button is pressed. When playing slideshows of JPEG files, the zoomed area is not displayed. When a JPEG file is zoomed, normal slideshow playback can be resumed by pressing ▶ PLAY.
Rotating (inverting) the image		<ul style="list-style-type: none"> When playing a slideshow, press one of ///. When  is pressed, the image is inverted vertically. When  is pressed, the image is inverted horizontally. When  is pressed, the image is rotated 90° counter-clockwise. When  is pressed, the image is rotated 90° clockwise. To return to the normal slideshow, press ▶ PLAY.

Viewing the disc's or file's information		<ul style="list-style-type: none"> • During playback, press DISPLAY. • The elapsed time, amount remaining, etc., is displayed. • For some discs and files, the contents displayed switch each time the button is pressed. • To turn the information off, press DISPLAY again until it turns off. • Some information is not displayed during PBC playback of Video CDs. To display such information, cancel PBC playback (see below). • If On Screen Display is set to Off, no information is displayed when DISPLAY is pressed (page 31).
Playing Video CDs from their menu screen (PBC playback)		<ul style="list-style-type: none"> • Playing Video CDs using their menu screens is called PBC (playback control) playback. The contents displayed and operations differ from disc to disc. Also refer to the operating guide included with the disc. • To display the menu screen, load a PBC playback-compatible disc then press ► PLAY. • To start PBC playback, use the number buttons (0 to 9) while the menu screen is displayed to select the track, then press ENTER. • To return to the menu screen, press RETURN during playback. • To switch pages, press ◀◀ PREV or ▶▶ NEXT. • To play the disc without displaying the menu screen (with PBC off), use the number buttons (0 to 9) while playback is stopped to select the track, then press ENTER (or select the track using ◀◀ PREV and ▶▶ NEXT while playback is stopped).



Playback

Playing files stored on USB devices

- The player may not recognize the USB device, may not play files or may not supply power to the USB device. For details, see *When a USB device is connected* on page 40.
- Pioneer does not support that all files recorded on all USB devices will play or that power will be supplied to the USB device. Also note that Pioneer will accept no responsibility whatsoever for loss of files on USB devices caused by connection to this player.

1 Turn the power on.

Press **STANDBY/ON**.

2 Switching the input to the USB mode.

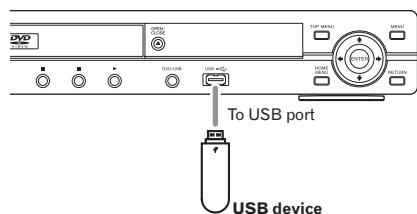
Press **DVD/USB**.

USB MODE is displayed on the front panel display.

3 Connecting USB devices.

The Disc Navigator appears automatically.

Player's front panel



4 Starts playback.

Use **↑/↓/←/→** to select the file, then press **ENTER**.

- Turn the power off before removing the USB device.
- The input will remain in the USB mode the next time the power is turned on. To return to the DVD mode, press **DVD/USB** (or press **▲ OPEN/CLOSE** to open the disc tray). **□**

Recording audio CD tracks on USB devices

- The tracks of audio CDs loaded in the player can be recorded on a USB device connected to the USB port.
- It may not be possible to record tracks of audio CDs on a USB device. For details, see *When a USB device is connected* on page 40.

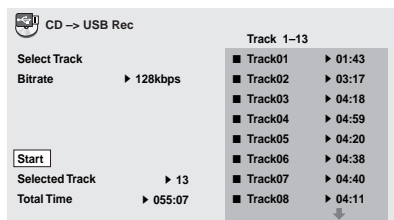
Recording all the tracks

1 Load the audio CD.

- If playback starts automatically, press **■ STOP** to stop playback.

2 Display the CD -> USB Rec screen.

Press **USB REC**.



3 Start recording.

Use **↑/↓/←/→** to select **Start**, then press **ENTER**.

Selecting the track(s) to be recorded

1 Load the audio CD.

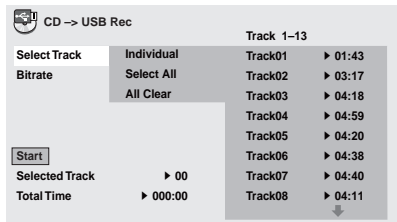
- If playback starts automatically, press **■ STOP** to stop playback.

2 Display the Home Menu.

Press **HOME MENU**.

3 Select CD -> USB Rec.

Use **↑/↓/←/→** to select, then press **ENTER**.



4 Select Select Track → Individual → the track(s) you want to record.

Use **↑/↓/←/→** to select.

- **Individual:** Select 1 track at a time.
- **Select All:** Select all the tracks.
- **All Clear:** Deselect all the tracks.

5 Select Bitrate (transfer rate).

Use **↑/↓/←/→** to select, then press **ENTER**.

- Select **128kbps**, **192kbps** or **320kbps**.

6 Start recording.

Use **↑/↓/←/→** to select **Start**, then press **ENTER**.



Notes

- **CD -> USB Rec** can only be selected when the audio CD is stopped.
- When recording is completed, a folder named "PIONEER" is automatically created on the USB device. The recorded tracks are stored in this folder. □

Playing using the Disc Navigator

Playing discs

DVD-Video **DVD VR** **Video CD**

1 Display the Home Menu.

Press **HOME MENU**.

2 Select Disc Navigator.

Use **↑/↓/←/→** to select, then press **ENTER**.

3 Select the type of Disc Navigator.

Use **↑/↓** to select, then press **ENTER**.

- The Disc Navigator is displayed.
- The contents displayed on the Disc Navigator differ from disc to disc.

4 Playing specific titles, chapters or tracks.

Use **↑/↓/←/→** to select, then press **ENTER**.

- To switch pages, press **◀◀ PREV** or **▶▶ NEXT**.
- Press **RETURN** to return to the previous screen.
- Press **HOME MENU** to exit the Disc Navigator.



Notes

- The Disc Navigator cannot be displayed for some DVD-Video discs.
- The Disc Navigator cannot be displayed during PBC playback of Video CDs. To display such information, cancel PBC playback (page 20).

Playing files

DivX® **WMV** **WMA** **MP3**
MPEG-4 AAC **JPEG**

1 Display the Home Menu.

Press **HOME MENU**.

2 Select Disc Navigator.

Use **↑/↓/←/→** to select, then press **ENTER**.

3 Select the folder.

Use **↑/↓** to select, then press **ENTER**.

4 Select and play the file.

Use **↑/↓** to select, then press **ENTER**.

- When JPEG files are played, the files switch automatically (slideshow playback).

Playback

- Press **←** to return to the previous screen. (It is also possible to return to the previous screen by selecting **⏮** then pressing **ENTER**.)
- Press **HOME MENU** to exit the Disc Navigator.



