

**Pioneer** *sound.vision.soul*

DVD PLAYER

**DV-S733A**

**DV-47A**  
**ELITE**



Operating Instructions

# 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.

# IMPORTANT SAFETY INSTRUCTIONS

H003 En

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

**RETAIN INSTRUCTIONS** — The safety and operating instructions should be retained for future reference.

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

**FOLLOW INSTRUCTIONS** — All operating and use instructions should be followed.

**CLEANING** — Unplug this product from the wall outlet before cleaning. The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzene, insecticides or other volatile liquids since they may corrode the cabinet.

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

**WATER AND MOISTURE** — Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

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

**CART** — A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



**VENTILATION** — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

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

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

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

## GROUNDING OR POLARIZATION

• If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

• If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

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

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

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

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

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

**OBJECT AND LIQUID ENTRY** — Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

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

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

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

**REPLACEMENT PARTS** — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

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

**WALL OR CEILING MOUNTING** — The product should not be mounted to a wall or ceiling.

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

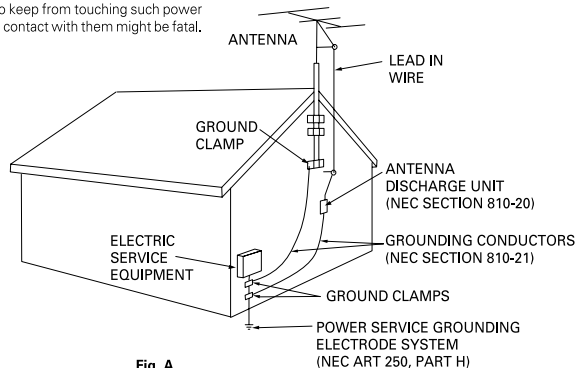


Fig. A

NEC — NATIONAL ELECTRICAL CODE

**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.

H013 En

**WARNING:** THE APPARATUS IS NOT WATERPROOFS, TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE AND DO NOT PUT ANY WATER SOURCE NEAR THIS APPARATUS, SUCH AS VASE, FLOWER POT, COSMETICS CONTAINER AND MEDICINE BOTTLE ETC.

H001AEn

[For U.S. model]

## IMPORTANT NOTICE H006AEn

The serial number for this equipment is located in the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

[For Canadian model]

**CAUTION:** TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**ATTENTION:** POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

H007A2L

[For Canadian model]

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

[Pour le modèle Canadien]

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

H009 2L

**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.

H010 En

## Information to User

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

H011 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.

H012 En

## CAUTION:

THE STANDBY/ON BUTTON IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION. THEREFORE INSTALL THE UNIT SUITABLE PLACES EASY TO DISCONNECT THE MAINS PLUG IN CASE OF THE ACCIDENT. THE MAINS PLUG OF UNIT SHOULD BE UNPLUGGED FROM THE WALL SOCKET WHEN LEFT UNUSED FOR A LONG PERIOD OF TIME.

H017BEn

## CAUTION

This product contains a laser diode of higher class than 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: rear of the unit



H018A\_En

**WARNING:** Slot and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, to prevent fire hazard, the openings should never be blocked and covered with items, such as newspapers, tablecloths, curtains, etc. Also do not put the apparatus on the thick carpet, bed, sofa, or fabric having a thick pile.

H040 En

**WARNING:** BEFORE PLUGGING IN THE UNIT 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., 230V OR 120V) WRITTEN ON THE REAR PANEL.

H041 En

**WARNING:** NO NAKED FLAME SOURCES, SUCH AS LIGHTED CANDLE, SHOULD BE PLACED ON THE APPARATUS. IF NAKED FLAME SOURCES ACCIDENTALLY FALL DOWN, FIRE SPREAD OVER THE APPARATUS THEN MAY CAUSE FIRE.

H044 En

### Operating Environment H045 En

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

Do not install in the following locations

- Location exposed to direct sunlight or strong artificial light
- Location exposed to high humidity, or poorly ventilated location

### CONGRATULATIONS ON YOUR PURCHASE OF THIS FINE PIONEER PRODUCT.

Pioneer is on the leading edge of DVD research for consumer products and this unit incorporates the latest technological developments.

We are sure you will be fully satisfied with the DVD player.

Thank you for your support.

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.

- This player is not suitable for commercial use.

[For U.S. model]



ENERGY STAR® and the ENERGY STAR certification mark are registered US marks. K001A\_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

On the bonnet of the unit.

**CAUTION** : VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.  
**VORSICHT** : SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENNABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN!  
**ADVARSEL** : SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UDGÅ UDSÆTTELSE FOR STRÅLING.  
**WARNING** : SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRÄKTA EJ STRÅLEN.  
**VARO!** : AVATTAESSA ALTISTUT NÄKYVÄ JA NÄKYMÄTTÖMÄLLE LASERSATEIL YLLE. ÄLÄ KÄTSD SÄTEESSEN.  
**CUIDADO** : RADIACION LASER VISIBLE E INVISIBLE AL ESTAR ABIERTO. EVITAR EXPOSICIÓN AL RAYO. VRW1872

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

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## Features

### 525 line digital progressive-scan component video output

Compared to standard interlaced video, progressive scan effectively doubles the amount of video information fed to your TV or monitor. The result is a stable, flicker-free image. (Check your TV/monitor for compatibility with this feature.)

For the very highest picture quality, try watching a movie on DVD-Video on a progressive-scan compatible TV.

### What is Super VCD? (DV-S733A only)

Logos:  

This player supports the IEC's Super VCD standard. Compared to the Video CD standard, Super VCD offers superior picture quality, and allows two stereo soundtracks to be recorded. Super VCD also supports the widescreen size.

### Superlative audio performance with DVD-Audio, Dolby\*<sup>1</sup> Digital and DTS\*<sup>2</sup> software

Logos:  

The DV-47A/DV-S733A delivers breathtaking sound quality with Dolby Digital and DTS discs.

### TruSurround\*<sup>3</sup>

Logo: 

When used with stereo sources, TruSurround creates a realistic surround-sound effect using just two speakers (see page 42).

### MP3 compatibility

This player is compatible with CD-R, CD-RW and CD-ROM discs that contain MP3 audio tracks (see pages 9, 35).

### Video Adjust

This new type of DNR (Digital Noise Reduction) for encoding video enables you to adjust the video settings on a more detailed and exact level. There are three possible settings to choose from. These include: TV (CRT), PDP, and Professional. This technology can remember which setting you've chosen and employ it at the proper time. (see page 49).

### Legato PRO (Legato Link Conversion PRO)

The Legato PRO digital filter restores some of the high-frequency information lost in the CD and DVD recording and mastering process by upsampling from 44.1 kHz to 176.4kHz for CD and from 48kHz to 192kHz for DVD.

Legato PRO has four settings, including Standard and three effect settings. You can also switch it off. (see page 45).

### Hi-Bit


Hi-Bit extends the dynamic range of the main front speakers by effectively increasing the bit depth from 16-20 bit to 24 bit. This allows the player to reveal greater detail in low level audio (see page 45).

### High quality 24-bit/192kHz DAC

The high specification 24-bit/192kHz DAC delivers dynamic, smooth and expansive analog sound from CDs and DVDs.

### Graphical Setup Navigator

Setting up your DVD player is easy using the graphical Setup Navigator. Answer the questions that appear on-screen and the Setup Navigator makes the necessary audio, video and language settings for you (see page 17).

- \*1 Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories. All rights reserved.
- \*2 “DTS” and “DTS Digital Surround” are registered trademarks of Digital Theater Systems, Inc.
- \*3 TruSurround and the  symbol are trademarks of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.

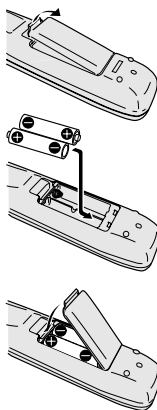
## What’s in the box

Thank you for buying this Pioneer product. Please confirm that the following accessories are in the box when you open it.

- Remote control
- AA/R6P dry cell batteries x2
- Stereo audio cable (red/white)
- Video cable (yellow)
- Power cable
- These operating instructions

## Putting the batteries in the remote control

- 1 Open the battery compartment cover on the back of the remote control.
- 2 Insert two AA/R6P batteries into the battery compartment following the indications ( $\oplus$ ,  $\ominus$ ) inside the compartment.
- 3 Close the cover.



### Note

Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

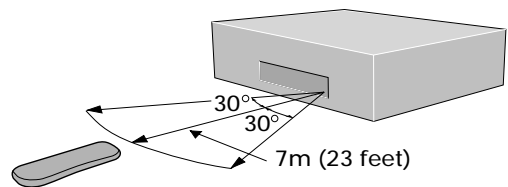
- Don’t mix new and old batteries together.
- Don’t use different kinds of battery together—although they may look similar, different batteries may have different voltages.
- Make sure that the plus and minus ends of each battery match the indications in the battery compartment.
- Remove batteries from equipment that isn’t going to be used for a month or more.

When disposing of used batteries, please comply with governmental regulations or environmental public instruction’s rules that apply in your country or area. H048 En

## Using the remote control

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote and the remote sensor on the unit.
- Use within the operating range and angle, as shown.




- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the unit’s remote sensor.
- Remote controllers for different devices can interfere with each other. Avoid using remotes for other equipment located close to this unit.
- Replace the batteries when you notice a fall off in the operating range of the remote.

### Discs compatible with this player


Any disc that displays one of the following logos should play in this player. Other formats, including DVD-RAM, DVD-ROM, CD-ROM (except those that contain MP3 files) and Photo CD will not play.

#### DVD Video compatibility:

- Logos: 
- Single-sided or double-sided discs
- Single layer or dual layer discs
- Dolby Digital, DTS, MPEG or Linear PCM digital audio
- MPEG-2 digital video

Discs are generally divided into one or more *titles*. Titles may be further subdivided into *chapters*.


#### DVD Audio compatibility:

- Logos: 
- Single sided discs
- Single layer or dual layer discs
- Linear or packed PCM digital audio
- Some discs may contain MPEG-2 video, and Dolby Digital, DTS or MPEG digital audio

Discs are generally divided into one or more *groups*. Groups may be further subdivided into *tracks*.


#### DVD-R compatibility (DV-S733A only):

This unit can play DVD-R discs. Please note the following points when using these discs:

- Logo: 
- This unit can play DVD-R discs recorded as DVD video format.


#### DVD-RW compatibility (DV-S733A only):

This unit can play DVD-RW discs. Please note the following points when using these discs:

- Logo: 
- This unit can play DVD-RW discs recorded as DVD video format or DVD video recording format.

- DVD-RW discs that were recorded with copy-once only permission cannot be played. The message, 'COPY PROTECT PROGRAM, UNPLAYABLE' appears in the display during these parts of the disc.
- When playing a DVD-RW disc that was edited on a DVD recorder, the screen may go momentarily black at the edited point.
- When playing a DVD-RW disc that was edited on a DVD recorder, you may see scenes from just before the edited point.
- Up to 20 characters of a title name can be displayed.


#### Audio CD compatibility:

- Logos: 
- 12cm (5in.) or 8cm (3in.) discs
- Linear PCM digital audio
- CD-Audio, CD-R\* and CD-RW\* formats

CDs are divided into *tracks*.


\*This unit can play CD-R and CD-RW discs recorded in CD Audio or Video CD format, or with MP3 audio files.

#### Video CD compatibility:

- Logo: 
- 12cm (5in.) or 8cm (3in.) discs
- MPEG-1 digital audio
- MPEG-1 digital video


Video CDs are divided into *tracks*.

#### Super VCD compatibility:

- Logo: 
- 12cm (5in.) or 8cm (3in.) discs
- MPEG-1 digital audio
- MPEG-2 digital video

Super VCDs are divided into *tracks*.

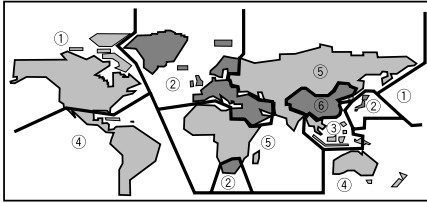
#### SACD compatibility:

- Logo: 
- Single layer, dual layer or Hybrid layer
- 12cm (5in.) or 8cm (3in.) discs
- Digital audio (DSD)

SACDs are divided into *tracks*.



## DVD Video regions



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

## MP3 compatibility information

- The CD-ROM must be ISO 9660 compatible.
- Files should be MPEG1 Audio Layer 3 format, 44.1 or 48kHz. Incompatible files will not play and “UNPLAYABLE MP3 FORMAT” will be displayed.
- Not compatible with some variable bit-rate (VBR) files.
- VBR files may not show play times correctly.
- This player only plays tracks that are named with the file extension “.mp3” or “.MP3”.
- This player is not compatible with multi-session discs. If you try and play a multi-session disc, only the first session will be played.
- Use CD-R or CD-RW media for recording your MP3 files. The disc must be finalized in order to play.
- Audio encoded at 128Kbps should sound close to regular audio CD quality. Although this player will play lower bit-rate MP3 tracks, the sound quality becomes noticeably worse at lower bit-rates.
- Only the first 8 characters of folder and track names (excluding the “.mp3” extension) are displayed.
- This player can recognize a maximum of 250 folders and 250 tracks. Discs containing more than 250 folders or tracks will play, but only the first 250 folders/tracks.

## Caution!

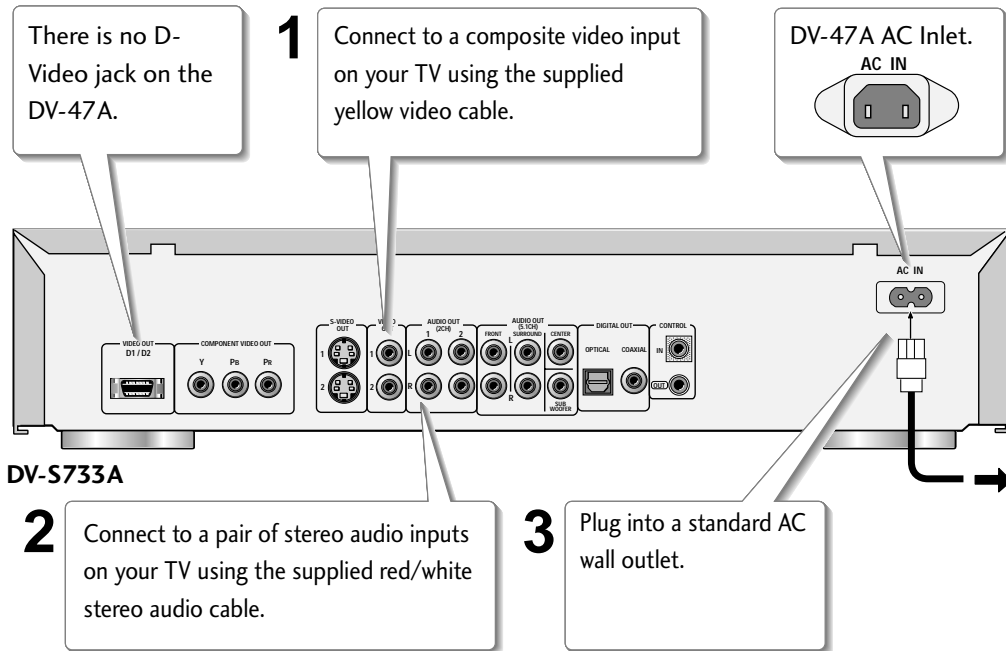
- DVD-R/RW and CD-R/RW discs recorded using a personal computer or a DVD or CD recorder may not play if the disc is damaged or dirty, or if there is dirt or condensation on the player's lens.
- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- Unfinalized DVD-R/RW discs cannot be played.
- Unfinalized CD-R/RW discs can be played, but not all time information (playing time, etc.) will be displayed.
- For more information on using DVD-R/RW and CD-R/RW discs, see *Handling discs* starting on **page 58**.

### Easy Setup

This easy setup is the minimum set of connections you need to start watching DVD video discs. Both sound and picture are fed directly to your TV using the supplied audio and video cables. For other possible connections, see pages 11 and 12.

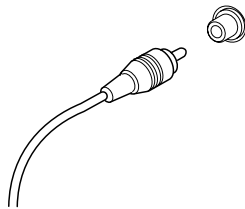
#### Important

Before making or changing any rear panel connections, make sure that all components are switched off and unplugged from the wall outlet.



### Connecting audio and video cables

Be sure to insert each plug fully for the best connection. The plugs and jacks are colour-coded to make connection easier.



### Connecting control cables

Use a stereo mini-plug cable (not supplied) to connect the **CONTROL OUT** of your Pioneer amplifier/receiver to the **CONTROL IN** of this unit. This allows you to operate this unit with the amplifier/receiver's remote control. See the instruction manual that came with your amplifier/receiver for more detailed instructions. Add more components to the chain by connecting the **CONTROL OUT** of this unit to the **CONTROL IN** of other Pioneer components.

