# Pioneer sound.vision.soul

# DVD Recorder DVR-745H-S DVR-645H-S



**Operating Instructions** 



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Thank you for buying this Pioneer product.

alert the user to the presence of uninsulated

"dangerous voltage" within the product's

magnitude to constitute a risk of electric

enclosure that may be of sufficient

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.

SHOCK, DO NOT REMOVE COVER (OR

SERVICE PERSONNEL

BACK). NO USER-SERVICEABLE PARTS

INSIDE. REFER SERVICING TO QUALIFIED



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

D3-4-2-1-1 En-A

#### WARNING

shock to persons.

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

#### WARNING

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

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel.  $D_{24-21-4,A,En}$ 

#### CAUTION

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

CLASS 1 LASER PRODUCT

VRW2262 - A CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO THE BEAM. CALITION RADIATIONS LASER VISIBLES ET INVISIBLES DE CLASSE 3B QUAND OUVERT. ÉVITEZ TOUT EXPOSITION AU FAISCEAU. ATTENTION ADVARSEL KLASSE 3B SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING VARNING KLASS 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK ATT UTSÄTTA DIG FÖR STRÅLEN. VORSICHT BEI GEÖFFNETER ABDECKUNG IST SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG DER KLASSE 3B IM GERÄTEINNEREN VORHANDEN. NICHT DEM LASERSTRAHL AUSSETZEN! PRECAUCIÓN CUANDO SE ABRE HAY RADIACIÓN LÁSER DE CLASE 3B VISIBLE E INVISIBLE. EVITE LA EXPOSICIÓN A LOS RAYOS LÁSER. VARO! AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LUOKAN 3B LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN. 注意 打開時會有CLASS 3B可見和不可見鐳射輻射,請勿受鐳射束輻射。 注意 ここを開くと CLASS 3B の可視レーザ光及び不可視レーザ光が出ます。ビームを直接見たり、触れたりしないこと。 D3-4-2-1-8 B En

#### WARNING

To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment. D3-4-2-1-7a\_A\_En

#### **Operating Environment**

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

Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light) D34-2-1-7c\_A\_En

#### VENTILATION CAUTION

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

#### WARNING

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

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

#### CAUTION

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

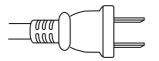
This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period. K041\_En

#### POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement. sou2\_En

#### For Taiwan exclusively

Taiwanese two pin flat-bladed plug



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### **Before you start**

## Chapter 1 Before you start

## What's in the box

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

- Remote control
- AA/R6P dry cell batteries x 2
- Audio/video cable (red/white/yellow)
- RF antenna cable
- Power cable
- · These operating instructions

# Putting the batteries in the remote control

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



## Important

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

- Don't mix new and old batteries together.
- Don't use different kinds of batteries together—although they may look similar, different batteries may have different voltages.
- Make sure that the plus and minus ends of each battery match the indications in the battery compartment.
- Remove batteries from equipment that isn't going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country/area.

#### WARNING

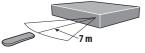
Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries. D3-4-2-3-3\_En

## Before you start

### Using the remote control

Please keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote and the remote sensor on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the unit's remote sensor.
- Remote controllers for different devices can interfere with each other. Avoid using remotes for other equipment located close to this unit.
- Replace the batteries when you notice a fall off in the operating range of the remote.
- When the batteries run down or you change the batteries, the remote control mode is reset to Recorder 1. See *Remote Control Mode* on page 116.
- Use within the operating range in front of the remote control sensor on the front panel, as shown.



• You can control this recorder using the remote sensor of another Pioneer component using the **CONTROL IN** jack on the rear panel. See *Rear panel connections* on page 14 for more information.

## Disc / content format playback compatibility

#### **Compatible media**

- DVD-RW ver.1.1 / 1x, 1x to 2x, ver. 1.2 / 2x to 4x / 2 x to 6x
- DVD-R ver. 2.0 / 1x / 1x to 4x / 1x to 8x / 1x to 16x, ver. 2.1 / 1x to 8x / 1x to 16x
- DVD+RW 1x to 2.4x / 1x to 4x / 3.3x to 8x
- DVD+R 2.4x / 4x / 1x to 8x / 1x to 16x
- DVD-RAM ver. 2.0 / 2x, ver. 2.1 / 2x / 2x to 3x / 2x to 5x, ver. 2.2 / 2x / 2x to 3x / 2x to 5x
- DVD-R DL ver. 3.0 / 2x to 4x
- DVD+R DL 2.4x / 2.4x to 8x

Note that older models of DVD recorders and DVD writers may reject DVD-RW ver. 1.2 discs and/or corrupt the data on the disc. If you want to share DVD-RW discs between this recorder and an older recorder/writer, we recommend using ver. 1.1 discs.

The following table shows older Pioneer DVD recorders' limited compatibility with DVD-RW ver. 1.2 discs.

Model	Playable	Recordable
DVR-7000	Yes <sup>1,2,3</sup>	No
DVR-310 / DVR-510H	Yes <sup>1</sup>	No

<sup>1</sup> Discs should be finalized in this recorder before playing. Unfinalized VR mode and Video mode discs may not play.

<sup>2</sup> **Cannot read the CPRM information** will show in the display when you load a disc. However, this will not affect playback.

<sup>3</sup> Copy-once protected disc titles will not play.

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#### **DVD/HDD Recording and playback compatibility**

This recorder can play and record all the currently popular DVD disc types, as well as providing HDD functionality. The table below shows some specific compatibility differences between the different disc types.

	HDD	D\	/D-R	DVD	D-RW	DVD+R	DVD +RW	DVD- RAM
Marks used in this manual	HDD	<b>DVD (VR)</b> *1	DVD (Video)	<b>DVD (VR)</b> *1	DVD (Video) *2	DVD+R	DVD+RW	<b>DVD-RAM</b> *13, 16
Logos	HDD Hard disk drive	D	R	RW		RWD-P		R A M
Re-recordable / Erasable	•	*3	*3	•	•	*3	• *14	•
Editing of recorded programs	٠	•	• *4	•	• *4	• *4	• *4	٠
Recording of Copy- once protected material	•	• *12		• *12				• *12
Playback in other players/recorders	n/a	*5	• *6	*7	• *6	• *6, 15	• *8	• *9
Chase play	٠							
16:9 and 4:3 program recording	٠	•		•				٠
Dual Mono/Bilingual broadcast recording of both audio ch.	*10, 11	• *11		• *11				• *11

#### Notes to table

\*1 Must be initialized for VR mode recording (page 100) \*2 Must be initialized for Video mode recording (page 100)

\*3 Erasable, but free space does not increase

\*4 Cannot erase sections, edit chapters or use playlist editing

\*5 Must be compatible with DVD-R(VR) playback \*6 Finalize using this recorder (may not playback in some units) (page 48)

\*7 Must be compatible with DVD-RW(VR) playback

\*8 Must be compatible with DVD+RW playback

\*9 Must be compatible with DVD-RAM playback

\*10 Only when HDD Recording Format is set to Video Mode Off (page 113)

- \*11 Only when the recording mode is not set to LPCM
- \*12 CPRM-compatible discs only

\*13 Take the disc out of the cartridge before use. Only Panasonic and Maxell discs have been tested to work reliably with this recorder. Discs from other makers may become unusable when recorded or edited.

\*14 Erasing a title does not increase the available recording time, nor increase the number of recordable titles left.

\*15 Must be compatible with DVD+R playback \*16 Depending on the disc, it may have to be initialized before it can be recorded (page 100). In this case, initialization will take about 1 hour.

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

## **Before you start**

#### Using DVD-R DL/DVD+R DL discs

DVD-R DL (Dual-Layer) and DVD+R DL (Double-Layer) discs contain two recordable layers on a single side, giving about 1.8 times the recording capacity of a conventional single-layer disc. This unit can record to both DVD-R DL and DVD+R DL discs.

- If you intend to play DVD-R DL (Video mode) or DVD+R DL discs recorded on this unit on other DVD recorders/players, you must finalize them. (Note that some DVD recorders/players may not play even finalized DL discs.)
- Please read the information provided on the disc packaging carefully before purchasing DVD-R DL/DVD+R DL discs:
- Confirm the disc version: Use ver. 3.0 / 2x to 4x DVD-R discs.
- Confirm the recording speed: DVD-R should be compatible with 2x or 4x recording; DVD+R with 2.4x to 8x recording.
- This logo indicates that the disc is a DVD-R DL or DVD+R DL disc:



 Correct operation has been confirmed for DVD-R DL discs (ver. 3.0 / 2x, 4x) produced by the following manufacturers: Mitsubishi Kagaku Media, Verbatim (as of March 2005).

#### About DualDisc playback

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

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

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

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

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

#### Other disc compatibility

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



01

#### **CD-R/-RW compatibility**

This recorder cannot record CD-R or CD-RW discs.

 Readable formats: CD-Audio, Video CD/ Super VCD, ISO 9660 CD-ROM\* containing MP3, WMA, JPEG or DivX files.

\* ISO 9660 Level 1 or 2 compliant. CD physical format: Mode1, Mode2 XA Form1. Romeo and Joliet file systems are both compatible with this recorder.

- Multi-session playback: Yes (except CD-Audio and Video CD/Super VCD)
- Unfinalized disc playback: CD-Audio only

#### **Compressed audio compatibility**

- Compatible media: CD-ROM, CD-R, CD-RW, USB
- Compatible formats: MPEG-1 Audio Layer 3 (MP3), Windows Media Audio (WMA)
- Sampling rates: 32 kHz, 44.1 kHz or 48 kHz
- Bit-rates: Any (128 Kbps or higher recommended)
- Variable bit-rate (VBR) MP3 playback: Yes
- VBR WMA playback: No
- WMA encoder compatibility: Windows Media Codec 8 (files encoded using Windows Media Codec 9 may be playable but some parts of the specification are not supported; specifically, Pro, Lossless, Voice and VBR)
- DRM (Digital Rights Management)<sup>1</sup> file playback: No
- File extensions: .mp3, .wma (these must be used for the recorder to recognize MP3 and WMA files – do not use for other file types)

• File structure: Up to 99 folders / 999 files (if these limits are exceeded, only files and folders up to these limits are playable)

# WMA (Windows Media Audio) compatibility



The Windows Media  $^{\textcircled{R}}$  logo printed on the box indicates that this recorder can playback Windows Media Audio content.

WMA is an acronym for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation. WMA content can be encoded

by using Windows Media<sup>®</sup> Player for Windows<sup>®</sup> XP, Windows Media<sup>®</sup> Player 9 or Windows Media<sup>®</sup> Player 10 series.

Windows Media and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

#### 🖉 Note

<sup>1</sup> DRM (digital rights management) copy protection is a technology designed to prevent unauthorized copying by restricting playback, etc. of compressed audio files on devices other than the PC (or other recording equipment) used to record it. For detailed information, please see the instruction manuals or help files that came with your PC and/or software.

## **Before you start**

#### **DivX video compatibility**



DivX is a compressed digital video format created by the DivX<sup>®</sup> video codec from DivX, Inc. This recorder can play DivX video files burned on CD-R/-RW/-ROM discs. Keeping the same terminology as DVD-Video, individual DivX video files are called "Titles." When naming files/titles on a CD-R/-RW disc prior to burning, keep in mind that by default they will be played in alphabetical order.

- Official DivX<sup>®</sup> Certified product.
- Plays all versions of DivX<sup>®</sup> video (including DivX<sup>®</sup> 6) with standard playback of DivX<sup>®</sup> media files.
- File extensions: .avi and .divx (these must be used for the recorder to recognize DivX video files). Note that all files with the .avi extension are recognized as MPEG4, but not all of these are necessarily DivX video files and therefore may not be playable on this recorder.
- File structure: Up to 99 folders or 999 files.

*DivX*, *DivX* Certified, and associated logos are trademarks of DivX, *Inc.* and are used under license.

### DivX<sup>®</sup> VOD content

#### DivX

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

Some DivX VOD content may only be playable a fixed number of times. When you load a disc containing this type of DivX VOD content, the remaining number of plays is shown on-screen and you then have the option of playing the disc (thereby using up one of the remaining plays), or stopping. If you load a disc that contains expired DivX VOD content (for example, content that has zero remaining plays), the message **Rental Expired** is displayed.

If your DivX VOD content allows an unlimited number of plays, then you may load the disc into your recorder and play the content as often as you like, and no message will be displayed.

## Important

- DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.
- If you load a disc that contains DivX VOD content not authorized for this recorder, the message **Authorization Error** is displayed and the content will not play.
- Resetting the recorder (as described in *Resetting the recorder* on page 133) will not cause you to lose your registration code.

#### JPEG file compatibility

- Compatible formats: Baseline JPEG and EXIF 2.2\* still image files \**File format used by digital still cameras*
- Sampling ratio: 4:4:4, 4:2:2, 4:2:0
- Horizontal resolution: 160 to 5120 pixels
- Vertical resolution: 120 to 3840 pixels
- Progressive JPEG compatible: No
- File extensions: .jpg, .jpeg, .jpe, .jif, .jfif (must be used for the recorder to recognize JPEG files – do not use for other file types)
- File structure: The recorder can load up to 99 folders / 999 files at one time (*if there are more files/folders that this on the disc then more can be reloaded*)

01

#### PC-created disc compatibility

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

Discs recorded in packet write mode (UDF format) are not compatible with this recorder.

Check the DVD-R/-RW or CD-R/-RW software disc boxes for additional compatibility information.

#### **Dolby Digital**



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

#### DTS



"DTS" and "DTS Digital Out" are registered trademarks of Digital Theater Systems, Inc.

# About the internal hard disk drive

The internal hard disk drive (HDD) is a fragile piece of equipment. Depending on the conditions under which it is used, or through careless use, it is possible that the recorded contents will be damaged or lost completely, or that normal playback and recording will not be possible. Please understand that in the event of repair or replacement of the HDD or related components, all your HDD recordings will be lost.

Please use the recorder following the guidelines below to protect against possible HDD failure.

The HDD should not be regarded as a place to store recordings permanently. We recommend that you back up your important recordings onto DVD discs in order to protect against accidental loss.

Pioneer cannot under any circumstances accept responsibility for any direct or indirect loss arising from any inconvenience or loss of recorded material resulting from HDD failure.

- Install and use the recorder on a stable, level surface.
- Do not block the rear vent/cooling fan.
- Do not use the recorder in excessively hot or humid places, or in places that may be subject to sudden changes in temperature. Sudden changes in temperature can cause condensation to form inside the recorder. This can be a cause of HDD failure.

## Before you start

 Do not move the recorder immediately after switching it off. If you need to move the recorder, please follow the steps below:

1 After the message **POWER OFF** is shown in the display, wait at least two minutes.

- 2 Unplug from the wall socket.
- **3** Move the recorder.
- If there's a power failure while the recorder is on there is a chance that some data on the HDD will be lost.
- The HDD is very delicate. If used improperly or in an unsuitable environment, it is possible that the HDD will fail after a few years of use. Signs of problems include playback unexpectedly freezing and noticeable block noise (mosaic) in the picture. However, sometimes there will be no warning signs of HDD failure. If the HDD fails, no playback of recorded material will be possible. In this case it will be necessary to replace the HDD unit.

#### **Optimizing HDD performance**

As you record and edit material on the HDD, the data on the disk becomes fragmented, eventually affecting the recorder's performance. Before this happens, the recorder will warn you that it is time to optimize the HDD (which you can do from the Disc Setup menu; see *Optimize HDD* on page 101).

## Symbols used in this manual

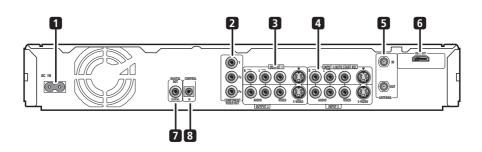
The following icons are provided to help you quickly identify which instructions you need for which kind of disc.

HDD	HDD
DVD	Any type of DVD disc (recordable or playback only), finalized or not.
DVD-Video	Commercially produced DVD, finalized Video mode DVD-R/-RW.
DVD (Video)	Video mode DVD-R/-RW (unfinalized)
DVD (VR)	VR mode DVD-R/-RW
DVD+R	DVD+R
DVD+RW	DVD+RW
DVD-RAM	DVD-RAM
	Audio CD
Video CD	Video CD
Super VCD	Super VCD
WMA/MP3	WMA or MP3 files
DivX	DivX files
ALL	All of the above

02

## Chapter 2 Connecting up

## **Rear panel connections**



#### 1 AC IN

Connect to a power outlet using the supplied power cable after making all other connections.

#### 2 COMPONENT VIDEO OUT

A high-quality video output for connecting to a TV or monitor with a component video input.

#### 3 OUTPUT1 and 2

Two sets of audio/video outputs (stereo analog audio; composite and S-video video) that you can use to connect TVs or monitors.

#### 4 INPUT1/AUTO START REC and INPUT3

Two sets of audio/video inputs (stereo analog audio; composite and S-video video) that you can use to connect to satellite receivers, TVs, VCR or other source component for recording.

#### 5 ANTENNA IN (RF IN)/OUT

Connect your TV antenna to the **ANTENNA IN (RF IN)** jack. The signal is passed through to the **ANTENNA OUT** jack for connection to your TV.

#### 6 HDMI OUT

HDMI output for high quality digital audio and video.

#### 7 DIGITAL OUT COAXIAL

A digital audio output for connecting to an AV amp/receiver, Dolby Digital/DTS decoder or other equipment with coaxial digital input.

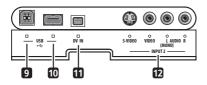
#### 8 CONTROL IN

Use to control this recorder from the remote sensor of another Pioneer component with a **CONTROL OUT** terminal and bearing the Pioneer I mark. Connect the **CONTROL OUT** of the other component to the **CONTROL IN** of this recorder using a miniplug cord.

Fn

## **Front panel connections**

On the front panel a flip-down cover hides more connections.



#### 9 USB port (Type B)

USB port for connecting a PictBridgecompatible printer.

#### 10 USB port (Type A)

USB port for connecting a digital camera, USB memory or other USB device.

#### 11 DV IN

A DV input i.LINK connector, suitable for connecting a DV camcorder.

#### 12 INPUT2

Audio/video input (stereo analog audio; composite and S-video video), especially suitable for camcorders, game consoles, portable audio, etc.

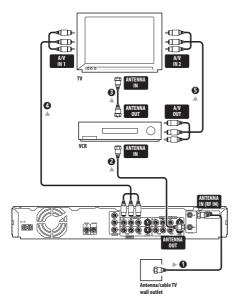
02

#### **Easy connections**

The setup described here is a basic configuration that allows you to record TV programs on both this recorder and your VCR. When watching recordings from this recorder, set your TV to input 1; switch to input 2 to watch a video playing in the VCR.

## Important

- This recorder is equipped with copy protection technology. Do not connect this recorder to your TV via a VCR (or your VCR via this recorder) using AV cables, as the picture from this recorder will not appear properly on your TV.
- Before making or changing any rear panel connections, make sure that all components are switched off and unplugged from the wall outlet.



1 Connect your TV antenna/cable TV outlet to the ANTENNA IN (RF IN) jack on this recorder.

# 2 Use an RF antenna cable (one is supplied) to connect the ANTENNA OUT jack on this recorder to the antenna input on your VCR.

 If you are not connecting a VCR in the chain, connect this recorder directly to your TV and skip the next step.

# **3** Use an RF antenna cable to connect the antenna output on your VCR to the antenna input on your TV.

#### 4 Connect the AUDIO and VIDEO OUTPUT jacks (1 or 2) to a set of audio/ video inputs on your TV.

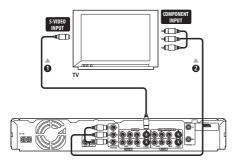
Use the supplied three-pin audio/video cable. It is color-coded to help you match them up (red/white for the right/left audio connections and yellow for video in/outs). Make sure you match up the left and right outputs with their corresponding inputs for correct stereo sound.

# 5 Connect your VCR to your TV (A/V IN 2 above) using a set of audio and video cables.

• See the following page if you want to use S-video or component video cables for the video connection.

# Using other types of video output

This recorder has standard (composite), Svideo and component video outputs. The main difference between them is the quality of the picture. S-video delivers a better picture than composite video, while component video gives better picture quality still. The variety of outputs also gives you the flexibility of connecting your particular equipment using the best connection type available.



# 1 Connecting using an S-video output

S-video carries the picture as separate color and luminance (brightness) signals.

There are two S-video outputs for connection to TVs, monitors, VCRs or other equipment.

• Use an S-video cable (not supplied) to connect an S-VIDEO OUTPUT (1 or 2) to an S-video input on your TV, monitor (or other equipment).

## 2 Connecting using the component video output

Component video carries the picture as two separate color signals, plus a luminance (brightness) signal.

See also *Component Video Out* on page 108 for how to set up the component video output for use with a progressive scancompatible TV.

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

02

# Connecting to a cable box or satellite receiver (1)

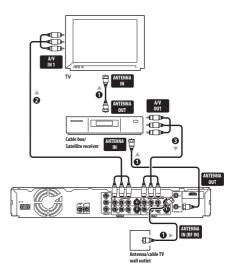
If you are using a cable box or satellite receiver with only a few scrambled channels, follow the setup on this page<sup>1</sup>. If many or all the channels are scrambled, we recommend using the setup on the following page.

Using the setup on this page you can:

- Record unscrambled channels by selecting them on this recorder.
- Record scrambled channels by selecting them on the cable box/satellite receiver and using the Auto Start Recording feature (see *Automatic recording from a satellite tuner* on page 46).
- Watch one channel while recording another.

## Important

 Do not connect this recorder 'through' your VCR, satellite receiver or cable box. Always connect each component directly to your TV or AV amp/receiver.



**1 Connect RF antenna cables as shown.** This enables you to watch and record TV channels.

2 Connect the AUDIO and VIDEO OUTPUT jacks (1 or 2) on this recorder to a set of audio/video inputs on your TV using a set of A/V cables (as supplied). This enables you to watch the output from this recorder.

#### 3 Connect the audio/video output of your cable box/satellite receiver to the INPUT jacks on this recorder using a set of A/V cables.

This enables you to record scrambled TV channels.

🔗 Note

The diagram shows standard video connections, but you can alternatively use the S-video or component video connections if they're available.

# Connecting to a cable box or satellite receiver (2)

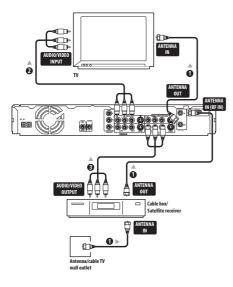
If many or all the channels you receive by cable or satellite are scrambled, we recommend using this setup.<sup>1</sup>

Using the setup on this page you can:

- Record any channel by selecting it on the cable box/satellite receiver.
- Record using the Auto Start Recording feature (see *Automatic recording from a satellite tuner* on page 46).

## 🔥 Important

 Do not connect this recorder 'through' your VCR, satellite receiver or cable box. Always connect each component directly to your TV or AV amp/receiver.



**1 Connect RF antenna cables as shown.** This enables you to watch and record TV channels.

2 Connect the AUDIO and VIDEO OUTPUT jacks (1 or 2) on this recorder to a set of audio/video inputs on your TV using a set of A/V cables (as supplied). This enables you to watch discs.

#### 3 Connect the audio/video output of your cable box/satellite receiver to the INPUT jacks on this recorder using a set of A/V cables.

This enables you to record scrambled TV channels.

#### 🖉 Note

• The setup on this page does not allow you to watch one channel and record another.

• The diagram shows standard video connections, but you can alternatively use the S-video or component video connections if they're available.

# Connecting to an AV amplifier or receiver

To enjoy multichannel surround sound you need to connect this recorder to an AV amp/ receiver using the digital coaxial output. In addition to the digital connection, we recommend also connecting using the stereo analog connection.

You'll probably also want to connect a video output to your AV amp/receiver. Use the standard (composite) video output (as shown here), or the S-video or component video connections.

See also *Audio Out* on page 109 for how to set up the digital audio output. (Noise may be output from your speakers if the recorder is not set up to work with your AV amp/ receiver.)

- Important
- Do not connect this recorder to your TV 'through' your VCR or other component using A/V cables. Always connect it directly to your TV.

**1 Connect RF antenna cables as shown.** This enables you to watch and record TV channels.

2 Connect the AUDIO and VIDEO OUTPUT jacks (1 or 2) on this recorder to a set of audio/video inputs on your AV amp/receiver.

3 Use an coaxial digital audio cable (not supplied) to connect the COAXIAL DIGITAL OUT jack on this recorder to an coaxial digital input on your AV amp/ receiver.

This enables you to listen to multichannel surround sound.<sup>1</sup>

4 Connect the AV amp/receiver's video output to a video input on your TV.

02

🖉 Note

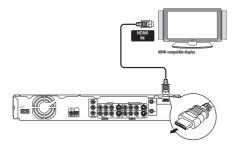
1 If your AV amp/receiver doesn't have an coaxial digital input, but has a optical type, converter boxes that convert from coaxial to optical are available at specialist audio dealers.

## **Connecting using HDMI**

If you have an HDMI or DVI-equipped<sup>1</sup> monitor or display<sup>2</sup>, you can connect it to this recorder using an HDMI cable (not supplied).

The HDMI connector outputs uncompressed digital video, as well as almost every kind of digital audio.

#### • Use an HDMI cable to connect the HDMI OUT connector on this recorder to an HDMI connector on an HDMIcompatible monitor.



 The arrow on the cable connector body should be face down for correct alignment with the connector on the recorder.

When connected to an HDMI component or HDCP-compatible DVI component, the HDMI indicator lights.

HDMI setup is generally automatic. There are however settings you can change if you need to. See *HDMI Output (only available when an HDMI device is connected)* on page 114 for more information. Note that the HDMI settings remain in effect until you change them, or connect a new HDMI component.

## Important

- An HDMI connection can only be made with DVI-equipped components compatible with both DVI and Highbandwidth Digital Content Protection (HDCP). If you choose to connect to a DVI connector, you will need a DVI to HDMI adaptor cable. A DVI to HDCP connection, however, does not support audio. Consult your local audio dealer for more information.
- The HDMI connection is compatible with 32 kHz, 44.1 kHz, 48 kHz, 96 kHz, 16 bit/ 20 bit/24 bit 2-channel linear PCM signals, as well as Dolby Digital, DTS and MPEG audio bitstream.
- If your connected component is only compatible with Linear PCM, the signal is output as Linear PCM (DTS audio is not output).
- If you have connected to a Pioneer plasma display, please select the HDMI setup on the display (refer to the supplied manual for more on this).

#### 🖉 Note

- 1 This unit has been designed to be compliant with HDMI (High Definition Multimedia Interface) version 1.2a and HDCP version 1.1. Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers.
- 2 The pixel resolution of this recorder's HDMI video output is (according to TV format): NTSC (720 x 480i/p, 1280 x 720p, 1920 x 1080i) and PAL (720 x 576i/p, 1280 x 720p, 1920 x 1080i). If your display is not compatible with these resolutions the picture may not be correctly reproduced.

#### About HDMI

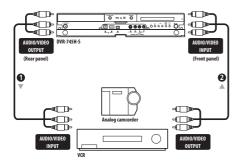
HDMI (High Definition Multimedia Interface) supports both video and audio on a single digital connection for use with DVD players and recorders, DTV, set-top boxes, and other AV devices. HDMI was developed to provide the technologies of High Bandwidth Digital Content Protection (HDCP) as well as Digital Visual Interface (DVI) in one specification. HDCP is used to protect digital content transmitted and received by DVI-compliant displays.

HDMI has the capability to support standard, enhanced, or high-definition video plus standard to multi-channel surroundsound audio. HDMI features include uncompressed digital video, a bandwidth of up to 5 gigabits per second (Dual Link), one connector (instead of several cables and connectors), and communication between the AV source and AV devices such as DTVs.

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

## **Connecting other AV sources**

## Connecting a VCR or analog camcorder



#### 1 Connect a set of audio and video inputs of your VCR or camcorder to a set of outputs on this recorder.

This enables you to record from this recorder to your VCR or camcorder.

• You can use standard video or S-video cables for the video connection.