Note

When a disc contains both audio files and JPEG files, they can be played simultaneously. To do so, first select the audio file, then select the JPEG file.

Playing using the Play Mode function

The Play Mode function may not work for some discs or files.

- **Display the Play Mode screen.**
During playback, press **PLAY MODE**.
 - It is also possible to display the Home Menu by selecting **Play Mode** from the home menu then pressing **ENTER**.
 - The Play Mode screen cannot be displayed during PBC playback of Video CDs. In this case, cancel PBC playback (page 20).

Playing a specific section repeatedly (A-B Repeat Play)

DVD-Video **DVD VR** **Video CD** **CD(R/RW)**

The specified section within a single title or track is played repeatedly.

- 1 Display the Play Mode screen.**
During playback, press **PLAY MODE**.
- 2 Select A-B Repeat.**
Use **↑/↓** to select, then press **ENTER** or **→**.

3 Select the point at which you want to start A-B play.

Use **↑/↓** to select **A (Start Point)**, then press **ENTER**.

4 Select the point at which you want to stop A-B Repeat play.

Use **↑/↓** to select **B (End Point)**, then press **ENTER**.

A-B repeat play starts.

- To cancel A-B repeat play, select **Off**, then press **ENTER**.

Playing repeatedly (Repeat Play)

DVD-Video **DVD VR** **Video CD** **CD(R/RW)**
DivX® **WMV**

- 1 Display the Play Mode screen.**
During playback, press **PLAY MODE**.
- 2 Select Repeat.**
Use **↑/↓** to select, then press **ENTER** or **→**.
- 3 Select the type of Repeat play.**
Use **↑/↓** to select, then press **ENTER** or **→**. Repeat play starts.
 - To cancel repeat play, select **Repeat Off**, then press **ENTER**. (Repeat play is canceled automatically when playback is stopped.)
 - The types of repeat play available depend on the disc and file.

Playing in random order (Random Play)

DVD-Video **Video CD** **CD(R/RW)**

- 1 Display the Play Mode screen.**
Press **PLAY MODE**.
- 2 Select Random.**
Use **↑/↓** to select, then press **ENTER** or **→**.

3 Select the type of Random play.

Use **↑/↓** to select, then press **ENTER** or **→**.

Random play starts.

- To cancel random play, select **Random Off**, then press **ENTER**. (Random play is canceled automatically when playback is stopped.)
- The types of random play available depend on the disc and file.



Note

The same title, chapter or track may be played twice during random play.

Playing in the desired order (Programmed Play)

DVD-Video Video CD CD(R/RW) DivX®
WMV WMA MP3 MPEG-4 AAC

1 Display the Play Mode screen.

Press **PLAY MODE**.

2 Select Program.

Use **↑/↓** to select, then press **ENTER** or **→**.

3 Select Create/Edit.

Use **↑/↓** to select, then press **ENTER**.

- The Create/Edit screen differs according to the disc or file.

4 Select the title, chapter, track or file to be played.

Use **↑/↓/←/→** to select, then press **ENTER**.

- To add to a program, first select the place in the program (the program step), next select the title, chapter or track, then press **ENTER** (files are added at the end of program).
- Press **RETURN** to return to the previous screen. If you return to the previous screen when inputting it, the settings you have programmed are cleared.
- To delete a step, highlight it and press **CLEAR**.

5 Starts playback.

Press **▶ PLAY**.

- To play a program that has already been set, select **Playback Start** from the program screen, then press **ENTER**.
- To resume normal playback, select **Playback Stop** from the program screen, then press **ENTER**. The program remains in the memory.
- To cancel the entire program, select **Program Delete** from the program screen, then press **ENTER**.



Notes

- Programs can be played repeatedly. During programmed play, select **Program Repeat** from **Repeat** on the Play Mode screen (page 23).
- Programs cannot be played in random order (random play is not possible during programmed play).

Playing by specifying a number or time (Search Mode)

DVD-Video DVD VR Video CD CD(R/RW)
DivX® WMV

This function allows you to specify the title, chapter or track number or time to be played.

1 Display the Play Mode screen.

Press **PLAY MODE**.

2 Select Search Mode.

Use **↑/↓** to select, then press **ENTER** or **→**.

3 Select the type of Search Mode.

Use **↑/↓** to select, then press **ENTER**.

- The types of search mode available depend on the disc and file.

4 Input the number of the title, chapter or track or the time you want to play.

Use the **number buttons (0 to 9)** to input, then press **ENTER**. (For example, to specify 1 hour and 4 minutes (64 minutes), input **6, 4, 0** and **0**.)

Playback starts.

Playback



Notes

- For some DVD-Videos, the number or time can be specified using a menu screen.
- For video files, only the time can be specified (only **Time Search** (time searching) is possible).
- Time searching (**Time Search**) is not possible on DVD+R/+RW discs.

Adjusting the audio

1 Display the Home Menu.

Press **HOME MENU**.

2 Select Audio Settings.

Use **↑/↓/←/→** to select, then press **ENTER**.

3 Change the settings.

Use **↑/↓/←/→** to select, then press **ENTER**.

- Press **RETURN** to return to the previous screen.

4 Enter the changes.

Press **HOME MENU**.

The changed settings are stored in the memory.



Notes

- The effect may be weak for some discs or files.
- These settings also affect the sound output from the **DIGITAL AUDIO OUT (COAXIAL/OPTICAL)** terminals and the **HDMI OUT** terminal (DV-420V only).
Note that there is no effect when Dolby Digital, DTS or MPEG audio signals are being output.

Audio Settings parameters

Parameters (settings)	
Sound Retriever (High/Low/Off)	<ul style="list-style-type: none"> • WMA, MP3 and MPEG-4 AAC audio is played with high sound quality. This is only valid for files with the extension '.wma', '.mp3' or '.m4a'. • The effect depends on the file. Try different settings, and choose the one providing the good effect.
Equalizer (Off/Rock/Pop/Live/Dance/Techno/Classic/Soft)	Select according to the genre of music to be listened to.
Virtual Surround (On/Off)	<ul style="list-style-type: none"> • A surround sound field with a sense of presence can be created with two speakers. • When set to On, linear PCM audio signals of 96 kHz or greater are converted to 48 kHz.
Audio DRC (High/Medium/Low/Off)	<ul style="list-style-type: none"> • This makes loud sounds weaker and weak sounds louder. Change the setting for example when watching movies late at night. • This setting only affects Dolby Digital sound. • The effect depends on the volume of the connected TV, AV receiver or amplifier, speakers, etc. Try different settings, and choose the one providing the strongest effect.
Dialog (High/Medium/Low/Off)	Change this setting if the sound of dialogs is low and the dialogs are hard to hear.

