

DVD Player / Recorder

DVDR5500

## User Manual

This product comes with  
**Premium  
Home Service**  
Refer to the inside page for details.

**Thank you for choosing Philips.**

### **Need help fast?**

Read your *Quick Use/Start Guide* and/or *User Manual* first for quick tips that make using your Philips product more enjoyable.

If you have read your instructions and still need assistance, you may access our online help at [www.philips.com/welcome](http://www.philips.com/welcome)



DVB

HDMI

VIDEO *Plus*



DIVX  
ULTRA

SHOWVIEW

**PHILIPS**

# Premium Home Service

## **Dear valued customer,**

Thank you for buying a Philips DVD Recorder.  
Your product comes with the Philips 'Premium Home Service' warranty.

Should you require any assistance in operating your set, Philips offers you professional support via:

### **Philips Support Center website**

[www.philips.com/support](http://www.philips.com/support)

or

### **Philips Consumer Care Helpline \***

where our trained representatives will guide you, step-by-step, to solve any issues you have.

If we are unable to provide a solution, Philips will be pleased to pick-up your DVD Recorder from your home; and provide a service replacement set, within 10 days. That's the Philips 'Premium Home Service' commitment to you. This service comes free-of-charge (except for Consumer Care Helpline) and applies to all Philips DVD Recorders during the Philips warranty period.

For more information, please contact a representative via the Philips Consumer Care Helpline.

\* [Refer to the back page of this manual for the Philips Consumer Care phone number in your country.](#)

[Please have with you the model number, serial number and purchase date of your product when contacting Philips Customer Care.](#)

### Important notes for users in U.K.

#### Mains plug

This apparatus is fitted with an approved 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- 1 Remove fuse cover and fuse.
- 2 Fix new fuse which should be a BS1362 5 Amp, A.S.T.A. or BSI approved type.
- 3 Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

*Note: The severed plug must be disposed off to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.*

#### How to connect a plug

The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

- Connect the blue wire to the terminal marked N or coloured black.
- Connect the brown wire to the terminal marked L or coloured red.
- Do not connect either wire to the earth terminal in the plug, marked E (or e) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

#### Copyright in the U.K.

Recording and playback of material may require consent. See Copyright Act 1956 and The Performer's Protection Acts 1958 to 1972.

### DK

**Advarsel: Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.**

**Bemærk: Netafbryderen er sekundært indkoblet og afbryder ikke strømmen fra nettet. Den indbyggede netdel er derfor tilsluttet til lysnettet så længe netstikket sidder i stikkontakten.**

### S

#### Klass I laserapparat

**Varning! Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstråling, som överskrider gränsen för laserklass I.**

**Observera! Stömbrytaren är sekundärt kopplad och bryter inte strömmen från nätet. Den inbyggda nätdelen är därför ansluten till elnätet så länge stickproppen sitter i vägguttaget.**

### SF

#### Luokan I laserlaite

**Varoitus! Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan I ylittävälle näkymättömälle lasersäteilylle. Oikeus muutoksiin varataan. Laite ei saa olla alttiina tippu- ja roiskevedelle.**

**Huom. Toiminnanvalitsin on kytketty toisiopuolelle, eikä se kytkä laitetta irti sähköverkosta. Sisäänrakennettu verkko-osa on kytkettyä sähköverkkoon aina silloin, kun pistoke on pistorasiassa.**

**CAUTION**

VISIBLE AND INVISIBLE LASER  
RADIATION WHEN OPEN.  
AVOID EXPOSURE TO BEAM

**ADVARSEL**

SYNLIG OG USYNLIG LASERSTRÅLING  
VED ÅBNING UNDGÅ UDSÆTTELSE  
FOR STRÅLING

**VARNING**

SYNLIG OCH OSYNLIG  
LASERSTRÅLNING NÄR DENNA DEL ÄR  
ÖPPNAD BETRAKTA EJ STRÅLEN

**VARO!**

AVATTAESSA OLET ALTTIINA  
NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE  
LASER SÄTEILYLLE. ÄLÄ KATSO  
SÄTEESEEN

**VORSICHT**

SICHTBARE UND UNSICHTBARE  
LASERSTRAHLUNG WENN  
ABDECKUNG GEÖFFNET NICHT DEM  
STRAHL AUSSETZEN

**ATTENTION**

RAYONNEMENT LASER VISIBLE ET  
INVISIBLE EN CAS D'OUVERTURE  
EXPOSITION DANGEREUSE AU  
FAISCEAU

**Disposal of your old product**



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.

Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

Due to the inconsistency of disc formats provided by various disc manufacturers, your DVD system/ player/recorder may require a playability enhancement or upgrade. As DVD technology advances, these enhancement will become common and will be easy to complete. Go to [www.philips.com/support](http://www.philips.com/support) for software upgrade.

**Italia**

**DICHIARAZIONE DI CONFORMITA'**

Si dichiara che l'apparecchio DVDR5500, Philips risponde alle prescrizioni dell'art. 2 comma 1 del D.M. 28 Agosto 1995 n. 548.

Fatto a Eindhoven

Philips Consumer Electronics  
Philips, Glaslaan 2  
5616 JB Eindhoven, The Netherlands

**Norge**

Typeskilt finnes på apparatens underside.

**Observer: Nettbryteren er sekundert innkoplet. Den innebygde nettdelen er derfor ikke frakoplet nettet så lenge apparatet er tilsluttet nettkontakten.**

For å redusere faren for brann eller elektrisk støt, skal apparatet ikke utsettes for regn eller fuktighet.

**This product complies with the radio interference requirements of the European Community.**



**This product complies with the requirements of the following directives and guidelines: 73/23/EEC + 89/336/EEC + 93/68/EEC**

**LASER**

Type	Semiconductor laser InGaAlP (DVD) AlGaAs (CD)
Wave length	658 nm (DVD) 90 nm (CD)
Output Power	30 mW (DVD+RW write) 1.0 mW (DVD read) 1.0 mW (CD read)
Beam divergence	84 degrees (DVD) 61 degrees (CD)

This product incorporates copyright protection technology that is protected by US patents. Use of this copyright protection technology must be authorised by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patent Number 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132



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Trade mark of the DVB Digital Video Broadcasting Project (1991 to 1996)

## SHOWVIEW™

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VIDEO Plus+® and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+® system is manufactured under license from Gemstar Development Corporation.

'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

## HDMI

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(For UK only)

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### For Customer Use:

Read carefully the information located at the bottom or rear of your DVD Recorder and enter below the Serial No. Retain this information for future reference.

Model No. DVDR RECORDER  
DVDR5500

Serial No. \_\_\_\_\_

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## Care and Safety Information

### CAUTION!

This unit does not contain any user serviceable parts. Please leave all maintenance work to qualified personnel.