# 2 Connect a set of audio and video outputs of your VCR or camcorder to a set of inputs on this recorder.

This enables you to record tapes from your VCR or camcorder.

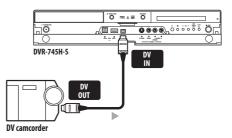
- You can use standard video or S-video cables for the video connection.
- The front panel connections make convenient connections for a camcorder input.

#### **Connecting a DV camcorder**

Using the front panel **DV IN** jack, it is possible to connect a DV camcorder or video deck, or DVD-R/-RW recorder and digitally transfer DV tapes or DVD-R/-RW discs to DVD-R/-RW.

## Important

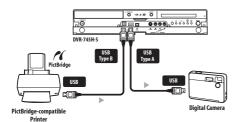
• This jack is for connection to DV equipment only. It is not compatible with digital satellite receivers or D-VHS video decks.



• Use a DV cable (not supplied) to connect the DV jack of your DV camcorder/video deck to the front panel DV IN jack of this recorder.

## **Connecting a USB device**

Using the USB ports on the front of the recorder you can connect USB devices such as digital cameras and printers . Please also see the instructions that came with the device you want to connect before using.



## Important

- Some USB devices may not work with this recorder.
- Devices may not work reliably if connected to this recorder via a USB hub.

#### JPEG file storage devices

- Digital still camera
- Memory card reader (any type of memory card)
- USB memory

The Mass Storage Class (MSC) device should be FAT-compatible. Note that if the device is partitioned, this recorder may not recognize it.

The Picture Transfer Protocol (PTP) can be used to transfer up to about 4000 files.

#### WMA/MP3 file storage devices

- Memory card reader (any type of memory card)
- USB memory

The Mass Storage Class (MSC) device should be FAT-compatible. Note that if the device is partitioned, this recorder may not recognize it.

Note that although multi-slot card readers can be used, the recorder will only recognize the first card inserted. To read another card, remove all the cards and insert the card to be read again.

#### **Using a USB printer**

• Use a PictBridge-comaptible printer.

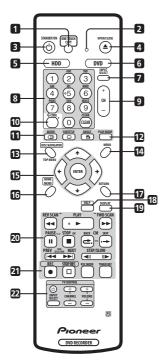
## Plugging in

After checking all the connections, plug in the recorder.

• Use the supplied power cable to connect this recorder to a power outlet.

## Chapter 3 Controls and displays

## **Remote control**



#### 1 ONE TOUCH COPY (page 80)

Press to start One Touch Copy of the currently playing title to DVD or the HDD.

#### 2 Remote control indicator

Lights when setting up the remote control for use with a TV (page 129) and when setting the remote control mode (page 116).

#### 3 එ STANDBY/ON

Press to switch the recorder on/into standby.

#### 4 ▲ OPEN/CLOSE

Press to open/close the disc tray.

#### 5 HDD

Press to select the hard disk (HDD) for recording or playback.

#### 6 DVD

Press to select the DVD for recording or playback.

#### 7 INPUT SELECT (page 46)

Press to change the input to use for recording.

#### 8 Alphanumeric buttons, + and CLEAR

Use the number buttons for track/chapter/ title selection; channel selection, and so on. The same buttons can also be used to enter names for titles, discs and so on.

Use the + button to enter non-alphanumeric characters and symbols.

Use **CLEAR** to clear an entry and start again.

#### **9 CH +/–** (page 34)

Press to change the channel of the built-in TV tuner.

#### 10 G-Code™ (page 40)

Press then use the number buttons to enter a G-Code programming number for timer recording.

G-Code is a trademark of Gemstar Development Corporation.

*The G-Code system is manufactured under license from Gemstar Development Corporation.* 

#### 11 DVD playback functions

#### **MUDIO** (page 35, 61)

Changes the audio language or channel. (When the recorder is stopped, press to change the tuner audio.)

## **Controls and displays**

#### SUBTITLE (page 61)

Displays/changes the subtitles included in multilingual DVD-Video discs.

#### ANGLE (page 62)

Switches camera angles on discs with multi-angle scenes.

#### 12 PLAY MODE (page 58)

Press to display the Play Mode menu (for features such as search, repeat and program play).

#### **13 DISC NAVIGATOR** (page 55, 68) **/ TOP MENU** (page 52)

Press to display the Disc Navigator screen, or the top menu if a DVD-Video or finalized DVD-R/-RW disc is loaded.

#### **14 MENU** (page 52)

Press to display the disc menu if a DVD-Video disc is loaded.

#### 15 $\uparrow/\downarrow/\leftarrow/\Rightarrow$ and ENTER

Used to navigate all on-screen displays. Press **ENTER** to select the currently highlighted option.

#### **16 HOME MENU**

Press to display the Home Menu, from which you can navigate all the functions of the recorder.

#### **17 RETURN**

Press to go back one level in the on-screen menu or display.

#### 18 HELP

Press for help on how to use the current GUI screen.

#### 19 DISPLAY (page 63)

Displays/changes the on-screen information displays.

#### 20 Playback controls (page 51)

#### ◄ REV SCAN / ►► FWD SCAN

(page 57) Press to start reverse or forward scanning. Press again to change the speed.

#### PLAY

Press to start playback.

#### II PAUSE

Press to pause playback or recording.

03

■ **STOP** Press to stop playback.

#### ⇐ CM BACK (commercial back)

Press repeatedly to skip progressively backward through the audio or video playing.

#### -- CM SKIP (commercial skip)

Press repeatedly to skip progressively forward through the audio or video playing.

#### 

Press to skip to the previous or next title/ chapter/track/folder; or to display the previous or next menu page.

◄II / II► STEP / SLOW (page 57) During playback, press to start slowmotion playback; while paused, press to show the previous or next video frame.

#### 21 Recording controls (page 36)

#### • REC

Press to start recording. Press repeatedly to set the recording time in blocks of 30 mins.

□ **STOP REC** Press to stop recording.

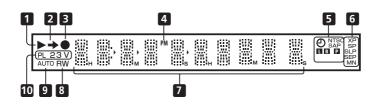
**REC MODE** (page 36) Press repeatedly to change the recording mode (picture quality).

**TIMER REC** (page 38) Press to start setting a timer recording.

#### 22 TV CONTROL (page 129)

After setting up, use these controls to control your TV.

## Display



#### 1 🕨

Lights during playback; blinks when playback is paused.

#### 2 -

Lights when copying.

#### 3

Lights during recording; blinks when recording is paused.

#### 4 PM

Lights to indicate PM (after midday) for the clock display.

#### 5 🕘 (page 38)

Lights when a timer recording has been set. (Indicator blinks if the timer has been set to DVD but there isn't a recordable disc loaded, or the timer has been set to HDD but the HDD is not recordable.)

#### NTSC

Lights when the video output signal format is NTSC.

#### **E** (page 109)

Taiwan and Philippines model: Indicates which channels are recorded when dual mono is selected.

#### Other:

Indicates which channels of a bilingual broadcast are recorded.

#### P (page 108)

Lights when the component video output is set to progressive scan (except in some cases when a component is connected using HDMI).

## **SAP** (page 35) (*Taiwan and Philippines model only*)

Lights when the currently selected TV channel has a Second Audio Program channel.

#### 6 Recording quality indicators (page 36)

#### ХΡ

Lights when the recording mode is set to **XP** (best quality).

#### SP

Lights when the recording mode is set to **SP** (standard play).

#### LP / SLP

Lights when the recording mode is set to **LP** (long play) or **SLP** (super long play).

#### EP / SEP

Lights when the recording mode is set to **EP** (extended play) or **SEP** (super extended play).

#### MN

Lights when the recording mode is set to **MN** (manual recording level) mode.

#### 7 Character display

#### 8 R / RW

Indicates the type of recordable DVD loaded: DVD-R or DVD-RW.

## **Controls and displays**

#### 9 AUTO

Lights when Auto Start Recording has been set, and during Auto Start Recording.

10 PL (page 68)

**Front panel** 

Lights when a VR mode disc is loaded and the recorder is in Play List mode.

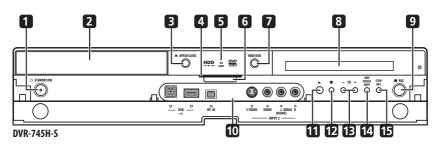
#### 2 3 (page 116)

Shows the remote control mode (if nothing is displayed, the remote control mode is 1).

03

#### V

Lights when an unfinalized Video mode disc is loaded.



#### 1 O STANDBY/ON

Press to switch the recorder on/into standby.

#### 2 Disc tray

#### 3 ▲ OPEN/CLOSE

Press to open/close the disc tray.

#### 4 HDD/DVD indicator

Indicator lights blue when the hard disk (HDD) is selected; orange when the DVD drive is selected.

#### 5 HDMI indicator

Lights when this recorder is connected to HDMI (HDCP) compatible component.

#### **6 HELP FUNCTION**

Press to display the on-screen help.

#### 7 HDD/DVD

Press to switch between the hard disk drive (HDD) and DVD for recording and playback.

#### 8 Front panel display and IR remote sensor

See Display on page 26 for details.

#### 9 • REC

Press to start recording. Press repeatedly to set the recording time in 30 minute blocks.

#### **10 Front panel inputs** (page 15)

See *Front panel connections* on page 15 for more information on these.

#### 11 🕨

Press to start or restart playback.

#### 12 🔳

Press to stop playback.

#### 13 CH +/-

Use to change channels, skip chapters/ tracks, etc.

#### **14 ONE TOUCH COPY** (page 80)

Press to start One Touch Copy of the currently playing title to DVD or the HDD.

#### 15 STOP REC

Press to stop recording.

## Chapter 4 Getting started

## Switching on and setting up

When you switch the recorder on for the first time, you can make several basic settings using the Setup Navigator feature. This takes you through setting the clock, the internal TV tuner and the video output.

If you're using the recorder for the first time, we strongly recommend you use the Setup Navigator before starting to use the recorder.

## Important

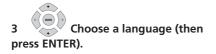
- Some of the Setup Navigator on-screen displays (OSDs) in this section vary slightly depending on the country or region of purchase.
- Unless otherwise stated, the OSDs shown in this manual are for the Taiwan and Philippines model.

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

		- 2

#### **(b)** Switch on the recorder.

When you switch on for the first time, your TV should display the Setup Navigator screen (If the Setup Navigator doesn't appear, you can also access it from the Initial Setup menu; see page 106).



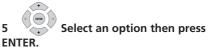
Language	
□English	Italiano
Español	Português
中文	

1 (8

#### Start the Setup Navigator.

Complete this setup before you start using your recorder.
Start
Cancel
Please use the Initial Setup if you want to make more detailed settings.

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



Taiwan and Philippines model:

	Auto C	hannel Setting	
		Antenna	
		Cable	
ł		Do not Set	

Other:

Auto C	Channel Setting	
	Auto Scan	
	Do not Set	

- Select **Do not set** if you want to skip channel setup (because they have already been set up, for example).
- You can go back to the previous screen at anytime in the Setup Navigator by pressing **RETURN**.

•	Sel	lect y	your co	untry.
	Country S	election		
	Country		Taiwan	•

## **Getting started**

#### • Auto-tuning channels

The Auto Scan option automatically scans and sets the channel presets.

Tuning	
	32/68
Cancel	
Galicel	

6

Select 'Auto' for automatic time setting, or 'Manual' to set the clock manually.

□ Auto Manual	Clock	Setting	

#### Auto clock setting

Some TV channels broadcast time signals together with the program. This recorder can use these signals to set the clock automatically.

#### Set 'Clock Set CH' to the channel preset number that broadcasts a time signal, then move the cursor down to 'Start' and press ENTER.

Auto Clock Setting	
Date	/ /
Time	: AM
Clock Set CH	4 2
	Start

The recorder takes a short while to set the time. After you see that it's set, select Next to proceed.

Auto Clock Set	tin	g					
Date	1	/	01	/	2006	SUN	
Time			12		00 A1	Л	
Clock Set CH						2	
					S	tart	
					N	ext	

If the time could not be set automatically, press **RETURN** to go back to the previous screen and select Manual.

#### Manual clock setting

If no stations in your area are broadcasting time signals, you can set the clock manually.

#### Use the $\Leftarrow/\Rightarrow$ buttons to set your time zone.

You can set this by selecting a city or a time relative to GMT.

Manual Clock Sett	ing	1/2
Time Zone 🛛 🖣	Taiwan Taipei	•
D.S.T	Off	

#### Press $\blacksquare$ then use the $\Leftarrow/\Rightarrow$ buttons to select 'On' or 'Off' for daylight saving/summer time, then press ENTER.

Select **On** if you are currently using daylight saving/summer time.

Manual Clock Set	tting	1/2
Time Zone	Taiwan Taipei	
D.S.T	∢ On ►	

#### Set the date and time, then press ENTER to make all the settings.

Taiwan and Philippines model: The date is in month/day/year format.

*Other:* The date is in day/month/year format.

Manual Clock Setting Date	2/2 1 / 01 / 2006 SUN
Time	12:00 AM
Time Zone	Taiwan Taipei
D.S.T	On

- Use the ↑/↓ buttons to change the value in the highlighted field.
- Use the  $\leftarrow/\rightarrow$  buttons to move from one field to another.
- Press **ENTER** to finish setting the time.

04

7

8



#### (ENTER) Press to continue after reading 9 the HDD caution.



Select 'Finish Setup' to exit 10 the Setup Navigator, or 'Go Back' if you want to start again.

Setup	is complete!	
Enjoy	using your DVD	recorder!
	Finish Setup	
	Go Back	

That completes basic setup using the Setup Navigator.

 If there are blank channels with no station, you can set these to skip using the manual channel setting. See Manual CH Setting on page 107.

## Chapter 5 **Recording**

## **About DVD recording**

This recorder can record to DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM, DVD-R DL and DVD+R DL media.

DVD-R and DVD-RW discs can be initialized for *Video mode* or *VR mode* recording. Each has its advantages, and it depends on what you want to do with the recording which mode you choose.

If you want to edit your recordings in any significant way, VR mode offers greater possibilities for cutting, copying, and changing the way the video is presented.

Video mode is less flexible when it comes to editing, but it has the advantage that it is compatible with standard DVD players

(many of which won't play VR mode discs<sup>1</sup>).

Once a disc is initialized for a particular mode, all recording on that disc will be in that mode.

DVD+RW discs can be initialized for +VR mode recording.

DVD-RAM discs can be initialized for VR mode recording.

DVD+R discs do not require initializing.

## Important

The table below shows the maximum number of titles recordable per disc and the maximum number of chapters per title:

Disc type/rec. format	Max. titles (per disc)	Max. chapters (per title)
DVD-R/-RW Video mode	99	99
DVD-R/-RW/-RAM VR mode	99	999 <sup>*1</sup>
DVD+R/+RW	49	99*2

<sup>\*1</sup> A maximum of 999 chapters are recordable per disc.

<sup>\*2</sup> A maximum of 254 chapters are recordable per disc.

- This recorder cannot play or record unfinalized Video mode and DVD+R discs recorded on another recorder. DVD+RW discs recorded on another recorder are playable on this recorder but are not recordable.
- The maximum continuous recording time for one title is eight hours when using a DVD+R/+RW disc.
- If you delete a title from a DVD+R/+RW disc, the total number of recordable titles remaining may not increase.
- Although this recorder can record PAL, SECAM, NTSC and PAL-60, you can't mix multiple TV line systems on one disc. A disc can contain PAL and SECAM recordings, or NTSC and PAL-60. See also Additional information about the TV system settings on page 116.

🖉 Note

<sup>1</sup> Some DVD players, such as some Pioneer models, are compatible with VR mode discs. Check the operating instructions for your player for VR mode compatibility information.

## ( Recording

05

- If power to the recorder is cut (due to a power outage, the plug being pulled from the power outlet, etc.) during recording, editing, initializing, finalizing or other operation, some recorded material on the disc, or the disc itself, may become unusable. In this case, try re-initializing the disc (DVD-RW only), or use a new disc. Pioneer is not responsible for lost recordings, damaged discs or other losses in these cases.
- Fingerprints, dirt and small scratches on a disc can affect playback and/or recording performance. Please take proper care of your discs.
- See also *Disc / content format playback compatibility* on page 7 for detailed disc compatibility information.

# Recording to DVD-R DL/DVD+R DL discs

Recording to DVD-R DL/DVD+R DL discs is generally the same as recording to regular single-layer discs; however, please note the following points:

- When the recorder switches from the first layer to the second during recording a DVD-R DL (Video mode) disc, a new title is automatically started on the new layer.
- Up to 99 titles can be recorded on a DVD-R DL (Video mode) disc. If the 99th title is being recorded when the layer is switched, recording will stop.
- Up to 49 titles can be recorded on a DVD+R DL disc.
- You cannot play, record additional material to, edit or finalize a DVD-R DL or DVD+R DL disc that has been recorded on but not yet finalized on another DVD recorder.

## **About HDD recording**

Recording to the internal hard disk drive (HDD) is very flexible; you have the full choice of recording quality options, including manual mode, and of course you can record, erase and re-record as many times as you like.

The capacity of the hard disk drive means that you can store many hours of video on it, even using the higher quality recording modes.

## Important

- The maximum number of titles/chapters per title that can be recorded on the HDD is 999 and 99 respectively. No more recording is possible on the HDD after the maximum number of titles has been reached.
- The maximum continuous recording time for one title is 12 hours.
- It is possible to record both PAL and NTSC titles on the HDD. Before recording, you need to make sure that the Input Line System setting (page 116) matches the TV line system of the source you're recording.

#### HDD Video mode compatibility

When recording to the HDD you can choose to record in one of two formats. Set the format from the HDD Recording Format item in the Initial Setup menu (see page 113).

#### Taiwan and Philippines model:

When set to Video Mode On, high-speed copying from HDD to Video mode DVD-R/-RW or DVD+R/+RW is possible. When recording a broadcast with a Secondary Audio Program (SAP) channel, set which channel you want to record from the Initial Setup menu (see *Dual Mono Recording* on page 109).

When HDD Recording Format is set to Video Mode Off, high-speed copying isn't possible. However, when SAP is selected as the broadcast audio channel, both the main and SAP channels are recorded and you can switch the audio on playback.

#### Other:

When set to Video Mode On, high-speed copying from HDD to Video mode DVD-R/-RW or DVD+R/+RW is possible. When recording a bilingual broadcast, set which channel you want to record from the Initial Setup menu (see *Bilingual Recording* on page 109).

When HDD Recording Format is set to Video Mode Off, high-speed copying isn't possible. However, both channels of bilingual broadcasts are recorded and you can switch the audio on playback.

## **Recorded** audio

In all except the **LPCM** mode, sound is recorded in two channel Dolby Digital format (only Dolby Digital 2.0 can be recorded; Dolby Digital 5.1 recording is not possible). When set to **LPCM**, sound is recorded in high quality, uncompressed Linear PCM format.

#### Taiwan and Philippines model:

If the broadcast audio has a SAP channel and you are recording to Video mode DVD-R/ -RW, DVD+R/+RW, or to the HDD with the HDD Recording Format set to Video Mode On, or on the **LPCM** setting, use the **AUDIO** button to select the **Mono**, **Stereo** or **SAP** audio channel to record before recording starts. In other cases, if SAP is selected then both the main and SAP audio channels will be recorded and you can switch on playback.

The table below shows the different audio

output possibilities:

Audio	Audio output		
setting	Left (L)	Right (R)	
MONO	L + R	L + R	
STEREO	L	R	
SAP	L + R	SAP	

#### Other:

If the broadcast audio is bilingual and you are recording to Video mode DVD-R/-RW, DVD+R/+RW, or to the HDD with the HDD Recording Format set to Video Mode On, or on the **LPCM** setting, use the Bilingual Recording setting (page 109) to select the **A**/ **L** or **B/R** audio channel to record before recording starts. In other cases, both channels of a bilingual broadcast will be recorded and you can switch on playback.

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## **Restrictions on video** recording

You cannot record copy-protected video using this recorder. Copy-protected video includes DVD-Video discs and some satellite broadcasts. If copy-protected material is encountered during a recording, recording will pause automatically and an error message will be displayed on-screen.

Video that is 'copy-once only' can only be recorded to HDD, CPRM-compatible VR mode DVD-R/-RW (see below), or DVD-RAM.

When recording a TV broadcast or through an external input, you can display copy control information on screen. (see Displaying disc information on-screen on page 63).

#### **CPRM**

CPRM is a copy protection/scrambling system developed for the recording of 'copy once' broadcast programs. CPRM stands for Content Protection for Recordable Media.

This recorder is CPRM compatible, which means that you can record copy-once broadcast programs, but you cannot then make a copy of those recordings. CPRM recordings can only be made on CPRMcompatible DVD-R (ver. 2.0 / 8x or higher) or DVD-RW (ver. 1.1 or higher) discs formatted in VR mode, DVD-RAM discs or on the HDD.

DVD CPRM recordings can only be played on players that are specifically compatible with CPRM.

#### **Recording equipment and** copyright

Recording equipment should be used only for lawful copying and you are advised to check carefully what is lawful copying in the country in which you are making a copy. Copying of copyright material such as films or music is unlawful unless permitted by a legal exception or consented to by the riahtowners.

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 riahts owners. Use of this copyriaht 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.

## Using the built-in TV tuner

There are three different ways to select TV channels. Note that you can't change the TV channel during playback, recording or during recording standby.

,	+ CH +/- buttons

Number buttons

For example, to select channel 4, press 4 then ENTER; for channel 34, press 3, 4, ENTER.<sup>1</sup>

• CH +/- buttons on the front panel

#### 🔗 Note

- Taiwan and Philippines model: Antenna channels are numbered 2 through 69. Cable channels are numbered 1 through 125.
- Other: Channel presets are numbered 1 through 99.

### **Changing audio channels**

#### **Taiwan and Philippines model:**

Some TV programs are broadcast with both a main and a Second Audio Program (SAP). You can change the TV audio using the m AUDIO button.

## Press to change the audio type.

The current audio channel is displayed onscreen.



- If SAP is selected, but there is no SAP channel being broadcast, you will still hear the main audio channel.
- If the sound is poor quality when set to Stereo, you can often improve it by changing to Mono.

## Note

 When recording to the HDD with HDD Recording Format set to Video Mode On. to DVD in Video mode, or on the LPCM setting, only one channel of a dual mono broadcast is recorded. In this case, decide which language you want to record before recording by setting the Dual Mono Recording setting (see Dual Mono Recording on page 109).

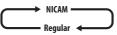
#### Other:

You can change the audio channel of the broadcast or external input signal.

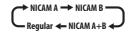
#### Press to change the audio type.

The current audio channel is displayed onscreen.

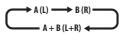
• If the NICAM audio setting (see NICAM Select on page 108) is set to NICAM and vou are watching a NICAM broadcast. you can switch between NICAM and Regular (non-NICAM) audio.



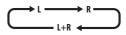
 If the NICAM broadcast is bilingual, you can also select the language.



 You can also select the language for a non-NICAM bilingual broadcast.



• When watching a recording made from an external input with Bilingual recording selected (see External Audio on page 108), you can switch the audio channel between left (L), right (R) or both (L+R).



## 🖉 Note

• When recording to the HDD with HDD Recording Format set to Video Mode On. to DVD in Video mode, or on the LPCM setting, only one channel of a bilingual broadcast is recorded. In this case, decide which language you want to record before recording by setting the Bilingual Recording setting (see Bilingual Recording on page 109).

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# Setting the picture quality/ recording time

#### DVD (VR) DVD (Video) DVD+R DVD+RW DVD-RAM HDD

Before starting a recording, you will usually want to set the picture quality/recording time. There are six standard settings available, which allow you to choose a balance between picture quality and recording time.

When Manual Recording is set to On (see *Manual Recording* on page 112), a further option will be available (**MN1** to **MN32** or **LPCM**, depending on what you set).

When recording to DVD+R/+RW, **SLP** is the longest recording time available. If you select **SEP** or **MN1** to **MN3**, the recording mode will automatically revert to **SLP**.

#### REC MODE

## • Press repeatedly to select the recording quality.

- XP High quality setting, gives about one hour of recording time on a DVD disc.
- SP (Standard Play) Default quality, used for most applications, gives about two hours of recording time on a DVD.
- LP (Long Play) Lower video quality than SP, but doubles the recording time on a DVD to about four hours.
- EP (Extended Play) Lower quality than LP, but gives about six hours of recording time on a DVD disc.
- **SLP** (Super Long Play) Lower quality than EP, but gives about eight hours of recording time on a DVD disc.

- **SEP** (Super Extended Play) Lowest video quality but gives about ten hours of recording time on a DVD disc.
- MN1 to MN32 / LPCM<sup>1</sup> Manual / Linear PCM (available only when manual recording is on)

The setting is indicated in the front panel display, and shown on-screen together with the recording time for a blank recordable disc. If a recordable disc is loaded, the approximate remaining recording time for that disc is also shown. (Note that if the On Screen Display setting (see *On Screen Display* on page 115) is **Off** then this information is not displayed.)

## **Basic recording from the TV**

#### DVD (VR) DVD (Video) DVD+R DVD+RW DVD-RAM (HDD

Basic recording from the TV involves just setting the channel to record, choosing whether to record to the HDD or a DVD and selecting the recording quality.

## 1 HDD DVD Select the HDD or DVD for recording.

- If you're recording to DVD, load a recordable disc (if you load a new blank DVD-RW or DVD+RW disc, the recorder takes a short while to initialize the disc).
- If you want to record a VR mode DVD-R or a Video mode DVD-RW, you must initialize it before proceeding (see *Initializing recordable DVD discs* on page 50).

#### 🔗 Note

<sup>•</sup> *Taiwan and Philippines model:* Audio is recorded in 16-bit Linear PCM format, video is recorded at XP quality. When recording a broadcast with a SAP channel, select which audio channel to record (see *Dual Mono Recording* on page 109).

<sup>•</sup> Other: Audio is recorded in 16-bit Linear PCM format, video is recorded at XP quality. When recording a bilingual broadcast, select which audio channel to record (see *Bilingual Recording* on page 109).

2 Select a TV channel to record. The front panel display shows the channel number:



- While the recorder is stopped, you can also use the number buttons on the remote to select the channel (For channel 24, press **2**, **4** then **ENTER**).
- If the recorder is stopped, you can also use the CH +/- buttons on the front panel to select the channel number.

## 3 Set the picture quality/recording time.

• See Setting the picture quality/recording time on page 36 for detailed instructions.

## 4 Select the audio channel to record.

See *Changing audio channels* on page 35 for more on this.

#### Taiwan and Philippines model:

• When recording in VR mode (DVD) or with HDD Recording Format set to Video Mode Off (HDD), both mono and SAP audio channels are recorded, allowing you to switch the audio channel on playback. The only exception to this is when the picture quality is set to **LPCM**, in which case you do need to select the audio channel before recording.

Other:

• When recording in VR mode, if a broadcast is bilingual, both audio channels are recorded, allowing you to switch the audio channel on playback.

The only exception to this is when the picture quality is set to **LPCM**, in which case you do need to select the audio channel before recording.

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## 5 • Start recording.

If you want to set a recording end time, press the  $\bigcirc$  **REC** button repeatedly. The recording time increases in 30 minute increments, up to a maximum of six hours. The time the recording will end is shown on-screen and in the front panel display. When the recording ends, the recorder automatically switches into standby if no other operation is being performed.

- To cancel the set recording time, press • REC.
- If you want to pause recording at any time<sup>1</sup>, press **II PAUSE**. Press again to restart the recording (If recording to the HDD, DVD-RAM or in VR mode, a new chapter is started after recording restarts).

#### STOP REC

#### 6 Press to stop recording.

- If you set the recording time in the previous step, you can still stop the recording anytime by pressing 
  STOP REC.
- Recording will stop automatically when there is no more space on the HDD/ DVD, or after 12 hours of HDD recording (whichever is sooner).

## Note 1 Except during Chase Play.

## Setting a timer recording

### ALL

Using the timer recording features you can program up to 32 timer recordings up to a month in advance. Timer recording programs can be set to record just once, every day, or every week.