The factory default settings are indicated in *italic*.

About Sound Retriever function

- When audio data is removed during the compression process, sound quality often degrades. The Sound Retriever function automatically enhances compressed audio and restores CD quality sound.

Adjusting the picture quality

1 Display the Home Menu.

Press **HOME MENU**.

2 Select Video Adjust.

Use **↑/↓/←/→** to select, then press **ENTER**.

3 Change the settings.

Use **↑/↓/←/→** to select, then press **ENTER**.

- Press **RETURN** to return to the previous screen.

4 Enter the changes.

Press **HOME MENU**.

The changed settings are stored in the memory.



Notes

- The effect depends on the connected TV, the disc or the file.
- The settings affect the video signals output from the **HDMI OUT** terminal (DV-420V only).

Video Adjust parameters

Parameters (settings)	
Sharpness (<i>Fine/Standard/Soft</i>)	Adjusts the picture's sharpness.
Brightness (-20 to +20)	Adjusts the picture's brightness.
Contrast (-16 to +16)	Adjusts the ratio of the brightness of the brightest and darkest portions of the picture.
Gamma (-3 to +3)	Adjusts the look of the dark portions of the picture.
Hue (green 9 to red 9)	Adjusts the balance between green and red.
Chroma Level (-9 to +9)	Adjusts the density of the colors. This setting is effective for sources with many colors, such as cartoons.

- The factory default settings are indicated in *italic*.
- **Brightness**, **Contrast**, **Gamma**, **Hue** and **Chroma Level** are set to **0** upon purchase.



Changing the Settings (Initial Settings)

Operating the Initial Settings menu

Initial Settings cannot be selected during playback. Stop the disc first.

1 Display the Home Menu.

Press **HOME MENU**.

2 Select Initial Settings.

Use **↑/↓/←/→** to select, then press **ENTER**.

3 Select the item and change the setting.

Use **↑/↓/←/→** to select, then press **ENTER**.



Notes

- **HDMI Out, HDMI Resolution** and **HDMI Color** can only be set when the player is connected to an HDMI-compatible device using an HDMI cable (DV-420V only).
- **Digital Audio Out** and **Component Out** cannot be set when the player is connected to an HDMI-compatible device using an HDMI cable (DV-420V only).

Setting the Component Out and HDMI Resolution settings back to their defaults

1 Turn the player's power off.

Press **⏻ STANDBY/ON**.

2 Press **⏻ STANDBY/ON** while pressing **⏪**.

Use the buttons on the player's front panel. The power turns on.

Restoring all the settings to the defaults

1 Turn the player's power off.

Press **⏻ STANDBY/ON**.

2 Press **⏻ STANDBY/ON** while pressing **■**.

Use the buttons on the player's front panel.

Digital Audio Out settings

Options settings	Settings	
HDMI Out (DV-420V only)	LPCM (2CH)	Multichannel audio signals are converted to 2-channel linear PCM audio signals for output. This can be selected when the connected HDMI-compatible device does not support multichannel audio.
	Auto	Audio signals supported by the connected HDMI-compatible device (Dolby Digital, DTS, MPEG and linear PCM) are output. Audio signals not supported by the connected HDMI-compatible device are converted to linear PCM for output.
	Off	No audio signals are output from the HDMI OUT terminal.
<ul style="list-style-type: none"> The settings can only be changed when the player and HDMI-compatible device are connected using an HDMI cable. If the connected HDMI-compatible device is not compatible with DTS audio, the DTS audio signals are not output (the DTS audio signals are not converted to linear PCM signals for output). 		
Digital Out	On	Audio signals are output from the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) terminals.
	Off	No audio signals are output from the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) terminal.
When Digital Out is set to Off , the audio signals output from the HDMI OUT terminal are converted to linear PCM (DV-420V only).		
Dolby Digital Out	Dolby Digital	Dolby Digital audio signals are output. Select this when the connected AV receiver or amplifier supports Dolby Digital audio.
	Dolby Digital > PCM	Dolby Digital audio signals are converted to linear PCM audio signals for output. Select this when the connected AV receiver or amplifier does not support Dolby Digital audio.
DTS Out	DTS	DTS audio signals are output. Select this when the connected AV receiver or amplifier supports DTS audio.
	Off	DTS audio signals are not output. Select this when the connected AV receiver or amplifier does not support DTS audio.
When the connected AV receiver or amplifier does not support DTS audio, set Off . Noise may be generated if DTS is set.		
96 kHz PCM Out	96kHz > 48kHz	96 kHz audio signals are converted to 48 kHz/44.1 kHz audio signals for output. Select this when the connected AV receiver or amplifier does not support 96 kHz audio.
	96kHz	96 kHz audio signals are output. Select this when the connected AV receiver or amplifier supports 96 kHz audio.
MPEG Out	MPEG	MPEG audio signals are output. Select this when the connected AV receiver or amplifier supports MPEG audio.
	MPEG > PCM	MPEG audio signals are converted to linear PCM audio signals for output. Select this when the connected AV receiver or amplifier does not support MPEG audio.

The factory default settings are indicated in *italic*.

Changing the Settings (Initial Settings)











About the HDMI Out setting and the type of audio signal that is output (DV-420V only)

Audio format		HDMI Out settings	
		LPCM (2CH)	Auto
DVD-Video DVD VR	Dolby Digital	2ch downmix	Dolby Digital ¹
	Dolby Digital Karaoke	Left/right	Dolby Digital ¹
	Linear PCM	Left/right	Left/right
	DTS	Not output	DTS ²
	MPEG	Left/right	MPEG ¹
CD(R/RW) WMA MP3 MPEG-4 AAC		Left/right	Left/right
DTS-CD		Not output	DTS ²
Video CD		Left/right	Left/right

- When the connected HDMI-compatible device is not compatible with Dolby Digital or MPEG audio, the signals are automatically converted to linear PCM audio signals for output.
- If the connected HDMI-compatible device is not compatible with DTS audio, the DTS audio signals are not output (the DTS audio signals are not converted to linear PCM signals for output).

Video Output settings

Options settings	Settings	
TV Screen	4:3 (Letter Box)	Select this to view 16:9 images on a 4:3 TV screen, with black bars at the top and bottom of the screen.
	4:3 (Pan & Scan)	Select this to view 16:9 images over the entire 4:3 TV screen, with the left and right sides of the 16:9 images cut off.
	16:9 (Wide)	Select this when connected to a widescreen (16:9) TV.
	16:9 (Compressed) (DV-420V only)	Select this to view 4:3 images on a high definition TV (16:9). The image will be displayed on the TV screen properly, with black bars along the sides. This can only be selected when the player and TV are connected using an HDMI cable and HDMI Resolution is set to 1920x1080p , 1920x1080i or 1280x720p .