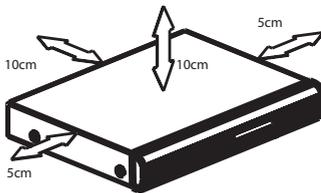
### Setup precautions

#### Finding a suitable location

- Place the set on a flat, hard and stable surface. Do not place the set on a carpet.
- Do not place the set on top of other equipment that might heat it up (e.g., receiver or amplifier).
- Do not put anything under the set (e.g., CDs, magazines).
- Install this unit near the AC outlet and where the AC power plug can be reached easily.

#### Space for ventilation

- Place the apparatus in a location with adequate ventilation to prevent internal heat build up. Allow at least 10 cm (4") clearance from the rear and top of the set and 5cm (2") from the left and right to prevent overheating.



#### Avoid high temperature, moisture, water and dust

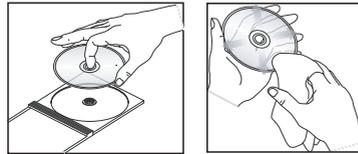
- Apparatus must not be exposed to dripping or splashing.
- Do not place any object or items that can damage the apparatus (e.g., liquid filled objects, lighted candles).

### Cleaning discs

#### CAUTION!

Risk of damage to discs! Never use solvents such as benzene, thinner, cleaners available commercially, or antistatic sprays intended for discs.

- Wipe the disc with a micro fibre cleaning cloth from the centre to the edge in a straight line movement.



### About recycling

These operating instructions have been printed on non-polluting paper. This electronic equipment contains a large number of materials that can be recycled. If you are disposing of an old machine, please take it to a recycling centre. Please observe the local regulations regarding disposal of packaging materials, exhausted batteries, and old equipment.

## Product Information

### Introduction

This DVD Recorder is equipped with an analogue-digital terrestrial tuner (DVB-T - Digital Video Broadcasting - Terrestrial) to receive free-to-air analogue and digital terrestrial TV. It allows you to receive current analogue TV broadcasts and new digital broadcasts.

You can record your favourite TV programmes to a recordable DVD for safekeeping or view them on another DVD player.

For users in UK, this recorder features a free on-screen Electronic Programme Guide (EPG) that conveniently provides you with an up-to-date overview of all TV programmes that are currently being broadcast on the digital TV channels.

Before you can start using this recorder, you must complete the basic connection and initial recorder set-up in three simple steps.

#### Step 1: Basic recorder connections

#### Step 2: Optional connections for other devices

#### Step 3: Installation and set-up

Please take time to read this user manual before using your recorder. It contains important information and notes regarding the operation of your DVD recorder.

#### Helpful Hint:

– Refer to the type plate at the rear or bottom of the product for identification and supply ratings.

### Accessories supplied

- Quick Start Guide
- RF antenna cable
- Scart cable
- HDMI cable
- Remote control and batteries

### Region codes

DVD movies are usually not released at the same time in all regions of the world, thus all DVD players/recorders are programmed to a specific region code.

This device will only play **Region 2** DVDs or DVDs manufactured to be played in all regions '**ALL**'. DVDs from other regions cannot be played on this recorder.



### Copyright notice

The making of unauthorised copies of copy-protected material, including computer programmes, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.

## Product Information (continued)

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### Special features

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#### **Analogue-Digital tuner**

This product is equipped with a hybrid analogue-digital tuner. It features analogue TV reception, digital terrestrial TV and DVB-T Radio reception. To select between the three modes, simply press the LIVE TV button repeatedly.

Analogue TV → Digital TV → DVB-T Radio

#### **TV Guide** *(For UK only)*

The TV Guide lists all the digital TV programme information for the upcoming seven days. You can also use it to schedule recordings.

#### **i.LINK**

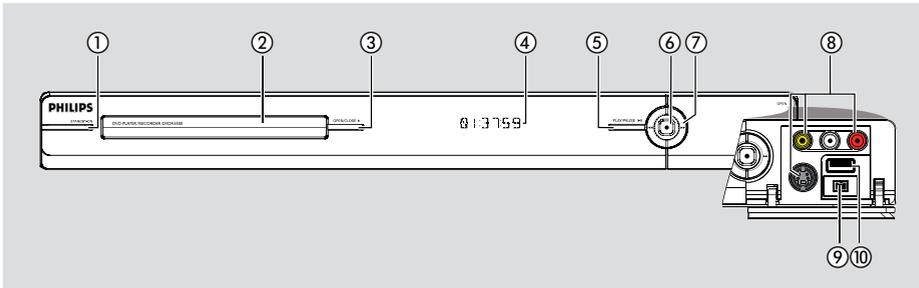
i.LINK, also known as 'FireWire' or 'IEEE 1394', is a digital connection for connecting your camcorder to enable you to make high quality copies of your camcorder videos. The connector can be found behind the front flap door.

#### **SHOWVIEW™ VIDEO *Plus 7***

This is a simple programming system for recorders. To use it, enter the programming number associated with your television programme. You can find this number in your favourite listings magazine.

# Main Unit

English



## ① **STANDBY-ON**

- Turns the recorder on or to standby mode.

## ② **Disc tray**

## ③ **OPEN/CLOSE ▲**

- Opens or closes the disc tray.

## ④ **Display panel**

- Shows information about the current status of the recorder.

## ⑤ **PLAY/PAUSE ►||**

- Starts or pauses playback of any recorded disc.

## ⑥ ●

- Starts recording the currently viewed TV programme. Press repeatedly to set the recording length in 30 minute increments.
- Lights up while recording is in progress.

## ⑦ ◀▶▶▶

- Skips to the previous or next chapter/track. Hold down the button to make a reverse/forward search.

## Sockets behind the flap

Flip down the door as indicated by the **OPEN ►** label at the right hand corner.

## ⑧ **CAMI**

- Use VIDEO connector for VHS/Video8 camcorders/video recorders.  
*Alternatively,*
- Use S-VIDEO connector for SVHS/Hi8 camcorders/video recorders.
- For audio connections, use **L-AUDIO-R** sockets.