There are three ways to program a timer recording; using the Easy Timer Recording feature (see *Easy Timer Recording* below), using the G-Code programming system (see *Timer recording using the G-Code*<sup>TM</sup> *programming system* on page 40), or using manual timer recording (see *Setting a manual timer recording* on page 41).

You can set the recording quality for your timer recording in the same way as for a regular recording, but with the added option of an **AUTO** mode, which maximizes the recording quality for the space available on the disc (if recording to DVD), or to fit on to a blank DVD disc (if recording to HDD).

You can set timer recordings to record to a recordable DVD or to the hard disk drive. For regular (daily or weekly) HDD timer recordings that you don't need to keep, you can use the Auto Replace Recording feature to automatically replace the previous timer recording with the new one. Note that when you use this feature, the previous recording made on that timer program will be replaced by the next one, regardless of whether you have watched it yet or not.

You can also set the recorder so that it will adjust the recording quality to try and fit the recording on to the disc if it would not otherwise fit at the recording quality you set (see *Optimized Rec* on page 112 for more on this).

Finally, if you set a timer recording to record to DVD but there isn't a recordable DVD loaded at the time of the recording, the Recovery Recording feature will automatically record the program to the HDD for you.

## 💧 Important

- A timer recording can't be set if there are already 32 timer programs waiting to be recorded.
- Timer recording will not start if:

   The recorder is already recording.
   A disc is being initialized, finalized or unfinalized.
- Timer recording will start when the operation preventing timer recording has finished.
- The timer indicator (②) lights in the front panel display when the timer is active. If the indicator is blinking it means that (for a DVD timer recording) there is no disc loaded, or the disc loaded is not recordable (for an HDD timer recording it means that the HDD is not recordable).
- Approximately two minutes before a timer recording is set to start, the recorder will go into timer recording standby. In timer recording standby you cannot use some functions.
- The maximum length for timer recordings made to the HDD is 24 hours. However, because one title (HDD) is limited to 12 hours, recordings over 12 hours will be spread over two titles. Note that there will be a break in the recording of a few seconds between titles.

### **Easy Timer Recording**

As the name suggests, Easy Timer Recording makes setting up a timer recording as simple as possible.

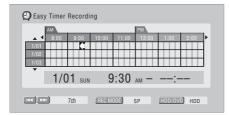


HOME

• Unless otherwise stated, the OSDs shown in this manual are for the Taiwan and Philippines model.

1 Select 'Timer Recording' then 'Easy Timer' from the Home Menu.

## 2 Set the TV channel to record.



#### REC

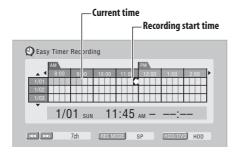
#### 3 Set the recording quality.

- *DVD recording:* The **AUTO** option automatically sets the best recording quality for the space available on the disc loaded at the time of recording.
- HDD recording: The AUTO option automatically sets the best recording quality that would fit on to a blank DVD disc.

## 4 HDD DVD Select the HDD or DVD for recording.

5 Move the cursor to the recording start date and time on the grid.

 You can move the cursor forward or back an hour at a time using the *◄* **REV SCAN** and **▶▶ FWD SCAN** buttons.



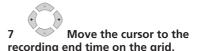
Each row of the grid is one day (you can set the timer recording for up to a month in advance). Each column is a 15 minute interval.

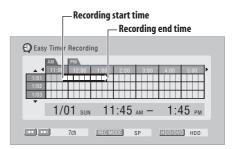
The darker area represents time that has already passed and can't therefore be selected. The lighter area is time that's available.

#### 6 ENTER Set the start time.

The start date and time is displayed in the middle of the screen.

• You can go back and reset the start time if you need to by pressing **RETURN**.





As you move the cursor around the grid, an arrow stretches from the start time to the current cursor position, representing the length of the recording. A recording of up to six hours can be set.

8 Set the end time.

9 Select 'Yes' to set the timer recording and exit, or 'No' to go back to the Easy Timer Recording screen.

• You can check the timer recording details you just set from the main timer recording screen (see *Setting a manual timer recording* on page 41).

## ( Recording

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#### Timer recording using the G-Code™ programming system

This system makes programming timer recordings very simple. Most TV guides publish G-Code programming numbers with their program details. If you want to make a timer recording of a program, you just input the corresponding code. The date, start, stop and channel settings are made automatically. All you have to do is tell the recorder the recording mode, and whether it's a once-only recording or a regular recording.

Note that if the country setting is incorrect (set in the Setup Navigator), timer recordings made using the G-Code programming system may not work as expected.

## 1 Press 'G-Code' to display the G-Code program screen.

You can also access this screen from the Home Menu (press **HOME MENU**, select **Timer Recording**, then **G-Code system**).



- Use the number buttons to enter the G-Code programming number. (To clear the last digit entered, press **CLEAR**.)
- You can also use the ↑/↓/←/→ buttons to select digits from the onscreen display.

## 2 After making the settings, select 'Enter' and press ENTER.

The timer recording screen appears with the timer program you just set.

#### 3 Confirm that the settings are correct.

If the channel number isn't displayed, use the  $\leftarrow/\rightarrow$  buttons to highlight **CH**, then use the  $\uparrow/\downarrow$  buttons to set the correct channel number.

- If the channel number is set, but incorrectly, set up the guide channel (see *G-Code CH Setting* on page 107).
- 4 Select 'Store Program' to finish.
  - Other options in the same menu panel allow you to name the program, and change the recording destination and/or recording mode.

## Checking/editing timer recording settings

You can check and/or edit the timer recording settings made by the G-Code system by selecting **Details** from the G-Code# setting screen.



## The Timer Program Set screen appears, filled out with the timer recording details.

## 2 Check and edit the fields as necessary.

See Setting a manual timer recording on page 41 for more on this.



## G-Code programming with the power off

You can enter a G-Code programming number when the recorder is in standby.

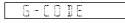
Note that the recording is always made to the HDD. If you want to record to a DVD disc, you'll need to switch on the power and use the full G-Code program screen.

## Important

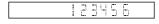
- You can't use this feature until you have set up the guide channels. See *G-Code CH Setting* on page 107.
- You can't change the recording mode.
- You can't program daily or weekly timer recordings.

#### 1 Press 'G-Code'.

The front panel display shows the current recording mode and prompts you to enter the G-Code programming number.



## 2 Use the number buttons to enter the number.



• To clear the last digit entered, press **CLEAR**.

#### 3 Press ENTER.

The display shows the timer settings: Date  $\rightarrow$  Start time  $\rightarrow$  End time  $\rightarrow$  HDD and Recording channel  $\rightarrow$  Recording mode.

- If **CODE ERROR** appears in the display, check that the number is correct and that the guide channel is set (see *G-Code CH Setting* on page 107), then set the timer recording again.
- If CAN'T SET appears in the display, it means that although you entered a valid number, the program has already finished.

### Setting a manual timer recording

The timer recording screen you can see all the timer programs already set, clear programs and set up new ones.

## 1 Press TIMER REC to display the Timer Recording screen.

You can also access the Timer Recording screen from the Home Menu (press **HOME MENU**, select **Timer Recording**, then **Timer Recording**).

This screen shows all the timer programs currently set.

🕑 Timer Progra	m View	3/26 SUN 3:00PM
		Tmr Pgms 3/32
Real of	Manhattan Open Tennis 3/26 SUN 6:00PM - 7:00PM	10ch OK
0.75	World Journey 3/27 MON 7:30PM - 9:00PM	4ch OK
	Flower MON – FRI 1:30PM – 2:00PM	Until 4/20 8ch
	New Inpu	t
	HDD Remain DVD Remain	59h59m(SP) 1h59m(SP)

- Each row is for one timer recording program, with the date and time information, channel, recording mode, DVD or HDD and recording status.
- The amount of free space available on the HDD and the currently loaded recordable DVD is shown towards the bottom of the screen.
- In the upper-right corner, the number of timer programs already set is shown next to **Tmr Pgms**.
- If there are more than five timer programs already set, press → I NEXT to switch page (go back using the I◄
   PREV button).
- You can also delete a timer program before it's started (before the recorder enters timer recording standby) by highlighting it and pressing **CLEAR**. See also *Deleting a timer program* on page 43.

## 2 Select 'New Input' to set a new timer program, then press ENTER.



#### 3 Enter the timer recording settings.

Use the  $\leftarrow / \rightarrow$  buttons to select a field; use the  $\uparrow / \downarrow$  buttons to change the value.

- CH Choose a channel (2 to 69 for antenna channels; 1 to 125 for cable/Pr 1 to Pr 99, excluding skip channels), or one of the external inputs from which to record.
- Date Choose a date up to one month in advance, or select a daily or weekly program.
- Start Set the recording start time.
- **Stop** Set the recording end time (maximum length of a timer recording is 24 hours).
- Extend Extend the end time of the timer recording (select Off, 30, 60, 90 or 120 mins.)

# 4 If you want to change the recording mode, recording destination, etc., select 'Set Detailed'.

In this area you can set:

**Record to** – Select **HDD** for hard disk recording or **DVD** for DVD recording. Select **HDD** for Auto Replace Recording (daily or weekly timer recording only).

Recording Mode – Select XP, SP, LP, EP, SLP or SEP, (See Setting the picture quality/ recording time on page 36). If Manual Recording is on, then you can also select the LPCM setting, or MN (press ENTER then use the ←/→ buttons to select the level). **Auto Replace Rec.** – Automatically erases the previous daily or weekly recording when the next one is recorded.

**Genre** – Select a record genre (for HDD recording only).

Dual Mono/Bilingual Recording – Select which channel of a dual mono/bilingual broadcast to record (necessary if recording to a Video mode DVD or to the HDD with the HDD Recording Format set to Video Mode On).

HDD Recording Format – Select Video Mode On or Video Mode Off depending on whether you need high-speed copying to Video mode DVD capability or not.

# 5 After entering all the timer recording information, highlight 'Store Program' and press ENTER.

The timer recording list screen is displayed again. The timer program you just input appears in the list. The rightmost column shows various timer recording status messages:

- **OK** Can be recorded.
- **Time Over** Not enough space on the HDD (the recording won't finish).
- Over 12h Recording time of over 12 hours set (when recording to the HDD the recording will be split into two titles).
- **Overlap** Two timer programs partially or completely overlap. The one starting earlier will take priority.
- Until ... (eg., Until 8/13) For a regular recording, the last program that could be recorded is shown.
- Data Over –Can't record because the disc management area of the disc is full.
- **Cancel Once** A regular timer program is set to skip.
- Can't Rec Not possible to record.
- **Title Over** Can't record because there is already the maximum number of titles on the disc (HDD: 999; DVD: 99).
- **Recording** The program is currently recording.

- **Standby** The recorder is in timer recording standby.
- *nothing displayed* Another timer recording or copying is in progress.

## 6 To exit the timer recording screen, press HOME MENU.



 To enter a title name for the timer recording in advance, select Set Title Name and follow the on-screen display.

## 🖉 Note

- If you set a DVD timer recording but there is no recordable DVD disc loaded, or the disc loaded doesn't have enough free space for the complete recording,
   Recovery is shown. In this case (unless you load a suitable disc before the recording actually starts), the recorder will use the HDD for recording. (The message Can't Rec will appear if there are already 999 titles on the HDD or if there is not enough free space on the HDD for recording.)
- For a DVD timer recording, if Optimized Rec (see Optimized Rec on page 112) is set to On, the recorder will adjust the recording quality to try and fit the recording on the disc. If the recording will not fit onto the disc even on MN1 (MN4 for DVD+R/+RW) recording quality then the Recovery Recording feature will automatically make the recording to the HDD instead.
- If there is very little free space left on the HDD, an Auto Replace Recording may not complete successfully.
- If the HDD is being used for playback or high-speed copying when an Auto Replace Recording is due to start, the new timer recording will not replace the old one. However, the next time the timer recording starts, both of the older two programs will be erased.

### **Editing a timer program**

You can change any of the settings in a timer program before the recording is due to start.

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1 Press TIMER REC.

## 2 Highlight the timer program you want to change.

## 3 Press ⇒ then select 'Modify' from the command menu panel.

Alternatively, press ENTER.

The Timer Program Set screen appears from which you can edit the settings.

## 4 Edit the timer recording settings as necessary.

#### 5 Select 'Store Program' to finish.

Confirm the settings you made from the following screen.

### **Deleting a timer program**

You can delete timer programs you no longer need.

1 Press TIMER REC.

## 2 Highlight the timer program you want to erase.

## 3 Press ⇒ then select 'Erase' from the command menu panel.

- Select Yes to confirm or No to cancel.
- You can also just press **CLEAR** when the timer program is highlighted.

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### ( Recording

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#### Skipping a regular timer program

If you've set a regular daily or weekly timer program, you can set the recorder to skip the next scheduled recording.

1 Press TIMER REC.

## 2 Highlight the timer program you want to skip.

## 3 Press ⇒ then select 'Cancel Once' from the command menu panel.

- In the timer program list, **Cancel Once** appears by the program.
- You can also just press **II PAUSE** when the timer program is highlighted.

## Extending a timer recording in progress

You can extend a timer recording beyond the programmed end time in two different ways. This can be useful if a broadcast program overruns, for example.

#### Canceling or extending the timer

# 1 Press and hold for three seconds during a timer recording.

Recording continues, but the timer indicator disappears from the front panel display indicating that the timer has been canceled.

# 2 Press repeatedly to extend recording in 30 minute blocks.

#### Programming a new end time

You can edit the end time of a timer recording you have previously set.

Select 'Timer Recording' then 'Timer Recording' from the Home Menu.



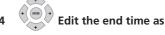
## 2 Highlight the timer recording you want to change.



#### 3 Press ⇒ then select 'Modify' from the command menu panel.

Alternatively, press ENTER.

The Timer Program Set screen appears, from which you can edit the settings.



#### necessary.

You can also edit the **Extend** time parameter.



5

Select 'Store Program'.

6 Press to exit the Timer Recording screen.

#### Stopping a timer recording



Press during a timer recording.



Select 'Yes' to confirm.

#### Preventing use of the recorder before a timer recording (child lock)

You can make all the front panel and remote control buttons inoperative using the child lock feature. This is useful when you set a timer recording and want to make sure that the timer settings are not changed before recording has finished.

# 1 <sup>(1)</sup> If the recorder is on, switch it into standby.

## 2 Front panel] Press and hold for three seconds to lock the controls.

The front panel display briefly shows **LOCK**. If any buttons are pressed on the remote or front panel, **LOCK** is briefly displayed again.

To unlock the recorder, press and hold ■
 STOP on the front panel (while the recorder is stopped) for three seconds until the display shows UNLOCK.

### **Timer recording FAQ**

### Frequently Asked Questions

• Even though the timer is set, the recorder doesn't start recording!

Check that the disc loaded or HDD is recordable, not locked (see *Lock Disc* on page 99), and that there are fewer than 99/999 titles already on the DVD/HDD.

- The recorder won't let me enter a timer program! Why not?
   You can't enter a timer program if the clock isn't set.
- What happens when two or more timer programs overlap?

Basically, the program with the earlier recording start time has priority. However, the recorder will start recording the program with the later start time after the earlier program is finished. If two programs have the same times (but different channels, for example), the program set most recently takes priority.

# Simultaneous recording and playback (Chase Play)

05

#### HDD

Chase Play allows you to watch a recording that is still in progress from the start, without having to wait until the recording has finished (i.e., playback is 'chasing' the recording).

In fact, you're not just limited to watching the recording in progress. You can watch anything else already on the HDD (or on a DVD if you're recording to the HDD) by selecting it from the Disc Navigator screen (see Using the Disc Navigator with recordable discs and the HDD on page 55).

Chase Play is not possible when DV is the recording input.

## 🔥 Important

• You can't use this feature during Auto Start Recording, or in Auto Start Recording standby (the **AUTO** indicator is lit in the front panel display).

• Press during recording to start playback from the beginning of the current recording<sup>1</sup>.

DISC NAVIGATOR

PLAY

## • Press during recording to select another title to play.

You can use all the usual playback controls, such as pause, slow-motion play, scan and skip.

- To stop playback, press **STOP** (recording will continue).
- To stop recording, press STOP REC (playback will continue).

#### 🖉 Note

<sup>1</sup> You can't start playback immediately after recording starts. Simultaneous playback and recording doesn't work while copying or backing up.

### ( Recording

05

 During recording or in timer recording standby, you can't play an HDD title, DVD or Video CD/Super VCD disc if the Input Line System setting doesn't match the TV line system of the disc/HDD title (see also Additional information about the TV system settings on page 116). Also, during simultaneous recording and playback, if the TV line system of the playback track/title changes then playback will automatically stop.

# Recording from an external component

#### DVD (VR) DVD (Video) DVD+R DVD+RW DVD-RAM HDD

You can record from an external component, such as a camcorder or VCR, connected to one of the recorder's external inputs.

# 1 Make sure that the component you want to record from is connected properly to the DVD recorder.

See Chapter 2 (*Connecting up*) for connection options.

# 2 Press repeatedly to select one of the external inputs to record from.

The current input is shown on-screen and in the front panel display:

- L1 Input 1 / Auto Start Rec
- L2 Input 2 (front panel)
- L3 Input 3

Check that the **Audio In** settings for **External Audio** and **Dual Mono Recording/Bilingual Recording** are as you want them (see *Audio In* on page 108).

 If the aspect ratio is distorted (squashed or stretched), adjust on the source component or your TV before recording.  To watch video coming in via the DV input (front panel), select DV > DV Video Playback from the Home Menu (see also *Playing from a DV camcorder* on page 64).

#### Set the recording quality.

See *Setting the picture quality/recording time* on page 36 for detailed information.

4 HDD DVD Select the HDD or DVD for recording.

## 5 Press to start recording.

If your source is copy-protected using Copy Guard, you will not be able to record it. See *Restrictions on video recording* on page 34 for more details.

# Automatic recording from a satellite tuner

#### HDD

3

If you have a satellite tuner or some other kind of set top box connected to the **INPUT 1/AUTO START REC** input, you can have the recorder start and stop recording automatically with the timer settings of the connected component. (If the other component doesn't have a built-in timer, you'll need to use it with an external timer unit.)<sup>1</sup>

After setting up for Auto Start Recording, this recorder starts recording when it detects a signal from the other component. When the signal ceases, the recorder stops recording.

If you want to use this recorder with the timer features of your satellite tuner, see *Language code list* on page 130.

#### 🔗 Note

1 You can't set Auto Start Recording when:

- the HDD is not recordable.
- the HDD already contains the maximum number of titles (999).

<sup>-</sup> the recorder is recording or in timer recording standby.

## Important

- It takes a little while for this recorder to switch on and start recording after detecting a signal. Please bear this in mind when setting the timer.
- If Auto Start Recording is set, it will not start if another timer recording is in progress.
- Timer recordings take precedence over Auto Start Recording. Auto Start Recording will stop if a timer recording is due to start. After the timer recording has finished, Auto Start Recording will resume.

#### 1 Set the timer for the satellite receiver (or other component), then switch it into standby (if necessary).

Check the manual that came with the receiver if you're not sure how to do this.

#### 2 Check that the 'Audio In' settings for 'External Audio' and 'Dual Mono Recording/Bilingual Recording' are as you want them.

See *Audio In* on page 108 for more on these settings.

#### 3 Set up the recorder.

• Use **REC MODE** to set the recording quality. See *Setting the picture quality/ recording time* on page 36 for detailed information.

## 4 Press HOME MENU and select 'Timer Recording', then 'Auto Start Recording'.

5 Select 'Yes' to switch Auto Start Recording on, or 'No' to switch off. If you choose 'Yes' the recorder automatically goes into standby.

The **AUTO** indicator in the front panel display lights.

The recorder will automatically switch on and start recording when the other component comes on. Recording stops when the external component switches off.  To cancel Auto Start Recording, press STANDBY/ON while the recorder is in standby. The AUTO indicator goes off.
 05

- To cancel Auto Start Recording once recording has already started, press ●
   **REC** for three seconds (this cancels Auto Start Recording, but recording continues), then □ **STOP REC** to stop recording.
- You can also stop recording by pressing
   STOP REC then selecting Yes to confirm.

## 🛟 Тір

 Alternatively, with no OSD displayed, press and hold the front panel STOP REC button for more than three seconds to switch Auto Start Recording on directly. After switching on, switch the recorder into standby.

05

# Playing your recordings on other DVD players

#### DVD (VR) DVD (Video) DVD+R DVD+RW

Most regular DVD players can play finalized discs recorded in Video mode and DVD+R discs. A number of players (including many Pioneer models) can also play DVD-RW discs recorded in VR mode, finalized or not. Most players will not play VR mode DVD-R discs, although some DVD-ROM drives and DVD recorders may be able to (finalization might be necessary). Check the manual that came with the player to check what kinds of discs it will play.

When you finalize a Video mode or DVD+R disc, a title menu is created from which you can select titles when you play the disc. There are a number of different styles of title menu to choose from to suit the content of the disc.

All the title menus are navigated in the usual way, pressing **MENU** or **TOP MENU** to display the menu, then using the ↑/↓/←/ → followed by **ENTER** to select titles and start playback.

#### **Finalizing a disc**

#### DVD (VR) DVD (Video) DVD+R DVD+RW

Finalizing 'fixes' the recordings on the disc so that it can be played on a regular DVD player or computer equipped with a suitable DVD-ROM drive.<sup>1</sup>

Note that the disc name will appear in the title menu after you finalize a disc. Make sure the disc name is as you want it before you finalize the disc as it can't be changed afterwards. If you want to rename the disc, see *Input Disc Name* on page 99 before starting the steps below.

DVD+RW discs don't generally need finalizing. However, if you want a title menu to appear when you play the disc, then you will need to finalize. When using a DVD+RW, you can still record and edit even after finalizing. although the title menu will disappear if you do so. Finalize the disc again to generate a new title menu.

## Important

- Once you've finalized a Video mode or DVD+R disc, you can't edit or record anything else on that disc. However, the finalization on a DVD-RW disc maybe 'undone'; see Undo Finalize on page 100 for how to do this.
- A VR mode DVD-R/-RW (excluding DVD-R DL) disc can still be recorded and edited on this recorder even after finalizing.
- Video mode DVD-R DL discs and DVD+R DL discs must be finalized in order to play in other recorders/players. Note however that some recorders/ players will not play even finalized duallayer discs.

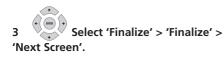
#### 🔗 Note

<sup>1</sup> If the TV line system of the disc is different to the current setting of the recorder, you will not be able to finalize the disc. See *Additional information about the TV system settings* on page 116 for how to change the recorder's setting.

#### 1 Load the disc you want to finalize.

Make sure that the recorder is stopped before proceeding.

2 Select 'Disc Setup' from the Home Menu.



Basic	Finalize	►Next Screen
Initialize	Undo Finalize	▶ Start
Finalize		
Optimize HDD		
	-	



#### 4 For Video mode and DVD+R/ +RW discs only, select a title menu style, then select 'Yes' to start finalization or 'No' to cancel.

The menu you select will be the one that appears when the 'top menu' (or 'menu' for a DVD+R/+RW) is selected on any DVD player.



• Discs recorded partially or fully on the Pioneer DVR-7000 DVD recorder do not support this feature. These discs will have only a text title menu when finalized on this recorder.

## 5 The recorder will now start finalizing the disc.

During finalization:

 If the finalization process of a DVD-RW or DVD+R/+RW disc is going to take more than around four minutes, you can press ENTER to cancel. Around four minutes before completion, the option to cancel disappears. 05

- You can't cancel the finalization of a VR mode DVD-R disc.
- How long finalization takes depends on the type of disc, how much is recorded on the disc and the number of titles on the disc. A disc recorded in VR mode can take up to one hour to finalize. Video mode DVD-R/-RW and DVD+R/+RW discs can take up to 20 minutes.

05

# Initializing recordable DVD discs

#### DVD-R DVD-RW DVD+RW DVD-RAM

DVD-R/-RW discs can be initialized for either Video mode recording or VR mode recording.<sup>1</sup>

When you first load a blank DVD-RW or DVD+RW disc, the recorder initializes it for recording automatically. By default, blank DVD-RW discs are initialized for VR mode recording. See *DVD-RW Auto Init.* on page 112 if you want to change the default to Video mode.

DVD-R discs are ready for Video mode recordings out of the box; if you want to use a DVD-R for VR mode recording, you must initialize it before recording anything on the disc.

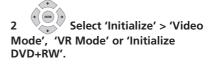
DVD+RW and DVD-RAM discs can also be initialized in order to erase the contents of the disc.



- Initializing a DVD-RW, DVD+RW or DVD-RAM disc will erase everything recorded on it. Make sure there is nothing on the disc that you want to keep!
- You may not be able to re-initialize a DVD-RW disc in a different format if it was originally initialized on an older DVD recorder.
- Once initialized for VR mode recording, you can't re-initialize a DVD-R back to Video mode.

HOME

1 Select 'Disc Setup' from the Home Menu.



Basic Initialize Finalize Optimize HDD	VR Mode Video Mode Initialize DVD+RW	▶Start ▶Start ▶Start	



It takes about 30 seconds to initialize the disc (except DVD-RAM discs, which can take up to 1 hour).

Initializing disc	7ch
	1 min left

🖉 Note

1 If a disc was previously finalized on an older DVD recorder, you may not be able to re-initialize and/or initialize it for Video mode recording.

## <sup>Chapter 6</sup> Playback

## Introduction

Most of the features described in this chapter make use of on-screen displays. Navigate these using the cursor buttons and **ENTER**. To go back one level from any screen, use the **RETURN** button.

Remember also that the button guide at the bottom of every screen shows which buttons do what.

Many of the functions covered in this chapter apply to the HDD, DVD discs, Video CDs, Super VCDs, WMA/MP3/DivX discs and CDs, although the exact operation of some varies slightly with the kind of disc loaded.

- Many functions are not available when a Video CD is playing in PBC mode. Start playback from the Disc Navigator screen for non-PBC playback (see Using the Disc Navigator with playback-only discs on page 56).
- For discs that contain JPEG picture files, see *The PhotoViewer* on page 91.

## Important

• Unless otherwise stated, the OSDs shown in this manual are for the Taiwan and Philippines model.

## **Basic playback**

### ALL

This section shows you how to use your recorder for playback of discs (DVD, CD, etc.), and for playback of video from the HDD.

## 💧 Important

- Throughout this manual, the term 'DVD' means any kind of playable or recordable DVD. If a function is specific to a particular kind of DVD disc, it is specified.
- Some DVD-Video, DVD+R and DVD+RW discs don't allow certain playback controls to operate at certain points in the disc. This is not a malfunction.

## 1 HDD DVD Select the HDD or

#### DVD for playback.

If playing video from the HDD, skip to step **3** below.

Select DVD for any kind of disc playback.

## 2 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-Video disc, load it with the side you want to play face down).

• If you want to play a DTS audio CD, please first read the note on page 53.

### ( Playback

PLAY

3

#### Start playback.

- If you're playing a DVD-Video or Video CD, a disc menu may appear when you start playback. Use the ↑/↓/←/→ buttons and ENTER to navigate DVD disc menus, and the number buttons and ENTER for Video CD menus.
- When playing video from the HDD, playback will automatically stop after the end of a title is reached.
- There may be a slight pause when playback switches from the first to the second layer of a dual-layer disc.
- See the following sections for more details on playing specific kinds of discs.



5 When you've finished using the recorder, eject the disc and switch the recorder back into standby.

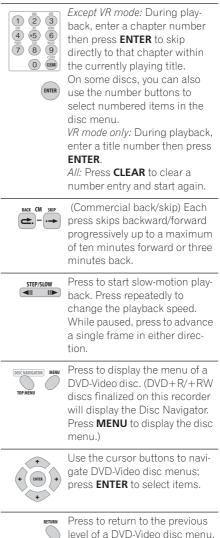
#### **Playing DVD discs**

The table below shows the basic playback controls for DVD-Video, and recordable DVD discs.