#### Important

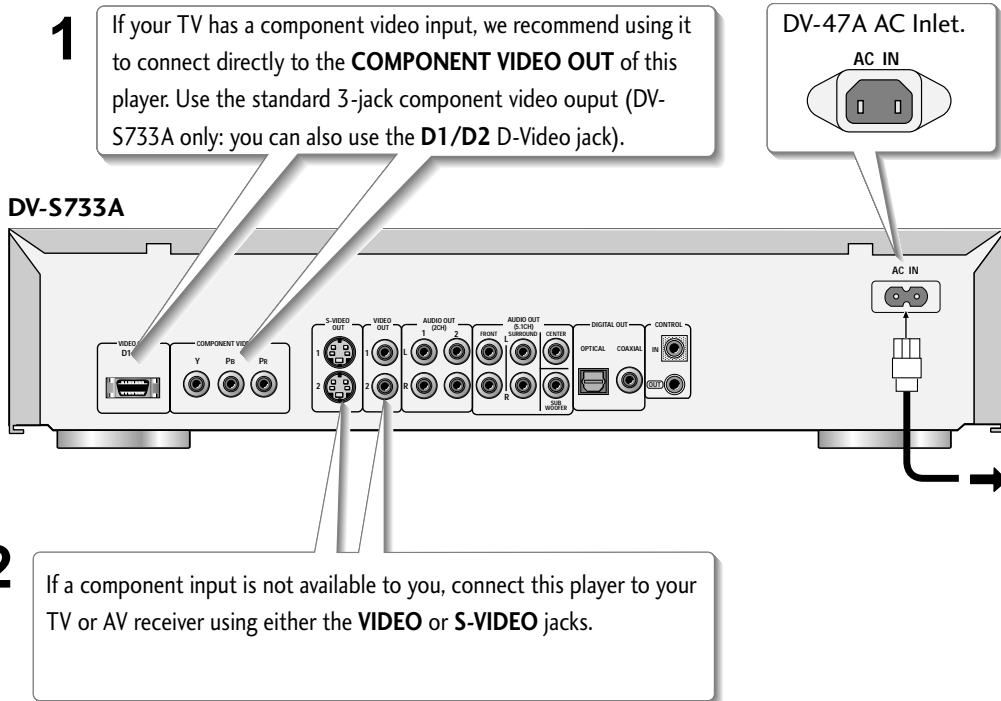
- In order to properly ground this player, you must connect at least one cable (not including an optical cable) in addition to the control cable.
- If the **CONTROL IN** jack on the player's rear panel is connected to the **CONTROL OUT** jack of another Pioneer component, point the remote control at the other component to operate the player.

## Home theater video connections

This player outputs video in a number of different ways. Choose the one most suitable for your system using the guide below.

### Important

Before making or changing any rear panel connections, make sure that all components are switched off and unplugged from the wall outlet.



## Connecting D Video and S-Video cables

D Video (DV-S733A only) and S-Video cables will only plug in one way, so make sure the plug is correctly lined up with the jack before inserting. Be sure to fully insert for a good connection.

### S-Video or composite video?

S-Video should give a better picture, so if you have an S-Video input, use it. S-Video cables are available from any good audio/visual dealer.

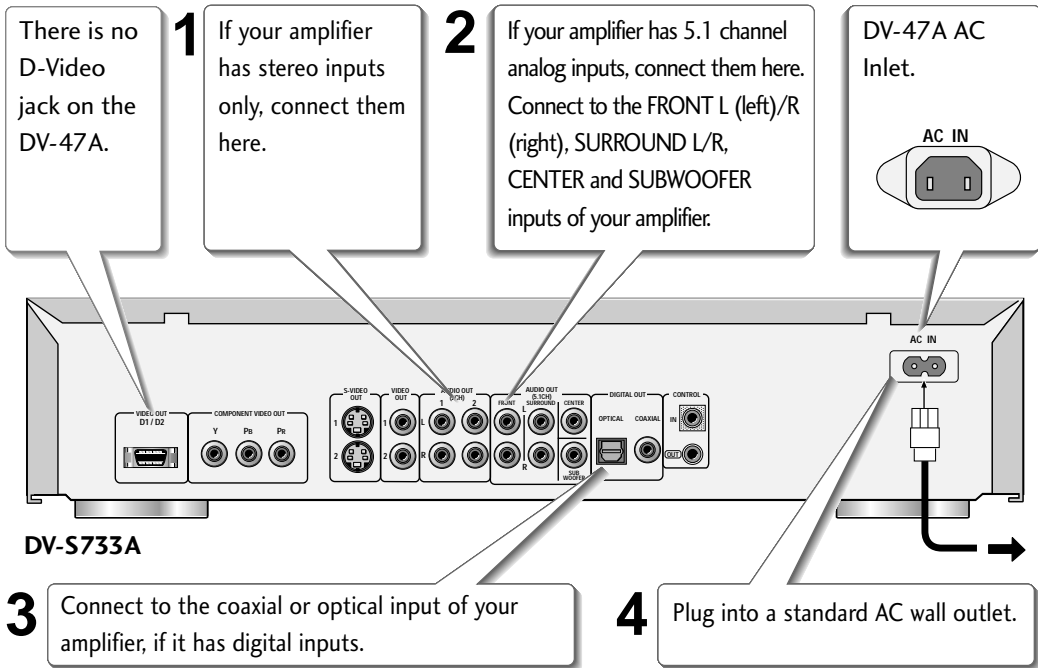
## 2 Connecting Up

### Home theater audio connections

This player outputs multi-channel audio in both analog and digital form. Check the manual for your amplifier/receiver to see what equipment it is compatible with (especially which digital formats—Dolby Digital, DTS, etc.—it can decode).

#### Important

Before making or changing any rear panel connections, make sure that all components are switched off and unplugged from the wall outlet.

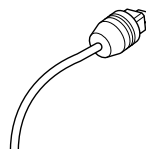


### Connecting analog audio cables

Be sure to fully insert each plug for the best connection. The plugs and jacks are colour-coded to make connection easier.

### Connecting optical cables

Optical interconnects only plug in one way, so make sure the plug is correctly lined up with the jack before inserting. When inserting the plug, the protective shutter will open and you should hear it click into position when fully inserted. Be careful that you do not force the plug, because this could result in damage to the protective shutter, the cable, or the unit itself.



### Connecting coaxial cables

Use an interconnect with a pin-type (also called RCA or phono) plug on each end to connect up digital coaxial-type jacks. Make sure that the plug is pushed fully home.

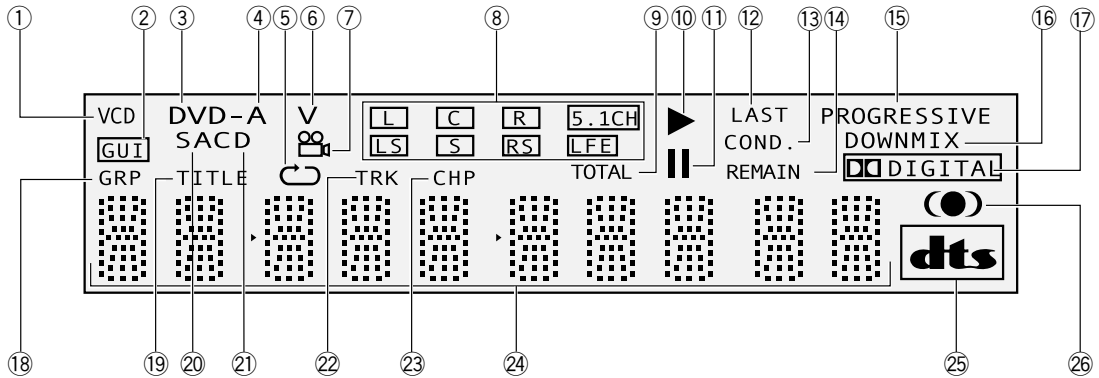


#### Note

If you listen to multichannel DVD-Audio through one of the digital outputs, it will be downmixed to stereo. Also, high sampling rate DVD-Audio (192kHz or 176.4kHz) will be downsampled to 96kHz, 88.2kHz, 48kHz or 44.1 kHz, depending on the disc. Multi channel and high sampling rate DVD-Audio is only available through the analog outputs.

Some DVD-Audio and all SACD audio is output only through the analog outputs.

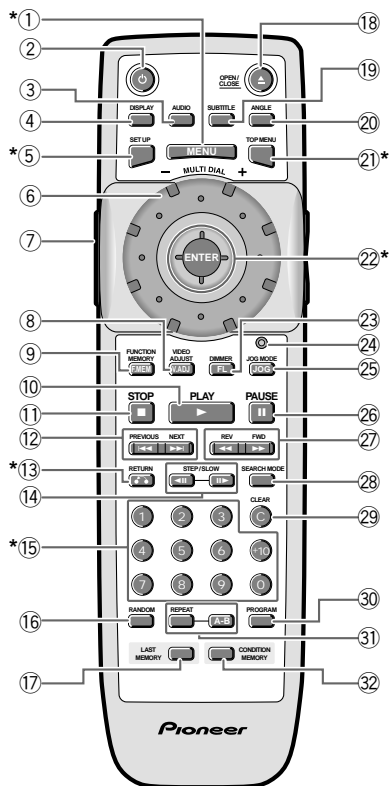
## Display



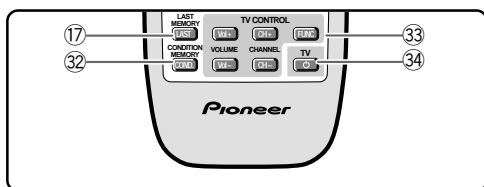
- 1 **VCD** – Lights when a Super VCD/Video CD is loaded
- 2 **GUI** – Lights when an on-screen menu is being displayed
- 3 **DVD** – Lights when a DVD is loaded
- 4 **DVD-A** – Lights when a DVD-Audio disc is playing
- 5 Lights during repeat play
- 6 **V** – Lights during playback of the video part of DVD discs
- 7 Lights during a multi-angle section of a DVD-Video disc
- 8 **L, C, R, LS, S, RS, LFE** – show which channels are recorded on the disc playing
- 9 **5.1CH** – Lights when the audio output is set to 5.1 channel
- 10 **TOTAL** – Indicates that the time shown in the character display is the total playing time of the disc
- 11 **▶** – Lights when a disc is playing
- 12 **||** – Lights when a disc is paused
- 13 **COND.** – Lights when the disc has had preferences set (see **page 32**)
- 14 **REMAIN** – Indicates that the time shown in the character display is the remaining playing time of the disc
- 15 **PROGRESSIVE** – Lights when unit is outputting 525 line progressive scan (non-interlaced) video.
- 16 **DOWNMIX** – Lights when multi-channel DVD-Audio, Dolby Digital, DTS or MPEG audio is downmixed, for example to two channel stereo
- 17 **DIGITAL** – Lights when a disc with Dolby Digital audio is playing
- 18 **GRP** – Indicates that the number below in the character display is a DVD-Audio group number
- 19 **TITLE** – Indicates that the number below in the character display is a DVD-Video title number
- 20 **SACD** – Lights when a Super Audio CD (SACD) is loaded
- 21 **CD** – Lights when a CD is loaded
- 22 **TRK** – Indicates that the number below in the character display is a DVD-Audio, CD, Super VCD/Video CD or MP3 track number
- 23 **CHP** – Indicates that the number below in the character display is a DVD-Video chapter number
- 24 **Character display**
- 25 Lights when a disc with DTS audio is playing
- 26 Lights when playing a disc with TruSurround switched on

## Remote control

### DV-S733A



### DV-47A



- 1 **MENU** – page 22
- 2 **⏻** – switches player on or into standby.
- 3 **AUDIO** – page 26
- 4 **DISPLAY** – pages 34, 36
- 5 **SETUP** – pages 17, 39
- 6 **MULTI DIAL** – page 24
- 7 **LIGHTING** – press to illuminate buttons 8, 9, 10, 11, 23, 25, 26
- 8 **V.ADJ** – Video adjust (page 49)
- 9 **F.MEM** – Function memory (page 33)
- 10 **▶** – Play
- 11 **■** – Stop
- 12 **⏮ ⏭** – Skip
- 13 **↶** – Return
- 14 **⏪ ⏩** – Frame advance/slow motion
- 15 **Number buttons** – pages 21, 22

- 16 **RANDOM** – pages 29, 36
- 17 **LAST MEMORY** – page 31
- 18 **▲** – Disc tray open/close
- 19 **SUBTITLE** – page 25
- 20 **ANGLE** – page 25
- 21 **TOP MENU** – page 22
- 22 **Joystick / ENTER button** – page 22
- 23 **FL** – Press to change the display brightness
- 24 **Jog indicator** – lights when multi dial is in jog mode (page 24)
- 25 **JOG** – page 24
- 26 **⏸** – Pause
- 27 **⏮ ⏭** – Scan
- 28 **SEARCH MODE** – page 23
- 29 **C** – Clear
- 30 **PROGRAM** – pages 27, 38
- 31 **REPEAT** — A-B – page 30
- 32 **CONDITION MEMORY** – page 32
- 33 **TV CONTROL buttons**  
**VOLUME** – Use to adjust the volume.  
**CHANNEL** – Use to select TV channel.  
**FUNC** – Press **FUNC** to select the TV for remote control operation.
- 34 **⏻ TV button** – Press **⏻ TV** to turn the TV's power on or put in standby.

### Setting up the Remote Control to TV (DV-47A only)

This must be set to use buttons 33 and 34.

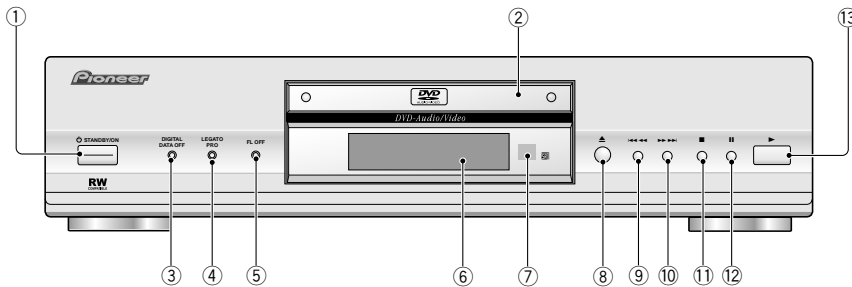
1. **Input the Manufacturer code.**  
 While holding down the **CLEAR** button, input the two digit code from the table next page that corresponds to the make of your TV.  
 For example, If you have a Pioneer TV, press and hold **CLEAR**, then press **0, 0** on the remote control.
2. **Confirm that the TV is responding to the programmed code.**  
 On the remote, press the **⏻ TV** button. If the TV switches on (or into standby if it was on previously), then you have the correct code.  
 If nothing happens when you press the **⏻ TV** button, start again from step 1 using a different code.  
 • Some Manufacturers have several codes. Try each one until you find the one that works.

## Preset Code List

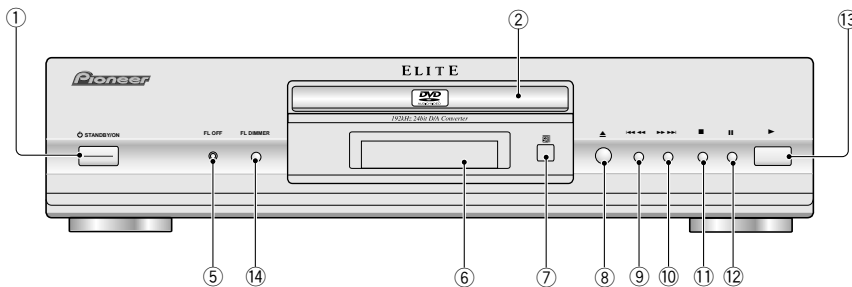
Code	Manufacturer	Code	Manufacturer	Code	Manufacturer
00	PIONEER 1	13	JVC 1	26	TOSHIBA 2
01	RCA 1	14	SANYO 2	27	SHARP 2
02	SHARP 3	15	RCA 2	28	GE 2
03	ZENITH 1	16	RCA 3	29	MAGNAVOX 2
04	SONY	17	RCA 4	30	TOSHIBA 3
05	TOSHIBA 1	18	RCA 5	31	HITACHI 4
06	HITACHI 1	19	SHARP 1	32	JVC 2
07	PHILIPS	20	ZENITH 2	33	FUJITSU
08	PANASONIC 1	21	SANYO 1	34	PIONEER 2
09	MITSUBISHI	22	PANASONIC 2	35	GRANDIENTE
10	GOLDSTAR 1	23	GOLDSTAR 2		
11	GE 1	24	HITACHI 2		
12	MAGNAVOX 1	25	HITACHI 3		

## Front panel

### DV-S733A



### DV-47A



- 1 **⏻/⏻** **STANDBY/ON**
- 2 **Disc tray**
- 3 **DIGITAL DATA OFF indicator** – Switches the digital output on/off. When switched off, the indicator lights (see **page 42**)
- 4 **LEGATO PRO indicator** – **page 45**
- 5 **FL OFF indicator** – Lights when the display is switched off using the **FL DIMMER** button
- 6 **Display** – **page 13**
- 7 **Remote control sensor**
- 8 **▲** – Disc tray open/close
- 9 **◀◀◀** – Reverse scan/skip
- 10 **▶▶▶** – Forward scan/skip
- 11 **■** – Stop
- 12 **⏸** – Pause
- 13 **▶** – Play
- 14 **FL DIMMER** – Press to change the display brightness

## Setting the TV System (except for Taiwanese model)

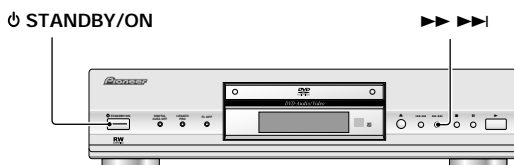
The default setting of this player is **AUTO**, and unless you notice that the picture is distorted when playing some discs, you should leave it set to **AUTO**.

If you experience picture distortion with some discs, set the TV system to match your country or region's system. Doing this, however, may restrict the kinds of disc you can watch. The table below shows what kinds of disc are compatible with each setting (**AUTO**, **PAL** and **NTSC**).

Disc		Output format		
Type	Format	Position of TV SYSTEM switch		
		NTSC	PAL	AUTO
DVD	NTSC	NTSC	MOD. PAL	NTSC
	PAL	——	PAL	PAL
Video CD	NTSC	NTSC	MOD. PAL	NTSC
	PAL	NTSC	PAL	PAL
Super VCD	NTSC	NTSC	MOD. PAL	NTSC
	PAL	——	PAL	PAL
SACD		NTSC	PAL	NTSC or PAL
CD, No disc		NTSC	PAL	NTSC or PAL

### About MOD. (Modulation) PAL

- **SHRINK**  
Most models of the newly developed countdown PAL TV system detect 50 Hz (PAL)/60 Hz (NTSC) and automatically switch vertical amplitude, resulting in a display without vertical shrinkage.
- If your PAL TV does not have a V-Hold control, you may not be able to view NTSC disc because the picture may roll. If the TV has a V-Hold control, adjust it until the picture stops rolling. On some TVs, the picture may shrink vertically, leaving black bands at the top and bottom of the screen. This is not a malfunction; it is caused by the NTSC⇔PAL conversion.



