

# DV-3022KV/DV-3022V DV-2022K/DV-2022

## 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.

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### What's in the box

- Remote Control
- Audio/video cable
- Power cord (Except South Asian models)
- AAA batteries (R03) x 2
- Operating instructions (This document)

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# Safety cautions

## IMPORTANT

**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

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:**  
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.

**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).

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).

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

**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.

**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.**

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.

**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)

**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.

**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.

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

**CLASS 1 LASER PRODUCT**

# Specifications

- Power requirements: . . . . . AC 110 V to 240 V, 50 Hz/60 Hz
- Power consumption  
DV-3022KV/DV-3022V . . . . . 11 W
- DV-2022K/DV-2022 . . . . . 10 W
- Power consumption (standby)  
DV-3022KV/DV-3022V . . . . . 0.8 W
- DV-2022K/DV-2022 . . . . . 0.5 W
- Weight . . . . . 1.2 kg
- External dimensions  
DV-3022KV/DV-2022K . . . . . 360 mm (W) x 42 mm (H) x 207 mm (D)
- DV-3022V/DV-2022 . . . . . 360 mm (W) x 42 mm (H) x 200 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
- **Component video output (Y, Cb/Pb, Cr/Pr)**  
Y output level . . . . . 1 Vp-p (75 Ω)
- Cb/Pb, Cr/Pr Output level . . . . . 0.7 Vp-p (75 Ω)
- Output terminal . . . . . RCA terminal
- **HDMI output (Only for DV-3022KV/DV-3022V)**  
Output terminal . . . . . 19-pin
- **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
- **Digital audio output**  
Coaxial digital output . . . . . RCA terminal
- **Additional information**  
USB port . . . . . A type

**Notes**  
• The specifications and design of this product are subject to change without notice.  
• This product includes FontAvenue® fonts licensed by NEC Corporation. FontAvenue is a registered trademark of NEC Corporation.

# 1 Before you start

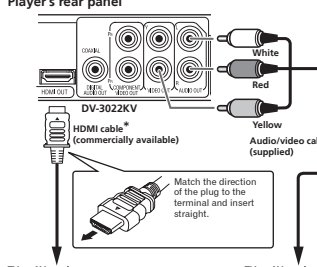
## Loading the batteries in the remote control

- Open the rear lid and insert the batteries.
- **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.

- **Notes**  
• When inserting the batteries, make sure not to damage the springs on the battery's (⊖) terminals.  
• 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.

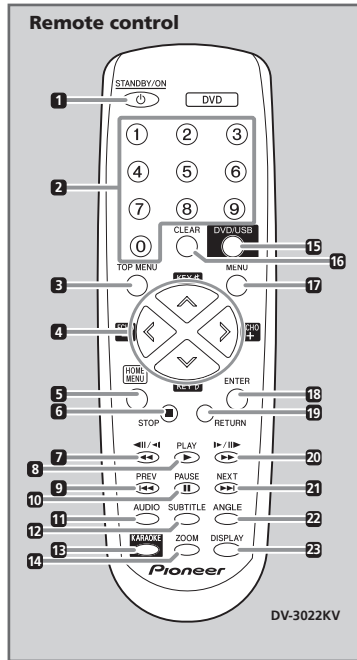
## Connections

- Only DV-3022KV and DV-3022V have HDMI OUT terminal.



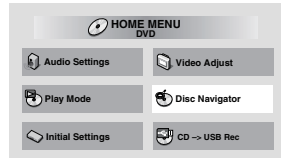
\* DV-3022KV for South and Central America is supplied with an HDMI cable.

# 2 Part names and functions



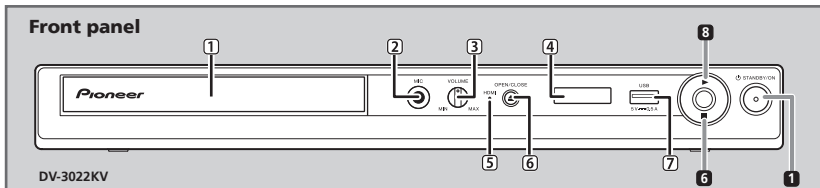
- 1 **STANDBY/ON**  
Press to turn the power on and off.
- 2 **Number buttons (0 to 9)**  
Use these to specify and play the title, chapter, track or file. Also use to select items on MENU screens, etc.
- 3 **TOP MENU**  
Press to display the top menu of the DVD-Video.
- 4 **Navigation buttons**  
Use these to select items, change settings and move the cursor.
- 5 **HOME MENU**  
Press to display/hide HOME MENU.