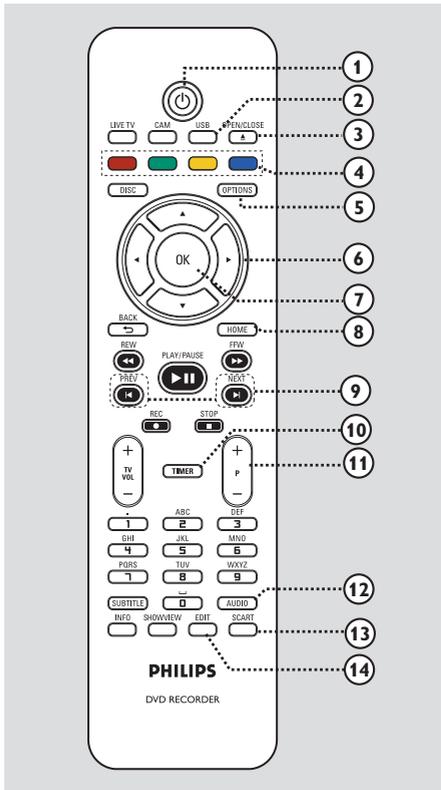
## ⑨ **CAM2 (DV IN)**

- Connector for digital camcorders (also known as FireWire or IEEE1394).

## ⑩ **USB**

- Connector for USB flash drive or digital camera.  
\* Not all brands and models of digital cameras are supported, except for those compliant with the PTP standard.

# Remote Control



- ① **Power**  
– Turns the recorder on or switch to standby mode.
- ② **USB**  
– Shows the content of the USB device.
- ③ **OPEN/CLOSE ▲**  
– Opens/closes the disc tray.
- ④ **Colour coded buttons**  
– These buttons can be used to select the coloured options available in some menus.

- ⑤ **OPTIONS**  
– Enters/ exits the Options menu.
- ⑥ **◀▶** : Cursor buttons for moving to the left/right.  
**▲▼** : Cursor buttons for moving up/ down.
- ⑦ **OK**  
– Confirms an entry or selection.
- ⑧ **HOME**  
– Enters/exits the recorder's Home menu.
- ⑨ **PREV ◀ / NEXT ▶**  
– Skips to the previous or next chapter/ track.
- ⑩ **TIMER**  
– Enters/ exits the timer recording menu.  
OR  
**VIDEO Plus+ / TV Guide (For UK only)**  
– Enters/exits the on-screen TV Guide menu and PlusCode menu.
- ⑪ **P + –**  
– In live TV or camcorder mode, selects the next or previous TV channel or the external input source (CAM1, EXT1 or EXT2).

- ⑫ **AUDIO**  
– Selects an audio language/ channel.
- ⑬ **SCART**  
*(only effective when your TV is connected to EXT1 of your recorder with the Scart cable).*  
– Switches to the device that is connected to the EXT2 Scart connector on your recorder. If no device is connected to EXT2, it will switch to TV mode instead. To switch back to recorder mode, press this button again.
- ⑭ **EDIT**  
– Enters/exits the disc editing menu.

## Remote Control (continued)

### 15 CAM

- Access the camcorder mode for camcorder recording.
- In camcorder mode, press **P** + / - repeatedly to select the required input source (CAM1, CAM2, EXT1 or EXT2).

### 16 LIVE TV

- Switches to Tuner mode.
- Press repeatedly to switch between analogue TV, digital TV, digital radio (DVB-T radio).

### 17 DISC

- Shows the content of the disc.

### 18 BACK

- Returns to the previous menu.

### 19 REW ◀◀ / FFW ▶▶

- Fast reverse or fast forward search.

### 20 PLAY/PAUSE ▶▶

- Starts or pauses playback of any recorded disc.

#### STOP ■

- Stops playback/ recording.

#### REC ●

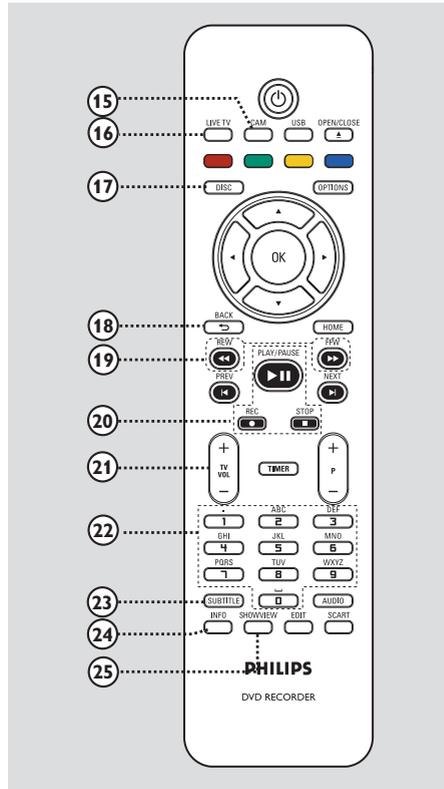
- Starts recording the currently viewed TV programme. Press repeatedly to set the recording length in 30-minute increments.

### 21 TV VOL + -

- Adjusts the volume of the TV (for Philips TVs with compatible brands only).

### 22 Alphanumeric keypad

- Use to enter numbers or letters (using SMS style entry).
- Selects a chapter/track/title number to play.
- Selects the recorder's preset tuner channel.



### 23 SUBTITLE

- Selects a DVD subtitle language.

### 24 INFO

- Displays on-screen information.

### 25 SHOWVIEW

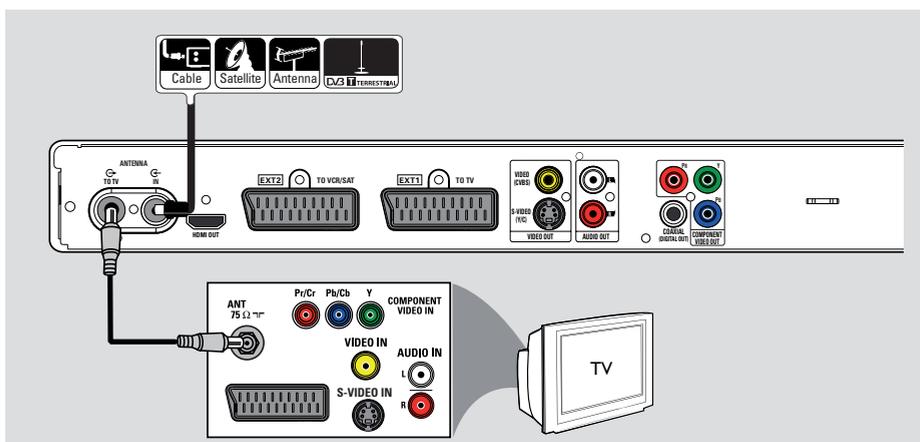
- Enters/exits the SHOWVIEW® menu.  
OR

**TEXT** (interactive teletext - for UK only).

- Enters/ exits the MHEG service.



## Step 1: Basic Recorder Connections



### Connecting the antenna cables

These connections enable you to watch and record TV programmes using this recorder. If the antenna signal is connected via a Cable Box or Satellite Receiver, ensure that these devices are turned on in order to watch or record the cable programmes.