When you have a conventional size TV (4:3) 		When you have a widescreen TV (16:9) 	
Player setting	Picture on screen	Player setting	Picture on screen
4:3 (Letter Box)	16:9 picture  4:3 picture 	16:9 (Wide)	16:9 picture  4:3 picture 
4:3 (Pan & Scan)	16:9 picture  4:3 picture 	16:9 (Compressed)	16:9 picture  4:3 picture 

The setting is only reflected if the disc allows the screen's aspect ratio to be switched. Check the disc's jacket, etc.

Changing the Settings (Initial Settings)

Options settings	Settings	
Component Out	Progressive	Select this when a TV or projector supporting progressive video signals is connected to the COMPONENT VIDEO OUT terminals. PRGSVE appears on the front panel display.
	Interlace	Select this when a TV or projector that does not support progressive video signals is connected to the COMPONENT VIDEO OUT terminals.
<ul style="list-style-type: none"> When Progressive is selected and ENTER is pressed, a confirmation message appears. To change the setting, select Yes then press ENTER. If you do not want to change the setting, select No then press ENTER. The picture may be disturbed when switching between Progressive and Interlace. When HDMI Resolution is set to 720x480i/720x576i, Interlace is set (DV-420V only). If the picture no longer appears after changing the setting to Progressive, set it back to Interlace. For instructions on how to do so, see <i>Setting the Component Out and HDMI Resolution settings back to their defaults</i> on page 27. 		
HDMI Resolution (DV-420V only)	720x480i/720x576i	720 x 480 pixel (NTSC)/720 x 576 pixel (PAL) interlaced images are output.
	720x480p/720x576p	720 x 480 pixel (NTSC)/720 x 576 pixel (PAL) progressive images are output.
	1280x720p	1 280 x 720 pixel progressive images are output.
	1920x1080i	1 920 x 1 080 pixel interlaced images are output.
	1920x1080p	1 920 x 1 080 pixel progressive images are output.
<ul style="list-style-type: none"> When the setting is changed, the picture may be disturbed or some time may be required for it to appear. When the setting is changed, a confirmation message appears. If the picture is properly displayed, select Yes then press ENTER. If it is not properly displayed, select No then press ENTER. If the picture no longer appears after changing the setting, set it back to 720x480p/720x576p. See <i>Setting the Component Out and HDMI Resolution settings back to their defaults</i> on page 27. 		
HDMI Color (DV-420V only)	Full range RGB	The colors become denser. Select this if dark colors seem displayed in a uniform black.
	RGB	The colors become lighter. Select this if the dark colors seem too light.
	Component	Select this when connected to an HDMI-compatible TV. The signals are sent in color difference (8-bit) format.
The settings can only be changed when the player and HDMI-compatible device are connected using an HDMI cable.		

The factory default settings are indicated in *italic*.

Language settings



- Some discs will not change to the selected language.
- On some discs, the language is changed on a menu screen. For such discs, change the language on the menu screen.

Changing the Settings (Initial Settings)

Options settings	Settings	
Audio Language	<i>English</i>	Select this to listen to the sound of a DVD-Video disc in English.
	available languages	Choose a language from the listed languages to set the default audio language for DVD-Video playback.
	Other Language	Select one of 136 languages. See <i>Language Code Table</i> on page 42 when performing this operation. If a language not included on the DVD-Video disc is selected, the language is set to one of the languages on the disc.
Subtitle Language	<i>English</i>	Select this to display the subtitles of a DVD-Video disc in English.
	available languages	Choose a language from the listed languages to set the default subtitle language for DVD-Video playback.
	Other Language	Select one of 136 languages. See <i>Language Code Table</i> on page 42 when performing this operation. If a language not included on the DVD-Video disc is selected, the language is set to one of the languages on the disc.
DVD Menu Lang.	<i>w/Subtitle Lang.</i>	Select this to display the DVD-Video disc's menu screens in the same language as selected for Subtitle Language .
	available languages	Choose a language from the listed languages to set the default language for DVD-Video menus.
	Other Language	Select one of 136 languages. See <i>Language Code Table</i> on page 42 when performing this operation. If a language not included on the DVD-Video disc is selected, the language is set to one of the languages on the disc.
Subtitle Display	<i>On</i>	Select this to display the subtitles.
	Off	Subtitles are always off by default when you play a DVD disc. Note that some discs override this setting.

The factory default settings are indicated in *italic*.

Display settings

Options settings	Settings	
OSD Language	<i>English</i>	Select this to display the operation indicators (Play , Stop , etc.) in English.
	available languages	Choose a language for the on-screen displays from the listed languages.
Angle Indicator	<i>On</i>	Select this to display the  mark on the TV screen.
	Off	Select this if you do not want to display the  mark on the TV screen.
On Screen Display	<i>On</i>	Select this to display operation indications (Play , Stop , etc.) on the TV screen.
	Off	Select this if you do not want to display operation indications (Play , Stop , etc.) on the TV screen.

The factory default settings are indicated in *italic*.

Options settings

Options settings	Settings	
KURO LINK (DV-420V only)	On	Select this to operate the player using the remote control of the AV device connected using an HDMI cable. For details, see <i>About KURO LINK function</i> on page 14.
	Off	Select this when you do not want to control the player with the remote control of the AV device connected using an HDMI cable.
Parental Lock	Password	Register (change) the password required for playing discs for which the Parental Lock function is set. For details, see <i>Registering (changing) the password</i> on page 33.
	Level Change	Change the player's Parental Lock level. For details, see <i>Changing the Parental Lock level</i> on page 33.
	Country Code	Change the country/area. Refer to <i>Country/Area Code Table</i> on page 42 when performing this operation.
DivX VOD	Activate	Display the player's registration code required to play DivX VOD files.
	Deactivate	Display the VOD deactivation code.
<ul style="list-style-type: none"> DivX VOD files are protected by DRM. They can only be played on registered devices. If the registration code has not been authorized, DivX VOD files cannot be played. Authorization Error appears on the TV screen if you attempt to play such files. For some DivX VOD files, the number of viewings is restricted. The remaining number of authorized views is displayed on the TV screen when such files are played. Rental Expired is displayed when the remaining number of viewings reaches 0. 		
Auto Power Off	On	Select this to turn the power off automatically (the power turns off automatically if no operation is performed for over 30 minutes).
	Off	Select this if you do not want the power to turn off automatically.

The factory default settings are indicated in *italic*.

When Other Language is selected

Select one of 136 languages. See *Language Code Table* on page 42 when performing this operation. If a language not included on the DVD-Video disc is selected, the language is set to one of the languages on the disc.

1 Select Other Language.

Use **←/→** to select, then press **ENTER**.

2 Select List of Languages or Code.

Use **←/→** to select, then press **ENTER**.