**Note**  
The illustrations used in this operating instructions are DV-3022KV.



- **Audio Settings** (section 6)
- **Video Adjust** (section 6)
- **Play Mode**
  - **A-B Repeat**  
The specified section within a single title or track is played repeatedly.
  - **Repeat**  
Plays titles, chapters, tracks or files repeatedly.
  - **Random**  
Plays titles, chapters or tracks in random order.
  - **Program**  
See section 4 for details.
  - **Search Mode**  
Plays the specified number or time within the title, chapter, track or file.
- The **Play Mode** function may not work for some discs or files.
- **Disc Navigator** (see 17 MENU on the right column)
- **Initial Settings** (section 6)
- **CD -> USB Rec** (section 4)
  - Except Australian models.

- 6 **STOP**  
To resume play, press **STOP** once during playback. If you press **PLAY** after that, playback starts from the point you last stopped. To cancel resume play, press **STOP** again while playback is stopped.
- 7 **Fast-Reverse**  
• Press during playback to fast-reverse.  
• Press in the pause mode to move backward frame-by-frame.  
• Press and hold in the pause mode to play back slowly (reverse).
- 8 **PLAY**  
Press to start playback.



- 9 **PREV**  
Press to return to the beginning of the currently playing title, chapter, track or file. Press twice to move back to the beginning of the previous title, chapter, track or file.
- 10 **PAUSE**  
Press to stop playback temporarily. Press again to resume.
- 11 **AUDIO**  
For discs or files including multiple audio streams/channels, the audio stream/channel can be changed during playback.
- 12 **SUBTITLE**  
On DVD-Video or DivX discs containing subtitles in multiple languages, the subtitle can be changed during playback.
- 13 **KARAOKE (DV-3022KV/DV-2022K)**  
Press to display the Karaoke Settings screen.
  - **Key/Echo** (section 5)
  - **Karaoke Rec** (section 5)
  - **Karaoke Score** (section 5)
 To open and close the disc tray, use **OPEN/CLOSE** on the front panel.
- 14 **ZOOM**  
Press to zoom on the image.
- 15 **DVD/USB (section 4)**  
Press to switch between DVD and USB modes.
- 16 **CLEAR**  
Press to cancel the selected item.
- 17 **MENU**
  - Press to display MENU screen or Disc Navigator.
  - Select the title, chapter, track or file from the Disc Navigator to play back.
- 18 **ENTER**  
Use this to implement the selected item or enter a setting that you have changed.

### <Only for the front panel>

- 1 **Disc tray**
- 2 **MIC (DV-3022KV/DV-2022K)**
- 3 **VOLUME (DV-3022KV/DV-2022K) (section 5)**
- 4 **Front panel display**
- 5 **HDMI indicator (DV-3022KV/DV-3022V)**  
Lights when the device connected to the HDMI OUT terminal is recognized.
- 6 **OPEN/CLOSE**
- 7 **USB port (type A)**

# 3 Playable discs and files

## Playable discs

DVD-Video	• DVD-Video discs • DVD-R/-RW/-R DL and DVD+R/+RW/+R DL discs recorded in the Video mode
DVD VR	DVD-R/-RW/-R DL discs recorded in the VR mode
Video CD	Video CDs (including Super VCDs)
CD(R/RW)	• 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
DivX®	DivX video files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs
WMA	WMA files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs
MP3	MP3 files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs
FUJICOLOR-CD	
KODAK Picture CD	

- Only the discs that have been finalized can be played.
- **DVD** is a trademark of DVD Format/Logo Licensing Corporation.
- **DivX** 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.