PLAY	Press to start playback. If <b>RESUME</b> is displayed on- screen, playback starts from the place last stopped.
STOP	Press to stop playback. You can resume playback from the same point by pressing ► PLAY. (Press ■ STOP again to cancel the resume function.)
PAUSE	Pauses playback, or restarts playback when paused.
REV SCAN FWD SCAN	Press to start scanning. Press repeatedly to increase the scan- ning speed.

PREV NE

Press to skip to previous/next
 chapter/title. (During playback you can also use the front panel
 CH +/- buttons.)
 DVD+R/DVD+RW only: I◄◀
 PREV may not always skip to the previous title.



06

### **Playing from the HDD**

The table below shows the basic playback controls when playing video recorded on the hard disk (HDD).

PLAY	Press to start playback. If <b>RESUME</b> is displayed on-	a single frame in either direc- tion.		
	screen, playback starts from the place last stopped. Play- back automatically stops after the end of a title is reached.	The table bel	<b>Ds and WMA/MP3 discs</b> ow shows the basic playback audio CDs <sup>1</sup> , and WMA/MP3	
STOP	Press to stop playback. You can resume playback from the same point by pressing ► PLAY. (Press ■ STOP again to cancel the resume function.)		Press to start playback.	
PAUSE	Pauses playback, or restarts playback when paused.			
REV SCAN FWD SCAN	Press to start scanning. Press repeatedly to increase the scan-	PAUSE	Pauses playback, or restarts playback when paused. Except WMA: Press to start	
PREV NEXT	ning speed. Press to skip to previous/next chapter/title. (During playback you can also use the front panel <b>CH +/-</b> buttons.)		scanning. Press again to increase the scanning speed. (There are two scan speeds; the current scan speed is shown on-screen.)	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	During playback, enter a title number then press <b>ENTER</b> to skip directly to that title. Press <b>CLEAR</b> to clear a number entry and start again.	PREV NEXT	Press to skip to previous/next track (or folder for WMA/MP3 disc). (During playback you can also use the front panel <b>CH +/-</b> buttons.)	
	(Commercial back/skip) Each press skips backward/forward	1 2 3 4 5 7 8 9	During playback, enter a track number then press <b>ENTER</b> to skip directly to that track. Press <b>CLEAR</b> to clear a number	
0	progressively up to a maximum of ten minutes forward or three minutes back.	0 (ILER)	entry and start again.	

### 🔗 Note

1 If you want to play a DTS audio CD, make sure the recorder is connected to a DTS-compatible amp/receiver with a digital connection. Noise will be output through the analog outputs. Also make sure that **Stereo** is selected using the **MUDIO** button (see *Switching audio channels* on page 62).

06

Press to start slow-motion play-

While paused, press to advance

back. Press repeatedly to

change the playback speed.

STEP/SLOW

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## ) ( Playback

06

<b>Playing Video CD/Super VCDs</b> The table below shows the basic play controls for Video CD/Super VCDs. Some discs feature Playback Control for short) menus. These discs show P the display when you load them and o a menu on-screen from where you can	(PBC utes forward or three minutes BC in back. Note that this function display doesn't work when playing in
what to watch. <sup>1</sup> Press to start playback. Video CD only: If <b>RESUME</b> played on-screen, playbac starts from the place last stopped.	ck While paused, press to advance.
<ul> <li>STOP</li> <li>Press to stop playback.</li> <li>Video CD only: You can replayback from the same playback from the same playback.</li> </ul>	pointing in PBC mode. poss ■
PAUSE Pauses playback, or resta	irts
REVSCAN FWDSCAN Press to start scanning. F repeatedly to increase the ning speed.	
PREV NEXT Press to skip to previous/ track. When a PBC menu is dis played, press to display th vious/next page. (During playback you can also us front panel <b>CH +/-</b> buttor	- ne pre- e the
During playback, enter a number then press ENTE skip directly to that track. Press CLEAR to clear a nu entry and start again. While a PBC menu scree displayed, use to select n bered menu items.	<b>R</b> to umber n is

#### 🔗 Note

1 When playing in PBC mode, some playback features, such as search, repeat and program play are not available. You can play a PBC Video CD/Super VCD in non-PBC mode by starting playback using the Disc Navigator (see *Using the Disc Navigator with playback-only discs* on page 56).

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### Playing DivX video files

The table below shows the basic playback controls for DivX video files.

PLAY	Press to start playback. If <b>RESUME</b> is displayed on- screen, playback starts from the place last stopped. Play- back of titles (DivX files) pro- ceeds in alphabetical order.
STOP	Press to stop playback. You can resume playback from the same point by pressing ► PLAY. (Press ■ STOP again to cancel the resume function.)
PAUSE	Pauses playback, or restarts playback when paused.
REV SCAN FWD SCAN	Press to start scanning. Press repeatedly to increase the scan- ning speed.
PREV NEXT	Press to skip to previous/next title. (During playback you can also use the front panel <b>CH +/–</b> buttons.)
STEP/SLOW	Press to start slow motion play- back (press repeatedly to change the slow motion play speed). While paused, press to advance one frame.
AUDIO	Press to display the playback audio type; press repeatedly to change the playback audio type.
SUBTITLE	Press to display subtitle information; press repeatedly to change subtitles.

### Using the Disc Navigator to browse the contents of a disc

Use the Disc Navigator to browse the contents of a disc and start playback.

### Using the Disc Navigator with recordable discs and the HDD

DVD-R DVD-RW DVD+R DVD+RW DVD-RAM (HDD)

You can use the Disc Navigator to browse and edit video on recordable DVDs and the HDD, and to view information on titles.

See also *Editing* on page 67 for more on editing recordable discs.



 You can also access the Disc Navigator from the Home Menu.

11/29 WED 7:00PM 11/29Wed 7:00PM 2ch SP

1h00m(1.0G)



3

#### Browse the list of titles.

- Use the Idd PREV / Del NEXT buttons. to display the previous/next page of titles.
- To change the thumbnail picture displayed for a title see Set Thumbnail on page 72.
- For HDD recordings, you should be able to see a thumbnail title digest. If it doesn't display, set Set Preview to Normal. See Set Preview on page 116.

#### Play the highlighted title.

You can also select Play from the command menu options.

06

06

#### Changing the display style of the **Disc Navigator**

You can choose to display titles in the Disc Navigator in various different ways, sorted alphabetically, by recording date, by genre, and so on. You can also choose whether to display four or eight titles on the screen at the same time.



panel.

**Display the View Options** 

#### The View Options panel





Choose 'Style', 'Sort order' or 2 'Genre', then press ENTER to see the available view options.

- Style Select four or eight titles per screen view
- Sort order Sort by date (most recent first), unwatched first, title name or recording date (oldest first)
- Genre Display all genres or just a selected genre



3

Choose a view option, then

#### press ENTER.

The title list display is updated according to the new display preferences.

#### Using the Disc Navigator with playback-only discs

DVD-Video CD Video CD Super VCD WMA/MP3 DivX

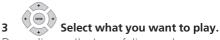


#### Display the Home Menu.



Select 'Disc Navigator'.

Alternatively, for a CD, Video CD, Super VCD or WMA/MP3/DivX disc, you can press DISC **NAVIGATOR**, which takes you straight to the Disc Navigator screen.



Depending on the type of disc you have loaded, the Disc Navigator looks slightly different, but they are all navigated in the same way.

The screen below shows a WMA/MP3/DivX disc. Navigate to the folder, or the track/title within a folder that you want to play.

Disc Navigator					
CD	•	Folder (01-03) 01.Rock	-	Track(001-004)	
WMA/MP3		02.Pop		002.Escape	
Divx		03.Dance		003.Everything You Say 004.What I Do	
	•		•	•	

Playback starts after you press ENTER.

 For discs that contain CD-Audio tracks. and WMA/MP3 tracks or DivX titles, you can switch the playback area between CD. WMA/MP3 and DivX. This can only be done while the disc is stopped.

### Scanning discs

#### ALL (except WMA)

You can scan discs at various speeds. forwards or backwards.<sup>1</sup>

#### REV SCAN FWD SCAN 44

1

#### During playback, start reverse or forward scanning.

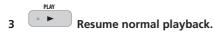
• The scanning speed is shown on-screen.



#### Press repeatedly to change 2 the scanning speed.

There are four scanning speeds available when plaving HDD video, a DVD or a DivX title. Reverse playback is also possible with HDD and DVD video.<sup>2</sup>

There are two scanning speeds for other types of disc.



## **Playing in slow motion**

#### DVD (HDD) Video CD Super VCD (DivX)

You can play video at various slow motion speeds. DVDs and video on the HDD can be played in slow motion in either direction, while Video CDs/Super VCDs and DivX titles can only be played forwards in slow motion.

There is no sound when playing in slow motion.

#### STEP/SLOW

Press to start slow motion reverse or forward play.

#### STEP/SLOW

#### Press repeatedly to change 2 the slow motion speed.

The current playback speed is indicated onscreen.

PLAY 3 Resume normal playback.

#### 🔗 Note

No subtitles are displayed when scanning DVDs and DivX titles.

 Analog and digital sound is output when scanning DVDs and DivX titles with Dolby Digital or Linear PCM sound on forward SCAN 1 (Linear PCM is output from the coaxial digital output, except during chase playback and simultaneous recording/playback). No sound is output when using other scan speeds.

• No sound is output when scanning from the HDD, except on forward SCAN 1. (Linear PCM is output from the coaxial digital output during forward SCAN 1).

 Depending on the disc, normal playback may automatically resume when a new chapter is reached on a DVD disc.

2 Reverse playback may not be smooth.

06

# Frame advance/frame reverse

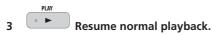
#### DVD HDD Video CD Super VCD DivX

You can advance or back up video on a DVD disc<sup>1</sup> or the HDD frame-by-frame.

With Video CDs/Super VCDs and DivX titles, you can only use frame advance.



2 Back up or advance one frame with each press.



### The Play Mode menu

#### ALL

The Play Mode menu gives you access to search functions, repeat and program play functions.

## • Press to display the Play Mode menu.



- You can also access the Play Mode menu from the Home Menu (press **HOME MENU**).
- To exit the Play Mode menu, press HOME MENU or PLAY MODE.

#### Search Mode

#### ALL

The Search Mode feature lets you start playback from a specified point in a disc by time<sup>2</sup> or by title/chapter/folder/track number.



#### 1 Select 'Search Mode' from the Play Mode menu, then choose a search option.

The available search options depend on the type of disc.



#### 2 Enter a title/chapter/folder/ track number or a search time.



*Time Search (HDD, DVD):* For example, for 25 minutes into the current title, press **2**, **5**, **0**, **0**. For 1 hour and 15 minutes and 20 seconds into the title, press **1**, **1**, **5**, **2**, **0**.

*Time Search (Video CD):* For example, for 2 minutes and 30 seconds into the current track, press **2**, **3**, **0**.

*Title/Chapter/Folder/Track Search:* For example, for track 6, press **6**.



### 🔗 Note

1 Depending on the disc, normal playback may automatically resume when a new chapter is reached. 2 When using time search, playback may occasionally start slightly before or after the time you input.

#### **A-B Repeat**

DVD HDD CD Video CD DivX

The A-B Repeat function allows you to specify two points (A and B) within a track or title that form a loop which is played over and over.<sup>1</sup>



1 <sup>•</sup> During playback, select 'A-B Repeat' from the Play Mode menu.

# 2 With 'A (Loop Start)' highlighted, press at the point you want the loop to start.

Play Mode		
Search Mode	A (Loop Start)	
A-B Repeat	B (Loop End)	
Repeat	Off	
Program		

# 3 With 'B (Loop End)' highlighted, press at the point you want the loop to end.

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

- When playing a DVD-Video/Video mode DVD, or from the HDD, the start and end points of the loop must be in the same title.
- To resume normal playback, select **Off** from the A-B Repeat menu, or press **CLEAR** if no menu OSD (such as the Play Mode menu) is displayed.

### **Repeat play**

#### ALL

There are various repeat play options, depending on the kind of disc loaded, or if you're using the HDD for playback. It's also possible to use repeat play together with program play to repeat the tracks/chapters in the program list (see *Program play* below).<sup>2</sup>



Mode menu, then choose a repeat play mode.

Play Mode	
Search Mode	Repeat Disc
A-B Repeat	Repeat Title
Repeat	Repeat Chapter
Program	Repeat Off

 To resume normal playback, select Repeat Off from the Repeat Play menu, or press CLEAR if no menu OSD (such as the Play Mode menu) is displayed.

🖉 Note

1 If you switch camera angles on a DVD during A-B repeat play, A-B repeat is canceled.

2 If you switch the camera angle during repeat play of a DVD-Video disc, repeat play is canceled.

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### ( Playback

06

#### **Program play**

HDD DVD-Video CD Video CD Super VCD WMA/MP3

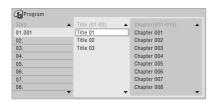
This feature lets you program the play order of titles/chapters<sup>1</sup>/folders/tracks on a disc or the HDD.



### Select 'Program' from the Play

#### Mode menu, then 'Input/Edit Program'.

The Input/Edit Program screen varies according to the disc type. Below is the DVD input screen.





#### 2 Select a title, chapter, folder or track for the current step in the program list.

After pressing **ENTER** to add the title/ chapter/folder/track, the step number automatically moves down one.

- To insert a step into the program list, highlight the step number where you want to insert another step, then select a chapter/title/folder/track as usual. After pressing ENTER, all the subsequent steps move down one.
- To delete a step from the program list, highlight the step you want to delete, then press **CLEAR**.

## 3 Repeat step 2 to build up a program list.

A program list can contain up to 24 titles/ chapters/folders/tracks.



#### Play the program list.

Program play remains active until you cancel program play, erase the program list, eject the disc or switch off the recorder.



- To save your program list and exit the program edit screen without starting playback, press HOME MENU or PLAY MODE.
- During program play, press ►► NEXT to skip to the next program step.
- To repeat play the program list, select **Program Repeat** from the Repeat Play Mode menu (see *Repeat play* on page 59).
- Press CLEAR during playback to switch off program play (if no menu OSD, such as the Disc Navigator, is displayed).
   Press while stopped to erase the program list.
- From the Program menu you can also: Start Program Play – Starts playback of a saved program list

**Cancel Program Play** – Turns off program play, but does not erase the program list

**Erase Program List** – Erases the program list and turns off program play

### 🔗 Note

60 En When playing a program list of DVD-Video chapters, chapters not included in the program list may be sometimes be played, depending on the disc.

# Displaying and switching subtitles

#### DVD-Video DivX

Some DVD and DivX discs have subtitles in one or more languages; the disc box will usually tell you which subtitle languages are available. You can switch subtitle language during playback.<sup>1</sup>

Check the disc packaging for details of the subtitle options.

## • Select/change the subtitle language.

The current subtitle language is shown onscreen and in the front panel display.

• To switch off subtitles, press **SUBTITLE** then **CLEAR**.

# Switching DVD and DivX soundtracks

#### DVD-Video DivX

When playing a DVD disc or DivX title recorded with two or more soundtracks (often in different languages), you can switch the soundtrack during playback.<sup>2</sup>

Check the disc packaging for details of the soundtrack options.

#### • Change the audio soundtrack.

The current audio language is shown onscreen and in the front panel display.

- The sound may drop out for a few seconds when switching soundtracks.
- Some discs feature both Dolby Digital and DTS soundtracks. There is no analog audio output when DTS is selected. To listen to the DTS soundtrack, connect this recorder to a DTS decoder or AV amp/receiver with built-in DTS decoder via the digital output. See *Connecting to an AV amplifier or receiver* on page 20 for connection details.

#### 🖉 Note

- 1 Some discs only allow you to change subtitle language from the disc menu. Press **MENU** or **TOP MENU** to access.
- To set subtitle preferences, see on page 111.
- Some discs only allow you to change audio language from the disc menu. Press MENU or TOP MENU to access.
  - To set audio language preferences, see on page 110.

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06

## Switching audio channels

#### DVD (VR) DVD-RAM HDD CD Video CD Super VCD

#### WMA/MP3

#### Taiwan and Philippines model:

For HDD<sup>1</sup> and VR mode content that has both a main and a SAP (Secondary Audio Program) audio channel, you can switch between main (L), SAP (R), or both (L+R).<sup>2</sup> *Other:* 

For HDD<sup>1</sup> and VR mode content recorded with bilingual audio, you can switch between left (L) channel, right (R) channel, or both (L+R).<sup>2</sup>

When playing Video CDs and audio CDs you can switch between stereo, just the left channel or just the right channel.

Some Super VCDs have two soundtracks. With these discs you can switch between the two soundtracks as well as individual channels in each.

#### • Press repeatedly to display/ switch the audio channel.

The audio channel(s) currently playing are indicated on-screen.

#### HDD DVD (VR) DVD-RAM

Taiwan and Philippines model:

- L+R Both channels (default)
- **L** Left/main channel only
- **R** Right/SAP channel only

Other:

L+R – Both channels (default)

- L Left channel only
- R Right channel only

#### CD Video CD WMA/MP3

Stereo – Stereo (default)1/L – Left channel only2/R – Right channel only

#### Super VCD

**1 Stereo** – Soundtrack 1 / Stereo (default)

- **1** L Soundtrack 1 / Left channel
- **1 R** Soundtrack 1 / Right channel
- 2 Stereo Soundtrack 2 / Stereo
- **2** L Soundtrack 2 / Left channel
- **2 R** Soundtrack 2 / Right channel

### 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. When a multi-angle scene is playing, the same icon appears on screen to let you know that other angles are available (this can be switched off if you prefer—see *Angle Indicator* on page 114).

- 🖱 Switch the camera angle.
- The angle number is displayed onscreen.
- If the disc was paused, playback starts again with the new angle.

<sup>🖉</sup> Note

<sup>1</sup> Only when HDD Recording Format is set to Video Mode Off (HDD Recording Format on page 113).

<sup>2</sup> When playing a Dual Mono recording/Bilingual Recording on a VR mode disc, if you are listening to the Dolby Digital soundtrack via the digital output, you cannot switch the audio channel. Set Dolby Digital Out to Dolby Digital Out to Dolby Digital Out on page 109) or listen via the analog outputs if you need to switch the audio channel.

# Displaying disc information on-screen

You can display various on-screen information about the disc loaded or the HDD.

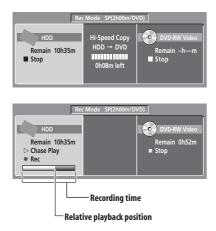
## • Display/change the on-screen information.

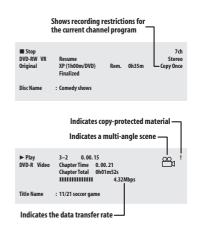
- Press once to show the HDD and removable disc (DVD, etc.) activity together. Press again to show the status of just the currently selected playback/ recording device (HDD or removable disc).
- To hide the information display, press **DISPLAY** repeatedly until it disappears.

## HDD and removable disc activity display

Press **DISPLAY** once to see the HDD and removable disc (DVD, etc.) activity. Use the **HDD** and **DVD** button to switch between the two kinds of display.

The example displays below show highspeed copying from HDD to DVD, and HDD chase playback.







- See *Switching camera angles* on page 62 for more on multi-angle scene switching.
- When using the simultaneous play and record feature, the display shows information for playback only.
- During real-time copy, the copy source playback information is displayed.
- The Video mode disc displays become the same as a DVD-Video disc once the disc is finalized.
- The total recording time figure shown in parenthesis is calculated based on a 12 cm / 4.7 GB disc at the displayed record setting.
- Recording and playback times for TV recordings are approximately 0.1 % shorter than the actual time. This is because of the slightly different frame rates of TV broadcasts versus DVD.
- The frame number is shown next to the elapsed time display when the disc is paused.
- Copy Once or Can't Record messages may appear in the stop or recording displays. These indicate that the broadcast TV program contains copy control information.

## Chapter 7 Playing and recording from a DV camcorder

You can play back and record video from a DV camcorder connected to the **DV IN** jack on the front panel of this recorder.

## Important

- If you connect a second recorder using a DV cable, you cannot control the second unit from this one.
- You can't control this unit remotely from a component connected to the **DV IN** jack.

## Playing from a DV camcorder

1 Make sure your DV camcorder is connected to the front panel DV IN jack.

# 2 From the Initial Settings menu, check that the DV audio input is setup as you require.

See DV Input on page 109 for more on this.

• Check also that the **Audio In** settings for **External Audio** and **Dual Mono Recording/Bilingual Recording** are as you want them (see *Audio In* on page 108).

HOME

## 3 Select 'DV', then 'DV Video Playback' from the Home Menu.

## 4 Start playback on the camcorder.

Images from the camcorder should appear on your TV.

 To record the incoming video, press HDD/DVD to select the HDD or a DVD for recording, then press ● REC. Press
 □ STOP REC to finish recording. If there is no signal from the device connected to the DV jack, or the signal is copy-protected, recording will pause. It will automatically restart once there is a recordable signal.

- The recorder will only start recording from the **DV IN** jack if there is a valid signal. Recording will pause if the signal is interrupted during recording.
- If your source is copy-protected using Copy Guard, you will not be able to record it. See *Restrictions on video recording* on page 34 for more details.

# Recording from a DV camcorder

Using the recorder's remote, you can control both the camcorder and this recorder.

## Important

- The source signal must be DVC-SD format.
- Some camcorders cannot be controlled using this recorder's remote.
- You can't record date and time information from DV cassette.
- During DV recording, if a part of the tape is blank, or has copy-protected material on it, this recorder will pause recording. Recording will restart automatically when there is a recordable signal. However, if there is more than 10 seconds of blank tape, this recorder will stop recording and the camcorder should stop (depending on the camcorder).

## Playing and recording from a DV camcorder

 For best results when recording from a DV camcorder to this recorder, we recommend cueing the camcorder to the place you want to start recording from and setting the camcorder to playpause.

#### Make sure your DV camcorder is connected to the front panel DV IN jack.

Also, set the camcorder to VTR mode.

- Set the recording guality. 2
- See Setting the picture quality/recording time on page 36 for detailed information.

#### 3 From the Initial Settings menu, check that the DV audio input is setup as you reauire.

See DV Input on page 109 for more on this.

 Check also that the Audio In settings for External Audio and Dual Mono Recording/Bilingual Recording are as you want them (see Audio In on page 108).



#### 4 Select 'DV', then 'Copy from a DV Source' from the Home Menu.

 DV recording only works when the DV camcorder is in VTR mode with a tape loaded.



5

Select 'Record to Hard Disk Drive' or 'Record to DVD'.

#### Find the place on the camcorder tape 6 that you want to start recording from.

For best results, pause playback at the point from which you want to record.

• Depending on your camcorder, you can use this recorder's remote to control the camcorder using the  $\blacksquare$ ,  $\triangleright$ ,  $\blacksquare$ ,  $\blacktriangleleft$ ,

►► . < II and II► buttons.



Select 'Start Rec'.



- You can pause or stop the recording by selecting Pause Rec or Stop Rec from the on-screen display. You cannot control the camcorder from this remote control during recording.
- If you restart recording after stopping the camcorder, the first few seconds of the camcorder tape will not be recorded. Use the pause button on your camcorder instead and recording will start immediately.
- HDD, DVD (VR Mode) and DVD-RAM only: A chapter marker is inserted every time there is a break in the timecode on the DV tape. This happens when the recording is stopped or paused then restarted, for example.
- If you don't want to see the DV recording screen during recording, press DISPLAY to hide it (press again to display).
- While recording, you cannot exit the DV recording screen using the HOME MENU or RETURN button.

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### Frequently Asked Questions

• I can't get my DV camcorder to work with the recorder!

Check that the DV cable is properly connected. Also make sure that what you're trying to record is not copyprotected.

If it still doesn't work, try switching off the camcorder then switch back on.

• There's a picture, but no sound!

Try switching the **DV Input** setting (see *DV Input* on page 109) between **Stereo 1** and **Stereo 2**.<sup>1</sup>

### **DV video setting**

Use this setting to adjust the picture quality of the incoming video from the DV device connected to the DV jack of this recorder.



## • Select 'DV', then 'DV Video Setting' from the Home Menu.

For detailed information on this setting, see *Setting the picture quality for TV and external inputs* on page 102.

### **About DV**

Using DV, also known as i.LINK or IEEE 1394-1995, you can connect a DV camcorder to this recorder using a DV cable for input of audio, video, data and control signals.

"i.LINK" and the "i.LINK" logo are trademarks.

- This recorder is only compatible with DVformat (DVC-SD) camcorders. Digital satellite receivers and Digital VHS video recorders are not compatible.
- You cannot connect more than one DV camcorder at a time to this recorder.
- You cannot control this recorder from external equipment connected via the DV IN jack.
- It may not always be possible to control the connected camcorder via the DV IN jack.
- DV camcorders can usually record audio as stereo 16-bit / 48 kHz, or twin stereo tracks of 12-bit / 32 kHz. This recorder can only record one stereo audio track. Set the **DV Input** setting as required (see *DV Input* on page 109).
- Audio input to the **DV IN** jack should be 32 kHz or 48 kHz (not 44.1 kHz).
- Picture disturbance in the recording may occur if the source component pauses playback or plays an unrecorded section of tape, or if the power fails in the source component, or the DV cable is disconnected.
- The **DV IN** jack is an input only. There is no output functionality.

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1 If the audio subcode on the DV tape cannot be read correctly, the audio type will not switch automatically. You can switch the audio manually from the **External Audio** setting (page 108).

## Editing

## Chapter 8 Editing

## **Editing options**

The table below shows which commands you can use with the HDD and different disc types.

	HDD	DVD-R/-RW (Video mode), DVD+R/+RW	DVD-R/-RW, DVD-RAM (VR mode)	
			Original	Play List
Create (page 69)				٠
Play (page 70)	٠	•	٠	٠
Erase (page 70)	٠	•	٠	٠
Edit > Title Name (page 70)	٠	•	٠	٠
Edit > Set Thumbnail (page 72)	٠	•	٠	٠
Edit > Erase Section (page 72)	٠		•	٠
Edit > Divide (page 73)	٠			٠
Edit > Chapter Edit (page 74)	٠		•	٠
Edit > Set Genre (page 75)	٠			
Edit > Lock (page 75)	٠	•	٠	
Edit > Move (page 76)				٠
Edit > Combine (page 76)				٠
Genre Name (page 77)	٠			
Multi-Mode (page 77)	٠			
Undo (page 78)		•	• *1	• *1

\*1 DVD-R/-RW only

08

08

### The Disc Navigator screen

The Disc Navigator screen is where you can edit video content on unfinalized Video mode and VR mode DVD-R/-RW discs, DVD+R/ +RW and DVD-RAM, as well as video content on the internal hard disk drive.

## Important

- Unless otherwise stated, the OSDs shown in this manual are for the Taiwan and Philippines model.
- Titles that have been recorded with a Input Line System setting different to the current setting of the recorder are shown in the Disc Navigator with a blank thumbnail image. See also Additional information about the TV system settings on page 116.
- During recording, if you display the Disc Navigator for the HDD, some of the titles

may appear with a mark. These titles were recorded with a Input Line System setting different to the current setting of the recorder. During recording, these titles cannot be played.

## 1 HDD DVD Select the HDD or DVD.

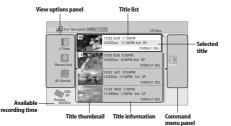


Display the Disc Navigator

#### screen.

Playback will automatically stop when you do this.

• The Disc Navigator is also accessible from the Home Menu.





Press to display the command menu panel. Use the **1**/**J** and **ENTER** buttons to navigate the menus.

- When in the title list, press to display the previous/next page if there are more titles than can be displayed.
- Press to change the title information displayed in the title list.
- **HDD DVD** Press to switch between the HDD and DVD Disc Navigator screens.



- Titles on the HDD marked with a *₹* icon are timer recordings set to Auto Replace Recording (see *Setting a manual timer recording* on page 41).
- Titles on the HDD marked with a NEW icon are recently recorded titles that haven't yet been played.

### 3 Press to exit the Disc Navigator

## Editing

#### **Editing accuracy**

Some editing commands ask you whether you want to keep Video mode compatibility or frame accuracy (*Video Mode Compatible Editing* or *Frame Accurate Editing*).