- There are some languages for which only the code number is displayed. For details, see *Language Code Table* on page 42.

3 Select the language code.

Use **↑/↓** or **number buttons (0 to 9)** to select, then press **ENTER**.

Changing the Settings (Initial Settings)

Registering (changing) the password

Some DVD-Video discs have Parental Lock levels (check the disc's jacket, etc.). Viewing of such discs can be restricted by setting the player's level to a level lower than the disc.

1 Select Password.

Use **↑/↓** to select, then press **ENTER**.

2 Input the password.

Use the **number buttons (0 to 9)** to input the password, then press **ENTER**.

- To change the password, first input the registered password, then input the new password.



Notes

- We recommend making a written note of the password.
- If you forget the password, restore the player's settings to the defaults, then register a new password.
- On some DVD-Video discs, a screen for inputting the password appears during playback. Input the password to continue playing the disc.

Changing the Parental Lock level

1 Select Level Change.

Use **↑/↓** to select, then press **ENTER**.

2 Input the password.

Use the **number buttons (0 to 9)** to input the password, then press **ENTER**.

3 Change the level.

Use **←/→** to select, then press **ENTER**.

Changing the country/area code for the Parental Lock function

Refer to *Country/Area Code Table* on page 42 when performing this operation.

1 Select Country Code.

Use **↑/↓** to select, then press **ENTER**.

2 Input the password.

Use the **number buttons (0 to 9)** to input the password, then press **ENTER**.

3 Select the country code.

Use **↑/↓** to select, then press **ENTER**. 

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.
- The player may not operate properly due to static electricity or other external influences. In such cases, normal operation may be restored by unplugging the power cord then plugging it back in.

General problems

Problem	Check	Remedy
Settings you have made have been cleared.	Was the power cord unplugged forcibly while the player's power was on?	The settings may be cleared if the power cord is unplugged or if there is a power failure while the player's power is on. Be sure to press ⏻ STANDBY/ON on the player's front panel or press ⏻ STANDBY/ON on the remote control and wait for the - OFF - indicator on the front panel display to turn off before unplugging the power cord. Be particularly careful when the player's power cord is plugged into the AC outlet of another component, since the supply of power to the player turns off together with the power supply of the other component. We recommend plugging the power cord directly into a wall outlet, etc., whenever possible.
Difference in volume between DVDs and CDs.	This is not a problem with the player.	The volume may sound different due to differences in how the signals are recorded on the disc.
Player cannot be operated with the remote control.	Are you operating from far away?	Operate from within a distance of 7 meters from the remote control sensor.
	Is the remote control sensor exposed to direct sunlight or strong artificial light from a fluorescent bulb, etc.?	The remote control signals may not be received properly if the remote control sensor is exposed to direct sunlight or strong artificial light from a fluorescent bulb, etc.
	Are the batteries dead?	Replace the batteries (page 5).
Disc cannot be played or disc tray opens automatically.	Is the disc scratched?	Scratched discs may not play.
	Is the disc dirty?	Wipe the dirt off the disc (page 44).
	Is the disc properly set in the disc tray?	Set the disc with the printed side facing up. Set the disc within the groove in the disc tray.
	Does the disc have the right region number?	See <i>About region numbers</i> on page 6.
	Is the player placed in a humid location?	There could be condensation inside. Wait a while for the condensation to evaporate. Do not place the player near an air-conditioner, etc. (page 44).

Additional information

Problem	Check	Remedy
The player's power turns off automatically.	Is Auto Power Off set to On ?	If Auto Power Off is set to On , the player's power turns off automatically if no operation is performed for over 30 minutes (page 32).
Power turns on or off automatically.	Is KURO LINK set to On ? (DV-420V only)	The player's power may turn on together with the power of the TV connected to the HDMI OUT terminal. If you do not want the player's power to turn on when the TV's power is turned on, set KURO LINK to Off (page 32).
Input of connected TV and AV system switches automatically.	Is KURO LINK set to On ? (DV-420V only)	The input of the TV and AV system (AV receiver or amplifier, etc.) connected to the HDMI OUT terminal may automatically switch to the player when playback starts on the player or the menu screen (Home Menu, etc.) is displayed. If you do not want the inputs of the connected TV and AV system (AV receiver or amplifier, etc.) to switch automatically, set KURO LINK to Off (page 32).
Picture is not displayed.	Is the video cord properly connected?	Connect the cord properly, inserting the plug all the way in.
	Is the video cord damaged?	If the video cord is damaged, replace it with a new cord.
	Is the input on the connected TV or AV receiver or amplifier properly set?	Switch to the proper input, referring to the connected device's operating instructions.
Picture is stretched, or aspect ratio cannot be switched.	Is the aspect ratio properly set on the connected TV?	Refer to the TV's operating instructions and set the TV's aspect ratio properly.
	Is TV Screen properly set?	Set TV Screen properly (page 29).
During playback, picture is disturbed or dark.	This is not a problem with the player.	This player supports Macrovision copy protection. With some TVs, the picture may not display properly when playing discs including copy prevention signals. This is not a malfunction.
	Are the player and TV connected via a video deck?	When the player and TV are connected via a video deck, the player's analog copy protect function may cause the picture being played on the video deck not to display properly. Connect the player and TV directly.
	Is the TV system properly set?	The factory default setting is AUTO . If the picture is distorted, switch the TV system to the one used in your country or region (NTSC or PAL) (page 43).
Playback stops momentarily or the disc is not properly played.	Are you playing a disc that was edited on a DVD recorder, etc.?	When edited images are played, the picture may stop momentarily at points where images were combined, and the disc may not play as edited.

Additional information

Problem	Check	Remedy
Sound is not produced or is distorted.	Is the pause, frame-by-frame forward or reverse, or slow play mode set?	No sound is output during pause, frame-by-frame forward/reverse or slow motion playback.
	Are the connected devices (AV receiver or amplifier, etc.) properly set?	Refer to the TV's operating instructions and check the settings (volume, input, speaker settings, etc.).
	Is the disc scratched?	Scratched discs may not play.
	Is the disc dirty?	Wipe the dirt off the disc (page 44).
	Are the audio cords properly connected?	Connect the cord properly, inserting the plug all the way in.
	Are the audio cords damaged?	If the audio cord is damaged, replace it with a new cord.
	Is the player properly connected to the other devices (AV receiver or amplifier, etc.)?	Check whether you are mistakenly connected to the other device's audio output terminals, etc. Check whether you are mistakenly connected to the AV receiver or amplifier's PHONO input terminals, etc.
96 kHz/88.2 kHz digital audio signals are not output from the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) terminals.	Is the other device (AV receiver or amplifier, etc.) connected to the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) terminals?	When connected to the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) terminals, set Digital Out to On (page 28). Refer to the connected AV receiver or amplifier's operating instructions and check the audio signals it supports.
	Is Digital Out set to On ?	Set Digital Audio Out according to the audio signals supported by the AV receiver or amplifier, etc. (page 28).
	When connected to the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) terminals, set Digital Out to On (page 28).	
Multichannel audio signals are not output.	Is the audio output properly set on the connected AV receiver or amplifier, etc.?	Refer to the connected AV receiver or amplifier's operating instructions and check the audio output settings. Switch the disc's audio to multichannel audio using the menu screen or AUDIO .
	Is Digital Audio Out set to audio signals the AV receiver or amplifier, etc., supports?	Refer to the connected AV receiver or amplifier's operating instructions and check the audio signals it supports. Set Digital Audio Out according to the audio signals supported by the AV receiver or amplifier, etc. (page 28).