### Note

This front panel is for the DV-S733A. The buttons are the same for the DV-47A.

- 1 Switch the player into standby.
- 2 Hold down **▶▶▶▶** then press **⏻STANDBY/ON** to switch the TV system.

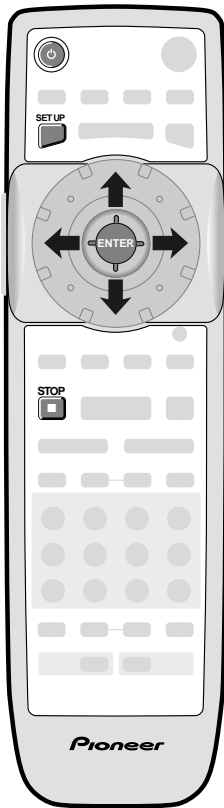
The TV system changes as follows:

- AUTO ⇔ NTSC
- NTSC ⇔ PAL
- PAL ⇔ AUTO

The display indicates the new setting.

Note that you have to switch the player into standby before each change.





### Note

This remote is for the DV-S733A. The buttons are the same for the DV-47A.

## Using the Setup Navigator

Before playing any discs, we strongly recommend using the Setup Navigator. This makes all the basic DVD player settings for you.

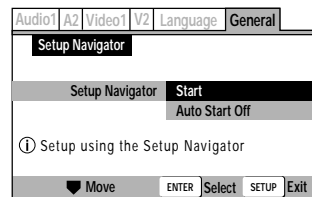
### 1 Press **STANDBY/ON** to switch on.

Also turn on your TV and make sure that it is set to the correct video input.

- The **STANDBY/ON** button on the remote switches the player between standby and on.
- If a disc that's already loaded starts to play, press **STOP** to stop it.

### 2 Press **SETUP**.

The Setup Navigator on-screen display (OSD) appears:



Navigate all of the following OSDs using these controls:

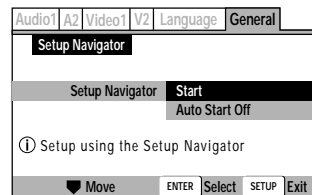
**Joystick up/down** – cursor up/down

**ENTER** – select the highlighted menu option

**Joystick left** – go back to the previous question.

The control possibilities for the current OSD are shown at the bottom of each screen.

### 3 Select 'Start'.



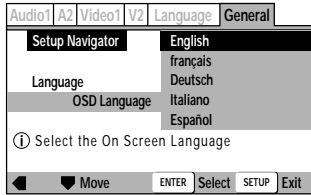
### Remember

Press **ENTER** to select an option.

- If you decide you don't want to use the Setup Navigator, select **Auto Start Off** here instead.

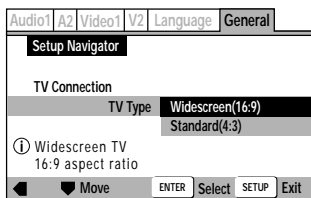
# 4 Getting Started

## 4 Choose an OSD menu language.



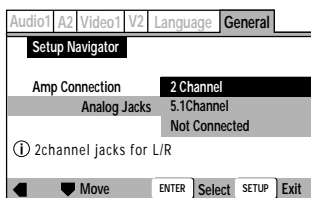
- Taiwanese model:  
English  
汉语

## 5 Select the type of TV you have.



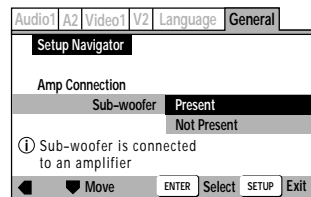
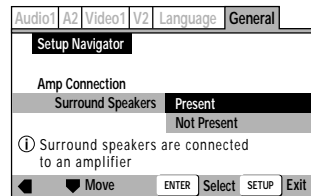
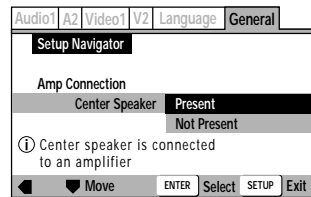
- See *Aspect ratio* in the *Glossary* on **page 60** if you're unsure of the difference between widescreen and standard TVs.

## 6 Select the type of analog audio connections you made to your amplifier/receiver.

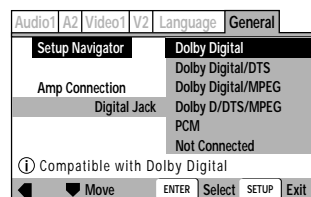


- If you connected the audio output directly to your TV following the *Easy setup* on **page 10**, choose **2 Channel**.

## 7 If you selected 5.1 Channel audio connections in step 6, confirm which speakers are connected to your amplifier.

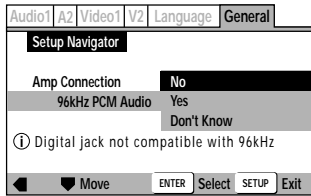


## 8 Confirm the digital audio formats your amplifier is compatible with (if you made a digital connection).



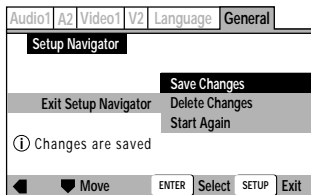
- All options (except **Not Connected**) assume PCM compatibility. The PCM option means only compatible with PCM.
- More information on these audio formats is available in the *Glossary* on **page 60**.
- Consult the manual that came with your amplifier if you're unsure about compatibility with any of these formats.

## 9 Confirm whether your amplifier is compatible with 96kHz audio.



- You won't see this screen if you selected **Not Connected** in step 8.
- Selecting **Don't Know** has the same effect as selecting **No**: any 96kHz audio will be downsampled to 48kHz. This is a more compatible sampling frequency. See *Sampling frequency* in the *Glossary* on **page 61** for more on this.

## 10 Select 'Save Changes' to make the settings.

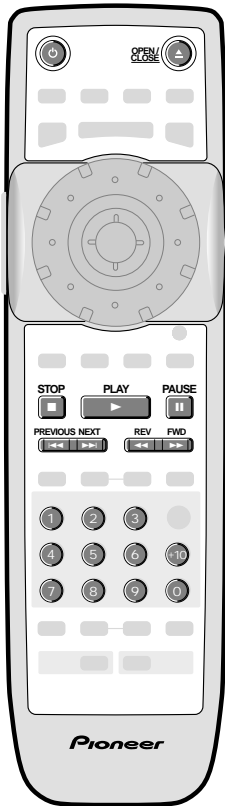


## 11 Press **SETUP** to exit.

- You may not need to do this step, depending on when you use the Setup Navigator.

Congratulations, set up is complete!

If you want to use the Setup Navigator again at any time, it is available from the **General** menu. Also, each individual setting can be changed using the appropriate menu option—chapter 7 explains all menu options in detail.



## Playing discs

The basic playback controls for playing discs are covered here. Further functions are detailed in the next chapter.

### Note

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

#### 1 Switch the player on.

If you're playing a DVD or Super VCD/Video CD, also turn on your TV and make sure that it is set to the correct video input.

#### 2 Press to open the disc tray.

#### 3 Load a disc.

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

#### 4 Press to start playback.

If you're playing a DVD or Super VCD/Video CD, a menu may appear. See [page 22](#) for how to navigate these.

### Note

This remote is for the DV-S733A. The buttons are the same for the DV-47A.

## Basic playback controls

Button	What it does
▶	Starts playback. DVD and Super VCD/Video CD: if the display shows <b>RESUME</b> , playback starts from the resume point.
⏸	Pauses a disc that's playing, or restarts a paused disc.
■	Stops playback. DVD and Super VCD/Video CD: Display shows <b>RESUME</b> . Press ■ again to cancel the resume function.
◀◀	1. Press & hold for fast reverse scanning. Release to resume normal playback. 2. Press once to start reverse scanning. Press again to increase the scan speed. (SACD, CD and Super VCD/Video CD have two scan speeds; DVD has three.) Press ▶ to resume normal playback.
▶▶	1. Press & hold for fast forward scanning. Release to resume normal playback. 2. Press once to start forward scanning. Press again to increase the scan speed. (SACD, CD and Super VCD/Video CD have two scan speeds; DVD has three.) Press ▶ to resume normal playback.
◀◀◀	Skips to the start of the current track or chapter, then to previous tracks/chapters.
▶▶▶	Skips to the next track or chapter.
<b>Numbers</b>	1. If the disc is stopped, playback starts from the selected title/group (DVD) or track number (SACD/CD/Super VCD/Video CD). 2. If the disc is playing, playback jumps to the start of the selected chapter or track (within the current group for DVD-Audio).
<b>+10</b>	Selects titles/groups/chapters/tracks 10 and over. (For example, for 24, press +10, +10, 4.)



## DVD-Video, DVD-R/RW and Super VCD/Video CD only:



Button	What it does
⏪	1. While a disc is playing, press and hold to start slow-motion forward scanning. Press again to increase the scanning speed from 1/16, 1/8, 1/4 to 1/2 normal play speed. Press ▶ to resume normal playback. 2. While a disc is playing, press once to pause; advance a single frame with each subsequent press. Press ▶ to resume normal playback. For DVD-Audio discs featuring browsable pictures ( <b>page 23</b> ), press to view the next picture.

## DVD-Video and DVD-R/RW only:

Button	What it does
⏩	1. While a disc is playing, press and hold to start slow-motion reverse scanning. Press again to increase the scanning speed from 1/16, 1/8, 1/4 to 1/2 normal play speed. Press ▶ to resume normal playback. 2. While a disc is playing, press once to pause; reverse a single frame with each subsequent press. Press ▶ to resume normal playback. For DVD-Audio discs featuring browsable pictures ( <b>page 23</b> ), press to view the previous picture.

 **Important**

While using the DVD playback controls, you may see the  or  mark displayed on-screen.

-  means that the operation is not allowed by the player.
-  means that the operation is not allowed by the disc.

## Navigating DVD disc menus

Many DVD discs contain menus. Sometimes these are displayed automatically when you start playback; others only appear when you press **MENU** or **TOP MENU**. For DVD Audio discs, use **TOP MENU**.

### Note

Some DVD-Audio discs feature a 'bonus group'. To access this group you have to input a password, which you can find on the disc's packaging. See page 57 for more information.

Button	What it does
<b>TOP MENU</b>	Displays the 'top menu' of a DVD disc—this varies with the disc.
<b>MENU</b>	Displays a DVD disc menu—this varies with the disc and may be the same as the 'top menu'.
<b>RETURN</b> ⏪	Returns to the previously displayed menu screen. On some DVD-Audio discs featuring browsable pictures, press to display the browser screen.
<b>Joystick</b>	Moves the cursor around the screen.
<b>ENTER</b>	Selects the current menu option.
<b>Numbers</b>	Selects a numbered menu option (some discs only).
<b>+10</b>	Selects a numbered menu option 10 and over. (For example, for 24, press <b>+10, +10, 4.</b> ) (Some discs only.)

## Navigating Super VCD/Video CD PBC menus

Some Super VCDs/Video CDs have menus from which you can choose what you want to watch. These are called PBC (Playback control) menus.

You can play a PBC Super VCDs/Video CDs without having to navigate the PBC menu by starting playback using a number button to select a track, rather than the ► button.

Button	What it does
<b>RETURN</b> ⏪	Displays the PBC menu.
<b>Numbers</b>	Selects a numbered menu option.
<b>+10</b>	Selects a numbered menu option 10 and over. (For example, for 24, press <b>+10, +10, 4.</b> )
<b>◀◀</b>	Displays the previous menu page (if there is one).
<b>▶▶</b>	Displays the next menu page (if there is one).

## Navigating DVD-RW discs menus



- 1 Press **MENU**.
- 2 Move the Joystick left/right buttons to toggle between **Original** and **Play List**. The **Original** screen shows the contents of the disc as recorded. The **Play List** screen shows the contents in the order programmed by the person who recorded the disc (not all DVD-RW discs contain a **Play List**).
  - You can't switch between **Original** and **Play List** while a disc is playing.
- 3 Move the Joystick up/down buttons to highlight a menu item in the list, then press **ENTER** to select it.
  - Use the ◀◀ and ▶▶ to see the previous/next page.
  - To preview the first frame of the highlighted menu item, move the Joystick right .
  - To display this disc menu during playback, press **MENU**.



### Note

This remote is for the DV-S733A. The buttons are the same for the DV-47A.

## Introduction

- Many of the functions covered in this chapter apply to DVD discs, Super VCDs/Video CDs, SACDs and CDs, although the exact operation of some varies slightly with the kind of disc loaded.
- When playing DVD discs, if the  or  icon appears on-screen when you try and use a particular function, either the player or the disc doesn't allow the use of that function.
- When playing Super VCDs/Video CDs, some of the functions are not available in PBC mode. If you want to use them, start the disc playing using a number button to select a track.

## Finding what you want on a disc

DVD Super VCD Video CD SACD CD

You can directly access any point on a disc using one of the search modes. Use these search modes while a disc is playing, or when it's stopped. Playback jumps to the point specified.

### 1 Press SEARCH MODE repeatedly to choose between:

- **Title/Group** search (DVD only)
- **Chapter/Track** search
- **Page** search (DVD-Audio discs with browsable pictures only)
- **Time** search (DVD-Video and Super VCD/Video CD only)
- **Frame & Time** search (DVD-Video only)  
(The Frame Search option in the **Video1** menu must be On to use this) (page 47)
- **Off**

### 2 Enter the title/chapter/group/track number or time (minutes & seconds).

For example, for title 4, press 4.

For chapter/track 12, press 1 , 2.

For 45 minutes into the disc, press 4, 5, 0, 0.

### 3 Press ► to start/restart playback.

 **Note**

PAL displays 25 frames per second, numbered 0-24. NTSC displays 30 frames per second, numbered 0-29. The Frame Search option in the Video menu must be On to use this.

Press **DISPLAY** while a still picture is displayed to see the frame number.

Depending on the disc, it may not be possible to search for a specific frame. Also, when using frame advance, forward step or reverse step. Each frame may not appear in exact order when stepping through them. The number assigned to a specific frame may be different when stepping through the frames in forward or reverse mode.

## Using the Multi Dial

You can use the Multi Dial to control fast and slow motion scanning and frame advance of DVD-Video, DVD-R/RW and Video CDs.

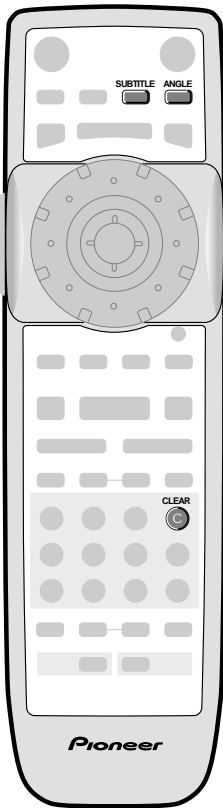
When scanning, no audio is output, even when the scanning speed is 1/1 (normal playback speed).

- **To start scanning playback at 1/16 speed, turn the MULTI DIAL (clockwise for forward; anticlockwise for reverse) during playback.**
  - Turn the **MULTI DIAL** in the same direction to increase the scan speed—the speed is indicated at the top left of the screen.
  - Turn in the opposite direction to slow the scan speed/reverse direction.
- **To start high-speed scanning, turn the MULTI DIAL quickly (clockwise for forward; anticlockwise for reverse) during playback.**
  - Change the speed/direction in the same way as above.
  - To resume normal playback, press ►.
- **To start manual scanning, press JOG MODE, then use the MULTI DIAL to advance frames in either direction.** To switch off jog mode, press **JOG MODE** again. The picture remains paused until you restart playback.
  - To resume normal playback, press ►.

 **Note**

You can scan Video CDs in the same way as DVD-Video discs (see above). However, reverse slow-motion scanning is not possible, and there are just two fast scanning speeds.






 **Note**

This remote is for the DV-S733A. The buttons are the same for the DV-47A.

## Switching camera angles

### DVD-Video

Some DVD Video discs feature scenes shot from two or more angles—check the disc box for details: it should be marked with a  icon if it contains multi-angle scenes.

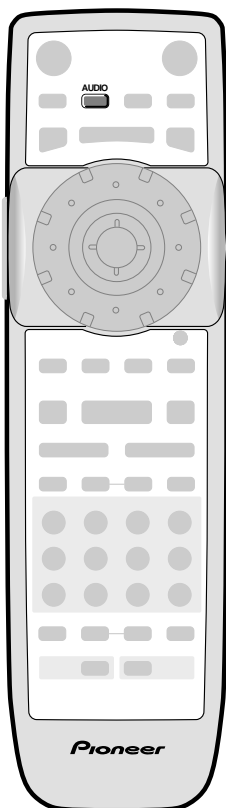
- **To switch the camera angle, press ANGLE.**  
If the disc was paused, playback starts again with the new angle.
  - To hide the TV angle indicator, choose **Angle Indicator > Off** from the **Video 2** menu (see [page 51](#)).

## Switching subtitles

### DVD-Video

Many DVD Video discs have subtitles in one or more languages—the disc box will usually tell you which subtitle languages are available. You can switch subtitle language anytime during playback.

- **To display/switch the subtitle language, press SUBTITLE repeatedly.**  
The current subtitle language is shown on-screen.
- **To switch off subtitles, press SUBTITLE then CLEAR.**
- **To set subtitle preferences, see page 53.**



### Note

This remote is for the DV-S733A. The button is the same for the DV-47A.

## Switching audio language

**(DVD-Video)**

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

- To display/switch the audio language, press **AUDIO** repeatedly. The current audio language is shown on-screen.
- To set audio language preferences, see page 52.

## Switching audio channel

**(DVD-Audio)**

Depending on the disc, you may be able to switch channels, when playing DVD-Audio discs—see the disc box for details.

- To switch the audio channel, press **AUDIO** repeatedly.