Frame accurate editing is very precise. The edit point is accurate to the exact frame you choose. However, this accuracy is not preserved in any copy you make if you use the high-speed copy function to make a Video mode DVD.

Video mode compatible editing is less precise. The edit point you choose will only be accurate to within 0.5 to 1 second. On the other hand, these edit points will be preserved if you use high-speed copy to make a Video mode DVD or DVD+R/+RW.

#### **HDD genres**

The large capacity of the HDD means that there may be many hours of video in the recorder. To help you organize your HDD video content you can assign different genres to titles. There are 14 genres in total, including ten user-definable ones that you can name as you like.

#### Create

## DVD (VR) DVD-RAM Play List only

Use this function to create a Play List and add titles to it.

Before you can use this command, make sure that the Play List is switched on in the view options panel on the left.



## 1 Select 'Create' from the command menu panel.

🔗 Disc Navi	igator (DVD)	OTitles
4 Titles	No title	Play Erase
Play List		Edit
+		Create
DVD VR Mode Remain 0h30m		

# 2 Select an original title to add to the Play List.

Repeat these two steps to add as many titles as necessary to the Play List.

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## ( Editing

#### Play

08

DVD (Video) DVD (VR) DVD+R DVD+RW DVD-RAM (HDD

Use this function to start playback of a title.



## Highlight the title you want



Select 'Play' from the

#### command menu panel.

Playback of the title you selected starts.



### Erase

#### DVD (Video) DVD (VR) DVD+R DVD+RW DVD-RAM (HDD

Use this function to erase unwanted titles.

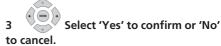
When you erase titles from the HDD or Original titles from a VR mode DVD-RW, the available recording space increases accordingly. Erasing a title from a Video mode DVD-RW or DVD+RW disc increases the available recording time only if it is the last title on the disc.<sup>1</sup>

Erasing Play List titles, or titles from a DVD-R (VR mode or Video mode) or DVD+R, will not result in any more free space on the disc.

1 to erase.

 $^{
u}$  Highlight the title you want

2 Select 'Erase' from the command menu panel.



🛟 Тір

• You can erase a title quickly by pressing **CLEAR** when the title is highlighted. Confirm the edit by pressing **ENTER**.

### Title Name

#### DVD (Video) DVD (VR) DVD+R DVD+RW DVD-RAM (HDD)

You can give titles new names of up to 64 characters long for VR mode, DVD-RAM and HDD recordings, and up to 40 characters for Video mode recordings and DVD+R/+RW discs.

1 Highlight the title you want to name (or rename).

Note

1 There may be cases where erasing a title from a DVD+R/+RW disc will result in incontiguous title numbers.

### Editing



# 3 Input a name for the selected title.

Di Input Title Name						
<u>1</u> 2/03 Sun 11:00PM 4ch SP						
CAPS small	ABC DE F G H I J KLM . , ? ! NO PQR STUVWXYZ () : ; A A A XA & S È É È L Ì Ì Ì I Ì # D N O O O O O O O U O U Y Þ B S % O 12 3 4 5 G 7 8 9 < > " & " & " * + - / @ [ ¥ ] ~ * x { ( 1 } " i c f x \ ! 5 " © ª < - 0" ` * - 1 , ! 5 " © ª < - 0" `					
OK	Clear Space					

- A name generated automatically by the recorder will already be in the name input section of the screen. Use the ◄
   REV SCAN / ►► FWD SCAN buttons to change the cursor position.
- Select CAPS or small to change to upper or lower-case, or use the CASE SELECTION buttons (I PREV / >>I NEXT).
- You can also use the CLEAR button to delete characters directly (press and hold for two seconds to delete the whole name). For other remote control key shortcuts, see Using the remote key shortcuts to input a name below.
- For discs formatted on a different DVD recorder, you will see only a limited character set.



4 Select 'OK' to enter the name and return to the main Disc Navigator screen.

• To return to the main Disc Navigator screen without saving changes to the title name, press **RETURN**.

## Using the remote key shortcuts to input a name

The table below shows the remote control key shortcuts that you can use to input characters in the name input screen. Pressing a button repeatedly cycles through the characters shown.

If you want to enter two characters in succession that are both on the same button (for example a **P** and an **R**), press **▶▶ FWD SCAN** to advance the cursor one space manually between inputting the two characters.

Key	Characters	Key	Characters		
1	.,'?!–&1	6	mno6öôòó øñ		
2	abc2äàáâã æç	7	pqrs7\$ ÿ/ß <sup>*1</sup>		
3	d e f 3 è é ë ê	8	tuv8üùûú		
4	ghi4îïìíi	9	w x y z 9		
5	jk 5£	0	0		
••	[cursor back]	••	[cursor for- ward]		
<b>∢∢</b> / ▶▶	[change case]	CLEAR	[clear charac- ter]		
II	<space></space>		[finish name input]		
+	~ ()_/:;"`^ @ # * % ¥   + = {}[]<>				

\*1 lower-case: ÿ; upper-case: β

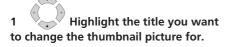
## Editing

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### Set Thumbnail

#### (HDD) DVD (Video) DVD (VR) DVD+R DVD+RW DVD-RAM

You can change the thumbnail picture that appears in the Disc Navigator for a title to any frame that appears in that title.





#### Select 'Edit' > 'Set Thumbnail' from the command menu panel.

The thumbnail setting screen appears from which you can find the frame you want.



#### 3 Use the playback controls (▶, Ⅱ, ◄◄, ▶▶, etc.) to find a suitable frame, then press ENTER to set.



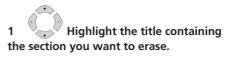
You can also use the chapter and time search features (press PLAY MODE), and 



### **Erase Section**

#### HDD DVD (VR) DVD-RAM

Using this command you can delete a part of a title, ideal for cutting out the commercial breaks in a recording made from the TV.



2 Select 'Edit' > 'Erase Section' from the command menu panel.





 For more information about these options, see Editing accuracy on page 69.

#### Highlight 'From' then use the 4 playback controls ( $\triangleright$ , II, $\triangleleft \triangleleft$ , $\triangleright \triangleright$ , etc.) to find the start of the section to erase, then press ENTER.

The bar at the bottom of the screen indicates the current play position in the title. After pressing ENTER, a marker shows the start of the section.



## Editing



After pressing **ENTER**, another marker indicates the end of the section, with the section itself marked in red.



Select 'Yes' to confirm, or 'No'

#### to cancel.

6

In the thumbnail viewer you can see a few seconds of video either side of the marked section to see how the edit will look.

• When editing VR mode Original content, you may not be able to erase very short sections (less than five seconds).

#### Divide

HDD DVD (VR) DVD-RAM Play List only

Use this command to divide a title into two. Note that once divided, the two new HDD titles cannot be recombined into one again.



Highlight the title you want



2 Select 'Edit' > 'Divide' from the command menu panel.

3 HDD only: Select the type of edit.



• For more information about these options, see *Editing accuracy* on page 69.

4 Use the playback controls (▶, Ⅱ, ◄◄, ▶▶, etc.) to find the place you want to divide the title.



5 (RITER) Press to divide the title at the current playback position.



Divided be coml OK?	titles can bined.	not	
	Yes		No

## 08 (Editing

#### **Chapter Edit**

#### DVD (VR) DVD-RAM HDD

When editing a VR mode DVD or video on the HDD you can edit individual chapters within a title, with commands for erasing, combining and dividing.

# 1 Highlight the title that contains the chapters you want to edit.

2 Select 'Edit' > 'Chapter Edit' from the command menu panel.





• For more information about these options, see *Editing accuracy* on page 69.

#### 4 Select the command you want:

 Divide – Divide a chapter into two or more parts: Use the playback controls
 (▶, Ⅲ, ◄◄, ▶▶, etc.) to find the point at which you want to divide the chapter, then press ENTER.



You can keep dividing the chapter as many times as you wish (up to 999 chapters per DVD-R/-RW/-RAM disc or 99 chapters per HDD title).

• Erase<sup>1</sup>/Move<sup>2</sup> – Erase or move chapters: Select the chapter you want to erase/move and press ENTER. Select whether you want to erase or move the chapter.

*Move command only:* Select the destination for the chapter, and press **ENTER**.



• **Combine**<sup>3</sup> – Combine two adjacent chapters into one: Highlight the bar divider between two adjacent chapters and press **ENTER**.



5 Select 'Exit' to get back to the main Disc Navigator screen.

#### 🔗 Note

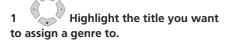
- 1 When editing VR mode Original content, it may not be possible to erase chapters less than five seconds long. 2 VR mode Play List only.
- 3 It may not always be possible to combine two chapters, even though they are adjacent. If a chapter has been divided into three, then the middle chapter erased, it is not possible to combine the two remaining chapters into one.

# Editing

#### Set Genre

#### HDD

Use this command to assign a genre to a title.









Select a genre for the title.



#### Lock

#### (HDD) DVD (Video) DVD (VR) DVD+R DVD+RW DVD-RAM

#### Original only

You can lock a title so that it can't be edited or erased accidently. If you do need to edit it, you can always unlock it later.

# Important

 You can't undo any edits made before changing the lock status. You also can't undo a lock/unlock command using the Undo option from the Disc Navigator menu.

# 1 Highlight the title you want to lock (or unlock).



2 Select 'Edit' > 'Lock' from the command menu panel.

Disc Na	vigator (HDD)		10Titles
4 Titles	10	12/03 SUN 11:00PM- 12/03Sun 11:00PN	Title name Set Thumbnail
Recent first	9	12/03 SUN 8:00PM 12/03Sun 8:00PM	Erase Section Divide Chapter Edit Set Genre
All Genres	8	12/02 SAT 10:00PI 12/02Sat 10:00PM	Cancel
HDD SP Remain 30h30m	7	11/29 WED 7:00PM 11/29Wed 7:00PM 2	ch SP 1h00m(1.0G)

An unlocked title will become locked; a locked title will be unlocked. Locked titles are shown in the Disc Navigator with a padlock icon.

# ( Editing

#### Move

DVD (VR) DVD-RAM Play List only

Use this function to re-arrange the playing order of Play List titles.



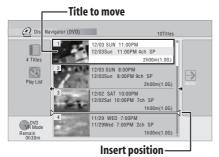
Highlight the title you want







Select a new position for the



After pressing **ENTER**, the new, updated Play List is displayed.

### Combine

# DVD (VR) DVD-RAM Play List only

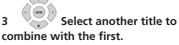
Use this function to combine two Play List titles into one.

# 1 Highlight the title you want to combine.

This title will remain in the same place after combining with another title.



Disc Na	vigator (DVD)	10Titles	
4 Titles		12/03 SUN 11:00PM 12/03Sun 11:00PM 4ch SP 2h00m(1.0G)	*
Play List	2	12/03 SUN 8:00PM 12/03Sun 8:00PM 9ch SP 2h00m(1.0G)	
	and the second se	12/02 SAT 10:00PM 12/02Sat 10:00PM 7ch SP 1h00m(1.0G)	1
VR Mode Remain 0h30m		11/29 WED 7:00PM 11/29Wed 7:00PM 2ch SP 1h00m(1.0G)	*

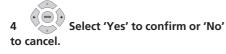


This title will be appended to the first title selected.

The screen below shows title 3 selected to be appended to title 1:



## Editing





#### **Genre Name**

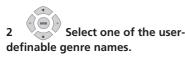
#### HDD

3

Use this command to rename one of the ten user-definable genres (**Free 1** to **Free 10**).

1 Select 'Genre Name' from the command menu panel.









• The name can be up to 12 characters long.

 For information on remote control key short cuts, see Using the remote key shortcuts to input a name on page 71.

🙆 Input Genre Name	
<u>F</u> ree 1	
CAPS small	ABCDEFGHIJKLM., ?! NOPQRSTUVWXYZ():; A& A & & & & & & & & & & & & & & & & &
ОК	С f x \



#### Multi-Mode

#### HDD

Multi-Mode allows you to select several titles, then select a command that will be applied to all of them. In this way you can select multiple titles and then erase them all at once, for example.

# 1 Select 'Multi-Mode' from the command menu panel.



2 Select titles from the title list. Selected titles are marked with a ☑. 08

Editing

08

3 Select the command that you want applied to all the marked titles.

For example, select **Erase** to erase all the marked titles.

Disc Nat	vigator (HDD)	✔ Multi-Mode	10Titles
4 Titles		12/03 SUN 11:00PM 12/03Sun 11:00PM 4	Lock Unlock
Recent first	9	12/03 SUN 8:00PM 12/03Sun 8:00PM 9cl	Change Genre h
All Genres	1-1-	12/02 SAT 10:00PM 12/02Sat 10:00PM 7c	Single Mode
HDD SP Remain 30h30m		11/29 WED 7:00PM 11/29Wed 7:00PM 2c	h SP 1h00m(1.0G)

Once the command is completed, Multi-Mode is automatically exited.

#### Undo

#### DVD (Video) DVD (VR) DVD+R DVD+RW

If you make a mistake while editing, you can generally undo it. There is one level of undo (in other words, you can only undo the last edit you made).



Select 'Undo' from the

#### command menu panel.

• You can't undo anything after exiting the Disc Navigator screen.

Disc Navigator (DVD)		OTitles
4 Titles	No title	Play Erase
Play List		Edit
<b>•</b>		Create
DVD VP Mode Remain 0h30m		

## Frequently asked questions

 Why doesn't the available recording time increase when I erase titles from a VR mode DVD-R?

When you erase titles from a DVD-R (or DVD+R), the titles are no longer displayed, but the content remains on the disc. DVD-R/+R are write-once media; they can't be erased or rewritten.

• I can't edit my disc!

You may find that as the available recording time is reduced on a VR mode DVD-R disc, editing is no longer possible. This is because information about your edits requires a certain amount of disc space. As you edit, this information builds up, eventually preventing you from editing further.

# Chapter 9 Copying and backup

### Introduction

Use the copying features of this recorder to:

- Back up important recordings stored on the HDD to a DVD.
- Make a DVD copy of a recording on the HDD to play in another player.
- Transfer video from a DVD to the HDD for editing.
- Transfer edited video from the HDD to DVD.

The simplest way to copy a title is to use the One Touch Copy feature. This copies the currently playing HDD title to DVD, or DVD title to the HDD. See *One Touch Copy* on page 80 for detailed instructions.

For more sophisticated copying tasks you can build a Copy List of titles to copy, and edit titles so that you only copy the bits you want. See *Using Copy Lists* on page 81 for detailed instructions.

Where possible, the recorder will copy your recordings at high-speed. Depending on the recording mode, the kind of disc loaded and various other factors, copying can be as fast as one minute per hour of video. See *Minimum copying times* on page 119 for more on copying times.

If you want to save disc space you can copy video at a lower recording quality (for example, an XP recording on the HDD copied to SP on a DVD). Copying in this way is always done in real-time.

When real-time copying from the HDD to a Video mode DVD-R/-RW or DVD+R/+RW, the chapter markers in the original material are not copied. Chapter markers are put into the copy at intervals, according to the Auto Chapter settings (see also Auto Chapter (Video) and Auto Chapter (DVD+R/+RW) on page 112).

#### **Restrictions on copying**

Commercial DVD-Video discs are protected using Copy Guard. These discs cannot be copied to the HDD.

Some video material is copy-once protected. This means that it can be recorded to HDD, but it can't then be freely copied again. If you want to transfer copy-once protected material from HDD to DVD, you'll need to a CPRM ver. 1.1 or higher VR mode DVD-RW, ver. 2.0 or 2.1 VR mode DVD-R, or CPRMcompatible DVD-RAM disc (see *CPRM* on page 34 for more on this). Only one instance of a copy-once protected title can be added to the Copy List, and after it's been copied, the title is erased from the HDD (it is therefore not possible to copy a locked title that is copy-once protected).

You can identify copy-once protected material during playback by displaying disc information on-screen. If the current title is copy-once protected, an exclamation mark (!) is shown.

### Copyright

Recording equipment should be used only for lawful copying and you are advised to check carefully what is lawful copying in the country in which you are making a copy. Copying of copyright material such as films or music is unlawful unless permitted by a legal exception or consented to by the rightowners.

# **One Touch Copy**

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#### \* See also Copyright above.

The One Touch Copy feature copies the currently playing or selected (in the Disc Navigator) HDD title to DVD, or DVD title to HDD. The whole title is copied, regardless of where in the title you start the copy.

HDD to DVD copies are made in the same recording mode. When copying DVD to HDD, the copy is made in whatever recording mode is currently set.

Make sure that a recordable DVD disc is loaded when trying to copy from the HDD.

#### If you're copying from DVD to 1 the HDD, select a recording mode.

Note that selecting a recording mode higher than the title playing will not result in a better quality recording.



2

#### Press during playback to copy the current title.

The front panel display indicates that the title is being copied.

- High-speed copying is used when copying from the HDD to DVD. Playback continues while copying.
- Real-time copying is used when copying from DVD to the HDD. Playback restarts from the beginning of the title.

### Canceling One Touch Copy

You can cancel a One Touch Copy once it's started.



#### Press and hold for more than a second.

Copying is canceled and the video already copied is erased.

 If you cancel a HDD to DVD-R/+R copy. the space available for recording does not return to the pre-copy figure.

#### Notes on copying using One Touch Copy

#### Copying to DVD

- Title name, chapter markers, as well as thumbnail picture markers for the Disc Navigator, are also copied. However, if you copy to a Video mode DVD-R/-RW or DVD+R/+RW, only the first 40 characters of a name are copied.
- The chapter markers in the copy may not be in exactly the same positions as the original when recording on to a Video mode DVD-R/-RW or DVD+R/+RW.
- You can't use the One Touch Copy function to copy a title if any part of the title is copy-once protected.
- A title that contains mixed aspect ratios can't be copied to a Video mode disc. Use a VR mode DVD-R/-RW or DVD-RAM disc for this type of material.
- Low resolution (**SEP** through **LP** modes<sup>1</sup>) widescreen material can't be copied to a Video mode disc. Use a VR mode DVD-R/-RW or DVD-RAM disc for this type of material.
- When HDD Recording Format is set to Video Mode Off. titles recorded in LP/ MN9 to MN15 modes cannot be highspeed copied to a Video mode disc. Please use a VR mode DVD-R/-RW or DVD-RAM.
- Recordings of dual mono/bilingual broadcasts cannot be high-speed copied to a Video mode DVD. Please use a VR mode DVD-R/-RW or DVD-RAM.
- Titles over 8 hours cannot be copied to single-layer DVD+R/+RW discs using One Touch Copy. Use DVD+R DL discs for titles over 8 hours.

🔗 Note 80

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1 In manual recording mode these equate to MN1 to MN15 (Video Mode Off) or MN1 to MN8 (Video Mode On).

 Titles recorded in MN1 to MN6, SEP, SLP or EP mode cannot be copied to DVD+R/ +RW using One Touch Copy.

#### **Copying to the HDD**

- The maximum title length for copying is 12 hours.
- Title name and chapter markers are also copied, except when copying from a finalized Video mode disc.
- Thumbnail picture markers and chapter markers for the Disc Navigator are copied, but their position in the copy may be slightly changed from the original.
- If some part of the title being copied is copy-protected, copying will start, but the copy-protected portions will not be copied.

## **Using Copy Lists**

\* See also Copyright on page 79.

At its simplest, a Copy List is just a list of HDD or DVD titles that you want to copy. When copying HDD titles to DVD, you can, however, edit the titles in your copy list, erasing chapters you don't need, or renaming titles, for example. Edits you make to titles in the Copy List do not affect the actual video content; only the 'virtual' content of the Copy List. So you can freely erase and modify anything in your Copy List safe in the knowledge that the actual content is not being altered.

### **Copying from HDD to DVD**

# Important

- Unless otherwise stated, the OSDs shown in this manual are for the Taiwan and Philippines model.
- The recorder can only store one Copy List at a time.

- The Copy List is erased if the Input Line System setting is changed (see Additional information about the TV system settings on page 116).
- Resetting the recorder to its factory settings (see *Resetting the recorder* on page 133) will erase the Copy List.
- 1 Load a recordable DVD.
  - It is possible to complete the following steps without having a recordable DVD loaded (or having an uninitialized DVD loaded); however, the steps are slightly different.
  - If you want to use a DVD-RW (VR mode) disc for the copy, make sure it is initialized before you start.

# 2 Select 'Copy' from the Home Menu.

# Select 'HDD $\rightarrow$ DVD'.

HOME

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If this is the first time to create a Copy List, skip to step **5** below.



4 If there is already a Copy List stored in the recorder, choose whether to 'Create New Copy List' or 'Continue Using Previous Copy List'.



- If you select **Continue Using Previous Copy List**, skip to step 10 below.
- Selecting Create New Copy List will erase any Copy List already stored in the recorder.

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5 Add titles to the Copy List (highlight a title and press ENTER to add).



Titles you've added to the Copy List are highlighted in pink.

There are some restrictions on titles that can be added to the Copy List if you are copying to a Video mode DVD or DVD+R/+RW:

- When adding titles that contain copyonce protected material, the copy-once parts will not be added.
- When adding titles that contain material of more than one aspect ratio (screen size), each part with a different aspect ratio will be added as a separate title if high-speed copying is possible.

Depending on the title<sup>1</sup>, high-speed copying may not be possible to a Video mode disc.

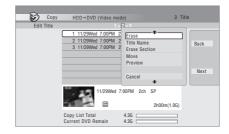
# 6 Press → to display the command menu panel.

	1 > 2 > 3	
	10 11/29 WED 11/29Wed 7:00P	M 2ch SP
	9 11/29 WED 11/29Wed 7:00P	M 2ch SP Bac
	8 11/29 WED 11/29Wed 7:00P	M 2ch SP
Recent first	7 11/29 WED 11/29Wed 7:00P	M 2ch SP
600	6 11/29 WED 11/29Wed 7:00P	M 2ch SP
9	5 11/29 WED 11/29Wed 7:00P	M 2ch SP
All Genres	4 11/29 WED 11/29Wed 7:00P	M 2ch SP
	3 11/29 WED 11/29Wed 7:00P	M 2ch SP
	11/29Wed 7:00PM 7:00PM 2h00m(	1.0G)

7 Select 'Next' to move on to the Title Edit screen.

		0.714
😥 Copy	HDD→DVD (Video mode)	3 Title
Edit Title	1 > 2 > 3	
1	1 11/29Wed 7:00PM 2ch	SP 🖃 î
	2 11/29Wed 7:00PM 2ch	
	3 11/29Wed 7:00PM 2ch	SP 🖃 Back
		Next
	11/29Wed 7:00Pt	A 2ch SP
		2h00m(1.0G)
	Copy List Total 4.3 Current DVD Remain 4.3	

8 To edit a title, highlight it using the ↑/↓ buttons, then press ENTER.



A menu of editing commands appears:

• **Erase** – Erase individual titles from the Copy List (see *Erase* on page 70).

#### 🖉 Note

- Widescreen titles recorded at low resolution (SEP through LP/MN1 to MN15 (Video Mode Off) or MN1 to MN8 (Video Mode On).
- LP/MN9 to MN15 recordings when HDD Recording Format is set to Video Mode Off.
- Dual mono/Bilingual recordings.
- Combined titles that were originally recorded using different recording modes.

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- Title Name Name or rename a title in the Copy List (see *Title Name* on page 70).
- Erase Section Erase part of a title (see *Erase Section* on page 72).
- **Move** Change the order of titles in the Copy List (see *Move* on page 76).
- **Preview** Check the content of a title in the Copy List.
- **Divide** Divide a title in the Copy List into two (see *Divide* on page 73).
- **Combine** Combine two titles in the Copy List into one (see *Combine* on page 76).
- Chapter Edit Edit chapters within a Copy List title (see *Chapter Edit* on page 74):
  - **Divide** Divide a chapter into two.
  - **Erase/Move** Erase a chapter/ Change the chapter order.
  - **Combine** Combine two chapters into one.
- Set Thumbnail Set the thumbnail frame for a title (see *Set Thumbnail* on page 72).
- **Recording Mode** Set the picture quality of the copy (see *Recording Mode* on page 85).
- Dual Mono Audio/Bilingual Set how dual mono/bilingual audio should be copied when copying from HDD to Video mode DVD (see *Dual Mono Audio/ Bilingual* on page 85).
- Cancel Exit the menu.

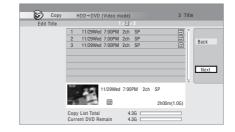
Repeat this step for as many titles you have that need editing.





#### Select 'Next' to proceed.

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There are several options available from the next screen:

- Select **Recording Mode** if you want to change the recording quality (see *Recording Mode* on page 85).<sup>1</sup>
- Select Input Disc Name if you want to change the disc name. Input a name of up to 64 characters for a VR mode disc or 40 characters for a Video mode disc or DVD+R/+RW. (The input method is similar to that of naming titles; see *Title Name* on page 70.)
- Select Finalize if you want to automatically finalize a Video mode DVD or DVD+R after copying.<sup>2</sup> Select a title menu style from the following screen.

# 11 Select 'Start Copy' to start copying.



#### 🖉 Note

1 Titles recorded in **MN1** to **MN6**, **SEP**, **SLP** or **EP** mode cannot be copied to DVD+R/+RW using high-speed copy. 2 If a timer recording is scheduled to start during copying, the disc will not be finalized.

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#### Copying from DVD to HDD

## Important

- The DVD to HDD Copy screen isn't accessible when a finalized Video mode disc or a DVD-Video is loaded. As long as the disc is not Copy Guard protected, you can still use the One Touch Copy function, however (See One Touch Copy on page 80).
- The recorder can only store one Copy List at a time.
- The Copy List will be erased if: - any of the titles on the DVD disc are erased or edited.
  - the disc tray is opened.
  - playback is switched between Play List and Original.

- the DVD disc is re-initialized or finalized.

- the recorder is reset to its factory settings (see Resetting the recorder on page 133).

• It may not be possible to copy from a DVD disc that was recorded on a different DVD recorder or a PC.



Select 'Copy' from the Home Menu.

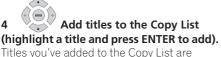


3

1

Select 'DVD/CD  $\rightarrow$  HDD'.

- Select a Copy List type. Selecting Create New Copy List will
- erase any Copy List already stored in the recorder.



highlighted in pink.



5

# Select 'Next' from the

command menu panel to proceed to the title edit screen.

# Select a title to edit.

A menu appears of Copy List editing commands:

- Erase Erase individual titles from the Copy List (see Erase on page 70).
- Move Change the order of titles in the Copy List (see Move on page 76).
- Preview Check the content of a title in the Copy List.
- Cancel Exit the menu.

Repeat this step for as many titles you have that need editing.

#### Select 'Next' from the

#### command menu panel to proceed to the copy options screen.

• Select Recording Mode if you want to change the recording quality (see Recording Mode on page 85).

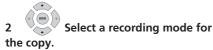
copving.

Select 'Start Copy' to start

#### **Recording Mode**



Select 'Recording Mode' from the command menu panel.



- **High-Speed Copy**<sup>1</sup> The Copy List is copied at the same recording quality as the original.
- XP, SP, LP, EP, SLP, SEP, MN<sup>2</sup> The Copy List is copied at the specified recording guality in real-time. (Note that if you copy at a higher quality setting than the original, the copy will not be better guality than the original.)

If you select **MN** above, you can also change the level setting (MN1 to MN32<sup>3</sup> or **LPCM**) from the Recording Quality box that appears.

• **Optimized**<sup>2,4</sup> – The recording guality is automatically adjusted so that the Copy List fits on to the space available on the disc. Copying is carried out in real-time.

When you change the recording mode setting, you can see how much disc space it will require. If this is more than is available, it shows up in red and you won't be able to start copying. In this case, either change the recording quality, or press RETURN to go back to the Copy List screen and erase one or more titles from the Copy List.

#### **Dual Mono Audio/Bilingual**

Select the title containing the audio you want to change.

Select 'Dual Mono Audio/ Bilingual' from the command menu panel.

Select a dual mono/bilingual audio option.