Additional information

Problem	Check	Remedy
DTS audio signals are not output.	Are connections proper?	Properly connect the AV receiver or amplifier, etc., to the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) terminals.
	Does the connected AV receiver or amplifier, etc., support DTS audio signals?	If the connected AV receiver or amplifier, etc., does not support DTS audio signals, set DTS Out to Off (page 28).
	Is the audio output properly set on the connected AV receiver or amplifier, etc.?	If the connected AV receiver or amplifier, etc., supports DTS audio signals, change the audio output of the AV receiver or amplifier, etc., to a setting allowing output of DTS audio signals.
96 kHz/88.2 kHz digital audio signals are not output from the DIGITAL AUDIO OUT (COAXIAL/OPTICAL) terminals.	Is 96 kHz PCM Out set to 96kHz ?	Set 96 kHz PCM Out to 96kHz > 48kHz .
	Are you playing a copyright-protected disc?	The 96 kHz/88.2 kHz digital audio signals of copyright-protected discs cannot be output.
Folder or file names are not recognized.	Have you exceeded the maximum number of folder or file names the player can recognize?	Up to 299 folders can be recognized on one disc. Up to 648 files can be recognized within one folder. Depending on the folder structure, however, the player may not be able to recognize certain folders or files.
Folder or file names are not displayed or are not properly displayed.	Do the folder or file names contain anything other than 1-byte alphanumeric characters?	Folder and file names can be displayed. Note, however, that only 1-byte alphanumeric characters can be displayed. Folder and file names including characters other than 1-byte alphanumeric characters may be displayed for example as F_001 or FL_001 , and the characters may be garbled.
Time is required to play JPEG files.	Are you playing large files?	Some time may be required to display large files.
Black bars are displayed when playing JPEG files.	Are you playing files with different aspect ratios?	Black bars may be displayed along the top and bottom or sides when JPEG files with different aspect ratios are played.

When connected to an HDMI-compatible device (DV-420V only)

Problem	Check	Remedy
HDMI indicator does not light.	Is a DVI device connected?	The picture may not be output properly when a DVI device is connected.
	Is the input properly set on the connected HDMI-compatible device?	Refer to the operating instructions of the connected HDMI-compatible device and switch to the proper input.

Additional information

Problem	Check	Remedy
Picture is not displayed.	Is the resolution properly set?	Set HDMI Resolution properly for the connected device (page 30). Restore HDMI Resolution to the default setting (720x480p/720x576p) (page 30).
	Is the HDMI cable properly connected?	Connect the cable securely (all the way in). With some cables, 1 080p video signals will not be output.
	Is the HDMI cable damaged?	If the cable is damaged, replace it with a new cable.
	Is a DVI device connected?	The picture may not be output properly when a DVI device is connected.
Sound is not produced or is distorted.	Is HDMI Out properly set?	Set HDMI Out to LPCM (2CH) or Auto (page 28).
Multichannel audio signals are not output.	Is HDMI Out properly set?	Set HDMI Out to Auto (page 28).
Colors are not properly displayed on TV screen.	Is HDMI Color properly set?	Change the HDMI Color setting (page 30).
	Is the input properly set on the connected TV?	Refer to the TV's operating instructions and switch to the proper input.

Additional information

Problem	Check	Remedy
KURO LINK function does not work.	Is the HDMI cable you are using a High Speed HDMI cable?	Use a High Speed HDMI cable. The KURO LINK function may not work properly if HDMI cable other than a High Speed HDMI™ cable is used.
	Is KURO LINK set to On on the player?	Set KURO LINK to On on the player (page 32).
	Does the connected device support the KURO LINK function?	<p>The KURO LINK function does not work with devices of other brands, even if connected using an HDMI cable.</p> <p>The KURO LINK function will not work if devices that do not support the KURO LINK function or devices of other brands are connected between the KURO LINK-compatible device and the player.</p> <p>Even when connected to a Pioneer product compatible with the KURO LINK function, some of the functions may not work.</p> <p>Also refer to the operating instructions of the connected device.</p>
	Is KURO LINK set to On on the connected device?	Set KURO LINK to On on the connected device. The KURO LINK function operates when KURO LINK is set to On for all devices connected to the HDMI OUT terminal. Once connections and settings of all the devices are finished, be sure to check that the player's picture is output to the Flat Screen TV. (Also check after changing the connected devices and connecting and/or disconnecting HDMI cables.) If the player's picture is not being output to the Flat Screen TV, the KURO LINK function may not work properly. For details, refer to the operating instructions of the connected device.
	Are multiple players connected?	The KURO LINK function may not work if three or more players, including this player, are connected by HDMI cable.
The message CEC200 appears.	Is the player's power turned off?	<p>When the Disc Navigator is selected using the Flat Screen TV's remote controller, the message CEC200 is displayed if the player's power is turned off.</p> <p>This is not a malfunction. You may continue using the player and Flat Screen TV as such.</p>

When a USB device is connected

Problem	Check	Remedy
USB device is not recognized.	Is the USB device properly connected?	Connect the device securely (all the way in).
	Is the USB device connected via a USB hub?	This player does not support USB hubs. Connect the USB device directly. This player only supports USB mass storage class devices. This player supports portable flash memory and digital audio playback devices. Only the FAT16 and FAT32 file systems are supported. Other file systems (exFAT, NTFS, etc.) are not supported.
	This is not a problem with the player.	Turn the power off then back on.
	This is not a problem with the player.	Some USB devices may not be recognized properly.
File cannot be played.	Is the file copyright-protected (by DRM)?	Copyright-protected files cannot be played.
	This is not a problem with the player.	Files stored on a computer cannot be played.
	This is not a problem with the player.	It may not be possible to play some files.
Folder or file names are not displayed or are not properly displayed.	Do the folder or file names contain more than 14 characters?	The maximum number of characters displayable for the folder and file names on the Disc Navigator is 14.
Folder or file names are not displayed in alphabetical order.	This is not a problem with the player.	The order of the folder and file names displayed on the Disc Navigator depends on the order in which the folders or files were recorded on the USB device.
Much time is required to recognize the USB device.	What is the USB device's capacity?	Some time may be required to load the data when large capacity USB devices are connected (this could take several minutes).
Power is not supplied to the USB device.	Is USB ERR displayed on the front panel display? No power is supplied if the power consumption is too high.	Turn the power off then back on.
		Turn the power off, then disconnect and reconnect the USB device. Press DVD/USB to switch back to the DVD mode, then switch again to the USB mode. (When the input is switched back to the DVD mode, LOADING is displayed on the front panel display and the disc is recognized. When the input is switched back to USB, USB MODE is displayed on the front panel display.) If the USB device is equipped with an AC adapter, use the USB device with the AC adapter connected.