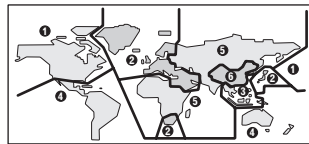
- **Notes**  
• This player does not support multisession discs or multiborder recording.  
• Multisession/multiborder recording is a method in which data is recorded on a single disc in two or more sessions/borders. A "session" or "border" is one recording unit, consisting of a complete set of data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

## Discs that cannot be played

- Blu-ray discs
- HD DVDs
- AVCHD
- AVCREC
- DVD-Audio discs
- DVD-RAM discs
- SACDs
- CD-G
- Discs recorded with packet writing
- Programs that can be recorded only once and that are (already) recorded on a DVD-R/-RW/-R DL

## About region numbers

All DVD-Video discs carry a region mark (number) on the case. The mark (number) denotes the region(s) of the world in which the disc is compatible. Your DVD player also has a region mark (number), which you can find on the rear panel.  
If you try to play a disc of an incompatible region, "Incompatible disc region number Can't play disc" will be displayed on the screen and you will not be able to play the disc. Discs marked "ALL" can be played in any player. The diagram below shows the various DVD regions of the world.



## 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.

## Playing discs created on computers or BD/DVD recorders

- The player may not be able to play discs recorded using a computer. Record discs in a format playable on this player. For details, contact the dealer.
- The player may not be able 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.

- 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.

## Notes for DV-3022KV/DV-3022V

- Signals can be transferred to an HDMI-compatible TV without loss of picture or sound quality using an HDMI cable. Follow the TV instructions after the connections, then set **HDMI Resolution** (section 6).
- This player's interface is designed according to the High-Definition Multimedia Interface specifications.
- 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 HDMI OUT terminal can be changed manually. Change the **HDMI Resolution** setting (section 6). Settings for two units can be stored in the memory.
- This player is designed for connecting to HDMI-compatible devices. It may not operate properly if connected to DVI devices.

## Playable audio signals through the HDMI OUT terminal (DV-3022KV/DV-3022V)

- 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

## Connecting using commercially available cables

- The player can be connected to an AV amplifier, etc., using commercially available digital audio cables and component video cables.

## 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.
- Files other than the ones below (WMV, MPEG4-AAC, etc.) are not guaranteed to be played.

## Supported video file formats

- **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.



- DivX®, DivX Certified® and associated logos are trademarks of DivX, Inc. and are 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** in section 6 to match the subtitle file.
- This player supports the following language groups:

<b>Group 1</b>	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)
<b>Group 2</b>	Albanian (sq), Croatian (hr), Czech (cs), Hungarian (hu), Polish (pl), Romanian (ro), Slovak (sk), Slovenian (sl)
<b>Group 3</b>	Bulgarian (bg), Byelorussian (be), Macedonian (mk), Russian (ru), Serbian (sr), Ukrainian (uk)
<b>Group 4</b>	Hebrew (iw), Yiddish (ji)
<b>Group 5</b>	Turkish (tr)

## 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 does not support progressive JPEG.

## Supported audio file formats

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

## MPEG-1 Audio Layer 3 (MP3)

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

## Playable file extensions

- **Video files**  
.divx .avi  
• Files not containing DivX video signals cannot be played, even if they have the extension ".avi".
- **Image files**  
.jpg .jpeg
- **Audio files**  
.wma .mp3



# 4 Convenient functions

## Playing in the desired order (Programmed Play)

DVD-Video Video CD CDiR/RW DivX® WMA MP3 MP3

### 1 Display the Play Mode screen.

Select **Play Mode** from **HOME MENU** screen.

### 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.

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, track or file 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 Start playback.

Press **▶ PLAY**.

- To play the program, 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. Select **Program Repeat** from **Repeat** on the **Play Mode** screen during programmed playback.
- Programs cannot be played in random order (random play is not possible during programmed play).

# 7 Troubleshooting

- Incorrect operation is often mistaken for trouble or malfunction. If there is something wrong with this player, check the symptoms below.
- Sometimes the trouble lie in another component connected to this player. Inspect the component 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.

### Difference in volume between DVD and CD.

☞ The volume may sound different due to differences in how the signals are recorded on the disc.

### Disc cannot be played or disc tray opens automatically.

☞ If the disc is dirty, wipe the dirt off the disc (section 8).

☞ Set the disc with the printed side facing up.

☞ Check the disc's region number, and if the number is compatible for playback on the player (section 3). Only the discs with the appropriate region number or "ALL" can be played.

### The power turns off automatically.

☞ If **Auto Power Off** is set to **On**, the power turns off automatically if no operation has done for over 30 minutes (section 6).

### Picture is stretched, or aspect ratio cannot be changed.

☞ Refer to the TV's operating instructions and set the TV's aspect ratio properly.

☞ Set **TV Screen** properly (section 6).