This recorder is equipped with a hybrid analogue-digital tuner for TV reception. You can connect your indoor digital terrestrial antenna to receive digital TV broadcast.

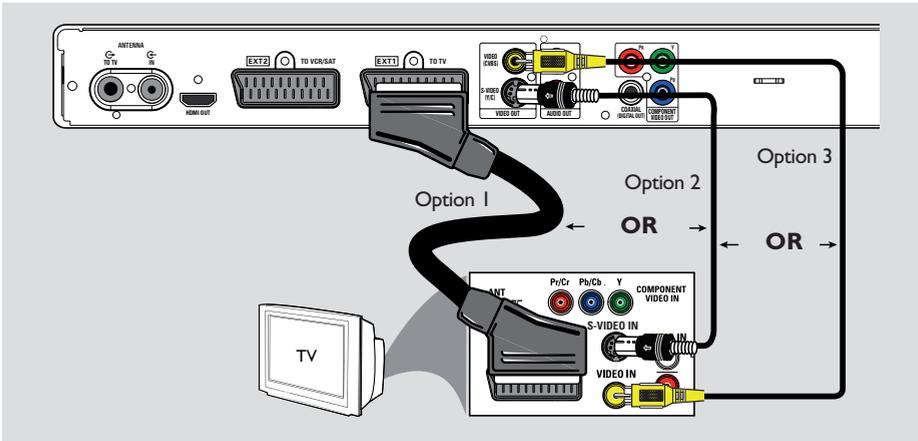
- **If you want to connect to a VCR and/or a separate Cable Box/Satellite Receiver**, read chapter “Step 2: Optional Connections” for details.

- 1 Connect the existing Antenna/ Cable TV signal (or from the Cable Box/Satellite Receiver {RF OUT or TO TV}) to the **ANTENNA-IN** socket on the recorder.
- 2 Connect the supplied RF antenna cable from the **ANTENNA TO TV** socket on the recorder to the antenna input socket (or labelled as VHF/UHF RF IN) on your TV.

#### Helpful Hint:

– Depending on how you have currently connected your TV channel (directly from an off-air antenna or cable box or VCR), you'll have to disconnect some of the cables before you make the antenna connection.

## Step I: Basic Recorder Connections (continued)



### Connecting the video cable

This connection enables you to view the playback from this recorder. You only need to choose **one** of the options below to make your video connection.

- For a standard TV, follow options 1, 2 or 3.
- For a progressive scan TV, follow option 4.
- For a HDMI TV, follow option 5.

#### Helpful Hint:

– Audio connection is required if you are using the Y Pb Pr, S-VIDEO or CVBS socket to connect your TV. Read chapter “Connecting the audio cables” for details.

#### Option 1: Using the Scart socket

- Connect the scart cable from the **EXT1 TO TV** socket on the recorder to the corresponding SCART input socket on the TV.

#### Helpful Hint:

– Use the **EXT2 TO VCR/SAT** socket to connect the recorder to additional device.

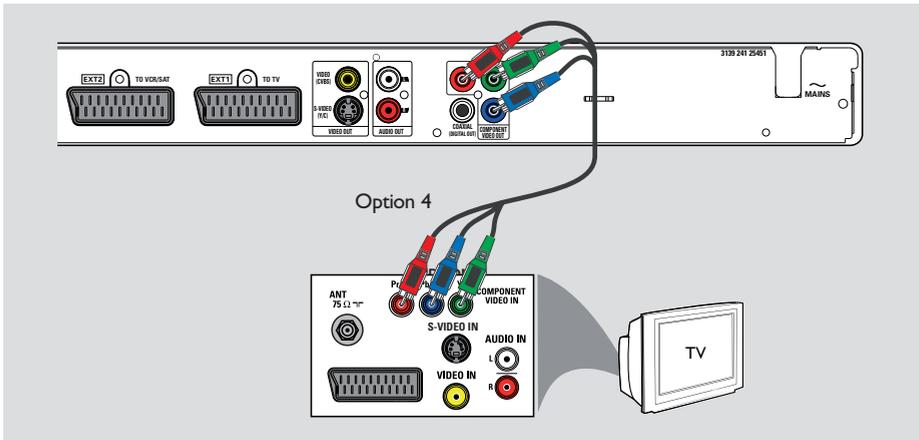
#### Option 2: Using the S-Video socket

- Connect an S-video cable (not supplied) from the **S-VIDEO (Y/C)** socket on the recorder to the S-Video input socket (usually labelled as Y/C or S-VHS) on the TV.

#### Option 3: Using the Video (CVBS) socket

- Connect a composite video cable (yellow - not supplied) from the **VIDEO (CVBS)** socket on the recorder to the video input socket (usually labelled as A/V In, Video In, Composite or Baseband) on the TV.

## Step I: Basic Recorder Connections (continued)



### Option 4: Using Component video socket / Connecting to a Progressive Scan TV

If your TV accepts progressive scan signals, connect the recorder to your TV using the component video sockets in order to enjoy the progressive scan feature.

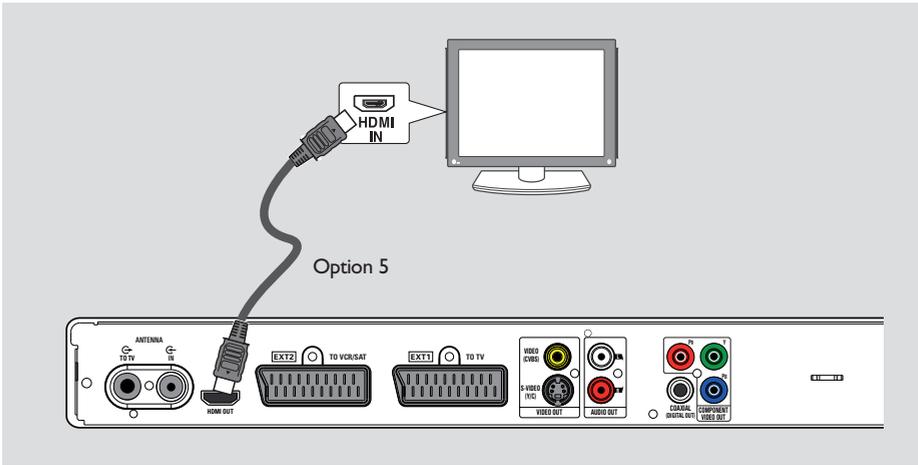
- Connect the component video cables (red/ blue/green - not supplied) from the **Y Pb Pr** sockets on the recorder to the corresponding component video input sockets (usually labelled as Y Pb/Cb Pr/Cr or YUV) on the TV.