Additional information

Problem	Check	Remedy
Audio CD tracks cannot be recorded on a USB device.	Is there enough free space on the USB device?	Recording is not possible if there is not enough free space left on the USB device. In this case, Available USB space is low is displayed.
	Are there 300 or more folders on the USB device?	Recording is not possible if the USB device contains 300 or more folders.
	Are there already 99 PIONEER folders on the USB device?	Recording is not possible if there are already 99 PIONEER folders on the USB device.



Language Code Table and Country/Area Code Table

Language Code Table

Language names (codes) and input codes

Japanese (ja), 1001	Bhutani (dz), 0426	Kirghiz (ky), 1125	Sinhalese (si), 1909
English (en), 0514	Esperanto (eo), 0515	Latin (la), 1201	Slovak (sk), 1911
French (fr), 0618	Estonian (et), 0520	Lingala (ln), 1214	Slovenian (sl), 1912
German (de), 0405	Basque (eu), 0521	Laothian (lo), 1215	Samoan (sm), 1913
Italian (it), 0920	Persian (fa), 0601	Lithuanian (lt), 1220	Shona (sn), 1914
Spanish (es), 0519	Finnish (fi), 0609	Latvian (lv), 1222	Somali (so), 1915
Chinese (zh), 2608	Fiji (fj), 0610	Malagasy (mg), 1307	Albanian (sq), 1917
Dutch (nl), 1412	Farøese (fo), 0615	Maori (mi), 1309	Serbian (sr), 1918
Portuguese (pt), 1620	Frisian (fy), 0625	Macedonian (mk), 1311	Siswati (ss), 1919
Swedish (sv), 1922	Irish (ga), 0701	Malayalam (ml), 1312	Sesotho (st), 1920
Russian (ru), 1821	Scots-Gaelic (gd), 0704	Mongolian (mn), 1314	Sundanese (su), 1921
Korean (ko), 1115	Galician (gl), 0712	Moldavian (mo), 1315	Swahili (sw), 1923
Greek (el), 0512	Guarani (gn), 0714	Marathi (mr), 1318	Tamil (ta), 2001
Afar (aa), 0101	Gujarati (gu), 0721	Malay (ms), 1319	Telugu (te), 2005
Abkhazian (ab), 0102	Hausa (ha), 0801	Maltese (mt), 1320	Tajik (tg), 2007
Afrikaans (af), 0106	Hindi (hi), 0809	Burmese (my), 1325	Thai (th), 2008
Amharic (am), 0113	Croatian (hr), 0818	Nauru (na), 1401	Tigrinya (ti), 2009
Arabic (ar), 0118	Hungarian (hu), 0821	Nepali (ne), 1405	Turkmen (tk), 2011
Assamese (as), 0119	Armenian (hy), 0825	Norwegian (no), 1415	Tagalog (tl), 2012
Aymara (ay), 0125	Interlingua (ia), 0901	Occitan (oc), 1503	Setswana (tn), 2014
Azerbaijani (az), 0126	Interlingue (ie), 0905	Oromo (om), 1513	Tonga (to), 2015
Bashkir (ba), 0201	Inupiak (ik), 0911	Oriya (or), 1518	Turkish (tr), 2018
Byelorussian (be), 0205	Indonesian (in), 0914	Panjabi (pa), 1601	Tsonga (ts), 2019
Bulgarian (bg), 0207	Icelandic (is), 0919	Polish (pl), 1612	Tatar (tt), 2020
Bihari (bh), 0208	Hebrew (iw), 0923	Pashto, Pushto (ps), 1619	Twi (tw), 2023
Bislama (bi), 0209	Yiddish (ji), 1009	Quechua (qu), 1721	Ukrainian (uk), 2111
Bengali (bn), 0214	Javanese (jw), 1023	Rhaeto-Romance (rm), 1813	Urdu (ur), 2118
Tibetan (bo), 0215	Georgian (ka), 1101	Kirundi (rn), 1814	Uzbek (uz), 2126
Breton (br), 0218	Kazakh (kk), 1111	Romanian (ro), 1815	Vietnamese (vi), 2209
Catalan (ca), 0301	Greenlandic (kl), 1112	Kinyarwanda (rw), 1823	Volapük (vo), 2215
Coriscan (co), 0315	Cambodian (km), 1113	Sanskrit (sa), 1901	Wolof (wo), 2315
Czech (cs), 0319	Kannada (kn), 1114	Sindhi (sd), 1904	Xhosa (xh), 2408
Welsh (cy), 0325	Kashmiri (ks), 1119	Sangho (sg), 1907	Yoruba (yo), 2515
Danish (da), 0401	Kurdish (ku), 1121	Serbo-Croatian (sh), 1908	Zulu (zu), 2621

Country/Area Code Table

Country/Area name, Input codes and Country/Area code

United States, 2119 , us	Canada, 0301 , ca	Chile, 0312 , cl	Mexico, 1324 , mx
Argentina, 0118 , ar	Korea, Republic of, 1118 , kr	Denmark, 0411 , dk	Russian Federation, 1821 , ru
United Kingdom, 0702 , gb	Singapore, 1907 , sg	Germany, 0405 , de	Brazil, 0218 , br
Italy, 0920 , it	Switzerland, 0308 , ch	Japan, 1016 , jp	France, 0618 , fr
India, 0914 , in	Sweden, 1905 , se	New Zealand, 1426 , nz	Belgium, 0205 , be
Indonesia, 0904 , id	Spain, 0519 , es	Norway, 1415 , no	Portugal, 1620 , pt
Australia, 0121 , au	Thailand, 2008 , th	Pakistan, 1611 , pk	Hong Kong, 0811 , hk
Austria, 0120 , at	Taiwan, 2023 , tw	Philippines, 1608 , ph	Malaysia, 1325 , my
Netherlands, 1412 , nl	China, 0314 , cn	Finland, 0609 , fi	



Additional information

Setting the TV system

- If the picture of the disc being played is distorted, switch the TV system to the one used in your country or region.
- When the TV system is switched, the types of discs that can be played are limited.
- The factory default setting is **AUTO**.