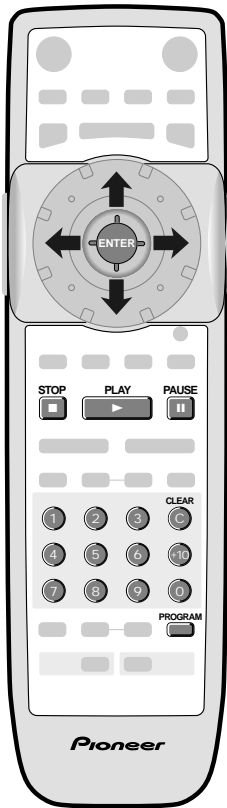
## Switching audio channel

**(DVD-RW)** **(Super VCD)** **(Video CD)** **(CD)** **(MP3)**

On Super VCDs/Video CDs, CDs and MP3s you can switch between stereo, just the left channel or just the right channel.

On DVD-RW discs that have both L and R audio channel, you can switch between the L, R, or a mix of both.

- To switch the audio channel, press **AUDIO** repeatedly. The current playback channel(s) are indicated on-screen.



**Note**

This remote is for the DV-S733A. The buttons are the same for the DV-47A.

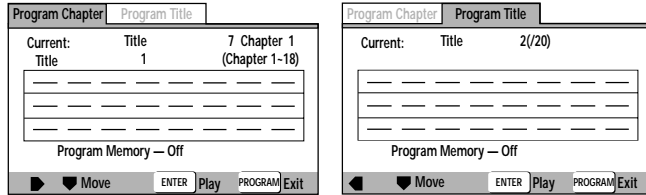
## Making a program list

This feature lets you program the play order of titles/groups/chapters/tracks on a disc. You make a program list via an on-screen display, using the cursor buttons to navigate and the number buttons to enter titles/chapters/tracks.

Note that programmed playback is not available for DVD-RWs.

DVD

**1 Press PROGRAM.**



**2 Move the Joystick left/right to select 'Program Chapter' or 'Program Title'.**

**3 Move the Joystick down to the program list window.**

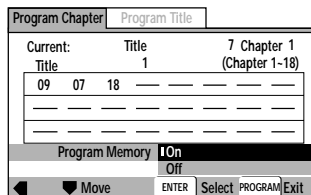
If you selected Program Chapter, move the Joystick up and enter a title number (all the programmed chapters will come from this title).

**4 Enter the title/chapter numbers for your program list.**

For titles/chapters 1–9, use the corresponding number buttons. For 10 and over, use the +10 button (+10, +10, 4 for 24, etc.)

- You can program a pause instead of a title/chapter: press **II** instead of entering a number in the program list. (A pause can't be the first or last step in the list.)
- A program list can contain up to 24 steps.

**5 If you want to save the program list, move the Joystick down to 'Program Memory' and set it to 'On'.**



If you do this, the program list is automatically recalled when you next load the disc.

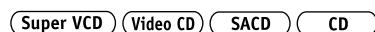
- You can save program lists for up to 24 discs.
- After setting to **On**, move the cursor back up to the program list window.

- 6 Press **ENTER** or **▶** to start playback immediately, or **PROGRAM** to exit if you want to start playback later.

During program play, you may occasionally see the start of a chapter that was not programmed when the chapter number changes. This is not a malfunction.

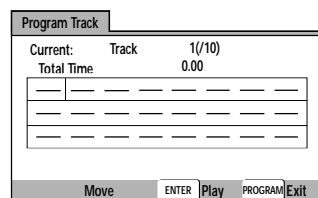
 **Note**

You can't program track numbers over 100 on SACDs.



For Super VCDs/Video CDs that feature PBC, make sure that the disc is stopped before you start.

- 1 Press **PROGRAM**.



- 2 Enter the track numbers for your program list.

For tracks 1–9, use the corresponding number buttons. For 10 and over, use the **+10** button (**+10**, **+10**, **4** for 24, etc.)

- You can program a pause instead of a track/chapter: press **II** instead of entering a number in the program list. (A pause can't be the first or last step in the list.)
- A program list can contain up to 24 steps.

- 3 Press **ENTER** or **▶** to start playback immediately, or **PROGRAM** to exit if you want to start playback later.

- You can't start playback later with a PBC Super VCD/Video CD; press **ENTER** or **▶** to start.

## Programming tips

- To view the program list press **PROGRAM**.
- To delete a step in the program list, position the cursor on the title/group/chapter/track and press **CLEAR**.
- To insert a step into the program list, position the cursor where you want the new step to appear, then enter the title/group/chapter/track number.

All the following steps move up one.

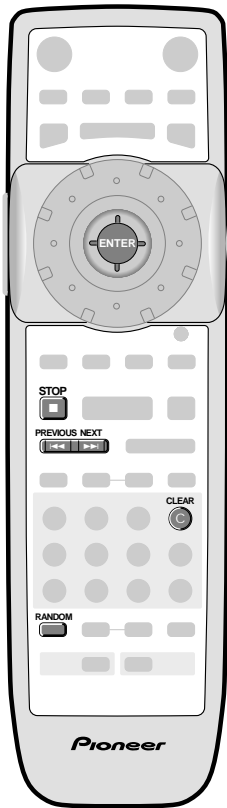
- To add the currently playing title/group/chapter/track to the program list, press and hold **PROGRAM** for about a second.

If there is no current program list, a new one is created (for DVD, if the last list created was a title list then the a title program list is created, otherwise a chapter program list is created).

- To delete the program list, stop playback (press **■**), then press **CLEAR**.

The program list is also erased when you remove the disc from the player or turn the power off (standby).

- To delete a memorized DVD program list, load the DVD, press **PROGRAM**, then change the **Program Memory** option to **Off**. Press **ENTER** to confirm.



### Note

This remote is for the DV-S733A. The buttons are the same for the DV-47A.

## Using random play

DVD Super VCD Video CD CD

Use the random play function to play titles/chapters/groups/tracks (DVD) or tracks (CD or Super VCD/Video CD) in a random order.

You can't use random play with DVD-RW discs, SACD or Super VCD/Video CD playing in PBC mode.

### 1 Press **RANDOM** repeatedly to select a random play mode.

The mode is displayed on-screen:

DVD

- Random Chapter/Track (from within the current title)
- Random Title/Group

Super VCD Video CD CD

- Random (random play starts immediately)

### 2 DVD only: Press **ENTER** or **▶** to start random play.

- To stop the disc and cancel random playback, press **■**.
- To cancel random playback without stopping playback, press **CLEAR**. The rest of the disc plays out.

### Tip

- During random play, the **◀◀** and **▶▶** buttons function a little differently to normal: **◀◀** returns to the beginning of the current track/chapter/. You can't go back further than this. **▶▶** selects another track/chapter at random from those remaining.
- You can't use random play together with program or repeat play.



### Note

This remote is for the DV-S733A. The buttons are the same for the DV-47A.

## Using repeat play

DVD Super VCD Video CD CD

You can set the player to repeat individual tracks on CDs or Super VCDs/Video-CDs, chapters/tracks or titles/group on DVD discs, or the whole disc. It's also possible to loop a section of a disc.

You can use the repeat together with the programming mode to repeat the tracks/chapters in the program list (see page 27 for how to make a program list).

You can't use any repeat mode or looped play with a Super VCD/Video CD playing in PBC mode.

Looped playback is not possible with SACD.

### Note

- You can't use repeat and random play at the same time.
- If you switch camera angle during repeat play, repeat play is cancelled.

### 1 Press REPEAT during playback to select a repeat mode.

Each press switches the repeat mode:

DVD

- Repeat **Chapter/Track**
- Repeat **Title/Group**
- Repeat **Off**

Super VCD Video CD SACD CD

- Repeat **Track**
- Repeat **All**
- Repeat **Off**

### 2 To resume normal playback, press CLEAR.

### Tip

You can use repeat play with program play. During program play, press REPEAT.

## Looping a section of a disc

DVD Super VCD Video CD CD

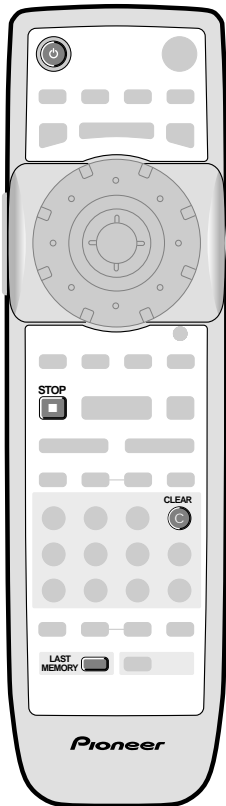
### 1 Press REPEAT A-B once at the start of the section you want to repeat, then again at the end.

Playback immediately jumps back to the start point and plays the loop round and round.

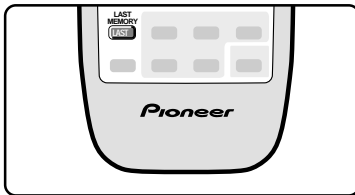
- On a DVD disc, the start and end points of the loop must be in the same title/group.

### 2 To resume normal playback, press CLEAR.

- You can also repeat a section of a disc just once by pressing ► to mark the end point (instead of A-B).



DV-S733A



DV-47A (U.S. model)

## Bookmarking a place in a disc (LAST MEMORY)

DVD-Video Super VCD Video CD

If you watch only part of a DVD Video disc with the intention of picking up later where you left off, you can bookmark the place then resume playback at a later date without having to manually search for the right place.

You can use this feature for up to five discs (after that the oldest bookmark is deleted to make space for a new one).

Bookmarking also works with Super VCDs/Video CDs, but for one disc only, and you must leave the disc in the player—opening the disc tray erases the memory. Last Memory may not work reliably with some PBC Super VCDs/Video CDs.

You can't use bookmarking with DVD-Audio and DVD-RW discs. Depending on the disc, you may not be able to use bookmarking with DVD-Video or Super VCD/Video CD discs.

- **At the point from which you want to resume playback next time, press LAST MEMORY.**  
Press ■ if you want to stop playback here.
- **To resume playback, load the disc and press LAST MEMORY.**  
If the disc starts auto playback, stop it first.
- **To clear the bookmark for the disc loaded, press LAST MEMORY then CLEAR while 'Last Memory' is displayed on-screen.**

## Memorizing disc settings (CONDITION MEMORY)

**(DVD-Video)**

If you have a particular set of preferences for a disc, you can memorize them using the Condition Memory function. Once memorized, your settings will be recalled automatically whenever you load that disc. The player can store settings for 15 discs; after this, memorizing another replaces the oldest one stored.

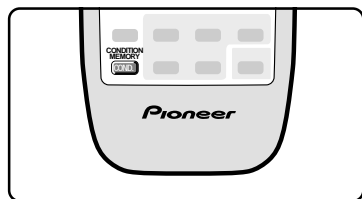
Condition Memory does not work with DVD-Audio and DVD-RW discs.

The settings memorized are:

- Multi-Angle (page 25)
  - Subtitle Language (page 25)
  - Audio Language (page 26)
  - On Screen Display (page 40)
  - Video Adjust (page 49)
  - Parental Lock level (page 55)
- To memorize settings for the current disc, press **CONDITION MEMORY** during playback.
  - To recall memorized settings, just load the disc.  
The display shows COND\_MEM and 'Condition Memory' appears on-screen.
  - To clear memorized settings, load the disc and press **CLEAR** while 'Condition Memory' is displayed on-screen.

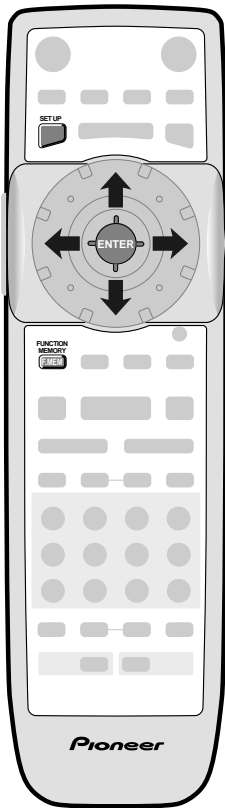


DV-S733A



DV-47A (U.S. model)






**Note**

This remote is for the DV-S733A. The buttons are the same for the DV-47A.

### Using setup menu shortcuts (FUNCTION MEMORY)

You can create a shortcut menu of up to 5 setup menu items that you often access. Rather than navigate through the whole setup menu each time you want to alter a setting, you can access the setting straight from the shortcut.

#### To add a menu item to the shortcut list:

- 1 Press **SETUP**.
- 2 Select the menu item you want to add.
- 3 Press **FUNCTION MEMORY**.  
The item is marked **FM**. (Some items in the Setup menu cannot be added to the shortcut menu. In this case, the  mark or 'ⓘ This item cannot be registered in the function memory' is displayed on-screen.)
- 4 Repeat steps 2 and 3 to add up to five items to the shortcut menu.
- 5 Press **SETUP** to exit.

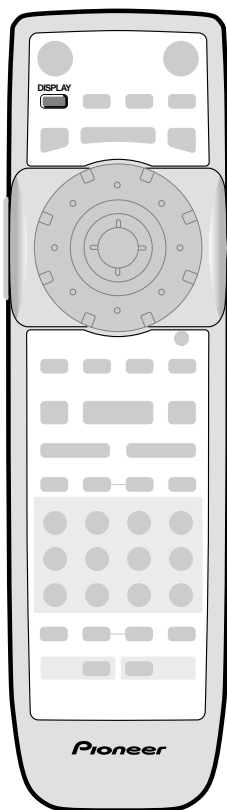
#### To use the shortcut menu:

- 1 Press **FUNCTION MEMORY**.  

Function Memory
On Screen Display
Digital Out
- 2 Select the item you want using the Joystick and press **ENTER**.
- 3 The Setup menu opens on the item you selected. Select from the options in the normal way.
- 4 Press **SETUP** to exit.

#### To delete an item from the shortcut menu:

- 1 Press **SETUP**.
- 2 Select the menu item you want to delete from the shortcut menu.  
It should be marked **FM**.
- 3 Press **FUNCTION MEMORY** to clear the **FM** mark.
- 4 Press **SETUP** to exit.



### Note

This remote is for the DV-S733A. The button is the same for the DV-47A.

## Displaying disc information

DVD Super VCD Video CD SACD CD

Various track, chapter and title information, as well as the video transmission rate for DVD discs, can be displayed on-screen while a disc is playing, or while it's stopped.

- To show/switch the information displayed, press **DISPLAY**.

When a disc is playing, the information appears at the top of the screen. Keep pressing **DISPLAY** to change the displayed information.

### Example:

```
Play      2-1  0.24
Track    -6.05/ 6.29
```

### DVD-Audio display

```
Play      3
Tr. Rate : ██████████ 9.2
```

### DVD display showing the data transmission rate

When a disc is stopped, all title/group/chapter, or track information for the disc loaded appears on-screen. Press **DISPLAY** again to exit the screen.

### Note

Information for Super VCD is not displayed.

#### DVD-Video

Information: DVD			
Title	Chapter	Title	Chapter
01	1-30	06	1-10
02	1-21	07	1-13
03	1-46	08	1-5
04	1-12	09	1-4
05	1-8	10	1-8

1/2 ▶ DISPLAY Exit

Titles and number of chapters in each title

#### Video CD CD

Information: Compact Disc			
Total time		72.04	
Track	Time	Track	Time
01	5.23	06	6.51
02	4.55	07	3.18
03	6.13	08	6.50
04	5.45	09	4.16
05	5.10	10	3.22

1/2 ▶ DISPLAY Exit

Total playing time of disc, tracks and track times

#### DVD-RW

disc name (if programmed)

Information: DVD-RW		
Disc		
Title	Original	1-6
	Play List	1-3

DISPLAY Exit

Disc name (if programmed) and number of titles in the Original recording and the Play List

#### DVD-Audio

Information: DVD			
Group	Track	Group	Track
01	1-1	06	1-1
02	1-1	07	1-1
03	1-1	08	1-1
04	1-1	09	1-4
05	1-1		

1/1 DISPLAY Exit

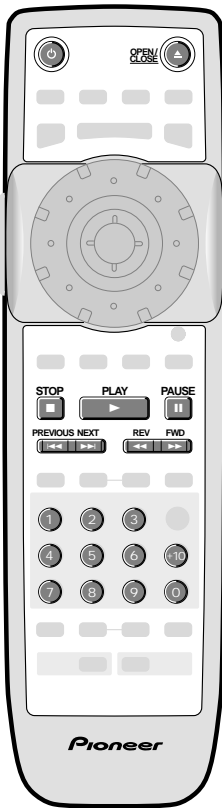
Groups and number of tracks in each group

#### SACD

Information: SACD 2ch Area			
Total time		72.04	
Track	Time	Track	Time
001	5.23	006	6.51
002	4.55	007	3.18
003	6.13	008	6.50
004	5.45	009	4.16
005	5.10	010	3.22

1/2 ▶ DISPLAY Exit

Total playing time of disc, tracks and track times



**Note**

This remote is for the DV-S733A. The buttons are the same for the DV-47A.

## Playing MP3s

This player can play MP3 files on a CD-ROM disc. MP3 is a popular audio format on computers and the Internet because file sizes are small (compared to uncompressed CD audio), while the sound quality remains surprisingly good.

- 1 Switch the player on.
- 2 Press **▲** to open the disc tray.
- 3 Load a CD-ROM containing MP3 tracks
- 4 Press **▶** to start playing the first MP3 track on the disc.
  - It may take a few seconds for the player to locate the track on the disc, depending on the complexity of the file structure. During this time, **'Please wait a moment'** is displayed.
  - The track name is displayed for the first five seconds of the track.

After the selected track has played out, the next track recorded on the disc starts playing.

  - Press **||** while a track is playing to pause. Press again to restart playback.
  - Press **◀◀ / ▶▶** to skip to the previous/next track on the disc.
  - Press and hold **◀◀ / ▶▶** to scan backward/forward.
  - Press **■** to stop playback. Except in program or random play, the player remembers the current folder as long as the disc remains in the player. Press **▶** to restart playback from the first track of that folder.