### Picture is disturbed or dark during playback.

☞ When the player and the TV are connected via a video deck, "analog copy protect function" may cause the picture being played on the video deck not to display properly. Connect the player and TV directly.

☞ Set the TV system properly. 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**) (section 8).

### 96 kHz/88.2 kHz digital audio signals are not output from the COAXIAL DIGITAL AUDIO OUT terminals.

☞ Set **96 kHz PCM Out** to **96kHz > 48kHz**.

☞ The 96 kHz/88.2 kHz digital audio signals of copyright-protected discs cannot be output.

### Folder or file names are not recognized.

☞ This player can recognize up to 299 folders on one disc and 648 files within one folder. Depending on the folder structure, however, the player may not be able to recognize certain folders or files.

## Playing files on USB devices

JPEG DivX® WMA MP3

- The player may not recognize the USB device, play files or supply power to the USB device. For details, see *When a USB device is connected* in section 7.
- 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 Switch to USB mode.

Press **DVD/USB**.  
**USB** is displayed on the front panel display.

### 2 Connect the USB device.

Connect the USB device to the USB port on the front panel (section 2).

The **Disc Navigator** appears automatically.

### 3 Start playback.

Use **▲/▼/◀/▶/↵** to select the file, then press **ENTER**.

- Turn the power off before removing the USB device.
- To return to DVD mode, press **DVD/USB** or **▲ OPEN/CLOSE**.

## Copying files on to USB devices

JPEG DivX® WMA MP3

Files stored on the discs can be copied on to the USB device through the player.

### 1 Display the Disc Navigator screen.

Press **MENU**.

- Press **■ STOP** to stop playback if the file is being played.

### 2 Select the file.

Use **▲/▼/◀/▶/↵** to select, then press **▶**.

### 3 Start copying.

Use **◀/▶** to select **Yes**, then press **ENTER**.  
The file copying process will appear on the screen.

### ◆ Notes

- Do not operate any buttons during the file copying process.
- A folder named "PIONEER" is automatically created on the USB device.
- The copied files are stored in this folder.

### Folder or file names are not displayed or properly displayed

☞ 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\_007** or **FL\_001**, and the characters may be garbled.

### Much time is required to play JPEG files.

☞ The player may take longer to display large files.

### Black bars are displayed when playing JPEG files.

☞ Black bars may be displayed along the top and bottom or sides when JPEG files with different aspect ratios are played.

## When a USB device is connected

### USB device is not recognized.

☞ Turn the power off, then disconnect and reconnect the USB device.

☞ 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.

☞ If the USB device is equipped with an AC adapter, use the USB device with the AC adapter connected.

☞ Some USB devices may not be recognized properly.

### File cannot be played.

☞ Copyright-protected files cannot be played.

☞ Files stored on a computer cannot be played.

☞ It may not be able to play some files.

☞ **Folder or file names are not displayed or properly displayed.**

☞ The maximum displayable number of characters for the folder and file names on the **Disc Navigator** is 14.

### Folder or file names are not displayed in alphabetical order.

☞ The order of the folder and file names displayed on the **Disc Navigator** is dependant on the time and date when the folders or files were created on the USB device.

### Much time is required to recognized the USB device.

☞ It may take longer to load data when a large capacity USB device is connected (this could take several minutes).

## Recording audio CD tracks on to USB devices (Except Australian models)

CDiR/RW

- The tracks can be recorded from the audio CD on to the USB device through the player.
- If recording fails, refer to *When a USB device is connected* in section 7.

### 1 Load the audio CD.

- Press **■ STOP** to stop playback if it starts automatically.

### 2 Display the HOME MENU screen.

Press **HOME MENU**.

### 3 Select CD -> USB Rec.

Use **▲/▼/◀/▶/↵** to select, then press **ENTER**.

### 4 Select Select Track.

Use **▲/▼** to select, then press **ENTER** or **▶**.

### 5 Select the type of recording.

Use **▲/▼** to select, then press **ENTER** or **▶**.

**Types of recording**

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

### 6 Select Bitrate (transfer rate).

Use **▲/▼/◀/▶/↵** to select, then press **ENTER**.

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

### 7 Start recording.

Use **▲/▼/◀/▶/↵** to select **Start**, then press **ENTER**.

### ◆ Notes

- The audio signals are converted into MP3 format for output.
- 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.