### Note:

To enable Y Pb Pr (YUV) connection, you must set the recorder's video output correctly. To access the recorder's settings for the first time, basic video connection (Scart, S-Video or CVBS) is required.

- 1 Connect this recorder to your TV using Scart, S-Video or Video (CVBS) connection.
- 2 Complete chapters "Step 2: Optional Connections" and "Step 3: Installation and Set-up" in this user manual, then change the video output setting as follows:
  - 1) Press **HOME**.
  - 2) Select { **Settings** } > { **Video output** } > { **Active video output** } > { **Comp. video (YUV)** } and press **OK** to confirm.
- To activate Progressive Scan output, read chapter "Other information - Setting up Progressive Scan feature" for details.
- 3 Switch your TV to the correct viewing channel for this connection.

## Step I: Basic Recorder Connections (continued)



### Option 5: Connecting to a HDMI-compatible TV

HDMI (High Definition Multimedia Interface) is a digital interface that supports both audio and video transmission on a single cable. Thus, there is no loss of audio and video quality.

- Connect a HDMI cable from the **HDMI OUT** on this recorder to the HDMI IN on a HDMI-compatible device (e.g., HDMI TV, HDCP compliant DVI TV).

#### Helpful Hints:

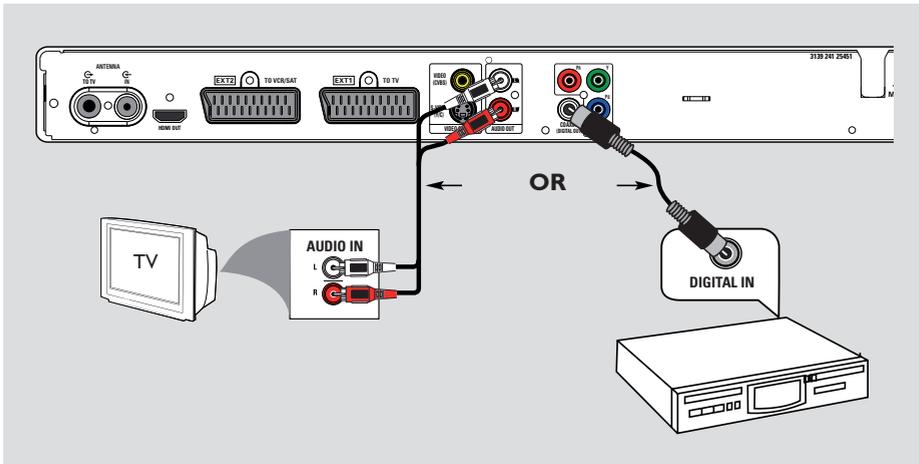
- Some HDMI TVs/ monitors from different manufacturers may adhere to different standards resulting in unreliable signal transfers.
- The HDMI connector is only compatible with HDMI compliant devices and DVI-TVs.

#### Note:

To enable HDMI connection, you must set the recorder's video output correctly. To access the recorder's settings for the first time, basic video connection (Scart, S-Video or CVBS) is required.

- 1 Connect this recorder to your TV using Scart, S-Video or Video (CVBS) connection.
- 2 Complete chapters "Step 2: Optional Connections" and "Step 3: Installation and Set-up" in this user manual, then change the video output setting as follows:
  - 1) Press **HOME**.
  - 2) Select { **Settings** } > { **Video output** } > { **Active video output** } > { **HDMI output** } and press **OK** to confirm.
- 3 Switch your TV to the correct viewing channel for this connection.

## Step I: Basic Recorder Connections (continued)



### Connecting the audio cables

This connection enables you to listen to the playback from this recorder. However, this connection is not required if this recorder is connected to the TV using the Scart or HDMI connector.

#### Option 1: Using the analogue audio sockets

You can connect the recorder to a two channel stereo system (mini system, TV) or receiver in order to enjoy the stereo sound system.

- Connect an audio cable (red/white - not supplied) from the **AUDIO L/R** sockets to the audio input sockets of the connected device.

#### Option 2: Using the digital audio socket

You can connect the recorder to an AV amplifier/receiver in order to enjoy multichannel surround sound.

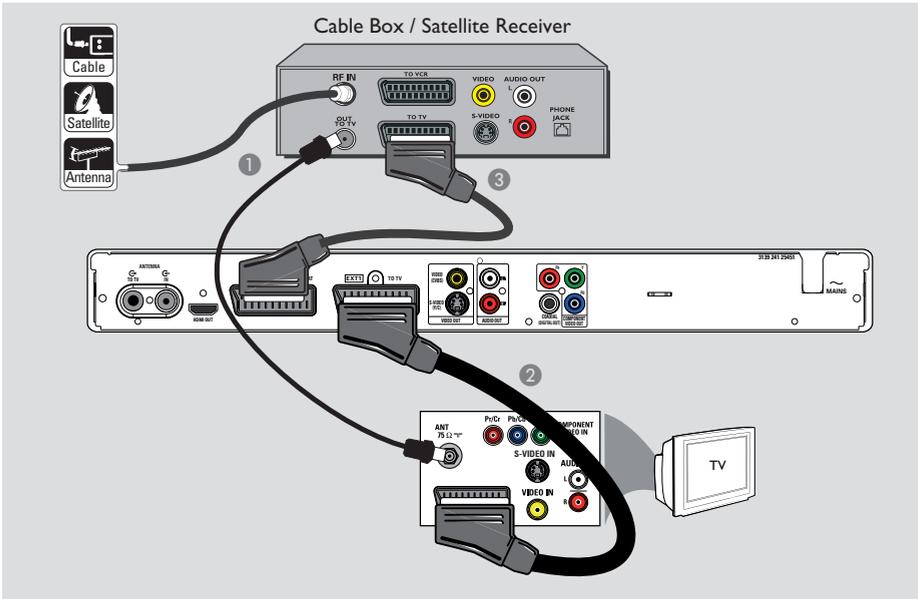
- Connect a coaxial cable (not supplied) from the **COAXIAL (DIGITAL OUT)** socket to the digital coaxial input socket (or labelled as COAXIAL IN or DIGITAL IN) of the connected device.

#### Helpful Hint:

– You have to select the appropriate Digital Audio Output setting. Alternatively, no sound or interference may occur. Read chapter “System Menu Options - Audio output settings” for details.

## Step 2: Optional Connections

English



### Connecting to a Cable Box or Satellite Receiver

#### *Option 1*

If your Cable Box/Satellite Receiver has only an antenna output socket (RF OUT or TO TV),

read chapter “Step 1: Basic Recorder Connections - Connecting the antenna cables” for details.