#### 🔗 Note

- 1 When copying to a Video mode DVD or DVD+R/+RW, the chapter markers in the copy may not be in exactly the same position as the original.
- 2 When the copy mode is set to something other than High-Speed Copy for copying to a Video mode DVD or DVD+R/+RW, the chapter markers of the original are not copied. Chapter markers are put into the copy at regular intervals, according to the Auto Chapter setting (see also Auto Chapter (Video) and Auto Chapter (DVD+R/+RW) on page 112).
- 3 When copying to a DVD+R/+RW, MN1 to MN3 and SEP modes are not available.
- 4 Optimized mode only available when copying to DVD.

### **Using disc backup**

\* See also Copyright on page 79.

This feature offers a simple way to make a backup copy of a finalized Video mode disc or DVD+R/+RW. The data is copied first to the hard disk drive<sup>1</sup>, then on to another recordable DVD disc.

## HOME

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# 1 Select 'Copy', then 'Disc backup' from the Home Menu.



Start new disc back-up	
Resume writing data	
Erase back-up data	

There are three backup options:

- Start new disc back-up Start making a backup of a disc.
- Resume writing data Record the backup data already on the HDD to a recordable DVD.
- Erase back-up data Erase the backup data on the HDD.

# 3 Load the disc you want to make a backup of.

You can only make backup copies of finalized Video mode discs, finalized DVD+R or DVD+RW discs (excluding DVD-R DL/DVD+R DL discs).

🗭 Disc Back-up
No disc. Please load a disc to be backed-up.
Start Cancel

Select 'Start'.		
🚱 Disc Back-up		
Read from disc and save to HDD. Start reading?		
Start Cancel		

4

- To see the progress of the backup, press **DISPLAY**.
- You can cancel the backup process by pressing ONE TOUCH COPY for more than one second.

# 5 When the data has been copied, take out the disc and load a blank\* recordable DVD.

\* If you're using a DVD-RW or DVD+RW, the disc doesn't have to be blank, although the previous contents of the disc will be erased in the backup process.

छिDisc Back-।	ıp
	it saved to Hard Disk Drive. t the disc and load a disc
	Start Cancel

You can use a DVD-R ver. 2.0 or 2.1 disc, or DVD-RW ver. 1.1 or ver. 1.2 disc for the backup.

- If you backup a DVD-R disc to DVD-RW, you cannot undo the finalization later.
- Actual recordable capacity of discs vary so there may be cases where the contents of the disc you're backing-up will not fit on to a particular blank disc. If this happens, please try another brand of disc.
- DVD-R/-RW discs can only be backed up to DVD-R/-RW discs; DVD+R/+RW discs can only be backed up to DVD+R/ +RW discs.

#### 🔗 Note

86

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1 It is not possible to play this material directly from the HDD.

# 6 Select 'Start' to start writing the backed-up data to the blank disc.

🗭 Disc Back-up		
Write back-up data from Hard Disk Drive. The disc contents will be overwritten. OK to start?		
Start Cancel		

- To see the progress of the backup, press **DISPLAY**.
- You can cancel the backup process by pressing ONE TOUCH COPY for more than one second. However, this will make the disc unusable (although if you are using a DVD-RW or DVD+RW disc you can re-initialize it in order to make it usable again—see *Initializing recordable* DVD discs on page 50.)
- 7 After the recorder has finished recording the backup disc, you can select whether to make another backup of the same data or exit.

🗭 Disc Back-up			
Disc back-up finished. To make another back-up copy, please load			
a recordable disc.			
Start Cancel			

 Select Start to make another backup copy or Cancel to finish. If you want to make another backup copy, return to step 6 above.

8 If you don't need to keep the backup data on the HDD, you can delete it now. Select Yes to delete the data from the HDD; select No to keep it (you can delete it later if you want to).

🔯 Disc Back-up
The backed-up data is still on the HDD.
Erasing it will increase the free space
available. OK to Erase?
Yes No

- If you decide to leave the backup data on the HDD, you can make backup copies to recordable DVD discs anytime from the Disc Back-up menu.
- 09

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# Chapter 10 Using the Jukebox

The Jukebox feature allows you to use the recorder's HDD to store and playback music from up to 999 of your CDs. You can also transfer WMA/MP3 files stored on CD-R/-RW/-ROM or a USB device. Once on the HDD, you can name albums, assign them a genre, and set tracks that you don't want to play to Jump.

# Copying music to the HDD

The first step is to copy some music to the HDD. CD audio is copied in real-time, while WMA and MP3 files are copied at high

speed. All tracks are copied from each CD<sup>1</sup> as an album.

WMA/MP3 album and track names are copied along with the audio. CD album and track names are not copied, but you can add these later (see *Editing Jukebox albums* on page 90).

Usually, the tracks are copied to the HDD in the order they appear on the CD. When copying CD audio, you can copy them in some other order using the program play mode. See *Program play* on page 60 for how to do this.

Note that once copied to the HDD, audio tracks cannot be copied to a recordable DVD disc.

# Important

- While copying CD audio, no other recorder operation is possible.
- When copying CD audio, scheduled timer recordings will not start until copying is complete.
- Copy protected CDs may not copy successfully.

1 Load the CD you want to copy to the HDD.

2 Select 'Copy' from the Home Menu.



#### Select 'DVD/CD $\rightarrow$ HDD'.

On pressing **ENTER** all tracks (or files) on the CD are copied to the HDD.

- You can also start copying by starting playback of the CD (including program play) and then pressing **ONE TOUCH COPY**.
- To cancel copying an audio CD, press and hold ONE TOUCH COPY for more than one second.
- To cancel copying a WMA/MP3 disc, press **ENTER**.
- If the CD loaded contains both CD audio tracks and WMA/MP3 files, the part currently selected will play.

🔗 Note

T The recorder can copy up to 999 CDs; a CD can contain up to 99 tracks. The recorded audio format is 256 kbps Dolby Digital.

## **Using the Jukebox**

# Copying files from a USB device to the HDD

You can copy WMA or MP3 files from a connected USB device, such as a USB drive, to the HDD.

1 Connect the USB device.



2 Select 'Jukebox' from the Home Menu.



USB Device'.





Select 'Yes' to confirm or 'No'

#### to cancel.

The selected folder on the USB device will be copied to the HDD.

• Up to 99 folders/999 files on the USB device are copyable/displayable.

# Playing music from the Jukebox

You can select albums or individual tracks from the Jukebox to play.<sup>1</sup>

# 1 Select 'Jukebox' from the Home Menu.

- 2 Select a Jukebox option.
- Listen to Music/Edit Listen to CDs that have been copied to the HDD.
- 🖉 Note

1 The digital audio output contains a copy-prohibit signal when albums are playing from the HDD.

- Listen to Music (WMA/MP3)/Edit Listen to WMA or MP3 files that have been stored on the HDD.
- Listen to Music from USB Device Listen to music from an external USB device.

#### + + +

3

# Select what you want to play.

The screen below shows CD albums stored on the HDD:

	Album name		
🕞 Jukebo	x	10Albums	
	3 Album1	ALL	
	4 Album2		_
By number	5 Album3	1 Erase	
000	6 Album4	2 Edit	
	-	3 🚽 Play Mod	е
All Genres	7 Album5	4	
	8 Album6	Genre Na	me
	9 Album7	6	
	10 Album8	<b>v</b> <sup>7</sup>	
HDD Remain 60h30m	Album1 The Planets/Mars-Venus-M iter-Saturn-Uranus-Nep Total 12 1.14.58	lercury-Jup Classical 1-10 0.03.58	•

Info for selected album — Playback status —

- If you select a whole album to play, all tracks that are not set to Jump will play.
- If you want to start playback from a selected track in an album, or play a track that is set to Jump, press → to enter the track list then select a track to play.
- Press 🖾 SUBTITLE or 🛱 ANGLE to change the page.

10

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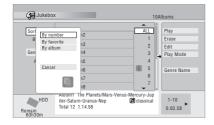
### **Using the Jukebox**

#### Changing the album view

1 From the album list, display the view options menu panel.



Select a view option.



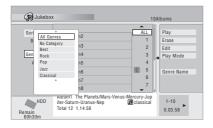
#### Sort order

**By number** – Albums are listed by the album number.

**By favorite** – Most often listened to music appears at the top of the list.

**By album** – Albums are listed alphabetically.

#### Genre



**All Genres** – All albums are displayed. *Genre* – Only albums in the selected genre are displayed.

### **Editing Jukebox albums**

A number of commands are available for editing and changing the playback behaviour of albums.

## 1 Select 'Jukebox' from the Home Menu.



(+ ( DITR) ) +) +

3

# 4 Select an edit function from the command menu panel.

Select what you want to edit.

- **Erase** Erase the selected track (if all tracks in an album are selected, the whole album is erased).
- Edit > Edit Title Enter a name of up to 64 characters for the album. See page *Title Name* on page 70 for how to enter names.
- Edit > Set Genre Set or change the genre for the album.
- Edit > Jump Set<sup>1</sup> Set a track to jump so that it doesn't play (choose this command again to cancel the Jump setting).
- **Play Mode** Change the playback order for albums and tracks.
- Genre Name Enter a name of up to 12 characters for a genre. See page *Title Name* on page 70 for how to enter names.

**90** En 🔗 Note

1 Tracks set to Jump will be skipped during consecutive track playback.

# Chapter 11 The PhotoViewer

From the PhotoViewer you can view JPEG photos and picture files stored on the HDD, recordable DVD or CD-R/-RW/-ROM, or on a

USB-equipped digital camera.<sup>1</sup> You can also import files and save them to the recorder's HDD or a DVD-R/-RW disc.

# Important

HOME

• Unless otherwise stated, the OSDs shown in this manual are for the Taiwan and Philippines model.

# Locating JPEG picture files

1 Select 'PhotoViewer' from the Home Menu.

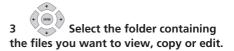
2 Select the location of the files you want to view or edit.

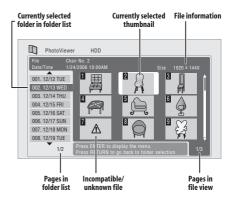


- View/Edit photos on the HDD View or edit photos already stored on the recorder's HDD.
- View photos on a CD/DVD View photos on a Fujicolor CD, CD-ROM, CD-R/-RW, or DVD-R/-RW.
- View photos on a USB device View photos on a digital camera (or other USB device) connected to the USB port.

#### 🔗 Note

 Copy photos from a USB device – Copy all photos on a connected USB device to the HDD.





 If you encounter a disc that will not play, check that the disc and file formats are compatible with this recorder (see JPEG file compatibility on page 11 and PCcreated disc compatibility on page 12).

> **91** En

<sup>1</sup> Up to 999 files or 99 folders are viewable, but if there are more files/folders than this on the disc or connected USB camera it is still possible to view them all using the Reload function (see *Reloading files from a disc or USB device* on page 92).

## Playing a slideshow

#### 1 list.

11

The first nine images from the selected

Select a folder from the folder

folder are displayed as thumbnails in the main part of the screen.

- The larger the file size, the longer it takes the recorder to load the file.
- To start the slideshow from the first file in the folder, skip to step 4 after pressing ENTER.

# 2

Select 'File Selection' from the

#### menu.

The first thumbnail image is highlighted.

- You can also select a folder, then press ➡ to get to the thumbnail view area.
- To get back to the folder list, press **RETURN** (or **←** when the leftmost thumbnail is highlighted).



### Select a thumbnail.

• Use the I◄◀ PREV and ►►I NEXT buttons to display the previous/next page of thumbnails.



Select 'Start Slideshow' from

#### the menu.

- You can also select a file or folder then press **PLAY** to start playing the slideshow.
- Use I PREV / >> NEXT to display the previous/next picture, or **II PAUSE** to pause the slideshow.

- Depending on the aspect ratio, some pictures may be displayed with black bars top and bottom, or left and right.
- Large picture files may take a few seconds to display. This is normal.
- During playback of the slideshow you can listen to WMA/MP3 files in the **Slideshow** genre (see *Editing Jukebox* albums on page 90).

STOP

6

#### 5 Press to return to the thumbnail view area.

You can also use the **RETURN** button.

#### Press to return to the folder view area.

- With the leftmost thumbnail highlighted, you can use the 🖛 button.
- To exit the PhotoViewer, press HOME MENU.

#### Reloading files from a disc or USB device

If you have a disc with more than 1000 files and/or 100 folders, you can still view all the images using the reload function.

## Navigate to the last entry in the folder list ('Read next: ...').

#### (ENTER) Load the next batch of up to 999 2 files/99 folders from the disc or connected USB device.

It will take a moment (at most a few minutes) to load in the images.<sup>1</sup>

🖉 Note

You can press HOME MENU to exit the PhotoViewer screen while the recorder is reloading images. (If you enter the PhotoViewer again, it will resume reloading if from a CD or DVD.)

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#### **Zooming an image**

During a slideshow you can zoom in to enlarge a portion of the picture by a factor of two or four. You can also move the area of the picture displayed.

# 1 Press during the slideshow to zoom the picture.

Repeated presses cycle between zoom off, 2x zoom and 4x zoom. The zoom factor is displayed on-screen.



# Use to move the zoomed

area.

#### **Rotating an image**

You can rotate the displayed picture during a slideshow so you can always view pictures the right way up, whichever way they were taken.

# • Press during the slideshow to rotate the displayed picture clockwise by 90°.

Press repeatedly to continue rotating the picture in increments of  $90^{\circ}$ .

## Importing files to the HDD

You can import files and save them on to the HDD<sup>1</sup> from a CD, DVD or a connected USB camera. Once on the HDD you can edit and organize your pictures and print them out if you've connected a PictBridge-compatible printer.



### Select the location of folders/

To import a whole folder, press **ENTER** here and skip to step **4** below.

• To import multiple folders, use the Multi-Mode; see *Selecting multiple files or folders* on page 94. 11

2 Select 'File Selection' from the menu.

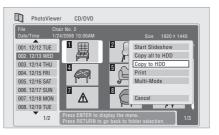
# 3 Select a file to import, then press ENTER.

• To import multiple folders, use the Multi-Mode; see *Selecting multiple files or folders* on page 94.



## Select 'Copy to HDD' from the





5

# 5 Select 'Yes' to confirm and copy the folder(s)/file(s), or 'No' to cancel.

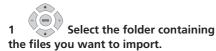
- The files will be copied to the HDD with the same folder structure as the original.
- Importing to the HDD will not work if there is insufficient space on the HDD, or if there are already the maximum number of files and/or folders on the HDD (999 folders/999 files per folder).

#### 🖉 Note

1 For files you want to keep permanently, we recommend backing up to DVD-R/-RW.

### Selecting multiple files or folders

The Multi-Mode allows you to select multiple folders/files at once for importing or editing.





# Select 'Multi-Mode' from the

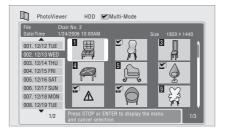


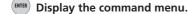


#### 3 To add a file/folder to the list, select it, then choose 'Select' from the menu.

A checkbox mark  $(\mathbf{Z})$  is shown by the item you selected.

- · You can also select a file or folder and press **STOP** to add it to the list.
- To remove a file/folder from the list. select Cancel Selection from the menu.







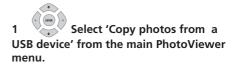
Select the command you want 5 to apply to all the selected items.

## Importing files from a USB device

Use this feature to copy all the files on a connected USB device to this recorder's HDD.



 After backing up the pictures on your USB device to HDD, we recommend verifying that they have been recorded properly before deleting anything from the camera.



Select 'Yes' to confirm or 'No'

to cancel. While the files are being imported, any timer programs set to start will not begin, and no other operation is

2

possible.

# Copying selected files to a DVD-R/-RW

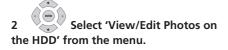
This feature allows you just to copy some of the files stored on HDD to a DVD.

A slideshow of the files is also recorded on the disc as a Video mode title, making it possible to view the photos on other DVD players/recorders that may not be compatible with JPEG file playback. Note however that you may need to finalize the disc before it will play on another DVD player (copying selected files doesn't automatically finalize the disc).

# Important

- A maximum of 99 titles can be recorded.
- Slideshows can contain up to 99 files. If there are more files than this in the slideshow, multiple slideshows are created on the disc.
- If you erase a slideshow title from a DVD the slideshow will become unplayable but the free space will not increase.

# 1 Load a blank (or unfinalized Video mode) DVD-R or DVD-RW disc.





#### you want to copy.

3

- Copying a folder will copy all the files contained in it.
- To copy multiple folders, use the Multi-Mode; see *Selecting multiple files or folders* on page 94.



# Select 'Copy to DVD' from the

11

# 5 Select 'Yes' to confirm or 'No' to cancel.

- Folder names on the disc will be *number* **PIONR**. File names will be **PHOT** *number*.
- Note that during copying, any timer programs set to start will not begin, and no other operation is possible.
- While 'Cancel' is displayed, you can press ENTER to cancel.

## **Editing files on the HDD**

There are a number of commands you can use to edit and organize your pictures stored on the HDD.

#### **Creating a new folder**

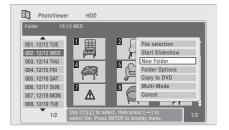
# 1 From the folder list, display the menu.

#### \* •

2

#### Select 'New Folder'.

The folder appears at the bottom of the folder list with the name **F**\_number.



• There can be up to 999 folders on the HDD.

#### Erasing a file or folder



1

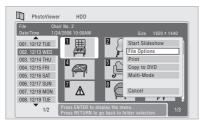
11

# Select the file(s) or folder(s)

#### you want to erase.

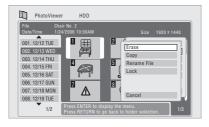
- To erase multiple folders, use the Multi-Mode; see Selecting multiple files or folders on page 94.
- Erasing a folder will erase all the files contained in it. Please be careful!
- You can't erase files that have been locked
- · Folders containing locked files can't be erased. Unlocked files in the folder. however, will be erased.







Select 'Erase' or 'Erase Folder'.



Select 'Yes' to confirm, or 'No' to cancel.

 You can also erase a file or folder by pressing **CLEAR** when the file or folder is highlighted. Press ENTER to confirm.

#### **Copying files**



Select the file(s) or folder(s)

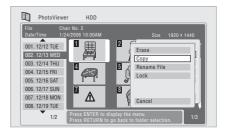
#### you want to copy.

- Copying a folder will copy all the files contained in it.
- To copy multiple folders, use the Multi-Mode; see Selecting multiple files or folders on page 94.

#### Select 'File Options' or 'Folder 2 Options'.



# Select 'Copy' or 'Copy Folder



Select a folder to copy the 4 folder(s)/file(s) to.



 Copying to the HDD will not work if there is insufficient space on the HDD; if there are already the maximum number of files and/or folders on the HDD.

4

#### Naming files and folders

# 1 Select the file or folder you want to rename.

You can't rename files that have been locked.

# 2 Select 'File Options' or 'Folder Options'.

# 3 Select 'Rename File' or 'Rename Folder'.



#### 4 Enter a new name for the file/folder.

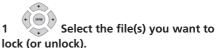
Filenames or Foldernames can be up to 64 characters long.

See Using the remote key shortcuts to input a name on page 71 for how to enter a name.

#### Locking/Unlocking files

Locking files will protect them from accidental erasure and prevent them from being renamed.

Use the same process to both lock and unlock files. Locked files are displayed in the PhotoViewer with a padlock icon.

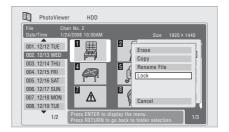


• To lock/unlock multiple folders, use the Multi-Mode; see *Selecting multiple files* or folders on page 94.

# 2 Select 'File Options' or 'Folder Options'.

3 Contents'

#### Select 'Lock' or 'Lock Folder '.



Locked files are shown with a padlock icon next to them.

## **Printing files**

11

Connecting a PictBridge-compatible printer to the USB port will enable you to print out picture files<sup>1</sup> stored on the HDD, or directly from a digital camera.

Make sure that the printer (and your digital camera if you are using that as a source) is connected to the recorder before starting.

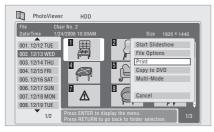


Select the file(s) you want to

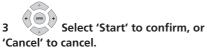
#### print.

• To print multiple folders, use the Multi-Mode; see *Selecting multiple files or folders* on page 94.





It takes a moment for the recorder to communicate with the printer. During this time you can press **ENTER** to cancel the print.



• Once printing has started, you can cancel by pressing **ENTER**.

# 🛟 Тір

- Paper size and layout can be set; the options available depend on your printer—check the printer manual for details.
- If the message *Searching for printer. Please wait a moment* continues to be displayed, try disconnecting then reconnecting the USB cable.
- This recorder may not work correctly with all printers.

# Chapter 12 The Disc Setup menu

From the Disc Setup menu you can name discs, lock the contents to prevent accidental recording and erasure, initialize and finalize discs. The Disc Setup menu is accessed from the Home menu:

# **Basic settings**

### **Input Disc Name**

#### DVD (VR) DVD (Video) DVD+R DVD+RW DVD-RAM

When you initialize a disc for recording, the recorder automatically assigns a name for the disc ranging from **DISC 1** to **DISC 99**. You can use the Input Disc Name function to change the default disc name to something more descriptive. This name appears when you load the disc and when you display disc information on-screen.



# 1 Select 'Disc Setup' from the Home Menu.







#### Input a name for the disc.

The disc name can be up to 64 characters long for a VR mode disc, or 40 for a Video mode discs and DVD+R/+RW.

• See *Title Name* on page 70 for more on navigating the input screen.

### Lock Disc

#### DVD (VR) DVD-RAM

• Default setting: Off

Locking the disc will prevent accidental recording, editing or erasing of the disc.

# Important

• A locked disc can still be initialized (which will completely erase the disc).



# 1 Select 'Disc Setup' from the Home Menu.



🤪 Disc Setup			
Basic	Input Disc Name	On	
Initialize	Lock Disc	□0ff	
Finalize			
Optimize HDD			

Set to **On** to prevent accidental recording, editing or erasing of the disc loaded. If you need to unlock the disc to make edits, select **Off**. 12

### **Initialize settings**

#### DVD-R DVD-RW DVD+RW DVD-RAM

You can initialize a recordable DVD-R/-RW disc for either VR mode or Video mode recording.

The first time you load a new DVD-RW disc, it will be automatically initialized for recording according to the DVD-RW Auto Init. setting in the Initial Setup menu (see page 112).

New DVD-R discs are ready for Video mode recording when you load them, but it is also possible to initialize them for VR mode recording.<sup>1</sup>

DVD+RW and DVD-RAM discs can also be initialized as a way of erasing the entire disc. When initializing a DVD-RAM disc, select VR mode.

See *Initializing recordable DVD discs* on page 50 for detailed instructions.

## **Finalize settings**

#### Finalize

#### DVD-R DVD-RW DVD+R DVD+RW

Finalizing 'fixes' the recordings in place so that the disc can be played on a regular DVD player or computer equipped with a suitable DVD-ROM drive.

It is also possible to finalize DVD+RW discs. This is only necessary if you want to a player to display a title menu for the disc.

See *Playing your recordings on other DVD players* on page 48 for detailed instructions.

#### **Undo Finalize**

#### DVD-RW

You can undo the finalization on DVD-RW discs recorded on this recorder in Video mode. You need to do this if you want to record more material or edit material already on the disc.

You can also undo the finalization of VR mode discs which have been finalized on other DVD recorders. If when you load a disc the message **This disc cannot be recorded. Undo the finalization** is displayed, use this command to be able to record on the disc using this recorder.

# 1 Select 'Disc Setup' from the Home Menu.



#### 🔗 Note

100 En Once initialized for VR mode recording it is not possible to re-initialize the disc for Video mode recording. Also, once recorded in Video mode, the disc cannot be re-initialized for VR mode recording.

## The Disc Setup menu

## **Optimize HDD**

#### HDD

As you record, erase and edit recordings, the HDD file system gradually becomes fragmented. Periodically, the HDD will need optimizing to 'clean up' all the fragmented files.

When the HDD needs optimizing the recorder will automatically display a message recommending optimization.



- Optimizing the HDD can take as long as eight hours. During optimization, playback and recording are not possible.
- Canceling optimization mid-way does not undo the optimization already done, so the HDD will be partly optimized.



1 Select 'Disc Setup' from the Home Menu.



Select 'Optimize HDD' then



A progress bar indicates how long there is left to go.

## **Initialize HDD**

#### HDD

When your DVD recorder is working without a problem this option is not visible in the Disc Setup menu. However, if the HDD file system becomes corrupted for some reason, you can initialize the HDD to fix the problem. Note that initializing the HDD will erase all the data on it.







# Chapter 13 The Video Adjust menu

Using the Video Adjust menu you can set up the picture quality for the built-in tuner and external inputs, for disc playback, and for recording.

# Setting the picture quality for TV and external inputs

Picture Creation lets you choose a set of picture quality settings for the built-in TV tuner and for each external input. There are several preset settings that suit various sources, or you can create up to three of your own sets.

# Important

• Unless otherwise stated, the OSDs shown in this manual are for the Taiwan and Philippines model.

### **Choosing a preset**



2

1 With the recorder stopped, press to display the Home Menu.

# Select 'Video Adjust'.

Select the DV input by selecting **DV** then **DV Video Setting** from the Home Menu.



_		7ch
•	Tuner	•

- Use the **INPUT SELECT** button to switch between the built-in TV tuner and the external inputs (not possible if you selected **DV Video Setting** in step 2 (above)).
- Use the Idea PREV / ►►I NEXT buttons to change the channel of the built-in TV tuner.

There are six presets available:

- **Tuner** suitable for general TV broadcasts
- VCR suitable for video cassettes
- DTV/LDP suitable for digital broadcasts and Laserdiscs
- Memory1 user preset 1
- Memory2 user preset 2
- Memory3 user preset 3

You can press **DISPLAY** to see the individual settings for the current preset (**Tuner**, **VCR** or **DTV/LDP**).

## The Video Adjust menu

#### Creating your own set

There are three user presets in which you can save your own set of picture quality settings.

# 1 Follow Choosing a preset above and select one of the user presets (Memory 1, 2 or 3).



## 3 adjust

# Select the setting you want to

Memory1	7
	<b>A</b>
Prog. Motion	Motion HIII
PureCinma	Auto
3-D Y/C	Motion   Still
YNR	Off Hit Max
CNR	Off Hit Max
White AGC	Off
White Level	Min Max
	▼

You can adjust the following settings:

- **Prog. Motion** Adjusts the motion and still picture quality when video output is set to progressive.
- **PureCinema** This setting optimizes the picture for film material when the video output is set to progressive. Usually set to **Auto**, but try switching to **Off** if the picture appears unnatural.
- 3-D Y/C Adjusts the brightness / colour separation (NTSC video input only).
- 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.
- White AGC Turn on for automatic white level adjustment.<sup>1</sup>
- White Level Adjusts the intensity of white.
- Black Level Adjusts the intensity of black.
- Black Setup Corrects the standard reference black level (NTSC video input only).
- Hue Adjusts overall balance between red and green.
- **Chroma Level** Adjusts how rich the colors appear.

# 4 Adjust the currently selected setting.



5

#### Press to exit.

You can now use the preset for any other input or the built-in TV tuner.

# 🛟 тір

 To see more of the picture as you adjust different settings, press ENTER after selecting the setting you want to adjust.



1 When White AGC is On, the White Level setting can't be adjusted.

# Setting the picture quality for disc playback

This setting determines how the picture will look when playing discs.

#### **Choosing a preset**



1 With a disc playing (or paused), press to display the Home Menu.



There are six presets available:

- **TV** suitable for LCD and cathode-ray tube TVs
- **PDP** suitable for plasma display screens
- **Professional** suitable for professional monitors
- Memory1 user preset 1
- Memory2 user preset 2
- Memory3 user preset 3

You can press **DISPLAY** to see the individual settings for the current preset (**TV**, **PDP** or **Professional**).

#### **Creating your own set**

There are three user presets in which you can save your own set of picture quality settings for disc playback.