## 6 Playing MP3s

### Searching for folders and tracks

- 1 Use the **SEARCH MODE** to choose between:
  - Folder search
  - Track search
  - Off
- 2 Enter the folder/track number.  
For example, for folder 4, press **4**.  
For track 12, press **1** , **2**.
- 3 Press **ENTER** or **▶** to start/restart playback.

### Using random play

Files can be mono or stereo. Use the random play feature to play tracks on a disc in a random order. Playback stops when all the tracks have played.

- 1 Press **RANDOM** to start random play.
- 2 To cancel random play, press **■**.  
Random play is also canceled if the disc tray is opened, you press **PROGRAM**, or you use the number buttons to jump to another track.

### Using repeat play

Use the repeat play feature to repeat the current track, or all the tracks on the disc.

- 1 During playback, press **REPEAT** to select a repeat play mode.  
Each press changes the repeat play mode:
  - Repeat **Track**
  - Repeat **Folder**
  - Repeat **Disc**
  - Repeat **Off**

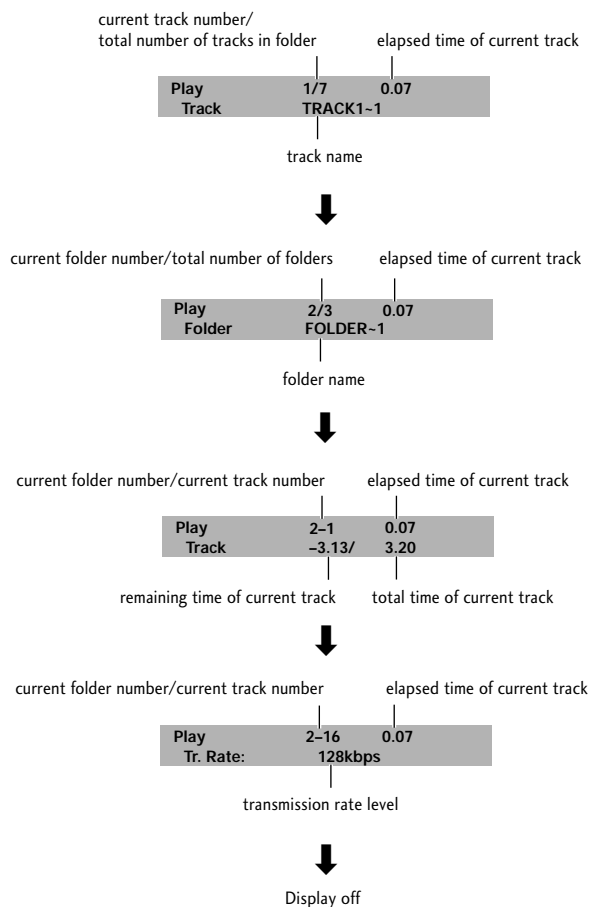
If you stop playback or open the disc tray, repeat play is also canceled.

### Displaying MP3 information

- 1 Press **DISPLAY** repeatedly during playback to display various MP3 information on-screen.

There are four information screens:

#### Displays when playing



#### Displays when stopped

Information: MP3			
Folder	Track	Folder	Track
001	1 ~ 9	006	1 ~ 10
002	1 ~ 11	007	1 ~ 13
003	1 ~ 3	008	1 ~ 5
004	1 ~ 22	009	1 ~ 4
005	1 ~ 15	010	1 ~ 8

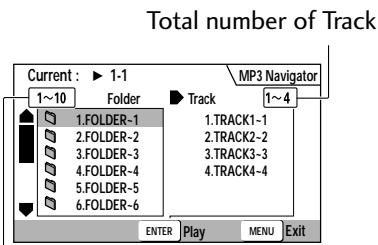
1/2 ▶ DISPLAY Exit

Folders and number of tracks in each folder

## Using the MP3 Navigator

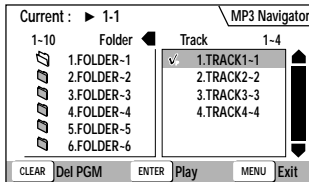
Use the MP3 Navigator to make searching for the track(s) you want to play easier. You can also use it to add or clear tracks from the program list.

- 1 Load a CD-ROM containing MP3 tracks.
- 2 Press **MENU** to enter the MP3 Navigator screen.
  - The left side of the screen shows a list of folders containing MP3 tracks.
  - If you display the MP3 Navigator when a disc is playing, the currently playing folder and track numbers are shown at the top left of the screen.



Total number of Folder

- On the right side is a list of MP3 tracks from the first folder in the list.



## Navigate using the following controls:

**Joystick left/right** – Select folder and tracks from the current screen.

**Joystick up/down** – Select the previous/next of folders and tracks. To move rapidly up or down a long list of folders or tracks, press and hold the Joystick up/down.

**ENTER** – Play the currently selected folder or track. MP3 tracks that are unplayable on this player are automatically skipped and the display shows 'UNPLAYABLE MP3 FORMAT'.

**MENU** – Exit the MP3 Navigator

**PROGRAM** – Add the currently selected track to the program list. (Tracks in the program list are marked ✓.) Pressing **PROGRAM** repeatedly will add the track to the program list repeatedly.

See *Making a program list of MP3 tracks* on **page 38** for how to use program play.

(Press **MENU** to exit the MP3 Navigator first.)

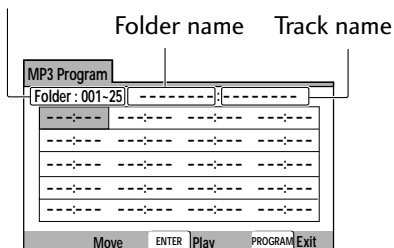
**CLEAR** – Clear the currently selected track from the program list.

## Making a program list of MP3 tracks

- 1 Press **PROGRAM** to enter the MP3 Program screen.

If you added tracks to the program list from the *Using the MP3 navigator* on **page 37**, the tracks are displayed here.

Total number of folder or track

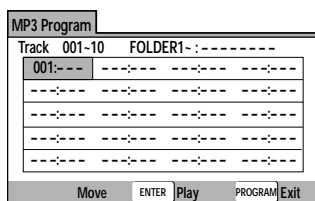


From this screen you can enter folder and track numbers directly to build up a program list.

- 2 Use the number buttons to enter a three-digit folder number.

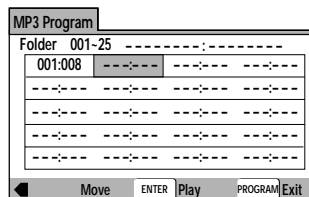
The number of folders on the disc is displayed in the top-left of the screen.

Once you've entered a valid folder number, the name of the folder appears.



- 3 Use the number buttons to enter a three-digit track number.

The number of tracks in the current folder is displayed in the top-left of the screen.



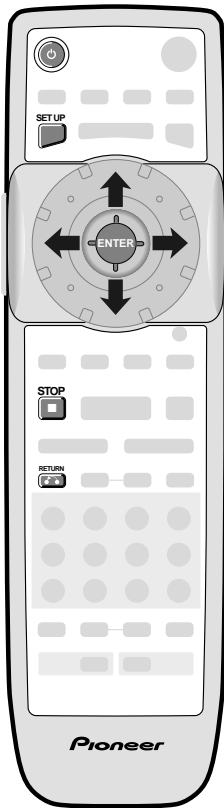
### Navigate using the following controls:

**Joystick** – Navigate the program list.

**CLEAR** – Clear the currently selected item in the program list.

**ENTER** – Start playing the program list.

**PROGRAM** – Exit the **MP3 Program** screen.



### Note

This remote is for the DV-S733A. The buttons are the same for the DV-47A.

## Using the Setup menu

The Setup menu gives you access to all the player's settings. Press **SETUP** to display/leave the menu and the **Joystick** and **ENTER** buttons on the remote to navigate and select options. In some screens you can press **RETURN** to leave the screen without making any changes. The controls for each menu are shown at the bottom of the screen.

If an option is grayed out it means that it cannot be changed at the current time. This is usually because a disc is playing. Stop the disc, then change the setting.

The current setting for any option is marked with a colored box. The color of the box indicates what kind of disc the setting is applicable to: blue for DVD only; yellow for DVD and Super VCD/Video CD; orange for DVD-Audio and SACD/CD; green for any type of disc.

### Note

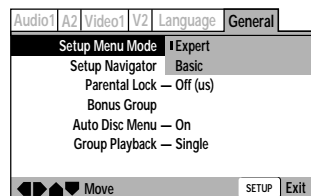
The language options shown in the on-screen display illustrations on the following pages may not correspond to those available in your country or region.

## Setup Menu Mode

- Default setting: **Expert**

The **Expert** setup menu gives you access to all the player's settings. Switch to **Basic** for a reduced set of more commonly used settings. The **Basic** menu also features an information bar which tells you more about what the currently highlighted option means.

Sections below marked with the **Expert** icon are available only in **Expert** mode.

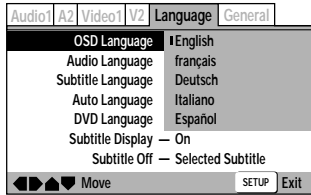


## OSD Settings

### OSD Language

- Set in Setup Navigator (default: **English**)

Choose the language you want the OSDs in.



- Taiwanese model:

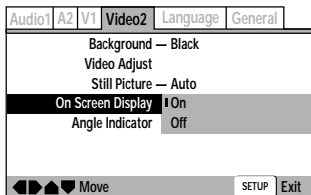
English

汉语

### On Screen Display Expert

- Default setting: **On**

If you prefer not to have the operation displays shown on-screen, change the setting to **Off**.



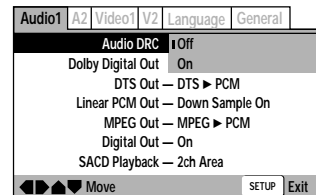
## Audio settings

### Audio DRC

- Default setting: **Off**

When watching Dolby Digital DVDs at low volume, it's easy to lose the low level sounds completely—including some of the dialog. Switching on Audio DRC (Dynamic Range Control) can help things by bringing up the low level sounds, while keeping the lid on high level peaks.

The **Off** setting leaves the original dynamics intact; **On** 'squashes' the dynamics; but exactly how much difference you can hear between the settings will depend on the material you're watching.



### Remember

- Audio DRC is only effective with Dolby Digital audio sources.
- The effect of Audio DRC depends on your speakers and AV amplifier settings.

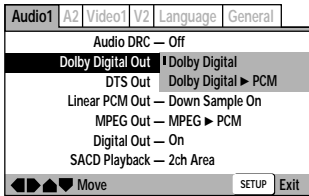


## Dolby Digital Out

- Default: **Dolby Digital**

You only need to make this setting if you connected this system to another component (AV amplifier, etc.) using one of the digital outputs.

If your AV amplifier (or other connected component) is Dolby Digital compatible, set to **Dolby Digital**, otherwise set to **Dolby Digital ► PCM**.

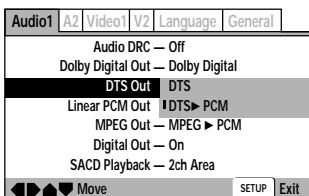


## DTS Out

- Default setting: **DTS ► PCM**

You only need to make this setting if you connected the player to another component (AV amplifier, etc.) using one of the digital outputs.

If your AV amplifier (or other connected component) has a built-in DTS decoder, set this to **DTS**, otherwise set to **DTS ► PCM**. Check the manual that came with the other component if you're unsure whether it is DTS compatible.



### Important

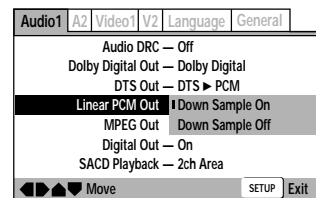
If you set to **DTS** with a non-DTS compatible amplifier, noise will be output when you play a DTS disc.

## Linear PCM Out

- Default setting: **Down Sample On**

You only need to make this setting if you connected the player to another component (AV amplifier, etc.) using one of the digital outputs.

If your AV amplifier (or other connected component) is compatible with high sampling rates (96 kHz), set this to **Down Sample Off**, otherwise set it to **Down Sample On** (96 kHz audio is converted to a more compatible 48 kHz). Check the manual that came with the other component if you're unsure whether it is 96 kHz compatible.



### Note

Even when set to **Down Sample Off**, some discs will only output down sampled audio through the digital outputs.

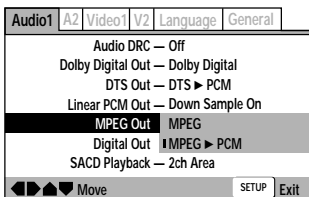
High sampling rate DVD-Audio discs (192kHz or 176.4kHz) always output audio down sampled to 96kHz or 88.2kHz through the digital outputs.

## MPEG Out

- Default setting: **MPEG ► PCM**

You only need to make this setting if you connected the player to another component (AV amplifier, etc.) using one of the digital outs.

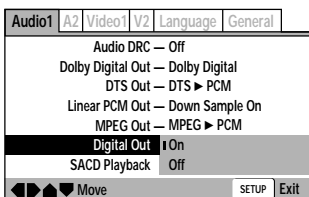
If your AV amplifier (or other connected component) is compatible with MPEG audio, set this to **MPEG**, otherwise set it to **MPEG ► PCM** (MPEG audio is converted to more compatible PCM audio). Check the manual that came with the other component if you're unsure whether it is MPEG audio compatible.



## Digital Out Expert

- Default setting: **On**

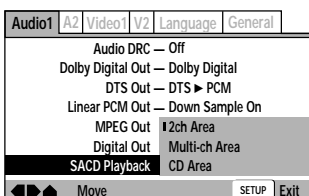
If at any time you need to switch off the digital audio output, set this to **Off**, otherwise leave it **On**. Note that you can't switch on/off the optical and coaxial outputs individually.



## SACD Playback Expert

- Default setting: **2ch Area**

SACD discs can be divided up into several different areas – stereo audio, 5.1 channel audio and, for hybrid SACDs, standard CD audio. The SACD Playback setting enables you to select which area of the disc you want to play.



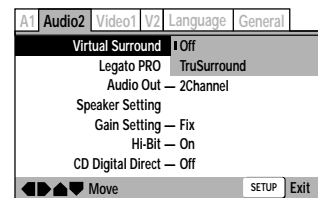
## Note

If you select an area that isn't on the disc loaded, a different area of the disc will play. For example, if you choose standard CD audio but the disc loaded is not a hybrid SACD, the stereo SACD audio will play.

## Virtual Surround

- Default setting: **Off**

If you connected your DVD player using only the stereo analog outputs and set **Audio Out** (see below) to **2 Channel**, you can simulate surround sound by setting Virtual Surround to **TruSurround**.

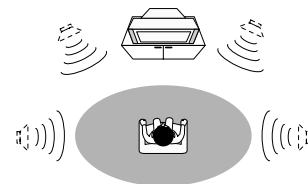


## Note

- There is no effect when the audio source is DVD-Audio, DTS or 96 kHz LPCM or during CD, MP3 or SACD playback.
- The digital audio output level is reduced when playing 2 channel Dolby Digital DVDs or Video CDs with TruSurround selected. If you play a multichannel Dolby Digital DVD with Dolby Digital to PCM conversion (see [page 41](#)) and TruSurround selected, there is no digital output.
- How good the surround effect is varies with the disc.

## TruSurround

TruSurround uses technology that simulates multichannel surround sound using only two speakers.

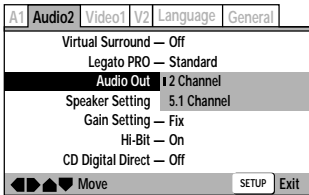


**TruSurround**  
by **SRS**

## Audio Out

- Set in Setup Navigator (Default: **2 Channel**)

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



### Note

- Even if you set **Audio Out** to **5.1 Channel**, you'll only get sound from all speakers when playing a multi-channel DVD-Audio disc, or Dolby Digital, DTS or MPEG encoded DVD disc.
- If you set to **2 Channel**, Dolby Digital, DTS and MPEG audio is mixed down to two channels so you still hear all the audio recorded on the disc.
- Some DVD-Audio discs don't allow down-mixing of audio. These discs always output multi-channel audio regardless of the setting made here.

## About source audio output

When the source output mode has been switched between the **5.1 Channel** and **2 Channel** mode settings using the **Audio Out** setting in the Setup screen **Audio 2** menu, audio output for each source will be as shown on the following table.

AUDIO CONTENTS	OUTPUT MODE	AUDIO OUT (2 CH)		AUDIO OUT (5.1 CH)			DIGITAL OUTPUT (S/PDIF)	
		L, R (Front L,R)	Center	Surround L,R	Sub Woofer	Dolby Digital or MPEG ► PCM	Dolby Digital or MPEG	
DVD	Dolby Digital	5.1 CH	Front Lch, Rch	Center	Surround LS, RS	LFE	2 ch DOWNMIX Lch, Rch	Dolby Digital
		2 CH	2 ch DOWNMIX Lch, Rch	MUTE				
	Dolby Digital Karaoke	5.1 CH	Lch, Rch	MUTE			Lch, Rch	Dolby Digital
		2 CH		MUTE				
	LPCM	5.1 CH/ 2 CH	Lch, Rch	MUTE			Lch, Rch	
	DTS	5.1 CH	Front Lch, Rch	Center	Surround LS, RS	LFE	DTS	
		2 CH	2 ch DOWNMIX Lch, Rch	MUTE				
	MPEG	5.1 CH	Front Lch, Rch	Center	Surround LS, RS	LFE	Lch, Rch	MPEG
		2 CH	Lch, Rch	MUTE				
	DVD -Audio	5.1 CH	Front Lch, Rch	Center	Surround LS, RS	LFE	2 ch DOWNMIX Lch, Rch <sup>2</sup>	
		2 CH	2 ch DOWNMIX Lch, Rch <sup>1</sup>	MUTE				
	CD	5.1 CH/ 2 CH	Lch, Rch	MUTE			Lch, Rch	
SACD	5.1 CH	Front Lch, Rch	Center	Surround LS, RS	LFE	MUTE		
	2 CH	2 ch DOWNMIX Lch, Rch	MUTE					
Super VCD/ Video CD	5.1 CH/ 2 CH	Lch, Rch	MUTE			Lch, Rch		
DVD-RW	5.1 CH/ 2 CH	Lch, Rch <sup>3</sup>	MUTE			Dolby Digital, MPEG or PCM (Lch, Rch)		

<sup>1</sup>: Discs that prohibit downmixing will be output as 5.1 channel even if **2 Channel** is selected.