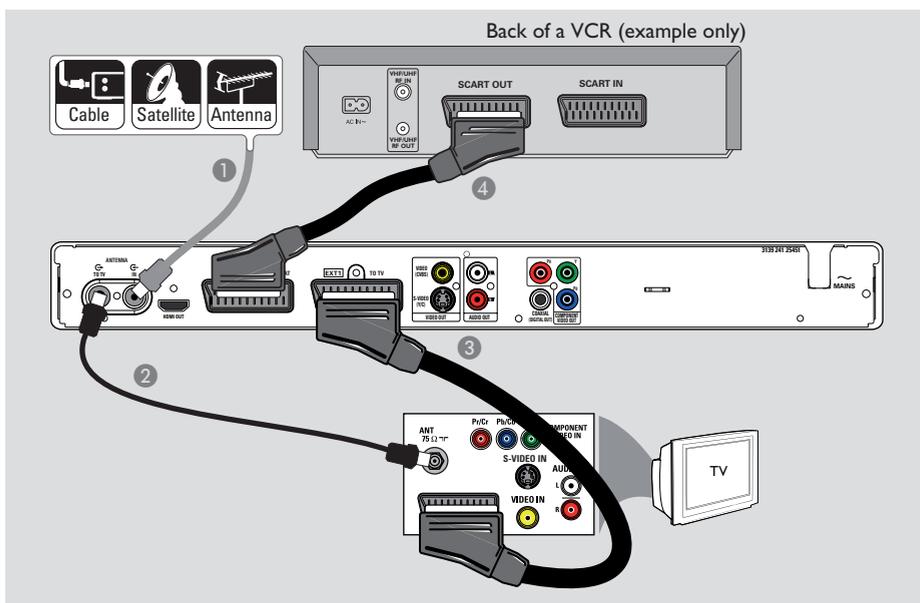
#### *Option 2 (as shown on the above illustration)* If your Cable Box/Satellite Receiver has a Scart output socket

- 1 Keep the existing antenna connection from the Cable Box/Satellite Receiver to your TV.
- 2 Connect the scart cable from the **EXT1 TO TV** socket on the recorder to the corresponding SCART input socket on the TV.
- 3 Connect another scart cable from the **EXT2 TO VCR/SAT** socket on the recorder to the Scart output socket (usually labelled as TV OUT or TO TV) on the Cable Box/ Satellite Receiver.

#### *Helpful Hint:*

– If your TV is connected to the recorder via the COMPONENT VIDEO (Y Pb Pr) sockets, connect the external cable box/satellite receiver to the EXT1 TO TV socket.

## Step 2: Optional Connections (continued)



### Connecting to a VCR or other similar device

This connection allows you to record from a video tape to a DVD recordable disc. It also allows the VCR to be used for playback if the recorder is turned off.

#### IMPORTANT!

**Your new recorder can replace the VCR for all your recording needs. Just unplug all the connections to your VCR.**

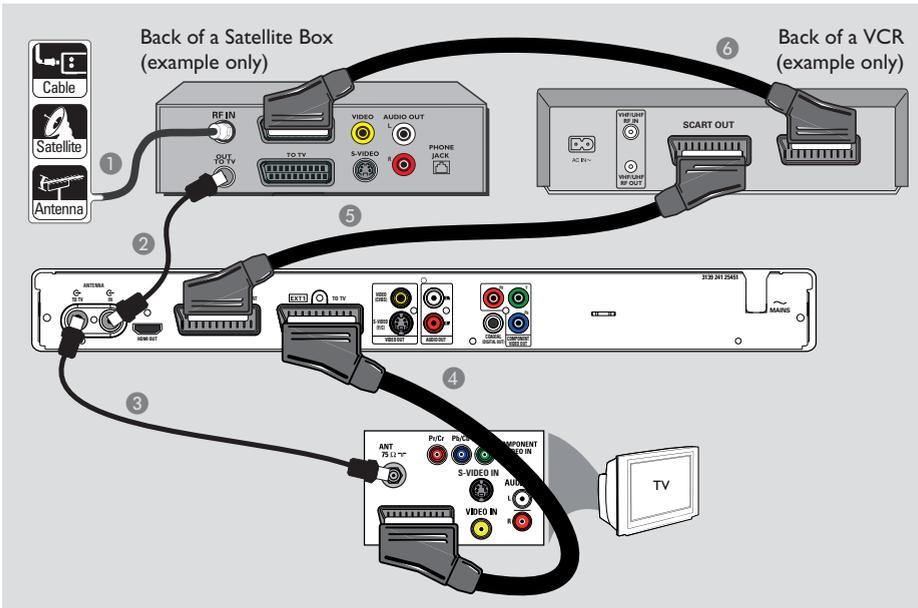
- 1 Connect the existing Antenna/Satellite Receiver/Cable TV signal (usually labelled as RF OUT or TO TV) to the **ANTENNA IN** socket on the recorder.
- 2 Connect the supplied RF antenna cable from the **ANTENNA TO TV** socket on the recorder to the antenna input socket (usually labelled as VHF/UHF RF IN) on your TV.

- 3 Connect the scart cable from the **EXT2 TO TV** socket on the recorder to the corresponding SCART input socket on the TV.
- 4 Connect another scart cable from the **EXT2 TO VCR/SAT** socket on the recorder to the Scart output socket (usually labelled as TV OUT or TO TV) on the VCR.

#### Helpful Hints:

- Most commercial video cassettes and DVDs are copy-protected and therefore cannot be recorded.
- Connect the recorder directly to the TV. If there is a VCR or an additional device in between, the picture quality may be poor because of the copy protection system built into this recorder.

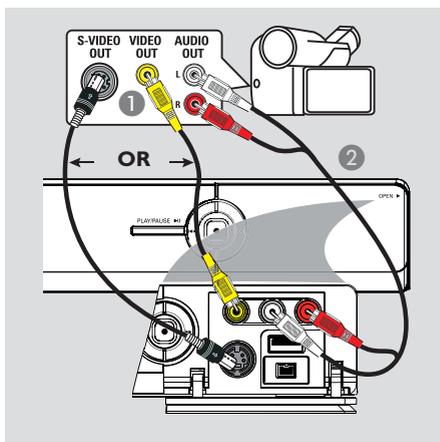
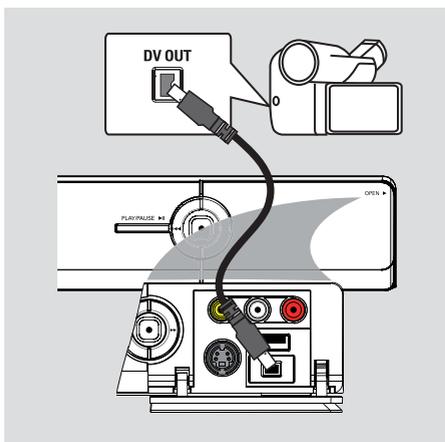
## Step 2: Optional Connections (continued)