# 5 Karaoke (DV-3022KV/DV-2022K)

## Using karaoke

- To use the karaoke function, connect the player to the TV or AV amplifier, etc., using analog cables.
- Be sure to adjust the volume to the minimum before connecting the microphone, otherwise it may result in damage to the speakers.

### 1 Adjust the microphone volume to minimum.

Turn **VOLUME** on the front panel counterclockwise (to **MIN**).

### 2 Connect the microphone.

Connect the microphone to the **MIC** terminal on the front panel. (section 2)

### 3 Load the disc and start playback.

- Adjust the volume of the connected TV, etc. **VOLUME** on the front panel only adjusts the volume of the microphone.

### 4 Adjust the microphone volume.

Turn **VOLUME** on the front panel clockwise (towards **MAX**).

### To adjust the key or echo...

- Display the **Karaoke Settings** screen. Press **KARAOKE**.
- Select **Key/Echo**. Use **▲/▼** to select, then press **ENTER** or **▶**.
- Adjust the echo or key. Use **▲/▼** (**KEY #** (high)/ **KEY #** (low) or **◀/▶** (**ECHO -** or **ECHO +**) to adjust within 5 seconds.
  - The key can be adjusted up or down by five units each.

### ◆ Notes

- If the sound may be distorted if the microphone volume is too high.
- If there is howling, move the microphone away from the speakers. Also try lowering the volume and echo level.

## Extra functions for karaoke

## Scoring your karaoke

DVD-Video Video CD

### 1 Display the Karaoke Settings screen.

Press **KARAOKE**.

### 2 Select Karaoke Score.

Use **▲/▼** to select, then press **ENTER** or **▶**.

### 3 Activate karaoke scoring.

Use **▲/▼** to select **On**, then press **ENTER**.

### ◆ Notes

- To cancel scoring, select **Off** on the **Karaoke Score** screen.
- Karaoke scoring can be activated before or during playback.

## Recording your karaoke tracks on to USB devices

You can record your karaoke tracks on to the USB device through the player.

### ◆ Notes

Use this function after adjusting the microphone volume and the echo level using the operations on the left column.

### 1 Display the Karaoke Settings screen during the playback.

Press **KARAOKE** while the Video CD is played.

### 2 Select Karaoke Rec.

Use **▲/▼** to select, then press **ENTER** or **▶**.

### 3 Start Karaoke recording.

Use **◀/▶** to select **Yes**, then press **ENTER**.

- AS soon as you select **Yes**, the track has been playing starts playback from the beginning and recording starts.
- When recording is completed, a folder named "KARAOKE" is automatically created on the USB device. The recorded tracks are stored in this folder.

# 8 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**.

### While the player is in the standby mode...

Press **⏻ STANDBY/ON** while pressing **▶**.  
Use the buttons on the front panel.

The power turns on and the TV system switches as shown below.

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

Types of discs/files	Player setting				
	Format	NTSC	NTSC	PAL	AUTO
DVD-Video DVD VR Video CD DivX®	NTSC	NTSC	PAL	PAL	NTSC
CDiR/RW WMA MP3 JPEG no disc	—	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 where 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
- Places in which there is much dust or cigarette smoke
- Places exposed to soot, steam or heat (kitchens, etc.)

# 6 Changing the settings

The factory default settings are indicated in *italic*.

## Audio Settings parameters

**Sound Retriever (High/Low/Off)**

- The sound of a **WMA** or **MP3** file is played with high sound quality. This is only valid for files with the extension ".wma" or ".mp3".
- 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.

**Audio DRC (High/Medium/Low/Off)**

- This makes loud sounds weaker and weak sounds louder.
- This setting only affects Dolby Digital sound.
- The effect depends on the volume of the connected units.
- Try different settings, and choose the one providing the strongest effect.

**Dialog (High/Medium/Low/Off)**

- Change this setting if the sound of the dialogs is too low.

**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.

## Video Adjust parameters

**Sharpness (Fine/Standard/Soft)**

- 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.

**Brightness, Contrast, Gamma, Hue and Chroma Level** are set to **0** upon purchase.

## Initial Settings parameters

- The player's detailed settings can be changed here.
- Initial Settings** cannot be selected during playback.