<sup>2</sup>: Discs that prohibit downmixing also mute the digital output.

<sup>3</sup>: If the sound is mono, Lch and Rch audio will be the same.

## Speaker Setting

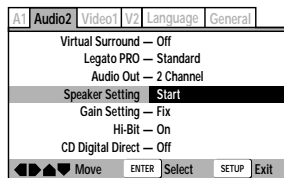
- Set in Setup Navigator (default: **Center: Large** | **Sub: On** | **Surround: Large** | **Distance: all 3.0m**)

You only need to make this setting if you connected this player to your amplifier using the 5.1 channel analog outputs. This setting does not affect digital audio output.

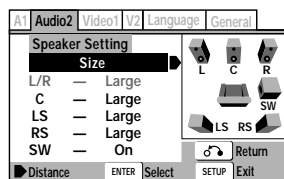
Follow the on-screen displays to describe which speakers are in your system and their sizes and positions.

Set the size of your speakers in the Size screen. The front left/right (L/R) speakers have a fixed setting of **Large**. The center (C), left surround (LS) and right surround (RS) speakers can each be set to **Large**, **Small** or **Off**. Set a speaker to **Large** if the main speaker cone is 12cm or more; set to **Small** if it's less than 12cm. Note that the LS and RS speakers cannot be set independently.

The subwoofer (SW) can only be set to **On** or **Off**.



Press ENTER



### Note

- When listening to a DVD audio source, the **C**, **LS**, and **RS** speakers will automatically be set to the **Large** size setting. However, the sound will not be affected by the change. Listening to another source will return the speakers to their original settings.
- For DVD-Audio only, if the **C**, **LS**, or **RS** speakers is set to **Off**, the audio is automatically downmixed to stereo.

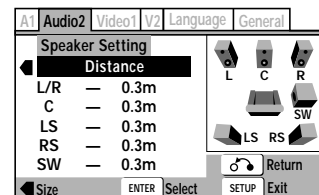
The graphic on the right of the screen represents your speaker setup, with the currently selected speaker's name highlighted in blue, and the speakers set to **On** highlighted in yellow.

Set the distance from your main listening position to each speaker in the Distance screen. The distance setting for any speaker that was set to **Off** in the Size screen will be grayed out. For the other speakers, enter the distance to the nearest 0.1m (10cm). You can set the distance for the **L/R** speakers between 0.3m and 9m. Note that you must set the **C** and **SW** speakers within 2m of the **L/R** setting. The **LS** and **RS** speakers must be set within -6m and +2m of the **L/R** setting.

The graphic on the right of the screen represents your speaker setup, with the currently selected speaker's name highlighted in blue, and the speakers set to **On** highlighted in yellow.

### Note

- If your subwoofer is placed beyond the adjustment range (L/R±2m), set to the nearest setting possible. Surround sound cohesion should not be affected very much.
- This setting does not apply to SACD playback.



## Legato PRO

- Default setting: **Off**

Legato PRO subtly changes the character of the sound. There are four settings plus **Off**:

- **Off**
- **Standard** – Gives the sound a more forward, live feel
- **Effect 1** – Bright and lively
- **Effect 2** – Soft and rich
- **Effect 3** – Solid and well balanced

Choose the setting that best suits the music you're listening to. **Standard** is recommended for all music.



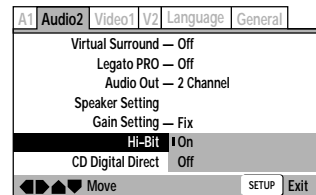
### Note

- The Legato PRO digital filter affects mainly frequencies outside of the audible range.
- Depending on the listening conditions, you may find the effect of Legato PRO difficult to hear.
- The Legato PRO effect is only applied to the front left/right channels.
- Legato PRO does not work with 192kHz DVD-Audio discs or SACD.

## Hi-bit Expert

- Default setting: **On**

When set to **On**, this feature extends the dynamic range of the main front speakers by effectively increasing the bit depth from 16-20 bit to 24 bit. This allows the player to reveal greater detail in low level audio.



## Gain Settings Expert

- Default setting: **Fix**

You may want to make this setting if you connected this player to your amplifier using the 5.1 channel analog outputs.

Under the default setting, all channels are output at the relative volumes they were recorded at. Change the setting to **Variable** if you want to adjust the relative volume levels of any of the speakers.

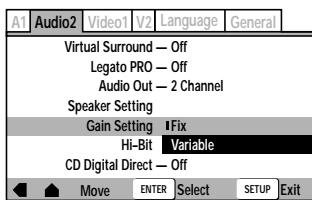
Adjustment is in the range of -6dB to +6dB, in steps of 0.5dB.

- When set to **Variable**, the overall output level may sound quieter than when set to **Fix**. This is not a malfunction.

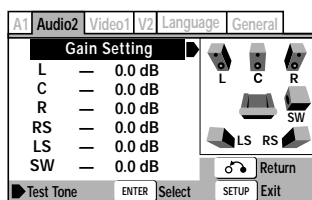


### Note

Gain settings are not effective when playing a CD with **CD Digital Direct** set to **On**.



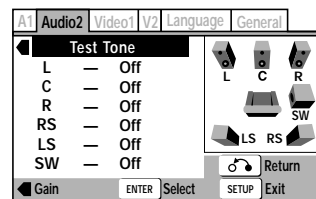
Press ENTER



To help you gauge the correct gain levels, set the **Test Tone** to **On** (test tone from just that speaker) or **Auto** (test tone from each speaker in turn, excluding the subwoofer) then adjust the gain so that all speakers appear to be the same volume from your listening position.

Follow the on-screen displays to select speakers and set the channel levels.

- You can adjust the Test Tone setting only when the player is stopped.
- Many AV amplifiers allow you to make similar settings at the amplifier stage. In this case, set the channel levels at the player or the amplifier, not both.
- As the test tone plays through a speaker, its name is highlighted in yellow on-screen.



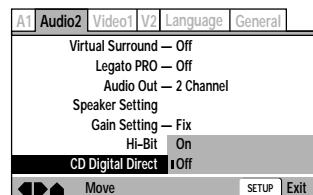
### Remember

You can't use the test tone function when the **Audio Out** setting is **2 Channel** (see page 43). The test tone will not work with the disc tray open, or while a disc is playing.

## CD Digital Direct Expert

- Default setting: **Off**

Setting this to **On** increases CD audio quality by bypassing certain audio circuits in the player that audio signal would otherwise pass through. However, this must be set to **Off** for proper playback of DTS encoded CDs.



### Remember

If this setting is set to **On** when a DTS CD is playback, noise is produced.

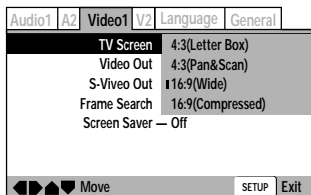
## Video settings

### TV Screen

- Set in Setup Navigator (Default: **16:9 (Wide)**)

If you have a widescreen TV, select the **16:9 (Wide)** setting—widescreen DVD software is then shown using the full screen area. When playing software recorded in conventional (4:3) format, the settings on your TV will determine how the material is presented—see the manual that came with your TV for details on what options are available. If your TV does not have settings for how 4:3 sources look, choose the **16:9(Compressed)** setting. The picture you see on your TV will be determined by the disc. See [page 68](#) for more information.

If you have a conventional TV, choose either **4:3 (Letter Box)** or **4:3 (Pan & Scan)**. In Letter Box mode, widescreen software is shown with black bars at the top and bottom of the screen. Pan & Scan chops the sides off widescreen material to make it fit the 4:3 screen (so even though the picture looks larger on the screen, you're actually seeing less of the movie).



#### Note

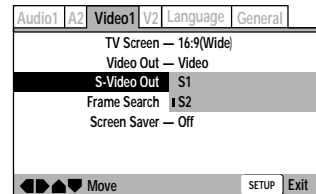
- You cannot change this setting when a disc is playing.
- Some discs will not allow you to change the aspect ratio.

### S-Video Out Expert

- Default setting: **S2**

*You only need to make this setting if you connected this player to your TV using an S-Video cord.*

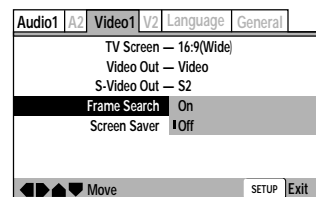
If you find that the picture is stretched or distorted on the default **S2** setting, try changing it to **S1**.



### Frame Search Expert

- Default setting: **Off**

Set this to On if you want to be able to do frame-accurate searching of DVD discs (see [page 23](#) for how to do a time & frame search). On the default setting, the time & frame search is not available.

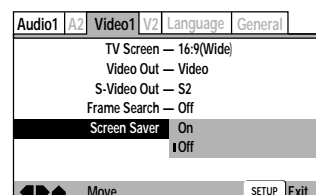


### Screen Saver Expert

- Default setting: **Off**

If a constant image is displayed on a conventional CRT-type TV, it can “burn in” leaving a ghost image on the screen. Switch to **On** to make sure that a constant image is not displayed for a dangerously long time.

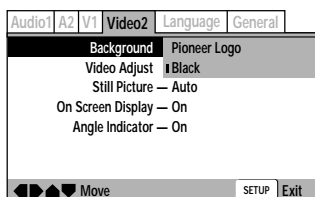
If the **Screen Saver** comes on when the Speaker Setup test tone is playing, the test tone will stop ([page 46](#)).



## Background

- Default setting: **Black**

This specifies what the screen shows when the player is stopped.

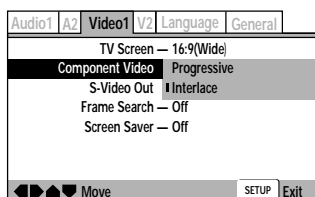


## Component Video

Compared to a standard interlaced TV picture, a progressive scan TV is capable of stable, flicker-free images.

Set only if you connected the **COMPONENT VIDEO OUT** or **D1/D2** D-Video jacks to a progressive scan-compatible TV or monitor.

Make changes to the **Component Video** setting in the Setup screen **Video 1** menu.



- **Progressive** – Use this setting with TVs and monitors that have progressive scan component video inputs. Check the TV's instruction manual if you are not sure about this.
- **Interlace** – (default setting) use this setting with regular TVs that are not compatible with progressive scan. Check the TV's instruction manual if you are not sure about this.

## Tip

If this player is set to output progressive-scan video, it's possible that the picture will appear stretched when playing discs recorded in 4:3 format. This happens when the TV's aspect ratio is set 'Full'. To see the picture in its correct aspect ratio, change the TV setting to 'Normal'. If your TV doesn't have settings to change the aspect ratio of the picture, set this player to **16:9 (Compressed)**.

## Note

**If you connect a TV that is not compatible with a progressive scan signal and choose one of the progressive scan settings, you will not be able to see any picture at all.** With your TV connected using either the composite or S-Video terminals, choose the **Interlace** setting in the **Component Video** menu.

### Compatibility of this unit with progressive-scan TVs.

‘CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE “STANDARD DEFINITION” OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

“480P (525P) DVD PLAYER is compatible with the following Pioneer displays and monitors.”

### PLASMA DISPLAY (U.S. model)

- PDP-5030HD • PRO-1000HD
- PDP-4330HD

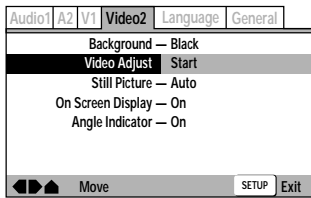
### PROJECTION MONITOR RECEIVER

- PRO-720HD • PRO-620HD • PRO-520HD
- SD-643HDS • SD-533HDS



## Video Adjust

There are several preset picture quality settings that suit different kinds of display device (TV, Plasma display, etc.). Alternatively, set up your own and save them in the player's memory.



- **TV (CRT)** – optimized settings for a standard television set.
- **PDP** – optimized for a plasma display.
- **Professional** – (default setting) optimized for a professional monitor.
- **Memory 1, 2, 3** – User presets (see page 51 for more on these)

You can highlight a preset while a disc is playing (before you press **ENTER** to select it) to see the effect on the picture immediately.

 **Note**

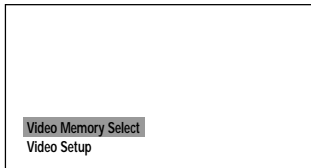
Depending on the disc and your TV/monitor, the effect of these settings may not be clear.

## Selecting a preset

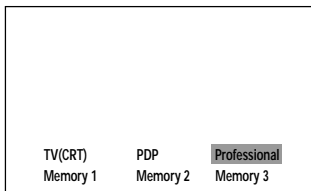
### 1 Select 'Start'.

You can also access these settings by pressing **V. ADJ.**

### 2 Select 'Video Memory Select'.



### 3 Select a preset.

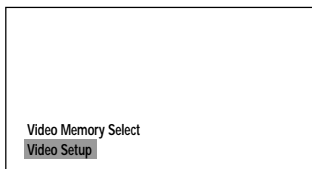


## Creating your own setting (1)

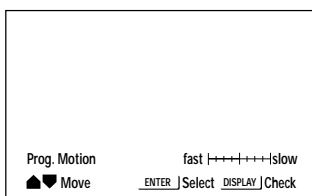
### 1 Select 'Start'.

You can also access these settings by pressing **V**.  
**ADJ**.

### 2 Select 'Video Setup'



### 3 Move the Joystick up/down to select a picture quality parameter, then move the Joystick left/right to adjust that parameter.



- **Prog. Motion** – When using progressive scan, this adjusts the motion and still picture quality.
- **PureCinema** – When watching DVD movies, PureCinema optimizes the picture quality. The default setting is **Auto1**, but if the picture appears unnatural, then set to **Auto2**, **On** or **Off** as desired and adjust the Prog. Motion setting (see above). See *PureCinema* in the *Glossary* starting on **page 61**.
- **YNR** – Adjusts the amount of noise reduction (NR) applied to the Y (brightness) component.
- **CNR** – Adjusts the amount of noise reduction (NR) applied to the C (colour) component.
- **MNR** (Mosquito Noise Reduction) – Adjusts the amount of noise reduction applied to the mosquito noise (video artifacts on the edge of the image resulting from MPEG compression).
- **BNR** (Block Noise Reduction) – Adjusts the amount of noise reduction applied to the block noise.

- **Sharpness High** – Adjusts the sharpness of the high-frequency (finely detailed) elements in the picture.
- **Sharpness Mid** – Adjusts the sharpness of the mid-frequency (less detailed) elements in the picture.
- **Detail** – Adjusts how sharp edges appear in the picture.
- **White Level** – Adjusts the intensity of white in the picture.
- **Black Level** – Adjusts the intensity of black in the picture.
- **Black Setup** – For correction of floating black colour.
- **Gamma** – Adjusts the brightness of the darker images in the picture.
- **Hue** – Adjusts the overall colour balance between red and green.
- **Chroma Level** – Adjusts how saturated colours appear.
- **Chroma Delay** – Compensates for misalignment of the Y (brightness) and the C (colour) components.

### 4 Press ENTER to save your changes.

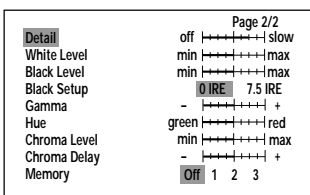
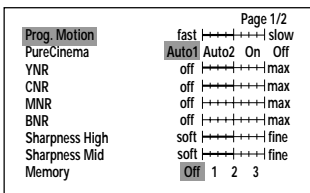
## Creating your own setting (2)

### 1 Select 'Start'.

You can also access these settings by pressing **V**. **ADJ.**

### 2 Select 'Video Setup'

### 3 Press DISPLAY.



4 Move the Joystick up or down to select a picture quality parameter, then move the Joystick left or right to adjust that parameter.

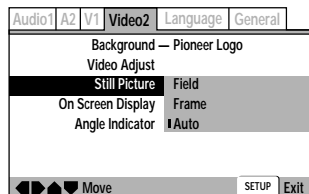
5 To save your changes in one of the user presets, highlight Memory 1, 2 or 3 and press ENTER.

## Still Picture Expert

- Default setting: **Auto**

The player uses one of two processes when displaying a still frame from a DVD disc. The default **Auto** setting automatically chooses the best setting each time.

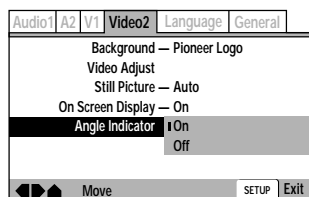
- **Field** – produces a stable, generally shake-free image.
- **Frame** – produces a sharper image, but more prone to shake than field stills.



## Angle Indicator Expert

- Default setting: **On**

If you prefer not to see the camera icon on-screen during multi-angle scenes on DVD discs, change this setting to **Off**.



## Language settings

### Audio Language

- Default Setting: **English**

This setting is your preferred audio language for DVD discs. If the language you specify here is recorded on a disc, the system automatically plays the disc in that language (although this depends on the **Auto Language** setting—see [page 54](#)).



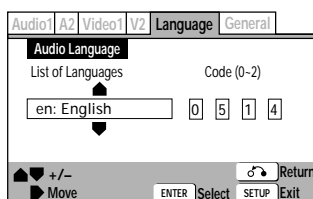
- Taiwanese model:

English

Chinese

Other

The DVD format recognizes 136 different languages. Choose **Other** if you want to specify a language other than those listed, then follow the on-screen display to select a language. You may also want to refer to the Language code list on [page 66](#).



### Tip

You can switch between the languages recorded on a DVD disc any time during playback using the **AUDIO** button. (This does not affect this setting.)