### Connecting to a VCR and Cable Box/Satellite Receiver

- 1 Keep the existing antenna connection to the Cable Box/Satellite Receiver.
- 2 Connect the supplied RF antenna cable from the antenna output (RF OUT) socket on the Cable Box/Satellite Receiver to the **ANTENNA IN** socket on the recorder.
- 3 Connect another RF antenna cable from the **ANTENNA TO TV** socket on the recorder to the antenna input socket on the TV.
- 4 Connect the scart cable from the **EXT1 TO TV** socket on the recorder to the corresponding SCART input socket on the TV.
- 5 Connect another scart cable from the **EXT2 TO VCR/SAT** socket on the recorder to the SCART input socket (usually labelled as TV OUT or TO TV) on the VCR.
- 6 Connect another scart cable from the Scart input socket (usually labelled as TV IN or TO DECODER) on the VCR to the SCART output socket (usually labelled as TV OUT or TO VCR) on the Cable Box/ Satellite Receiver.

## Step 2: Optional Connections (continued)



### Connecting to a camcorder

You can use the front sockets to copy camcorder recordings. These sockets are located behind the flap on the right hand side which provides convenient connections.

#### Option 1: Using the DV IN socket

Use this connection if you have a Digital Video or Digital 8 camcorder. The DV socket conforms to the i.LINK standard. It provides the best picture quality.

- Use an i.LINK 4-pin cable (not supplied) from the **DV IN** socket on the recorder to the appropriate DV OUT socket on the camcorder.  
→ Press **CAM** on the remote control to select 'CAM2' when using this input source.

#### Helpful Hint:

– It is not possible to record from this recorder to your camcorder via the DV IN socket on your recorder.

#### Option 2: Using the S-VIDEO In or VIDEO In socket

Use the S-VIDEO connection if you have a Hi8 or S-VHS(C) camcorder.

Alternatively, use the VIDEO connection if your camcorder has only a single video output (Composite Video, CVBS).

- 1 Connect the **S-VIDEO** or **VIDEO** socket on the front panel of the recorder to the corresponding S-VHS or Video output socket on the camcorder.  
→ Press **CAM** on the remote control. Press **P + / -** to select 'CAM1' as the required input source.
- 2 Use an audio cable (red/white - not supplied) to connect the **L-AUDIO-R** sockets on the front panel of the recorder to the audio output socket on the camcorder.

#### Helpful Hint:

– If you connect your camcorder to the scart socket at the rear of this recorder, select { EXT1 } or { EXT2 } as the input source.

## Step 3: Installation and Set-up

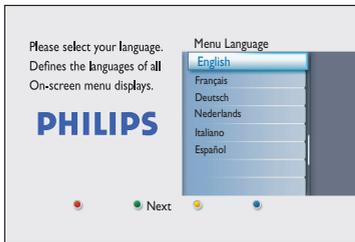
The installation menu will appear the very first time you turn on this recorder. These settings will help you set up the basic recorder features easily, including TV programme installation and language settings.

### IMPORTANT!

**Complete the installation settings before inserting a disc for playback or recording. The disc tray will not open until the initial installation is completed.**

- 1 Turn on the TV.
  - Your TV should show the recorder's initial installation screen now - { **Menu Language** } screen.
  - Alternatively, select the correct video input on your TV. Refer to your TV's user manual on how to select the correct video input on your TV.

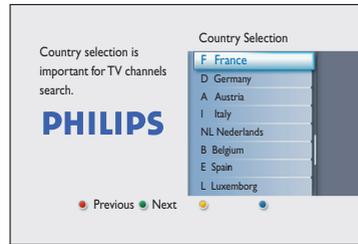
**Note:** Ensure that you have made all required connections to the recorder and turned on the AC power. The recorder will be turned on automatically. Alternatively, press **STANDBY-ON**  to turn it on.



- 2 Use **▲▼** keys on the remote control to select the desired on-screen display language and press **OK** to confirm.

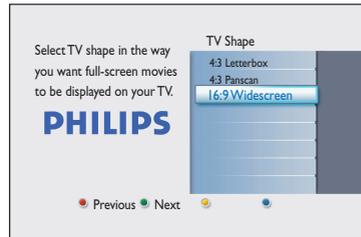
- 3 The Country Selection screen appears on the TV. Move the selection bar to the country you live in and press **OK** to confirm.

→ This setting is important for automatic installation of TV channels in your area.



**Note:** Press the **Red** button on the remote control to return to the previous screen. Or, press the **Green** button to proceed to the next installation step.

- 4 The TV shape screen appears on the TV. Select the appropriate TV shape in the way you want the wide-screen movies to be displayed and press **OK** to confirm.



4:3 PanScan (PS)



4:3 LetterBox (LB)



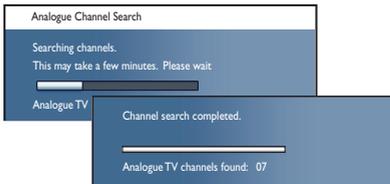
16:9 (Widescreen)

## Step 3: Installation and Set-up (continued)

- 5 The Channel Search screen appears on the TV. Press **OK** to start auto channel search.  
→ The recorder will start the analogue channel search, followed by digital channel search (TV and radio).

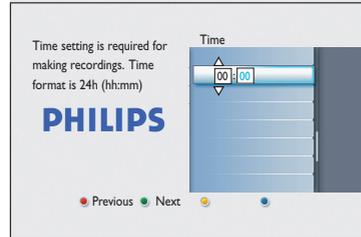


**Note:** Ensure that you have successfully made all required connections to this recorder, the TV and Satellite Receiver/Cable Box (if any) and turned them on. The channel search will detect the signals and save all the available programme channels.

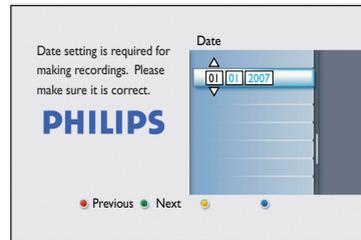


- 6 After the channel search is finished, the number of found and stored channels appears (analogue TV, digital TV and digital radio). Press **OK** to continue.

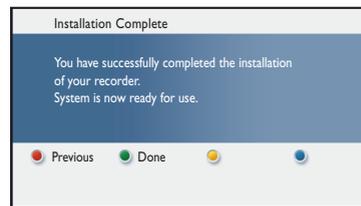
- 7 The Time entry screen appears. Use the **alphanumeric keypad 0-9** or **▲▼** keys to enter the correct time, then press **OK** to confirm.