## Digital Audio Out settings

**HDMI Out (DV-3022KV/DV-3022V)**

- Select the audio signals to be output from the **HDMI OUT** terminal (**LPCM (2CH)/Auto/Off**) according to the connected HDMI-compatible device.

**Digital Out**

- Select whether to output digital audio signals (**On**) from the **COAXIAL DIGITAL AUDIO OUT** terminals or not (**Off**).

**Dolby Digital Out**

- Select whether to output Dolby Digital audio signals (**Dolby Digital**) or to convert them into linear PCM signals (**Dolby Digital > PCM**), according to the connected unit.

### DTS Out

- Select whether to output DTS audio signals (**DTS**) or not (**Off**), according to the connected unit.

### 96 kHz PCM Out

- Select whether to output 96 kHz audio signals (**96kHz**) or to convert them into linear PCM signals (**96kHz > 48kHz**), according to the connected unit.

### MPEG Out

- Select whether to output MPEG audio signals (**MPEG**) or to convert them into linear PCM signals (**MPEG > PCM**), according to the connected unit.

## Video Output settings

**TV Screen**

- Restrict DVD's display format (**4:3 (Letter Box)/4:3 (Pan & Scan)/16:9 (Wide)/16:9 (Compressed)**), according to the connected TV.

The player's factory default settings are set as below.

DV-3022K/DV-3022V ..... **16.9 (Wide)**  
DV-2022K/DV-2022 ..... **4.3 (Letter Box)**

**16:9(Compressed)** can only be set on DV-3022KV and DV-3022V.

### Component Out

- Change the output format of the video signals output from the **COMPONENT VIDEO OUT** terminals (**Progressive/Interlace**).

### HDMI Resolution (DV-3022KV/DV-3022V)

- Change the resolution of the video signals output from the **HDMI OUT** terminals (**720x480i/720x576i/720x480p/720x576p/1280x720p/1920x1080i/1920x1080p**).

### HDMI Color (DV-3022KV/DV-3022V)

- Change the video signals output from the **HDMI OUT** terminal (**Full range RGB/RGB/Component**).

### Deep Color (DV-3022KV/DV-3022V)

- Select **Auto** when the connected TV or monitor is compatible with Deep Color (**Auto/Off**).

## Language settings

**Audio Language**

- Change the language when listening to the sound of DVD-Video discs (**English**/available languages/**Other Language**).

### Subtitle Language

- Change the language of the subtitles displayed for DVD-Video discs (**English**/available languages/**Other Language**).

### DVD Menu Lang.

- Change the language used for the menu displays of DVD-Video discs (**w/Subtitle Lang.**/available languages/**Other Language**).

## About trademarks

# HDMI

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

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

## Language Code Table

Language names (codes) and input codes	Language names (codes) and input codes	Language names (codes) and input codes
Japanese (ja), 1001	Bhutanian (dz), 0426	Kirgiz (ky), 1125
English (en), 0514	Esparento (eo), 0515	Latin (la), 1201
French (fr), 0618	Estonian (et), 0520	Lingala (ln), 1214
German (de), 0405	Basque (eu), 0521	Laotian (lo), 1215
Italian (it), 0520	Persian (fa), 0601	Lithuanian (lt), 1220
Spanish (es), 0519	Finnish (fi), 0609	Latvian (lv), 1222
Chinese (zh), 2608	Fiji (fj), 0610	Malagasy (mg), 1307
Dutch (nl), 1412	Faroeese (fo), 0615	Maori (mi), 1309
Portuguese (pt), 1620	Frison (fy), 0625	Macedonian (mk), 1311
Swedish (sv), 1922	Irish (ga), 0701	Malayalam (ml), 1312
Russian (ru), 1825	Scots-Gaelic (gd), 0704	Mongolian (mn), 1314
Korean (kr), 1121	Galician (gl), 0712	Moldavian (mo), 1315
Greek (el), 0512	Guarani (gn), 0714	Marathi (mr), 1318
Afar (aa), 0101	Gujarati (gu), 0721	Malay (ms), 1319
Abkhazian (ab), 0102	Hausa (ha), 0801	Maltese (mt), 1320
Afrikaans (af), 0106	Hindi (hi), 0809	Burmese (my), 1325
Ambianic (am), 0113	Croatian (hr), 0818	Nauru (na), 1401
Arabic (ar), 0116	Hungarian (hu), 0821	Nepali (ne), 1405
Assamese (as),		

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