### Note

- You cannot switch languages if there is only one language recorded on the disc. In this case, the ⚙ mark is displayed.
- For some discs, selection can be made using the DVD menu. In these cases, press **MENU** to display the DVD menu screen and then make your selection.

## Subtitle Language

- Default Setting: **English**

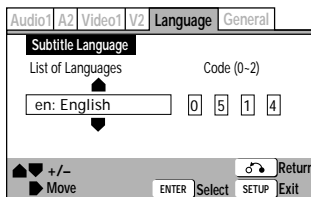
This setting is your preferred subtitle language for DVD discs. If the language you specify here is recorded on a disc, the system automatically plays the disc with those subtitles (although this depends on the **Auto Language** setting—see [page 54](#)).



- Taiwanese model:

English  
Chinese  
Other


The DVD format recognizes 136 different languages. Choose **Other** if you want to specify a language other than those listed, then follow the on-screen display to select a language. You may also want to refer to the Language code list on [page 66](#).



### Tip

You can change or switch off the subtitles on a DVD disc any time during playback using the **SUBTITLE** button. (This does not affect this setting.)

### Note

- The subtitle language cannot be switched if the subtitle language is not recorded, or if only one language is recorded. In this case, the  mark will be displayed.
- To clear subtitles during playback, press **SUBTITLE** and then press **CLEAR**, or press **SUBTITLE** until **Off** appears.
- For some discs, subtitle language selection can be made using the menu on the DVD. In this case, press **MENU** to display the DVD menu screen and then make your selection.

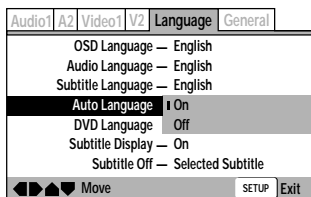
## Auto Language

- Default Setting: **On**

When set to **On**, the player always selects the default audio language on a DVD disc (French dialog for a French movie, for example), and displays subtitles in your preferred subtitle language only if that is set to something different. In other words, movies in your native language won't have any subtitles, while foreign language movies will be shown with subtitles.

Set to **Off** to have the system play discs strictly according to your **Audio Language** and **Subtitle Language** settings.

For **Auto Language** to work, the **Audio Language** and **Subtitle Language** settings must be the same—see pages 52, 53.



### Tip

You can still switch audio and subtitle languages on playback using the **AUDIO** and **SUBTITLE** buttons.

## DVD Language Expert

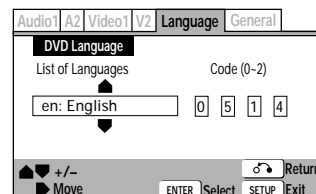
- Default Setting: **w/Subtitle Language**

Some multilingual discs have disc menus in several languages. This setting specifies in which language the disc menus should appear. Leave on the default setting for menus to appear in the same language as your **Subtitle Language**—see page 53.



- Taiwanese model:  
English  
Chinese  
Other

The DVD format recognizes 136 different languages. Choose **Other** if you want to specify a language other than those listed, then follow the on-screen display to select a language. You may also want to refer to the Language code list on page 66.



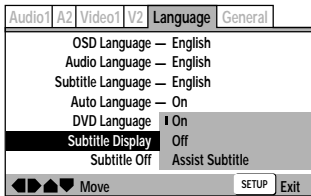
### Note

You can also select the DVD language from the DVD disc menu. Press **MENU** to open the DVD menu and make your selection accordingly.

## Subtitle Display Expert

- Default Setting: **On**

When set to **On**, the player displays subtitles according to the **Subtitle Language** and **Auto Language** settings. Set to **Off** to switch subtitles off altogether (although see **Subtitle Off** on this page for special cases). Set to **Assist Subtitle** to have the player display the extra assistive subtitles recorded on to some DVD discs.



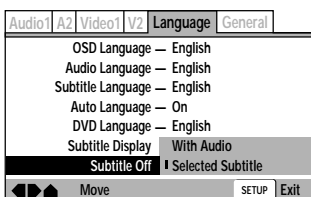
### Note

- If there is no subtitle information recorded on the disc, no subtitles are displayed even if this function is set to **On**.
- Whether this setting is **On** or **Off**, you can still switch subtitles (or switch them off) using the **SUBTITLE** button.

## Subtitle Off Expert

- Default Setting: **Selected Subtitle**

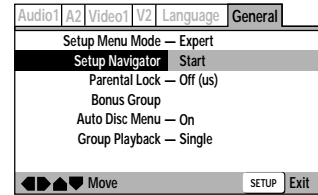
Some discs display subtitles even if the **Subtitle Display** setting (above) is set to **Off**. In this case, you can either have the subtitles displayed in the same language as your preferred audio language (**With Audio**), or in your preferred subtitle language (**Selected Subtitle**). If the **Audio Language** and **Subtitle Language** settings are the same then both of these choices will give the same result.



## General settings

### Setup Navigator

Use the Setup Navigator to make the basic settings for your DVD player. See **page 17** for detailed instructions.



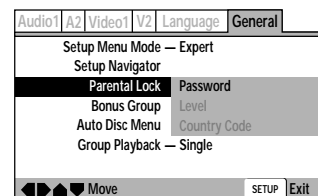
### Parental Lock

- Default level: **Off**
- Default password: *none*
- Default country code: **us (2119)**

Some DVD Video discs feature a Parental Lock level. If your player is set to a lower level than the disc, it will require you to enter a password before the disc will play. This gives you some control about what your children watch on your DVD player.

Some discs also support the Country Code feature. The player does not play certain scenes on these discs, depending on the country code you set.

Before you can set the Parental Lock level or the Country Code you must register a password. As the password owner, you can change the Parental Lock level or Country Code whenever you like. You can also change the password.



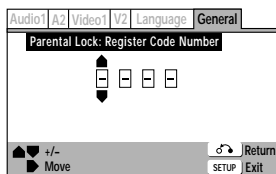
### Note

Not all discs that you may consider inappropriate for your children use the Parental Lock feature. These discs will always play without requiring the password first.

## Registering a new password

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

- 1 Select 'Password'.



- 2 Use the number buttons to enter a 4-digit password.

It's also possible to use the Joystick to set the password (up and down to set the number; left and right to change the cursor position).

- 3 Press ENTER to register the password.

If you forget your password, you can reset the system then register a new one. See page 65 for how to reset the player.

## Changing your password

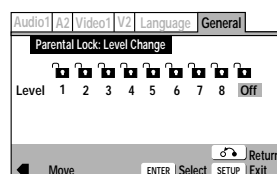
To change your password, confirm your existing password then enter a new one.

- 1 Select 'Password Change'.
- 2 Use the number buttons to enter your existing password.
  - The numbers appear as asterisks as you enter them.
  - It's also possible to use the Joystick to set the password (up and down to set the number; left and right to change the cursor position).
- 3 Press ENTER.
- 4 Enter a new password.
- 5 Press ENTER.

## Setting/changing the Parental Lock level

- 1 Select 'Level'.
- 2 Use number buttons to enter your password, then press ENTER.
- 3 Select a new level.

Move leftward to lock more levels (more discs will require the password); rightward to unlock levels. You can't lock level 1.



- 4 Press ENTER to set the new level.



### Tip

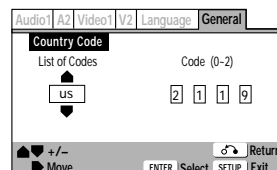
Use the Condition Memory feature (page 32) to save the Parental Lock level for individual discs.

## Setting/changing the Country Code

You may also want to refer to the Country code list on page 66.

- 1 Select 'Country Code'.
- 2 Use number buttons to enter your password, then press ENTER.
- 3 Select a country code.
 

You can select the country code by letter or number. See page 66 for the list of country codes.



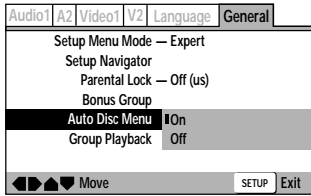
- 4 Press ENTER to set the new Country Code.



## Auto Disc Menu Expert

- Default setting: **On**

This specifies whether the menu (Top menu) is automatically displayed after loading a disc. Set to **On** if you want the menu displayed automatically, or **Off** if you don't want it displayed.

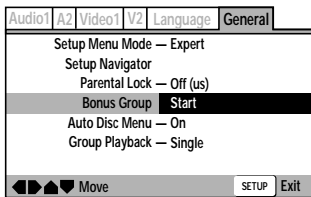


### Note

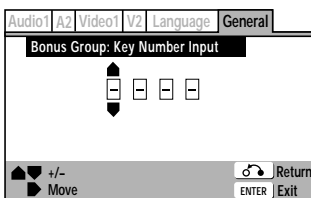
Some DVD discs display a menu automatically regardless of this setting. If you press **▶** while a disc is loading, this setting is ignored.

## Bonus Group Expert

Some DVD-Audio discs have an extra 'bonus' group that requires a 4-digit key number to access. See the disc packaging for details and the key number. When you try and play the bonus group, the key number input screen will automatically appear, although it is also available from the **General** menu. Input the number and press **ENTER**.



Press **ENTER** twice



### Note

If you eject the disc, switch the power off, or unplug the player, you will need to re-enter the key number.

## Group Playback Expert

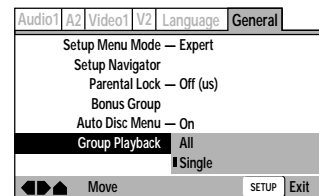
- Default setting: **Single**

DVD-Audio discs can have up to 9 groups of tracks. When set to **Single**, the selected group plays and then the disc stops, or returns to the menu screen. Use Group Search (**page 23**) to select the group to play. (You cannot use the track skip **◀◀ / ▶▶** or scan buttons **◀◀ / ▶▶** in this mode.)

Set to **All** if you want to play all the groups on a disc consecutively.

### Note

Even if the players is set to **All** but you select a group to play from the disc menu, only that group will play. If you stop playback, all groups will play again when you restart playback.



## Handling discs

When holding discs of any type, take care not to leave fingerprints, dirt or scratches on the disc surface. Hold the disc by its edge or by the center hole and edge.



Damaged or dirty discs can affect playback performance. Take care also not to scratch the label side of the disc. Although not as fragile as the recorded side, scratches can still result in a disc becoming unusable.

Should a disc become marked with fingerprints, dust, etc., clean using a soft, dry cloth, wiping the disc lightly from the center to the outside edge as shown in the diagram below.



Wipe lightly from the center of the disc using straight strokes.

Don't wipe the disc surface using circular strokes.

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

## Storing discs

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

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

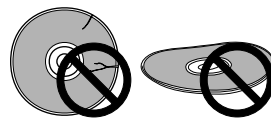


For more detailed care information see the instructions that come with discs.

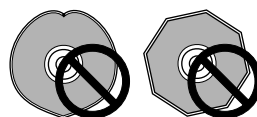
Do not load more than one disc into the player.

## Discs to avoid

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



This unit is designed for use with conventional, fully circular discs only. Use of shaped discs is not recommended for this product. Pioneer disclaims all liability arising in connection with the use of shaped discs.



## Cleaning the pickup lens

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

## Problems with condensation

Condensation may form inside the player if it is brought into a warm room from outside, or if the temperature of the room rises quickly. Although the condensation won't damage the player, it may temporarily impair its performance. For this reason you should leave it to adjust to the warmer temperature for about an hour before switching on and using.

## Hints on installation

We want you to enjoy using this unit for years to come, so please bear in mind the following points when choosing a suitable location for it:

### Do...

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

### Don't...

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

## Moving the player

If you need to move the player, first press **⏻STANDBY/ON** on the front panel to turn the player off. Wait for **--OFF--** to disappear from the display, then unplug the power cord. Never lift or move the unit during playback—discs rotate at a high speed and may be damaged.

## Power cord caution

Handle the power cord by the plug part. 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, or other object on the power cord or pinch the cord in any other way. Never make a knot in the cord or tie it with other cords. The power cords should be routed so that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electric shock. Check the power cord once in a while. If you find it damaged, ask your nearest Pioneer authorized service center or your dealer for a replacement.

## Glossary

### Analog audio

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

### Aspect ratio

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

### Bonus Group (DVD-Audio only)

An 'extra' group on some DVD-Audio discs that requires a key number to access. See also *Group*.

### Browsable pictures (DVD-Audio only)

A feature of some DVD-Audio discs in which the user can browse still pictures recorded on the disc as the audio is played. See also *Slideshow*.

### Chapter (DVD-Video, DVD-RW)

Just as a book is split up into several chapters, a title on a DVD disc is usually divided into chapters. See also *Title*.

### Digital audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also *Sampling frequency* and *Analog audio*.

### Dolby Digital



Using a maximum of 5.1 channels of audio, this high quality surround system is used in many of the finer movie theaters around the world.

### DTS



DTS stands for Digital Theater System. DTS is a surround system different from *Dolby Digital* that has become a popular surround sound format for movies.

### Dynamic range

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

### File extension

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

### Group (DVD-Audio only)

A collection of tracks on a DVD-Audio disc. Equivalent to a DVD-Video title. See also *Title* and *Track*.

### Interlaced video

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

### MP3

MP3 (MPEG1 audio layer 3) is a compressed audio file format. Files are recognized by their file extension ".mp3" or ".MP3".

### MPEG audio

#### MPEG ) ( Multichannel

An audio format used on Super VCDs/Video CDs and some DVD discs. This unit can convert MPEG audio to PCM format for wider compatibility with digital recorders and AV amplifiers. See also *PCM*.

**MPEG video**

The video format used for Super VCDs/Video CDs and DVDs. Super VCDs/Video CDs uses the older MPEG-1 standard, while DVD uses the newer and much better quality MPEG-2 standard.

**Multi-session**

A CD-R/RW that contains two or more 'sessions'. Each session is a complete recording process, so each session is read as a complete disc. This player can only read the first session on a disc.

**Optical digital output**

A jack that outputs digital audio in the form of light pulses. Connect components with optical digital jacks using a special optical cord, available from good audio dealers.

**Packed PCM (DVD-Audio only)**

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

**PCM (Pulse Code Modulation)**

The most common system of encoding digital audio, found on CDs and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital, DTS and MPEG audio to PCM. See also *Digital audio*.

**PBC (PlayBack Control)  
(Super VCD/Video CD only)**

A system of navigating a Super VCD/Video CD through on-screen menus recorded onto the disc. Especially good for discs that you would normally not watch from beginning to end all at once—karaoke discs, for example.

**Progressive scan video**

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

**PureCinema (DVD-Video only)**

Video on a DVD discs may be either video material (originally shot on video) or film material (originally shot on film). Video material has a frame rate of 30 frames/sec.(NTSC), compared with 24 frames/sec. for film. This player converts film material to 60 frames/sec. (in progressive scan mode). PureCinema adjusts the picture so that it matches more closely the picture quality of a cinema screen.

You can see whether video on a DVD disc is film or video material by displaying the video transmission rate (see **page 34**). If a hash mark (#) appears above the transmission rate display, it is film material.

**Regions (DVD-Video only)**

These associate discs and players with particular areas of the world. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

**Sampling frequency**

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

**Slideshow (DVD, Super VCD/Video CD)**

A feature of some DVD discs in which still pictures recorded on the disc cycle automatically as the audio is played. See also *Browsable pictures*.

**Title (DVD-Video only)**

A collection of chapters on a DVD-Video disc. Equivalent to a DVD-Audio group. See also *Chapter* and *Group*.

**Track**

Audio CDs, Super VCDs/Video CDs and DVD-Audio discs all use tracks to divide up the content of a disc. The DVD-Video equivalent is called a chapter. See also *Chapter* and *Group*.

## 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 disc is ejected automatically after loading.

- Dirty or damaged disc.  
See **page 58** for disc care information.
- Disc not seated properly in the disc guide.  
Align the disc properly.
- Incompatible region number.  
If the region number on a DVD-Video disc does not match the number on the player, the disc cannot be used (**page 9**).
- Condensation inside the player.  
Allow time for condensation to evaporate. Avoid using the player near an air-conditioning unit.

### Playback is not possible.

- Disc is loaded upside down.  
Reload the disc with the label side face up.
- A Super VCD that does not conform with the IEC standards might not play normally.

### Cannot play DVD-RW disc

- If the display shows '**COPY PROTECT PROGRAM, UNPLAYABLE**', this means that this disc cannot be played.

### DVD-Audio playback stops.

- The disc may have been illegally copied.

### mark appears on screen.

- The operation is prohibited by the player.

### mark appears on screen.




- The selected function does not operate for that disc.

### When making changes in the Setup OSD menus,

#### is displayed.

- There is a CD or Super VCD/Video CD loaded and the setting that was changed applies only to DVD discs.  
The settings will take effect next time a DVD is loaded.



### Picture playback stops and the operation buttons cannot be used.

- Press , then start playback again ().
- Switch the power off once, unplug from the wall socket, then plug back in and switch on again using the front panel STANDBY/ON.


### New settings made in the Setup screen menus while a disc is playing are ineffective.

- Some settings can be changed while a disc is playing, but are not effective until the disc is stopped then restarted. This is not a malfunction.

Make the same setting when the player is stopped.

Press , then restart playback (). Note that making settings in the Setup screen menus may cancel the **RESUME** function.

### Settings are canceled.

- When the power is cut due to power failure or by unplugging the power cord, settings will be canceled.  
Press STANDBY/ON on the front panel to turn the player off. Wait for '--OFF--' to disappear from the display, then unplug the power cord.

### No picture/No color.

- Incorrect video connections.  
Check that connections are correct and that plugs are inserted fully.
- TV/monitor or AV amplifier settings are incorrect.  
Check the instruction manual of the connected equipment.
- The **Component Video** menu is set to **Progressive** but your TV/monitor is not compatible with progressive scan.

Reconnect the player to your TV using a composite or S-Video cord and set the TV to the appropriate input. Now choose the Interlace setting in the **Component Video** menu, then switch the TV input back to the component input. (**page 48**).

Reset the player (**page 65**). Component Video will be reset to **Interlace** but you'll also lose other settings.