1 Turn the player's power off.

Press **⏻ STANDBY/ON**.

2 Press **⏻ STANDBY/ON** while pressing

▶▶.

Use the buttons on the player's front panel. The power turns on and the TV system switches as shown below.

- AUTO → NTSC
- NTSC → PAL
- PAL → AUTO

Types of discs/files	Format	Player setting		
		NTSC	PAL	AUTO
DVD-Video DVD VR Video CD DivX® WMV	NTSC	NTSC	PAL	NTSC
CD(R/RW) WMA MP3 MPEG-4 AAC JPEG no disc	PAL	NTSC	PAL	PAL
	—	NTSC	PAL	NTSC or PAL



Cautions on use

When moving the player

When moving the player, check first that there is no disc loaded and that the disc tray is closed. Then press **⏻ STANDBY/ON** on the player (or **⏻ STANDBY/ON** on the remote control), wait for the **- OFF -** indicator on the front panel display to turn off, then unplug the power cord. Moving the player with a disc inside it could result in damage.

Place of installation

- Choose a stable place near the TV or stereo system being used with the player.
- Do not place the player on top of a TV or color monitor. Also install it away from cassette decks and other devices easily affected by magnetic forces.

Avoid the following types of places:

- Places exposed to direct sunlight
- Humid or poorly ventilated places
- Extremely hot places
- Places exposed to vibrations
- Dusty places
- Places exposed to soot, steam or heat (kitchens, etc.)

Do not place objects on the player.

Do not place any objects on top of the player.

Do not obstruct the ventilation holes.

Do not use the player on shaggy rugs, beds, sofas, etc., or wrapped in cloth, etc. Doing so will prevent the heat from dispersing, leading to damage.

Do not expose to heat.

Do not place the player on top of an amplifier or other component that generates heat. When placing it in a rack, to avoid the heat given off by the amplifier or other audio component, place it on a shelf below the amplifier.

Turn off the player's power when not using it.

Depending on signal conditions, striped patterns may appear on a TV screen and noise may enter the sound of radio broadcasts when the player's power is on. If this happens, turn the player's power off.

About condensation

If the player is moved suddenly from a cold place into a warm room (in winter, for example) or if the temperature in the room in which the player is installed rises suddenly due to a heater, etc., water droplets (condensation) may form inside (on operating parts and the lens). When condensation is present, the player will not operate properly and playback is not possible. Let the player stand at room temperature for 1 or 2 hours with the power turned on (the time depends on the extent of condensation). The water droplets will dissipate and playback will become possible. Condensation can also occur in the summer if the player is exposed to the direct wind from an air-conditioner. If this happens, move the player to a different place.

Cleaning the product

- Unplug the power cord from the power outlet when cleaning the player.
- Clean the player using a soft cloth. For tough dirt, apply some neutral detergent diluted in 5 to 6 parts water to a soft cloth, wring out thoroughly, wipe off the dirt, then wipe again with a soft, dry cloth.
- Alcohol, thinner, benzene, insecticides, etc., could cause the print or paint to peel off. Also, leaving rubber or vinyl products in contact with the player for long periods of time could mar the cabinet.
- When using chemical-impregnated wipes, etc., read the cautions included with the wipes carefully.

Caution for when the unit is installed in a rack with a glass door

Do not press **▲ OPEN/CLOSE** on the remote control to open the disc tray while the glass door is closed. The door will hamper the movement of the disc tray, and the unit could be damaged.

Cleaning the lens

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

About copyrights

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.

Handling discs

Storing

- Always place discs in their cases and store them vertically, avoiding hot, humid places, places exposed to direct sunlight and extremely cold places.
- Be sure to read the cautions included with the disc.

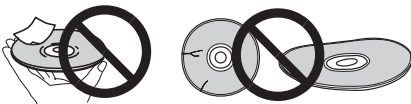
Additional information

Cleaning discs

- Discs may not play if there are fingerprints or dust on them. In this case, use a cleaning cloth, etc., to gently wipe the disc from the inside towards the outside. Do not use dirty cleaning cloths.



- Do not use benzene, thinner or other volatile chemicals. Also do not use record spray or antistatic agents.
- For tough dirt, apply some water to a soft cloth, wring out thoroughly, wipe off the dirt, then wipe off the moisture with a dry cloth.
- Do not use damaged (cracked or warped) discs.
- Do not let the signal surface of discs get scratched or dirty.
- Do not place two discs in the disc tray, one on top of the other.
- Do not attach pieces of paper or stickers to discs. Doing so could warp discs, making it impossible to play them. Also note that rental discs often have labels attached to them, and the label's glue may have oozed out. Check that there is no glue around the edges of such labels before using rented discs.



About specially shaped discs

Specially shaped discs (heart-shaped, hexagonal, etc.) cannot be played on this player. Do not attempt to play such discs, as they could damage the player.



About condensation on discs

Water droplets (condensation) may form on the surface of discs if they are moved from a cold place (particularly in winter) into a warm room. Discs may not play normally if there is condensation on them. Carefully wipe the water droplets off the surface of the disc before loading it. ▣

Specifications

Power requirements	AC 110 V to 240 V, 50 Hz/60 Hz
Power consumption.....	11 W
Power consumption (standby)	
DV-420V.....	0.7 W
DV-320.....	0.5 W
Weight	1.7 kg
External dimensions	
.....	420 mm (W) x 49.5 mm (H) x 215.5 mm (D)
Tolerable operating temperature	+5 °C to +35 °C
Tolerable operating humidity	5 % to 85 % (no condensation)

Video output

Output level	1 Vp-p (75 Ω)
Output terminal.....	RCA terminal

S-Video output

Y output level	1 Vp-p (75 Ω)
C output level.....	286 mVp-p (75 Ω)
Output terminal.....	S terminal

Component video output (Y, C_B/P_B, C_R/P_R)

Y output level	1 Vp-p (75 Ω)
C _B /P _B , C _R /P _R output level.....	0.7 Vp-p (75 Ω)
Output terminal.....	RCA terminal

HDMI output (DV-420V only)

Output terminal.....	19-pin
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Audio output (stereo L/R)

Audio output level	200 mVrms (1 kHz, -20 dB)
Output terminal.....	RCA terminal
Frequency response.....	4 Hz to 44 kHz
S/N ratio.....	115 dB
Dynamic range.....	88 dB
Total harmonic distortion	0.0065 %

Digital audio output


Coaxial digital output.....	RCA terminal
Optical digital output.....	Optical digital terminal

Additional information

USB port	A type
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Notes

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