1 Follow Choosing a preset above and select one of the user presets (Memory 1, 2 or 3).

2 Move the cursor down and select 'Detailed Settings'.

	Detailed Settings	
_		-

# 3 Select the picture quality setting you want to adjust.

🌄 Memory1	
Dres Motion	Motion HIII
Prog. Motion	Auto1
Subtitle Adjust	
YNB	Off H+++H+++ Max
CNR	Off [++++] Max
BNR	Off  ++++  Max
MNR	Min Max
	▼

You can adjust the following settings:

- **Prog. Motion** Adjusts the motion and still picture quality when video output is set to progressive. (Prog. Motion is ineffective when PureCinema is On.)
- PureCinema This setting optimizes the picture for film material when the video output is set to progressive. Usually set to Auto 1 but try switching to Auto 2, On or Off if the picture appears unnatural.
- Subtitle Adjust When the video output is set to progressive scan, it's possible that the subtitles in some movies will disappear unnaturally. In this case select the **On** setting (only possible when connected using HDMI).
- **YNR** Adjusts the amount of noise reduction (NR) applied to the Y (brightness) component.

13

## The Video Adjust menu

- CNR Adjusts the amount of noise reduction (NR) applied to the C (colour) component (only possible when connected using HDMI).
- **BNR** Adjusts the amount of noise reduction (NR) applied to the block noise (artefacts visible in areas of flat color, caused by MPEG compression).
- MNR Adjusts the amount of noise reduction (NR) applied to the mosquito noise (artefacts visible around the edges of an image, caused by MPEG compression).
- Sharpness Adjusts the sharpness of the high-frequency (detailed) elements in the picture.
- **Detail** Adjusts how sharp edges appear.
- White Level Adjusts the intensity of white.
- Black Level Adjusts the intensity of black.
- Black Setup Corrects the standard reference black level (NTSC video playback on the Interlace video output setting only). (Black Setup is ineffective for HDMI output.)
- Gamma Correction Adjusts the brightness of darker images.
- Hue Adjusts overall balance between red and green.
- **Chroma Level** Adjusts how rich the colours appear.

# 4 Use the ←/→ buttons to adjust the currently selected picture quality setting.

5 When you have all the settings as you want them, press HOME MENU to exit.

# 🖨 Тір

- To see more of the picture as you adjust different settings, press ENTER after selecting the setting you want to adjust.
- YNR and Detail are ineffective for analog and component video when the Video Priority Mode is set to HDMI. Set to Component to make effective for both analog and HDMI video. See page 115.

13

# Chapter 14 The Initial Setup menu

# **Using the Initial Setup menu**

The Initial Setup menu is where you can set various recorder options for sound, picture, language and so on.

Some settings can only be changed when the recorder is stopped. During playback and recording these settings are grayed out in the Initial Setup menu.

Except for the Setup Navigator, menu screens are exited automatically after 20 minutes of inactivity.

#### • Press HOME MENU and select 'Initial Setup'.

In the table below, the default option is marked with a  $\bullet$ .

Setting	Options	Explanation
Basic		
Clock Setting	Auto	Set the channel that broadcasts a clock signal and the clock will be set automatically.
	Manual •	If there is no channel that broadcasts a clock signal in your area, you can set the time and date manually.
	Display	Set preferences for time and date display format.
The clock must be set in	order to use timer rec	cording.
Input Line System	525 System	Use for NTSC or PAL-60 recording from an external input.
	625 System	Use for standard PAL or SECAM recording.
		is <b>525 System</b> . Other: Default setting is <b>625 System</b> . 116 for more information on this setting.
<b>Power Save</b> (except Taiwan and	On	No antenna input signals are passed through to the outputs when the recorder is in standby.
Philippines model)	Off •	When the recorder is in standby, all signals arriving at the antenna inputs are passed along to the outputs.
HELP Setting	On •	Switches on the automatic Help screens for GUI displays.
	Off	Switches off the automatic Help screens for GUI displays. (Press <b>HELP</b> on the remote to manually display the Help screen.)
Setup Navigator	Start	Select to start the Setup Navigator. See also <i>Switch-ing on and setting up</i> on page 28.

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# The Initial Setup menu

Setting	Options	Explanation
Tuner		
Auto Channel Setting (Taiwan and Philippines model)	Antenna •	Select if you receive channels from an antenna. It takes a few moments for the auto tuning to complete.
	Cable	Select if you receive channels via cable. It takes a few moments for the auto tuning to complete.
Auto Channel Setting (Other)	Next Screen	Proceed to the next screen, select your country, then wait for automatic tuning to complete. The channel mapping screen should appear when the recorder is set up. Press <b>ENTER</b> to exit this screen.
Manual CH Setting	Next Screen	<ul> <li>Proceed to the next screen if you need to adjust any of the settings made by auto tuning. Select your country, then proceed to the manual channel setting screen:</li> <li>Change channel presets using the I◄◄ PREV /</li> <li>►I NEXT buttons.</li> <li>To skip the displayed channel (because there is no station assigned to that channel), change the Skip setting to On.</li> <li>Set the CH System setting to match the channel system of your country or region (<i>except Taiwan and Philippines model</i>).</li> <li>Set the Channel setting to the channel you want to assign to the current channel preset (<i>except Taiwan and Philippines model</i>).</li> <li>To manually fine tune the channel, change the AFT setting to Off then adjust the Level setting.</li> <li>Set the Sound System setting to match the sound system of your region (<i>except Taiwan and Philippines model</i>).</li> <li>The Name field allows you to input a name of up to five characters for the current channel preset (<i>except Taiwan and Philippines model</i>).</li> </ul>
<b>Channel Swapping</b> (except Taiwan and Philippines model)	Next Screen	Proceed to the next screen to swap channel assignments of different presets so that you can group together presets that naturally go together. Select two presets to swap then press <b>ENTER</b> .
G-Code CH Setting	Next Screen	Proceed to the next screen to assign channel numbers to the guide channels as necessary. Look in your TV guide to see which channel numbers should be assigned to which guide channels. Press <b>ENTER</b> when your done to leave this screen.

Setting	Options	Explanation		
Video In/Out Settings				
Input Colour System	Next Screen	Proceed to the next screen to set the input colour system for the external input and the built-in TV tuner. Use the <b>CH +/–</b> buttons to change the preset. On the default <b>Auto</b> setting the recorder can gener- ally correctly detect whether the input signal is PAL, SECAM, 3.58 NTSC or PAL-60, but in some cases you may have to set it manually if the picture is displayed incorrectly.		
See also About the in	nput color system on pag	e 117 for more information on this setting.		
Component Vide	o Interlace •	Select if your monitor/TV is not compatible with pro-		

Out	intenace •	gressive-scan video.
	Progressive	Select if your monitor/TV is progressive-scan compat- ible. Check the operating instructions that came with your monitor/TV if you're not sure.

If your TV is incompatible with progressive scan video and you select **Progressive**, you will not be able to see any picture at all. In this case, press  $\blacktriangleright$  (**PLAY**) while holding down the  $\blacksquare$  (**STOP**) button on the front panel to switch to **Interlace** (this also switches Screen Resolution on page 114 to the default setting). When an HDMI device is connected and Video Priority Mode is set to **HDMI**, the Component Video Out setting is automatically set to **Interlace**.

NTSC on PAL TV	On	NTSC discs will play correctly on PAL-only TVs.
	Off •	Use if your TV is already NTSC-compatible.

Many recent PAL TVs are compatible with NTSC input and so this setting can be switched off. Check the operating instructions that came with your TV. See also About NTSC on PAL TV on page 117 for related information.

Audio In		
<b>NICAM Select</b> (except Taiwan and Philippines model)	NICAM •	Record the NICAM audio in a NICAM broadcast.
	Regular Audio	Record the non-NICAM audio in a NICAM broadcast. (You can still switch the audio to record using the
		D AUDIO button before recording.)
<b>Tuner Level</b> (except Taiwan and Philippines model)	Normal •	Standard setting.
	Compression	Use if the audio level from the built-in tuner is excessive, causing distortion.
External Audio	Stereo •	Select if the audio from the currently selected exter- nal input is standard stereo.
	Dual Mono/ Bilingual	Select if each channel carries a separate soundtrack.

When the external audio is from the DV input, an audio subcode channel within the DV audio tells the recorder whether the audio is stereo or dual mono/bilingual. This has priority over the setting you make here.

## The Initial Setup menu

Setting	Options	Explanation
<b>Dual Mono</b> <b>Recording</b> (Taiwan and Philippines model)	L•	Select to record the left channel of an external dual mono source when recording to DVD in Video mode,to HDD with HDD Recording Format set to Video Mode On, or in <b>LPCM</b> mode.
	R	As above, but for right channel recording.

When recording dual mono audio to DVD in VR mode (except in **LPCM** mode), or to HDD with HDD Recording Format set to Video Mode Off (except in **LPCM** mode), both audio channels are recorded and you can switch to the one you want on playback.

Bilingual Recording (Other)	A/L •	Record the left (A) channel of a bilingual source when recording to HDD with HDD Recording Format set to Video Mode On, to DVD in Video mode or in <b>LPCM</b> mode, from an external source.
	B/R	As above, but for right (B) channel recording.

When recording bilingual audio to DVD in VR mode (except in LPCM mode), or to HDD with HDD Recording Format set to Video Mode Off (except in LPCM mode), both audio channels are recorded and you can switch to the one you want on playback.

DV Input	Stereo 1 •	Select to use the 'live' audio track (recorded during the video shoot) from a camcorder that supports two stereo audio tracks.
	Stereo 2	Select to use the overdubbed audio track from a camcorder that supports two stereo audio tracks.
	Міх	Select one of the three settings to use a mix of the two stereo audio tracks.
Audio Out		
Dolby Digital Out	Dolby Digital •	Output a Dolby Digital signal when a Dolby Digital source is being played.
	Dolby Digital → PCM	Convert Dolby Digital sources to Linear PCM output. Use if your connected equipment doesn't have a Dolby Digital decoder.
DTS Out	On •	Output a DTS signal when a DTS source is being played.
	Off	Switch off the digital output when a DTS source is being played. Use when your connected equipment doesn't have a DTS decoder. In this case, use the analog audio outputs.
96 kHz PCM Out	96 kHz→48 kHz •	Convert 96 kHz digital audio sources to 48 kHz out- put. Use if your connected equipment doesn't sup- port 96 kHz sampling rate.
	96 kHz	Output 96 kHz digital audio when a 96 kHz source is being played.

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Setting	Options	Explanation
MPEG Out	MPEG	Output an MPEG audio signal when a source using MPEG audio is being played.
	$MPEG \to PCM \bullet$	Convert sources with MPEG audio to Linear PCM out- put. Use if your connected equipment doesn't have an MPEG audio decoder.
Audio DRC	On	Switches on Audio DRC (Dynamic Range Control). Use when listening to Dolby Digital material at low volume.
	Off •	Switches off Audio DRC.

Audio DRC is not effective when listening via the digital output when the Dolby Digital Out setting is set to **Dolby** Digital.

Language		
OSD Language	中文 • (Taiwan and Philip- pines model)	Sets the language of the on-screen displays to Chinese.
	English • (Other)	Sets the language of the on-screen displays to English.
	available languages	Choose from the languages displayed for the on- screen displays.
Audio Language	中文 • (Taiwan and Philip- pines model)	Sets the default audio language for DVD-Video play- back to Chinese.
	English • (Other)	Sets the default audio language for DVD-Video play- back to English.
	available languages	Choose from the languages displayed to set the default audio language for DVD-Video playback.
	Other	Select to set the default audio language to some- thing other than the ones listed. See <i>Selecting other</i> <i>languages for language options</i> on page 118.

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

## **The Initial Setup menu**

Setting	Options	Explanation
Subtitle Language	中文 ● (Taiwan and Philip- pines model)	Sets the default subtitle language for DVD-Video playback to Chinese.
	English • (Other)	Sets the default subtitle language for DVD-Video playback to English.
	available languages	Choose from the languages displayed to set the default subtitle language for DVD-Video playback.
	Other	Select to set the default subtitle language to some- thing other than the ones listed. See <i>Selecting other</i> <i>languages for language options</i> on page 118.

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

Auto Language	On •	<ul> <li>On this setting:</li> <li>DVD-Video discs whose main audio track is in your default language will play using that language, without subtitles.</li> <li>Discs whose main audio track is not in your default language but that have a subtitle track in your default language will play the original audio track with subtitles.</li> </ul>
	Off	Select to play DVD-Video discs according to your audio and subtitle language preferences.

For Auto Language to be effective, the Audio Language and Subtitle Language options must be set to the same language.

DVD Menu Language	w/Subtitle Language •	Sets the language of DVD-Video menus to the same as that set for the subtitle language.
	English	Sets the language of DVD-Video menus to English.
	available languages	Choose from the displayed languages to set the default language for DVD-Video menus.
	Other	Select to set the DVD menu language to something other than the ones listed. See <i>Selecting other languages for language options</i> on page 118.

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

Select to switch off subtitle display.
Select to switch on subtitle display.
itle Select to display special additional assistive subti- tles, where available.
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Setting	Options	Explanation
Recording		
Manual Recording	On (go to setup)	All the standard recording modes, plus <b>MN1</b> to <b>MN32</b> and <b>LPCM</b> modes can be set.
	Off •	Just the standard recording modes ( <b>XP</b> , <b>SP</b> , <b>LP</b> , <b>EP</b> , <b>SLP</b> and <b>SEP</b> ) can be set.
See also Manual recordin	ng modes on page 120 fo	r detailed information on manual recording levels.
Optimized Rec	On	The recording quality of timer recordings is automatically adjusted to fit on to the selected media if it will not fit at the selected quality setting. If the recording will not fit even at <b>MN1</b> ( <b>MN4</b> for DVD+R/+RW), then the recording will start at <b>MN1</b> and stop when all the available space is used up.
	Off •	When a timer recording is set that won't fit on to the selected media, the recording starts but is cut off when no more recording is possible.
Optimized Rec will only c	compensate for the next s	scheduled timer recording if more than one is set.
Set Thumbnail	0 seconds •	Sets the default thumbnail picture in the Disc Navi- gator to the first frame of the title.
	30 seconds	Sets the default thumbnail picture to 30 seconds into the title.
	3 minutes	Sets the default thumbnail picture to 3 minutes into the title.
Auto Chapter	No Separation	Automatic chapter marking is switched off.
(Video)	10 minutes •	When recording in Video mode, chapter markers are inserted every 10 minutes.
	15 minutes	Chapter markers are inserted every 15 minutes.
This settings applies to r	ecording or real-time cop	ying to Video mode DVD-R/-RW discs.
Auto Chapter (DVD+R/+RW)	No Separation	Automatic chapter marking is switched off.
	10 minutes •	When recording in DVD+R/+RW, chapter markers are inserted every 10 minutes.
	15 minutes	Chapter markers are inserted every 15 minutes.
DVD-RW Auto Init.	VR Mode •	Blank DVD-RW discs are initialized for VR mode recording when loaded into the recorder for the first time.
	Video Mode	Blank DVD-RW discs are initialized for Video mode recording.

## The Initial Setup menu

Setting	Options	Explanation
HDD Recording Format	Video Mode Off	Recordings made to the HDD are made in VR mode. Use this setting if you don't need to transfer the recording later to a Video mode DVD.
	Video Mode On •	Recordings made to the HDD are compatible with Video mode recordings. This setting is convenient if you want to transfer the recording to a Video mode DVD as high-speed copy can be used.

Taiwan and Philippines model: When Video Mode On is used, you must select the audio channel you want to
record when recording a broadcast with a SAP channel. On the Video Mode Off setting, both channels will be
recorded and you can switch between them on playback. See also Dual Mono Recording on page 109
Other: When Video Mode On is used, you must select the audio channel you want to record when recording a
bilingual broadcast. On the Video Mode Off setting, both channels will be recorded and you can switch between

them on playback. See also Bilingual Recording on page 109.

TV Screen Size	4:3 (Letter Box)	Select if you have a standard 4:3 TV and prefer the let- ter box format presentation for widescreen material.
	4:3 (Pan & Scan)	Select if you have a standard 4:3 TV and prefer the pan and scan presentation for widescreen material.
	16:9 •	Select if you have a widescreen 16:9 TV. Your TV set- tings determine how 4:3 material will look.

Selecting 4:3 (Letter Box) or 4:3 (Pan & Scan) does not guarantee that all video material will be presented in that format as some discs override this setting.

Still Picture	Field	Produces a stable, generally shake-free image.
	Frame	Produces sharp image, but may be prone to shake.
	Auto •	Generates a generally less sharp but more stable still image.
Seamless Playback	On	Playback is smooth, but with a trade-off against the accuracy of the edit points.
	Off •	You may notice momentary interruption at edited points during playback of a VR mode Play List.

This setting applies to HDD, DVD-R/-RW (VR) and DVD-RAM playback.

Setting	Options	Explanation
Parental Lock	Set Password	In order to change the parental lock level or change the country/area code, set the password using this option. From the following screen, enter a four-digit number that will be your password.
	Change Password	In order to change the password, first enter your existing password and then a new one from the fol- lowing screen.
	Change Level	From the following screen, first enter your password and then set a parental lock level.
	Country/Area Code	From the following screen, first enter your password and then set a country/area code. See <i>Country/Area</i> <i>code list</i> on page 130.

Only certain discs have parental lock and country/area code features. Check the disc packaging to see what features the disc has. If you forget your password you can reset it by resetting the recorder to its factory settings. See Resetting the recorder on page 133.

Angle Indicator	On •	A camera icon appears on-screen during multi-angle scenes on a DVD-Video disc.
	Off	Nothing is indicated on-screen when a multi-angle scene is showing.

#### HDMI Output (only available when an HDMI device is connected)

		· · · · · · · · · · · · · · · · · · ·
Screen Resolution 1920 x 1080i		Constant 1920 x 1080i output.
	1280 x 720p	Constant 1280 x 720p output.
	720 x 576p	Constant 720 x 576p output (for use with the 625 input line system).
	720 x 480p	Constant 720 x 480p output (for use with the 525 input line system).
	720 x 576i	Constant 720 x 576i output (for use with the 625 input line system).
	720 x 480i	Constant 720 x 480i output (for use with the 525 input line system).

If you choose a setting that is incompatible with your TV you may not be able to see any picture at all. In this case, press  $\blacktriangleright$  (**PLAY**) while holding down the  $\blacksquare$  (**STOP**) button on the front panel to switch the setting (this also switches Component Video Out on page 108 to the default setting).

4:3 Video Output	Full	Select if your HDMI TV allows you to change the aspect ratio.
	Normal	Select if your HDMI TV does not allow you to change the aspect ratio. 4:3 video will be shown with bars on each side (unless the <i>Screen Resolution</i> setting (above) is set to <b>720 x 480i</b> or <b>720 x 576i</b> ).

## **The Initial Setup menu**

Setting	Options	Explanation
Colour	RGB (0–255)	Use if colours are weak and black appears to 'float' on the <b>RGB (16–235)</b> setting.
	RGB (16–235)	Use this setting if colours appear overly rich and the black too deep on the <b>RGB (0-255)</b> setting.
	YCbCr 4:2:2	The video signal is output as a 10-bit YCbCr 4:2:2 component signal. This is the standard setting for HDMI-compatible devices.
	YCbCr 4:4:4	The video signal is output as a 8-bit YCbCr 4:4:4 component signal.

• Depending on the connected device some settings may not be available.

• When a DVI device is connected, the YCbCr 4:2:2 and YCbCr 4:4:4 options are not available.

Audio Output	Auto •	Dolby Digital, MPEG and DTS sources are output as a bitstream signal. However, depending on the <b>Audio Out</b> setting, number of audio channels, and the HDMI-connected device, Linear PCM audio may be output.
	РСМ	All audio signals are converted to Linear PCM (except DTS).
	<b>Bitstream Priority</b>	Select if the connected device is compatible with bitstream audio.

This setting is not available when a DVI device is connected.

0		
Video Priority Mode	• HDMI •	Select for high quality picture output on a connected HDMI display. However, on this setting the YNR and Detail picture quality settings are not effective for analog video, and component video will be set to interlaced.
	Component	Select if you want the YNR and Detail picture quality settings to be effective for both HDMI and analog video output, or if <i>Component Video Out</i> is set to <b>Progressive</b> while an HDMI display is connected (page 108). When watching video on an HDMI display, use the <b>HDMI</b> setting.
Options		
On Screen Display	On •	The recorder displays operation displays ( <b>Stop</b> , <b>Play</b> , etc.) on-screen.
	Off	Switches off the on-screen operation displays.

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Setting	Options	Explanation
Front Panel Display	On •	The time is shown in the front panel display when the recorder is in standby.
	Off	The front panel display is switched off in standby (although it still lights dimly when setting a timer recording).
Remote Control Mode	Recorder 1–3 (default: Recorder 1)	If you are using more than one recorder in the same room, set them to different IDs. This setting sets the recorder ID; to change the remote controller ID, press and hold <b>RETURN</b> then press <b>1</b> , <b>2</b> or <b>3</b> to set. The remote will only control a recorder with the same ID.
DivX VOD	Registration Code	Use to display the recorder's DivX registration code. See <i>DivX video compatibility</i> and <i>DivX® VOD content</i> on page 11.
Set Preview (HDD only)	Quick Preview •	When in the Disc Navigator, the thumbnail video plays short excerpts from throughout the selected title. (Note that edited titles that will play normally from the beginning.)
	Normal	The thumbnail video plays from the beginning of the title.

#### Additional information about the TV system settings

#### About the input line system

This recorder is compatible with PAL, SECAM, 3.58 NTSC and PAL-60 TV systems. The Input Line System and Input Colour System settings determine how the recorder treats incoming video signals from an external input or the built-in TV tuner.

Please note the following points when changing the input line system:

- If, when the Input Line System setting is changed, the screen goes blank (due to incompatibility with your TV), you can switch back by pressing and holding the front panel ■ (STOP) button then pressing ▲ OPEN/CLOSE (also front panel) while the recorder is stopped.
- When you switch the Input Line System setting the Copy List is erased. If you switch the setting using the ■ (STOP) button and ▲ OPEN/CLOSE buttons as described above, there is no confirmation, so please use with care.
- You can't mix recordings of different TV line systems on the same disc.
- When you change this setting, the **Input Color System** setting also changes (page 117).

## The Initial Setup menu

#### **About NTSC on PAL TV**

Depending on the Input Line System setting and the NTSC on PAL TV setting, the signal format output when the recorder is stopped varies as shown in the table below.

Input Line System	NTSC on PAL TV	Output when stopped
625 System	Off	PAL
	On	PAL
525 System	Off	NTSC
	On	PAL-60

#### About the input color system

The available options of the Input Color System setting depend on the Input Line System setting. The tables below show the different options available.

#### Taiwan and Philippines model:

Input Line System	Built-in tuner	External input
625 System	n/a	Auto
		PAL
		SECAM
525 System	3.58 NTSC	Auto
		3.58 NTSC
		PAL-60

Australia, New Zealand and other Oceania area model:

Input Line System	Built-in tuner	External input
625 System	Auto	Auto
	PAL	PAL
	SECAM	SECAM
525 System	n/a	Auto
		3.58 NTSC
		PAL-60

#### Other:

Input Line System	Built-in tuner	External input
625 System	Auto	Auto
	PAL	PAL
	SECAM	SECAM
525 System	3.58 NTSC	Auto
		3.58 NTSC
		PAL-60

# Additional information about component video output

If you switch the Component Video Out setting to **Progressive** when using a TV that is not compatible with progressive-scan video, you will not be able to see anything displayed on your TV. If this happens, press and hold the **■** (STOP) button on the front panel, then press **>** (PLAY). This will set the recorder's video output back to **Interlace**.

# Selecting other languages for language options

# 1 Select 'Other' from the language list.

This option appears in the settings for DVD Menu Language, Audio Language, and Subtitle Language.



Select the language you

want.

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Initial Setup Basic Tuner Video In/Out Audio In Audio Out Language Recording Playback	OSD Audi Subt Auto DVD Subt	DVD Menu La Language Number		English 1 4	Þ	
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- Select by language name: Use the ←/→ buttons to change the language.
- Select by code number: Press **↓** then use the number buttons to enter the four-digit language code.

See *Language code list* on page 130 for a list of available languages and corresponding codes.

## Chapter 15 Additional information

## **Minimum copying times**

The table below shows the minimum HDD to DVD copying time for one hour of video.

Please note that not all discs are compatible with high-speed copying.<sup>1</sup> Check with the disc manufacturer for compatibility.

		DVD disc type					
Rec mod	le	DVD-R / 1x DVD-RW / 1x	DVD-RW / 2x DVD-R DL DVD-RAM / 2x	DVD+R / 2.4x DVD+RW / 2.4x DVD+R DL	DVD-RAM / 3x DVD-RAM / 5x	DVD-R / 4x DVD-RW / 4x DVD+R / 4x DVD+RW / 4x	DVD-R / 8x /16x DVD-RW / 6x DVD+R / 8x /16x DVD+RW / 8x
		1x	2x	2.4x	Зх	4x	6x
SEP	10 h	6 mins.	3 mins.	*1	2 mins.	1.5 mins.*1	1.25 mins.*1
SLP	8 h	7.5 mins.	4 mins.	*1	2.5 mins.	2 mins.*1	1.6 mins.*1
EP	6 h	10 mins.	5 mins.	*1	3.5 mins.	2.5 mins.*1	2.2 mins.*1
LP	4 h	15 mins.	7.5 mins.	6.3 mins.	5 mins.	4 mins.	3 mins.
SP	2 h	30 mins.	15 mins.	12.5 mins.	10 mins.	7.5 mins.	5.5 mins.
ХР	1 h	60 mins.	30 mins.	25 mins.	20 mins.	15 mins.	11 mins.

Note that all times in the above table are approximate. Also that actual copy speed varies with the part of the disc being recorded.

\*1 Titles recorded on DVD+R/+RW in SEP, SLP or EP modes cannot be high-speed copied.

🖉 Note

<sup>1</sup> Depending on the disc, the copy speed may be reduced (for example, although a 6x disc is used, the copy may be made at 2x speed).

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## Manual recording modes

The table below shows the approximate recording times for the HDD and the different DVD types in each manual recording mode, as well as the standard recording mode equivalents.

Video mode VR mode (D\		D)			ode On (HD ode (DVD), ⊦RW	D)
Resolution <sup>*1</sup>	Level	Rec. time		Level	Rec. time	Resolution <sup>*1</sup>
	MN 1	802 mins.		MN 1 *2,3	802 mins.	
	MN 2	720 mins.		MN 2 *2,3	720 mins.	
352 x 240 /	MN 3	600 mins.	SEP	MN 3 *2,3	600 mins.	352 x 240 /
352 x 288	MN 4	480 mins.	SLP	MN 4 *3	480 mins.	352 x 288
	MN 5	420 mins.		MN 5 *3	420 mins.	
	MN 6	360 mins.	EP	MN 6 *3	360 mins.	
352 x 480 /	MN 7	300 mins.		MN 7	300 mins.	352 x 480 /
352 x 576	MN 8	270 mins.		MN 8	270 mins.	352 x 576
	MN 9	240 mins.	LP	MN 9	240 mins.	
480 × 480 /	MN 10	230 mins.		MN 10	230 mins.	
480 x 576	MN 11	220 mins.		MN 11	220 mins.	
	MN 12	210 mins.		MN 12	210 mins.	
	MN 13	200 mins.		MN 13	200 mins.	
544 x 480 /	MN 14	190 mins.		MN 14	190 mins.	
544 x 576	MN 15	180 mins.		MN 15	180 mins.	
	MN 16	170 mins.		MN 16	170 mins.	
	MN 17	160 mins.		MN 17	160 mins.	
	MN 18	150 mins.		MN 18	150 mins.	
	MN 19	140 mins.		MN 19	140 mins.	720 x 480 /
	MN 20	130 mins.		MN 20	130 mins.	720 x 576
	MN 21	120 mins.	SP	MN 21	120 mins.	
	MN 22	110 mins.		MN 22	110 mins.	
	MN 23	105 mins.		MN 23	105 mins.	
720 x 480 /	MN 24	100 mins.		MN 24	100 mins.	
720 x 576	MN 25	95 mins.		MN 25	95 mins.	
	MN 26	90 mins.		MN 26	90 mins.	
	MN 27	85 mins.		MN 27	85 mins.	
	MN 28	80 mins.		MN 28	80 mins.	
	MN 29	75 mins.		MN 29	75 mins.	
	MN 30	70 mins.		MN 30	70 mins.	
	MN 31	65 mins.	VD	MN 31	65 mins.	
	MN 32 LPCM	61 mins. 61 mins.	XP	MN 32 LPCM	61 mins. 61 mins.	