### Screen is stretched or aspect does not change.

- The **TV Screen** setting in the Setup menu is incorrect.  
Set the **TV Screen** option to match the TV/monitor you're using (**page 47**).

### Screen is suddenly stretched when the Setup screen is opened.

- If the Setup screen is opened during playback of a DVD being viewed in the letter box format, the screen may switch to the wide screen format.

This is not a malfunction. The screen will return to normal when the Setup screen is closed.

### Picture disturbance during playback or dark.

- This player is compatible with Macro-Vision System copy guard. Some discs include a copy prevention signal, and when this type of disc is played back, stripes etc., may appear on some sections of the picture depending on the TV.

This is not a malfunction.

- The TV system may be set inappropriately.  
See *Setting the TV System* on **page 16**.
- Discs respond differently to particular player functions. This may result in the screen becoming black for a brief instant or shaking slightly when the function is executed.

These problems are largely due to differences between discs and disc content and are not malfunctions of this player.

- When using progressive-scan.  
If your TV is connected using the **COMPONENT VIDEO OUT** jacks, set the **Component Video** menu to **Interlace** (**page 48**).

### When recorded on a VCR or passed through an AV selector, there is disturbance in the playback picture.

- Due to the player's copy protection circuits, connection of this device through a VCR or an AV selector may prevent recording or cause picture problems.

This is not a malfunction.

### Some settings in the Setup Menu do not appear.

The Setup Menu Mode is set to **Basic**; set it to **Expert** (**page 39**).

### The remote control doesn't seem to work.

- The **CONTROL IN** jack on the rear panel is connected.  
Use the remote control of the connected component to control this player.
- The remote control is too far from the player, or the angle with the remote sensor is too wide.  
Use the remote within its operating range (**page 7**).
- The batteries are exhausted.  
Put in new batteries (**page 7**).

### Cannot listen to high-sampling rate audio through the digital output.

- **Linear PCM Out** is set to **Down Sample On**.  
Set to **Down Sample Off**.
- As a copy-protection measure, some DVDs do not output 96 kHz audio.  
In this case, even if **Down Sample Off** is selected, the player automatically outputs the audio at 48 kHz. This is not a malfunction.

### No audio, or audio is distorted.

- Some DVD discs do not output digital audio.  
Switch your amplifier to the player's analog outputs.
- Dirt, dust, etc. on the disc.  
Clean the disc (**page 58**).
- Interconnects are not fully inserted into the terminals (or are not connected).  
Check that all interconnects are firmly inserted.
- Dirty or oxidized plugs/terminals.  
Clean the plugs/terminals.
- Incorrect audio cable connection.  
Check the audio connections (**pages 10-12**).
- Player's output is connected to the amplifier's phono (turntable) inputs.  
Connect to any set of inputs *except* phono.
- The disc is paused.  
Press **▶** or **||** to exit the pause mode.
- Incorrect amplifier settings.  
Check that the volume is turned up, that the speakers are on, the input function set correctly, etc.
- The **Audio Out** setting is incorrect.  
If there is no dialog from the front L/R speakers, set **Audio Out** to **2 Channel**. If there is no output from the rear, center and subwoofer speakers, set **Audio Out** to **5.1 Channel** (**page 43**).
- The player is set to 5.1 ch playback, but sound is only 2ch.  
Check that 2ch playback is not selected in the disc's menu.

### The analog audio is OK, but there appears to be no digital audio signal.

- Incorrect **Audio 1** menu settings.  
Make sure that the **Digital Out** setting is set to **On** (**page 42**).  
Check that the **Dolby Digital** and **DTS** settings are suitable for your amplifier—check the amp's instruction manual.

**Noticeable difference in DVD and CD volume.**

- DVDs and CDs use different recording methods.  
This is not a malfunction.

**Cannot play multi-channel audio**

- Make sure that **5.1 Channel** is selected in the **Audio Out** menu (page 43).
- Check that the settings in the **Speaker Setting** screen are correct (page 44).
- Check the audio options available from the disc's menu.

**No digital audio output**

- Check that **Digital Out** setting is set to **On** (page 42).
- Some DVD-Audio discs prohibit digital audio output.
- No digital audio is output when playing SACDs.

**Cannot output 192kHz or 176.4kHz digital audio.**

The player does not output digital audio at these sampling rates.

**Cannot output 96kHz or 88.2kHz digital audio.**

- Check that the **Linear PCM** setting is not set to **Down Sample On** (page 41).
- Some discs are digital copy protected and do not output high sampling rate digital audio.

**No DTS audio output.**

- If this unit is connected to a non-DTS compatible amplifier or decoder using a digital audio cable, set **DTS Out** to **DTS ► PCM** in the Setup menu. If you do not do this, noise will be output if you try and play a DTS disc.
- If this unit is connected to a DTS-compatible amplifier or decoder using a digital audio cable, check the amplifier settings, and that the cable is properly connected.

**Audio mix does not sound right or sounds incomplete (for example, inaudible dialog).**

- Incorrect Setup menu settings.  
Make sure that **2 Channel** output is selected for the **Audio Out** menu option if you've connected to the stereo inputs on your amplifier or TV (page 43).
- If the power is switched off before exiting the Setup menu, the settings are not stored.  
Make sure that you exit the Setup menu after changing any settings before switching off.

**The disc containing the MP3 tracks won't play.**

- If the disc is a recordable CD, make sure that the disc is finalized. If the message '**UNPLAYABLE MP3 FORMAT**' is displayed when you try to play a disc/track:  
Check that the track(s) are in the MPEG1 Audio Layer 3 format.  
Check that the sampling rate of the track(s) are 44.1 or 48kHz.

**Some MP3 tracks appear to be missing from a disc.**

- If a track name does not end in ".mp3" or ".MP3", this player will not recognize it as an MP3 track.
- This player only recognizes the first 250 folders and tracks on a disc. If there are more folders/tracks than this, you will not be able to play them.
- This player is not compatible with multi-session discs. If the disc is multi-session, you will only be able to play tracks recorded onto the first session.

**The audio recorded on the disc is not output properly.**

- If the audio is switched to **[2]** when playing a Super VCD that contains only one stereo soundtrack, there may be no sound at all. To restore the sound, return the **AUDIO** button back to its original position (page 26).

**Can't perform frame search, or the frame number is not displayed**

- Check that the **Frame Search** option is set to **On** (page 47).
- You can only use frame search with DVD-Video discs.
- Frame numbers are only displayed with DVD-Video discs, and only when the disc is paused or during frame advance/reverse.



**Frame search doesn't find the frame number input, or some frames are skipped when using frame advance.**

- You may experience this with discs recorded in 24 frames/second progressive scan format. With these discs, the player 'misses' one frame every six frames. For this reason, the frame numbers do not appear continuous when using frame advance, and it may not be possible to display the exact frame you searched for. The player does not actually drop any frames that are recorded on the disc, however.



## Resetting the Player

Resetting the player returns all menu, picture and password settings to their factory defaults.

- 1 **Switch the player into standby using the front panel  STANDBY/ON.**
- 2 **Hold down the front panel  button and switch back on.**  
All settings will have been cleared.



### Note

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

## Country Code List

Country	Input-Code	Country-code
ARGENTINA	0118	ar
AUSTRALIA	0121	au
AUSTRIA	0120	at
BELGIUM	0205	be
BRAZIL	0218	br
CANADA	0301	ca
CHILE	0312	cl
CHINA	0314	cn
DENMARK	0411	dk
FINLAND	0609	fi
FRANCE	0618	fr
GERMANY	0405	de
HONG KONG	0811	hk
INDIA	0914	in
INDONESIA	0904	id
ITALY	0920	it
JAPAN	1016	jp
KOREA, REPUBLIC OF	1118	kr
MALAYSIA	1325	my
MEXICO	1324	mx
NETHERLANDS	1412	nl
NEW ZEALAND	1426	nz
NORWAY	1415	no
PAKISTAN	1611	pk
PHILIPPINES	1608	ph
PORTUGAL	1620	pt
RUSSIAN FEDERATON	1821	ru
SINGAPORE	1907	sg
SPAIN	0519	es
SWITZERLAND	0308	ch
SWEDEN	1905	se
TAIWAN, PROVINCE OF CHINA	2023	tw
THAILAND	2008	th
UNITED KINGDOM	0702	gb
UNITED STATES OF AMERICA	2119	us







## Language code list

Language	Code
Japanese/japonais ( ja )	1001
English/anglais ( en )	0514
French ( fr )	0618
German ( de )	0405
Italian ( it )	0920
Spanish ( es )	0519
Dutch ( nl )	1412
Russian ( ru )	1821
Chinese ( zh )	2608
Korean ( ko )	1115
Greek ( el )	0512
Afar ( aa )	0101
Abkhazian ( ab )	0102
Afrikaans ( af )	0106
Amharic ( am )	0113
Arabic ( ar )	0118
Assamese ( as )	0119
Aymara ( ay )	0125
Azerbaijani ( az )	0126
Bashkir ( ba )	0201
Byelorussian ( be )	0205
Bulgarian ( bg )	0207
Bihari ( bh )	0208
Bislama ( bi )	0209
Bengali ( bn )	0214
Tibetan ( bo )	0215
Breton ( br )	0218
Catalan ( ca )	0301
Corsican ( co )	0315
Czech ( cs )	0319
Welsh ( cy )	0325
Danish ( da )	0401
Bhutani ( dz )	0426
Esperanto ( eo )	0515
Estonian ( et )	0520
Basque ( eu )	0521
Persian ( fa )	0601
Finnish ( fi )	0609
Fiji ( fj )	0610
Faroese ( fo )	0615
Frisian ( fy )	0625
Irish ( ga )	0701
Scots-Gaelic ( gd )	0704
Galician ( gl )	0712
Guarani ( gn )	0714
Gujarati ( gu )	0721







Language	Code
Hausa ( ha )	0801
Hindi ( hi )	0809
Croatian ( hr )	0818
Hungarian ( hu )	0821
Armenian ( hy )	0825
Interlingua ( ia )	0901
Interlingue ( ie )	0905
Inupiak ( ik )	0911
Indonesian ( in )	0914
Icelandic ( is )	0919
Hebrew ( iw )	0923
Yiddish ( ji )	1009
Javanese ( jw )	1023
Georgian ( ka )	1101
Kazakh ( kk )	1111
Greenlandic ( kl )	1112
Cambodian ( km )	1113
Kannada ( kn )	1114
Kashmiri ( ks )	1119
Kurdish ( ku )	1121
Kirghiz ( ky )	1125
Latin ( la )	1201
Lingala ( ln )	1214
Laothian ( lo )	1215
Lithuanian ( lt )	1220
Latvian ( lv )	1222
Malagasy ( mg )	1307
Maori ( mi )	1309
Macedonian ( mk )	1311
Malayalam ( ml )	1312
Mongolian ( mn )	1314
Moldavian ( mo )	1315
Marathi ( mr )	1318
Malay ( ms )	1319
Maltese ( mt )	1320
Burmese ( my )	1325
Nauru ( na )	1401
Nepali ( ne )	1405
Norwegian ( no )	1415
Occitan ( oc )	1503
Oromo ( om )	1513
Oriya ( or )	1518
Panjabi ( pa )	1601
Polish ( pl )	1612
Pashto, Pushto ( ps )	1619
Portuguese ( pt )	1620

Language	Code
Quechua ( qu )	1721
Rhaeto-Romance ( rm )	1813
Kirundi ( rn )	1814
Romanian ( ro )	1815
Kinyarwanda ( rw )	1823
Sanskrit ( sa )	1901
Sindhi ( sd )	1904
Sangho ( sg )	1907
Serbo-Croatian ( sh )	1908
Singhalese ( si )	1909
Slovak ( sk )	1911
Slovenian ( sl )	1912
Samoan ( sm )	1913
Shona ( sn )	1914
Somali ( so )	1915
Albanian ( sq )	1917
Serbian ( sr )	1918
Siswati ( ss )	1919
Sesotho ( st )	1920
Sundanese ( su )	1921
Swedish ( sv )	1922
Swahili ( sw )	1923
Tamil ( ta )	2001
Telugu ( te )	2005
Tajik ( tg )	2007
Thai ( th )	2008
Tigrinya ( ti )	2009
Turkmen ( tk )	2011
Tagalog ( tl )	2012
Setswana ( tn )	2014
Tonga ( to )	2015
Turkish ( tr )	2018
Tsonga ( ts )	2019
Tatar ( tt )	2020
Twi ( tw )	2023
Ukrainian ( uk )	2111
Urdu ( ur )	2118
Uzbek ( uz )	2126
Vietnamese ( vi )	2209
Volapük ( vo )	2215
Wolof ( wo )	2315
Xhosa ( xh )	2408
Yoruba ( yo )	2515
Zulu ( zu )	2621



## When viewing on a standard TV or monitor

Screen format of disc	Setting	Appearance
	4:3 (Letter Box)	 The picture is shown in widescreen with black bars at the top and bottom of the screen.
16:9 	4:3 (Pan & Scan)	 The sides of the picture are cropped so that the picture fills the whole screen.
	16:9 (Wide)	 The picture is squashed. Set to either Pan & Scan or Letter Box.
4:3 	16:9 (Wide) 4:3 (Letter Box) 4:3 (Pan & Scan)	 The picture is presented correctly on any setting.

## When viewing on a widescreen TV or monitor

Screen format of disc	Player Setting	TV Setting	Appearance
16:9 	16:9 (Wide)	Normal	 The picture is squashed. Set your TV to 'Full'.
		Full	 The picture is presented in widescreen.
4:3 	16:9 (Wide)	Normal	 The picture is presented with black bars either side.
		Full	 The picture is stretched. Set your TV to 'Normal'.

Choose this setting if you have a progressive scan-compatible TV and the aspect ratio cannot be changed.

4:3 	16:9 (Compressed) (This setting only has any effect with progressive output.)	Full	 The picture is presented with black bars either side.
--	--	------	--

# Specifications

**General**

**System**

... DVD-Video, DVD-Audio, DVD-R/RW, Super VCD, Video-CD, SACD, CD and MP3 files

**Power requirements**

DV-47A ..... 120 V, 60 Hz

**DV-733A**

Taiwanese model ..... 110 V, 60 Hz

Other models ..... 220-240 V, 50/60 Hz

**Power consumption** ..... 14 W

**Power consumption in standby mode**

DV-47A ..... 0.3 W

**DV-733A**

Taiwanese model ..... 0.3 W

Other models ..... 0.5 W

**Weight**

DV-47A ..... 4.2 kg (9 lb 4 oz)

DV-733A ..... 4.5 kg

**Dimensions**

DV-47A ..... 420 (W) x 277 (D) x 97.5 (H) mm

(16 <sup>9</sup>/<sub>16</sub> (W) x 10 <sup>15</sup>/<sub>16</sub> (D) x 3 <sup>7</sup>/<sub>8</sub> (H) in.)

DV-733A ..... 420 (W) x 278 (D) x 97.5 (H) mm

**Operating temperature** ..... +5°C to +35°C (+36°F to +96°F)

**Operating humidity** ..... 5% to 85% (no condensation)

**S-Video output (2 individual outputs)**

Y (luminance) - Output level ..... 1 Vp-p (75 Ω)

C (color) - Output level ..... 286 mVp-p (75 Ω)

Jacks ..... S-VIDEO jack

**Video output (2 individual outputs)**

Output level ..... 1 Vp-p (75 Ω)

Jacks ..... RCA jack

**Component video output (Y, P<sub>B</sub>, P<sub>R</sub>)**

Output level ..... Y: 1.0 Vp-p (75 Ω)

P<sub>B</sub>, P<sub>R</sub>: 0.7 Vp-p (75 Ω)

Jacks ..... RCA jacks

**D1/D2 video output (DV-S733A only)**

Output level ..... Y: 1.0 Vp-p (75 Ω)

P<sub>B</sub>, P<sub>R</sub>: 0.7 Vp-p (75 Ω)

Jacks ..... D terminal

**Audio output (2 pairs)**

**Output level**

During audio output ..... 200 mVrms (1 kHz, -20 dB)

Number of channels ..... 2

Jacks ..... RCA jack

**Audio output (multi-channel / L, R, C, SW, LS, RS)**

**Output level**

During audio output ..... 200 mVrms (1 kHz, -20 dB)

Number of channels ..... 6

Jacks ..... RCA jack

**Digital audio characteristics**

Frequency response ..... 4 Hz to 44 kHz (DVD fs: 96 kHz)

4 Hz to 88 kHz (DVD-Audio fs: 192 kHz)

S/N ratio ..... 118 dB

Dynamic range ..... 108 dB

Total harmonic distortion ..... 0.001 %

Wow and flutter . Limit of measurement (±0.001% W. PEAK)

or lower

**Digital output**

Optical digital output ..... Optical digital jack

Coaxial digital output ..... RCA jack

**Other terminals**

Control in ..... Minijack (3.5 ø)

Control out ..... Minijack (3.5 ø)

**Accessories**

Audio cable ..... 1

Video cable ..... 1

Remote control unit ..... 1

"AA" size (R6P) batteries ..... 2

Power cord ..... 1

Operating Instructions

*Note: The specifications and design of this product are subject to change without notice, due to improvement.*



## Dear Customer:

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

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

### To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

### Once you have established a comfortable sound level:

- Set the dial and leave it there.

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

## We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

### Decibel

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

### THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.





Should this product require service in the U.S.A. and you wish to locate the nearest Pioneer Authorized Independent Service Company, or if you wish to purchase replacement parts, operating instructions, service manuals, or accessories, please call the number shown below.

8 0 0 - 4 2 1 - 1 4 0 4

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

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

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

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

Pioneer Electronics of Canada, Inc.  
Customer Satisfaction Department  
300 Allstate Parkway, Markham, Ontario L3R OP2  
(905)479-4411  
1(877)283-5901

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

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

Pioneer Électroniques du Canada, Inc.  
Service à la clientèle  
300, Allstate Parkway, Markham, Ontario L3R OP2  
(905)479-4411  
1(877)283-5901

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

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