\*1 The first figure refers to when the Input Line System is set to 525 System; the second when set to 625 System.

<sup>\*2</sup> Modes **MN1** to **MN3** not available when using DVD+R/+RW.

<sup>\*3</sup> Titles recorded at **MN6** or lower cannot be high-speed copied to DVD+R/+RW.

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- Levels separated by a bold line show where there is a noticeable change in picture quality.
- Audio recording in all manual recording modes is in Dolby Digital 2 ch format, except for LPCM mode, which is
  in Linear PCM format.
- When recording to the HDD, recording for the times given will use approximately 4.7 GB of HDD space (equivalent to one recordable DVD).
- See also Recording on page 31.

## Troubleshooting

Incorrect operation is often mistaken for trouble and malfunction. If you think there is something wrong with this component, please check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after checking the points below, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.

#### General

Problem	Remedy
The disc is automati- cally ejected after clos- ing the disc tray	<ul> <li>Check that the disc is not an incompatible format disc (page 8).</li> <li>Check that the disc is loaded properly (aligned in disc tray and label- side up).</li> <li>Take out the disc and clean it (page 132).</li> <li>Check that the disc has a region code compatible with the recorder.</li> </ul>
Can't play a disc	<ul> <li>Check that the disc is a compatible format disc (page 8).</li> <li>Take out the disc and clean it (page 132).</li> <li>Check that the disc is loaded properly (aligned in disc tray and label- side up).</li> <li>There may be condensation in the recorder. Leave the recorder for an hour or so for the condensation to evaporate.</li> <li>During HDD recording, you can't play discs that are recorded with a Line System different to the current recorder setting.</li> <li>DVD+R/+RW discs recorded using another recorder with copy- once protected recordings will not play in this recorder.</li> </ul>
Can't record a disc	<ul> <li>Check that the disc is not an incompatible format disc (page 8).</li> <li>Some DVD-RAM discs are not recordable until they have been initialized (page 50). This can take up to 1 hour.</li> </ul>
No picture	<ul> <li>Check that everything is connected properly (page 14).</li> <li>Check that the connected TV and/or the AV amp/receiver is set to the correct input.</li> <li>The recorder may be set to progressive scan with an incompatible TV. Reset to interlace by pressing and holding the front panel ■ (STOP) button then pressing ► (PLAY).</li> </ul>
All settings are reset	<ul> <li>If the recorder is unplugged (or there is a power failure) while the recorder is on, all the settings will be lost.</li> <li>Make sure that you switch the recorder into standby before unplugging the power cord.</li> </ul>

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Problem	Remedy
Remote control does not work	<ul> <li>If you connected this recorder to another Pioneer product using the CONTROL IN jack, point the remote control at the other component to use (page 14).</li> <li>Set the remote control to the same ID number as the recorder (page 116). (When the batteries run down, the remote mode is automatically reset to Recorder1.)</li> <li>Use the remote within its operating range (page 7).</li> <li>Replace the batteries (page 6).</li> </ul>
No sound or sound is distorted	<ul> <li>Make sure that the amp/receiver or TV is set to the correct input and the volume turned up.</li> <li>There is no sound when the picture is paused, or during scanning or slow motion play. Press ▶ PLAY to resume regular playback.</li> <li>DTS discs can only be played if this recorder is connected to a DTS decoder or DTS compatible amp/receiver. If you have connected a suitable decoder, also make sure that the Initial Setup &gt; Audio Out &gt; DTS Out setting is On.</li> <li>Some 96 kHz discs do not output audio through the digital jack. In this case, switch the input of your amp/receiver to analog.</li> <li>Check the audio cable connections (page 14).</li> <li>If the sound is distorted, try cleaning the cable plugs.</li> </ul>
Cannot switch a dual mono/bilingual pro- gram	• During real-time copying it is not possible to switch audio channels. The main and sub channels are both output.
The picture from the external input is dis- torted	• If the video signal from the external component is copy-protected, you cannot connect via this recorder. Connect the component directly to your TV.
The picture is distorted	• Change the Input Line System setting (page 116). (You can also change it by pressing the <b>■</b> (STOP) button and <b>▲</b> OPEN/CLOSE on the front panel simultaneously with the recorder stopped.)
Screen is stretched ver- tically or horizontally	<ul> <li>Make sure that the TV Screen Size setting (page 113) is correct for the kind of TV you have (see also page 131).</li> <li>If you have a widescreen TV, check its aspect ratio settings.</li> <li>This recorder's input switches into wide mode automatically according to the input signal. When the unit connected is not compatible with VIDEO ID-1 (widescreen signalling), set the connected component to output 4:3 aspect ratio (standard) video.</li> </ul>

Problem	Remedy
Can't play a disc recorded using this recorder on another player	<ul> <li>If the disc was recorded in Video mode, make sure that it's finalized (page 48).</li> <li>Some players will not play recordable DVD discs, even when recorded in Video mode and finalized.</li> <li>If the disc was recorded in VR mode, the other player must be specifically RW compatible in order to play it (page 7).</li> <li>Discs recorded with copy-once material cannot be played on non-CPRM compatible players (page 34).</li> <li>DVD+RW discs containing only a small amount of recorded material may not play on other players. Finalize the disc and try again.</li> </ul>
During playback the picture is dark or dis- torted	• When a copy-protected disc is played via a VCR, the picture will not display correctly. Connect the recorder directly to your TV.
Can't record or does not record successfully	<ul> <li>Check that there is some remaining blank space on the DVD/HDD.</li> <li>For a Video mode disc or DVD+R, check that the disc isn't already finalized.</li> <li>Check the limits on the number of titles and chapters on a disc: <ul> <li>HDD: 999 titles</li> <li>VR mode: 99 titles, 999 chapters per disc</li> <li>Video mode disc: 99 titles per disc, 99 chapters per title</li> <li>DVD+R/+RW: 49 titles per disc, 99 chapters per title (max 254 chapters per disc)</li> <li>Check that the source you are trying to record is not copy protected.</li> <li>For a VR formatted disc, check that the disc isn't locked (page 99).</li> <li>Check that you are recording with the same TV system (PAL, NTSC, etc.) as the disc has already been recorded in. All recordings on a disc must be in the same TV system. When recording to the HDD, it is also necessary to set the Input Line System setting to match what you want to record (page 116).</li> <li>The power may have failed during recording.</li> </ul> </li> </ul>
Timer program doesn't record successfully	<ul> <li>When setting the recording channel, make sure you set the recorder's built-in TV tuner, not the TV's built-in tuner.</li> <li>When recording to a Video mode disc, programs that are copy-once protected cannot be recorded. Use a VR mode formatted disc for copy-once material (page 34).</li> <li>Two timer programs may have overlapped, in which case only the earlier one will record completely.</li> <li>The power may have failed during recording.</li> <li>Check that the recorder's TV system (PAL, NTSC, etc.) settings are the same as the channel set for recording.</li> </ul>
After briefly unplug- ging or after a power failure the front panel display shows ':'	• A backup battery inside the recorder keeps the clock and other settings from being reset when there is no power to the recorder. After unplugging or a power failure, the battery keeps all settings for a period of several minutes. Reset the clock and other recorder settings to use the recorder again.

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Problem	Remedy
Front panel display shows 'LOCK' when a button is pressed	• The Child Lock is on; turn off in order to use the recorder (page 44).
Can't use One Touch Copy (HDD to DVD)	<ul> <li>Make sure that there is a recordable DVD-R/-RW loaded with some free space for recording and fewer than 99 titles already on the disc. Also make sure that for a Video mode disc or a DVD+R, the disc isn't finalized.</li> <li>Make sure there is a recordable DVD+R/+RW loaded with some free space for recording and fewer than 49 titles already on the disc.</li> <li>If you delete a title from a DVD+R/+RW disc, the number of remaining recordable titles may not decrease.</li> <li>Further recording is not possible on a finalized DVD+R. Check that there isn't a disc menu on the disc you're trying to use.</li> <li>If the title currently playing contains material that is copy-once protected, One Touch Copy will not work.</li> <li>One Touch Copy can't be used for titles over 8 hours long when copying to DVD+R/+RW (though you can use a DVD+R DL).</li> <li>One Touch Copy can't be used for MN1 to MN6, SEP, SLP or EP titles when copying to DVD+R/+RW.</li> <li>One Touch Copy doesn't work if the recorder is already recording to DVD.</li> </ul>
Can't use One Touch Copy (DVD to HDD)	<ul> <li>Make sure that there is space available on the HDD and that there are fewer than 999 titles on the HDD.</li> <li>One Touch Copy doesn't work if the recorder is already recording to the HDD.</li> </ul>
The picture freezes and the front panel and remote control but- tons stop working	<ul> <li>Press ■ (STOP) then try restarting playback.</li> <li>Press the front panel ♂ STANDBY/ON button to switch the power off, then switch back on and restart playback. If the power fails to switch off, press and hold ♂ STANDBY/ON for 5 seconds until the power switches off.</li> </ul>
A device connected via USB does to function.	<ul> <li>Check that it is a device that may be connected to this unit (digital camera, USB memory, memory card reader or printer).</li> <li>Use a USB cable less than 5 m in length.</li> <li>Check that the USB cable is inserted fully.</li> <li>Check that the USB device is powered on.</li> <li>Only the first digital camera, USB memory or memory card reader connected is readable by this unit. Unplug multiple devices and connect the device you want to use first.</li> </ul>

#### HDMI

Problem	Remedy
The connected HDMI or DVI device does not display any picture (and the front panel HDMI indicator does not light)	<ul> <li>Try disconnecting then reconnecting the HDMI cable (while the power of both components is on).</li> <li>Try switching the power of the HDMI/DVI device off then back on.</li> <li>Try switching off the HDMI/DVI device and this recorder. Next, switch on the HDMI/DVI device and leave it for around 30 seconds, then switch on this recorder.</li> <li>When you connect an HDMI-compatible device make sure of the following: <ul> <li>The connected device's video input is set correctly for this unit.</li> <li>The cable you're using is fully HDMI-compliant. Using a nonstandard cable may result in no picture being output.</li> <li>Don't use several HDMI cables connected together. Use a single cable to connect a DVI-compatible device make sure of the following:</li> <li>The connected device's video input is set correctly for this unit.</li> <li>The power of both compatible device make sure of the following:</li> <li>The connect device's video input is set correctly for this unit.</li> <li>The connect device's video input is set correctly for this unit.</li> <li>The connected device's video input is set correctly for this unit.</li> <li>The DVI terminal on the connected device is HDCP-compatible.</li> <li>The connected device is compatible with NTSC (720 x 480i/p, 1280 x 720p, 1920 x 1080i) and PAL (720 x 576i/p, 1280 x 720p, 1920 x 1080i) video input.</li> <li>If the recorder's internal HDD is damaged or broken, there will be no HDMI output.</li> <li>Not all HDCP-compatible DVI devices will work with this recorder.</li> </ul> </li> </ul>
No video from the HDMI output.	If you choose a setting that is incompatible with your TV you may not be able to see any picture at all. In this case, press $\blacktriangleright$ ( <b>PLAY</b> ) while holding down the $\blacksquare$ ( <b>STOP</b> ) button on the front panel to switch the setting (this also switches <i>Component Video Out</i> on page 108 to the default setting).
There's no sound from the connected HDMI or DVI device.	<ul> <li>There is no sound when using a DVI terminal.</li> <li>Some HDMI-compatible devices do not output sound (check with the manual that came with the connected device).</li> </ul>

If the unit does not operate normally due to external effects such as static electricity, disconnect the power plug from the outlet and insert again to return to normal operating conditions. 15

## **On-screen displays and recorder displays**

The table below shows a list of error messages that you may encounter when using the recorder and an explanation of their meaning.

Message	Explanation/Action
• Initializing disc. Please wait a moment.	When you load a blank DVD-RW or DVD+RW disc, the recorder automatically initializes it.
Incompatible region number.	The disc loaded has an incompatible region number for the recorder and so will not play.
<ul> <li>Cannot record any more titles.</li> <li>No more space for DVD file management data.</li> <li>No more space for HDD file management data.</li> </ul>	The disc control data limit has been reached, or the maximum number of chapters and/or titles has been reached. Erase titles/chapters or combine chapters.
• This disc cannot be recorded. Undo the finalization.	The disc was finalized on a non-Pioneer DVD recorder. Undo the finalization in order to recording/editing.
<ul> <li>Cannot play this disc.</li> <li>This disc cannot be recorded.</li> <li>Cannot read the CPRM information.</li> <li>Could not record the information to the disc.</li> <li>Cannot edit.</li> <li>Could not initialize disc.</li> <li>Could not complete finalization successfully.</li> <li>Could not undo finalization successfully.</li> <li>Could not successfully unlock the disc.</li> </ul>	The disc may be dirty or damaged. Take out the disc, clean it and retry. If the error persists, use a new disc. If the error appears even with a new disc, please consult a Pioneer Service Center.
Incompatible or unreadable disc.	The disc loaded is a playback-only disc type. This display may also appear if the disc is dirty or damaged.
<ul> <li>Cannot record to a disc that is not CPRM compatible.</li> <li>Cannot record this content using Video mode recording.</li> <li>This video cannot be recorded to DVD+R/+RW.</li> </ul>	The video source is copy-once protected. Use a VR mode DVD-R/-RW disc with CPRM for recording.
• This content is copy protected.	The video source is copy-protected and cannot be recorded.

Message	Explanation/Action
• Incorrect CPRM information.	The recorder could not read the CPRM information. The recorder may be damaged— please consult a Pioneer Service Center.
<ul><li> Repairing disc.</li><li> Repairing the HDD.</li></ul>	During recording, the power was cut. This display appears when the power is restored.
• Could not repair the disc.	The recorder was unable to repair the disc after a power cut. The contents of the recording will be lost.
• Overheating has stopped operation. Press DISPLAY to clear message.	The internal temperature of the recorder has exceeded the operating limit. If this message reappears, please contact a Pioneer authorized service center.
• There is no DV input or the input signal is unrecordable.	No signal was detected at the <b>DV IN</b> jack. This may appear if a blank section of DV tape is playing in the connected camcorder.
• HDD optimization is recommended. This can be done using Disc Setup.	The HDD should be optimized (basically, HDD housekeeping) to maintain playback and recording performance.
• Please perform HDD optimization. This can be done using Disc Setup.	The HDD is in more urgent need of optimization in order to maintain performance.
• The HDD has not been sufficiently optimized. Please optimize again.	If this message appears repeatedly after optimizing the HDD it is likely that there is not enough free space on the HDD for optimization to complete properly. Please erase some titles from the HDD and optimize again.
• This signal's TV system is different from the recorder's setting.	The TV system (PAL, NTSC, etc.) of the current channel is different from the TV system settings of this recorder.
• Recording failed due to a TV system mismatch. Press DISPLAY to clear message.	The timer recording failed because the TV system of the channel set for recording was different from the setting of the recorder.
• Playback has stopped because the TV system is different than the recording.	During recording or timer recording standby, the TV System (PAL, NTSC, etc.) of the playback video changed, causing playback to stop automatically.
No DV camcorder connected.	The camcorder is not connected properly, or the camcorder is switched off.
You cannot connect more than one	This recorder's DV jack supports connection to

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Message	Explanation/Action
• Cannot operate the DV camcorder.	This recorder cannot operate the DV camcorder. Try switching off the camcorder then turn it back on again.
• Could not operate the DV camcorder.	This recorder was not able to operate the DV camcorder.
• The DV camcorder is not set for playback. Please select playback mode on the DV camcorder.	The camcorder is in camera mode. Switch it to playback mode.
• Searching for a printer. Please wait a moment. To cancel, press ENTER.	This message is displayed when the recorder is scanning for a connected printer, or when the printer is not yet ready for printing. If there is no printer connected, please connect one. If the message does not disappear, try disconnecting then reconnecting the USB cable. (Note that this recorder may not work correctly with all printers.)
• The printer is not ready or is not connected. Please check the printer.	This message is displayed when communication could not be established with the printer. See the Troubleshooting section if you do not know the cause.
• Printing has been canceled because	This message is displayed when there is a printer error during printing. After checking the printer for the cause of the error, either reconnect the printer and start the printing job again, or select "Yes" to resume printing (select "No" to cancel the print job). See also the operating instructions that came with your printer for possible causes of print errors.

# Setting up the remote to control your TV

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

# 1 Press and hold down the CLEAR button, then enter the maker code for your TV.

The LED indicator on the remote controls lights.

See the table below for the list of maker codes. If there is more than one code given for your make, input the first one in the list.

 If the maker's name of your TV doesn't appear in the table below, you will not be able to use this remote to control your TV.

## 2 Press $\circlearrowright$ TV to check that the remote works with your TV.

If the remote is set up correctly, the TV should switch on/off. If it doesn't and there is another code given for your maker, repeat step **1** with a new code.

# Using the TV remote control buttons

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

Button	What it does
ථ TV	Press to switch the TV on/off (standby)
INPUT SELECT	Press to change the TV's video input
TV VOLUME	Use to adjust the TV volume
TV CHANNEL	Use to change TV channels

Maker	Code
Alba	66
Bush	76
Finlux	84
Fisher	61, 65
Fujitsu	77
Funai	67
Goldstar	79
Grandiente	87
Grundig	51, 82
Hitachi	56, 60, 83, 86
ITT	70
Mitsubishi	59
Nokia	53, 81
Panasonic	58, 72
Philips	57, 85
Pioneer	50, 80
RCA	68
Salora	71
Samsung	73, 75
Sanyo	74
Sei	78
Sharp	52
Sony	54
Tandy	69
Telefunken	64
Thomson	62
Toshiba	55
JVC	63

### Language code list

Language (Language code letter), Language code

Japanese (ja), 1001 English (en). 0514 French (fr), 0618 German (de), 0405 Italian (it), 0920 Spanish (es), 0519 Chinese (zh), 2608 Dutch (nl), 1412 Portuguese (pt), 1620 Swedish (sv), 1922 Russian (ru), 1821 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 Fiii (fi). 0610 Faroese (fo), 0615 Frisian (fy), 0625 Irish (ga), 0701 Scots-Gaelic (gd), 0704 Galician (gl), 0712 Guarani (gn), 0714 Gujarati (gu), 0721 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 (In), 1214 Laotian (lo), 1215 Lithuanian (It), 1220 Latvian (Iv), 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 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 Sinhalese (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 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

## Country/Area code list

#### Country/Area, Country/Area code, Code letter

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

Malavsia, 1325, mv Mexico, 1324, mx Netherlands, 1412, nl New Zealand, 1426, nz Norway, 1415, no Pakistan, 1611, pk Philippines, 1608, ph Portugal, 1620, pt Russian Federation, 1821, ru USA, 2119, us

Singapore, 1907, sg Spain, 0519, es Sweden, 1905, se Switzerland, 0308, ch Taiwan, 2023, tw Thailand, 2008, th United Kingdom, 0702, qb

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## Screen sizes and disc formats

When viewing on a st	andard TV or monitor	
Screen format of disc	Setting	Appearance
16:9	4:3 (Letter Box)	The program is shown in widescreen with black bars at the top and bottom of the screen.
	4:3 (Pan & Scan)	The sides of the program are cropped so that the picture fills the whole screen.
4:3	4:3 (Letter Box) 4:3 (Pan & Scan)	The program is presented correctly on either setting.
When viewing on a w	idescreen TV or monitor	
Screen format of disc	Setting	Appearance
16:9	16:9	The program is presented in widescreen.
4:3	16:9	Your TV will determine how the picture is presented—check the manual that came with the TV for details.

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## **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 and recording 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. Do not clean discs with a circular motion.



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

### **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 recorder.

#### **Damaged discs**

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

This recorder 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 recorder'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 player are commercially available, we do not recommend using them since some may damage the lens.

## Condensation

Condensation may form inside the recorder 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 recorder, 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 recorder will be exposed to direct sunlight.

➤ Use in a dusty or damp environment or in a room where it will be exposed to excessive cigarette smoke.

➤ 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 recorder 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 recorder

If you need to move the recorder, first remove the disc, if there's one loaded, and close the disc tray. Next, press & **STANDBY/ ON** to switch the power to standby, checking that the **POWER OFF** indication in the display goes off. Wait at least two minutes. Lastly, disconnect the power cord. Never lift or move the unit during playback or recording—discs rotate at a high speed and may be damaged.

### **Resetting the recorder**

If you need to, you can reset the recorder to all its factory settings.

#### 1 Make sure that the recorder is on.

## 2 Press and hold ■ (STOP) and press ⇔ STANDBY/ON.

The recorder turns off with all settings reset.

## **Specifications**

#### General

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Power requirements Australia, New Zealand and other Oceania area model 
Power consumption
Power consumption in standby mode (Front panel display: off) Australia, New Zealand and other Oceania area model
Weight DVR-745H-S
Dimensions 
Operating temperature +5 °C to +35 °C Operating humidity
TV system Taiwan and Philippines model

#### **Readable discs**

DVD-Video, DVD-RW, DVD-R, DVD+R, DVD+RW, DVD-RAM, Video CD, Super VCD, CD, CD-R/-RW (WMA, MP3, JPEG, CD-DA, DivX)

#### **Recording discs and formats**

DVD-R/-RW: VR mode and Video mode DVD-R/+RW: +VR mode DVD-RAM: VR mode DVD-R DL: VR mode and Video mode DVD+R DL: +VR mode

#### Video recording format

Sampling frequency					 			13.5 MHz
Compression format					 			MPEG

#### Audio recording format

#### **Recording time**

#### HDD

#### DVR-745H-S (400 GB)

Fine (XP)	
Standard Play (SP)	Approx. 170 h
Long Play (LP)	Approx. 340 h
Extended Play (EP)	Approx. 510 h
Super Long Play (SLP)	Approx. 680 h
Super Extended Play (SEP)	Approx. 850 h
Manual Mode (MN)	Approx. 85 h to 1137 h
DVR-645H-S (250 GB)	
Fine (XP)	Approx. 53 h
Standard Play (SP)	Approx. 106 h
Long Play (LP)	Approx. 212 h
Extended Play (EP)	Approx. 319 h
Super Long Play (SLP)	Approx. 425 h
Super Extended Play (SEP)	Approx. 532 h
Manual Mode (MN)	. Approx. 53 h to 711 h

#### DVD-R/-RW, DVD+R/+RW, DVD-RAM

Fine (XP)	Approx. 1 h
Standard Play (SP)	Approx. 2 h
Long Play (LP)	Approx. 4 h
Extended Play (EP)	Approx. 6 h
Super Long Play (SLP)	Approx. 8 h
Super Extended Play (SEP)	Approx. 10 h
(DVD-R/-RV	V, DVD-RAM only)
Manual Mode (MN)	
DVD-R/-RW/-RAMA	pprox. 1 h to 13 h
DVD+R/+RW	Approx. 1 h to 8 h

#### DVD-R DL/DVD+R DL

Fine (XP) Approx. 1 h 51 m
Standard Play (SP) Approx. 3 h 35 m
Long Play (LP) Approx. 7 h 11 m
Extended Play (EP) Approx. 10 h 46 m
Super Long Play (SLP) Approx. 14 h 21 m
Super Extended Play (SEP) Approx. 17 h 57 m
(DVD-R DL only)
Manual Mode (MN)
DVD-R DL Approx. 1 h 51 m to 24 h
DVD+R DL Approx. 1 h 51 m to 14 h 21 m

#### Timer

Programs	1 month/32 programs
Clock	
Taiwan and Philippines model	Quartz lock
	(12-hour digital display <sup>1</sup> )
Other	Quartz lock
	(24-hour digital display)

🔗 Note

1 If the country is set to Philippines the clock switches to 24 hour display.

#### Tuner

#### Receivable channels

Taiwan and Philippines model:

VHF	 2 ch to 13 ch
UHF	 14 ch to 69 ch
CATV	 C1 ch to C125 ch

Australia, New Zealand and other Oceania area model:

	SECAM E	DAL I		
	PAL B/ Frequency	G Channel	Frequency	Channel
VHF (low)	47 MHz to 89 MHz	E2 to E4	44 MHz to 89 MHz	A to C
		X to Z		X to Z
VHF (high)	104 MHz to 300 MHz	E5 to E12	104 MHz to 300 MHz	D to J
		S1 to S20		11, 13
		M1 to M10		S1 to S20
		U1 to U10		
Hyper	302 MHz to 470 MHz	S21 to S41	302 MHz to 470 MHz	S21 to S41
UHF	470 MHz to 862 MHz	E21 to E69	470 MHz to 862 MHz	E21 to E69

	SECAM D/K									
	PAL D/	PAL D/K								
	Frequency	Frequency Channel								
VHF (low)	49 MHz to 94 MHz	R1 – R5								
VHF (high)	104 MHz to 300 MHz	R6 – R12								
		S1 – S20								
Hyper	302 MHz to 470 MHz	S21 – S41								
UHF	470 MHz to 862 MHz	E21 – E69								

Other:

	SECAM I			
	PAL B/G		PAL I	
	Frequency	Channel	Frequency	Channel
VHF (low)	47 MHz to 89 MHz	E2 to E4	44 MHz to 89 MHz	A to C
		X to Z		X to Z
VHF (high)	104 MHz to 300 MHz	E5 to E12	104 MHz to 300 MHz	D to J
		S1 to S20		11, 13
		M1 to M10		S1 to S20
		U1 to U10		
Hyper	302 MHz to 470 MHz	S21 to S41	302 MHz to 470 MHz	S21 to S41
UHF	470 MHz to 862 MHz	E21 to E69	470 MHz to 862 MHz	E21 to E69

SECAM D	
PAL D/K	( —
Frequency	Chan

	NTSC-M	/N	STEREO B/G - A2
UHF	470 MHz to 862 MHz	E21 – E69	
Hyper	302 MHz to 470 MHz	S21 – S41	
		S1 – S20	
VHF (high)	104 MHz to 300 MHz	R6 – R12	
VHF (low)	49 MHz to 94 MHz	R1 – R5	

	Frequency	Channel	I - NICAM
VHF	55 MHz to 218 MHz	2 to 13	B/G - NICAI
UHF	471 MHz to 808 MHz	14 to 69	D/K - NICA
CATV	72 MHz to 806 MHz	C1 to C125	

### Input/Output

VHF/UHF antenna input/output terminal
Taiwan and Philippines model VHF/UHF set 75 Ω (F-shape connector)
Other
Video Input 1 (rear), 2 (front), 3 (rear)
Input level1 Vp-p (75 Ω) JacksRCA jack
Video Output 1, 2
Output level 1 Vp-p (75 Ω) Jacks RCA jack
S-Video Input 1 (rear), 2 (front), 3 (rear)
Y (luminance) - Input level $\dots \dots \dots \dots 1$ Vp-p (75 $\Omega$ )
C (colour) - Input level Taiwan and Philippines model 286 mVp-p (75 Ω)
Other $\ldots$ 300 mVp-p (75 $\Omega$ )
Jacks
<b>S-Video Output 1, 2</b> Y (luminance) - Output level 1 Vp-p (75 Ω)
C (colour) - Output level
Taiwan and Philippines model 286 mVp-p (75 $\Omega$ ) Other
Jacks 4 pin mini DIN
Component video output
Output level
JacksRCA jacks
Audio Input 1 (rear), 2 (front), 3 (rear) L/R
During audio input
JacksRCA jacks
Audio Output 1, 2 L/R During audio output
(Output impedance: less than 1.5 k $\Omega$ )
JacksRCA jacks
Other connections Control inputMini jack
Digital audio ouptut Coaxial
DV input4 pin (front) (i.LINK/IEEE 1394 standard)
USBType A (front), Type B (front)
HDMI 19 pin

#### **Supplied accessories**

Remote control1
Dry cell batteries (AA/R6P)2
Audio / Video cable (red/white/yellow)1
RF antenna cable1
Power cable1
Operating Instructions

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

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