- 8 The Date entry screen appears. Use the **alphanumeric keypad 0-9** or **▲▼** keys to enter the correct date, then press **OK** to confirm.



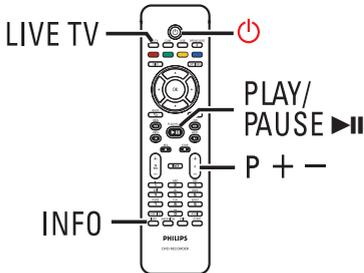
- 9 The installation is now completed. Press **OK** on the remote control to exit the screen.



**The DVD recorder is now ready for use.**

## View TV Programmes

### Viewing live TV



- 1 Turn on the TV. Switch the TV to the correct input for viewing the recorder's playback.
- 2 Press **STANDBY-ON**  to turn on this recorder.
- 3 Press **LIVE TV** repeatedly to toggle between analogue tuner (Axxx), digital tuner (Dxxx) and digital radio tuner (Rxxx).  
→ 'X' denotes the channel number.
- 4 Press **P + / -** to select a desired TV/radio channel of the selected tuner.

### Watching digital TV/ radio broadcast

This DVD recorder can receive free-to-air DVB-T (Digital Video Broadcast-Terrestrial) and radio stations. As new services are added over time, conduct regular updates to install new channels. Read chapter "System Menu Options - Tuner settings - { Digital Install }" for details.

- 1 Press **LIVE TV** repeatedly to switch to a digital TV or radio channel.
- 2 Press **P + / -** to select a desired channel of the selected tuner.
- 3 While watching digital TV/radio broadcast, the following options are available:

#### Change the subtitle/audio language

This operation works only for broadcasts with multiple subtitle/audio languages.

- Press **AUDIO** or **SUBTITLE** on the remote control.

#### Display the programme information

(For UK only)

- 1 Press **INFO** on the remote control to display programme information screen.



- 2 Press the **Blue** button for { **Now/Next** }.  
→ The display shows an information box showing the description of the current programmes.
- 3 To view the next day programme, press the **Blue** button for { **Next** }.
- To return to the previous page, press the **Red** button for { **Back** }.

## Using the TV Guide – UK Only

### Viewing digital text service – MHEG

Many digital TV channels broadcast information via their text service. This digital service includes high quality digital text and graphics along with advanced navigation options.

MHEG can only be activated if no subtitles are shown on the screen.

#### Before you start...

Ensure the subtitle option is turned off.

- 1 Press **LIVE TV** repeatedly until 'DXXX' appears at the top of the screen.
- 2 Press **TEXT** or the **Red** button on the remote control.
- 3 Once the text information is displayed, you can use the ◀▶▲▼ keys, coloured coded buttons, and/ or the **alphanumeric keypad 0-9** on the remote control to access the required information.  
→ The appearance, content and navigation methods of all digital text services are determined by the broadcaster.
- 4 Press **TEXT** again to exit.

#### Helpful Hint:

– Not all TV channels transmit interactive television applications at all times.

### Using the TV guide

The TV guide is an easy-to-use on-screen programme guide that lists all the digital TV programmes available in your area. The information is sent together with your TV signal and updated automatically daily.

#### Note:

This feature is only available in the United Kingdom.

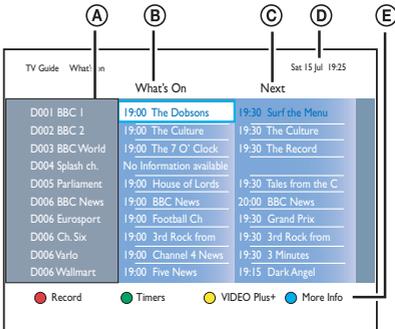


- 1 Press **TV guide** on the remote control.
- 2 To exit, press **TV guide**.

## Using the TV Guide – UK Only (continued)

### Display TV programme information

The 'What's on' list displays what is currently broadcasting on TV and upcoming TV programmes. You can view up to 7 (seven) days of TV programmes.



- Ⓐ List of channels.
- Ⓑ List of the TV programmes currently in broadcast.
- Ⓒ List of TV programmes that follow the current ones. Press ► to see the rest of TV programmes following these.
- Ⓓ Current date and time.
- Ⓔ Quick access features using the colour coded buttons on the remote control.
  - Red button – schedule for recording.
  - Green button – show scheduled recordings information.
  - Yellow button – go to VIDEO Plus+® entry screen. (Available in some countries).
  - Blue button – view detailed information on the highlighted programme.

### To watch the current broadcast TV programme

- Press **OK**.

### To view the TV listings for the next day

- Press ►►.
- Press ◀◀ to move to the previous day.

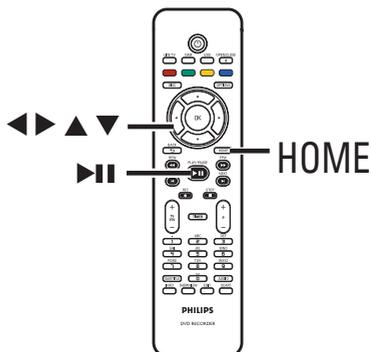
### To view more information on a selected programme

- At the highlighted programme, press the **Blue** button.
- To exit, press the **Blue** button again.

## Using the Home menu

### About the Home menu

The Home menu is the starting point for all functions on this DVD recorder. It provides access to the disc loaded in the tray, any connected USB flash drive or go to the on-screen TV Guide.



- 1 Press **HOME** on the remote control.  
→ The Home menu appears.



- 2 Press **▲▼** repeatedly to select a desired media or function and press **OK** to confirm.

#### { Disc Tray }

- To access the contents of the disc. In case the tray is empty, nothing will be shown.

#### { Tuner }

- To view live TV.

#### { USB }

- To access the contents of the connected USB flash drive or camera. In case there is no device connected or the device is not detected by the recorder, nothing will be shown.

#### { TV Guide } (For UK only)

- To access the on-screen TV Guide or to manually program a timer.

#### { Settings }

- To access the system settings menu.

- 3 Use **◀▶▲▼** keys to select recordings, audio/video files or photos.
- 4 Press **▶||** to start playback.

## Before Recording

### Recording media

The recording media for this recorder are DVD±R, DVD±RW and DVD+R DL discs.



#### DVD±RW (DVD Rewritable)

- Discs that are rewritable can be used for multiple recordings once the existing data is erased.



#### DVD±R (DVD Recordable)

- Discs can only be used for a single recording. Each new recording is always added at the end of all previous recordings as existing recordings cannot be overwritten.
- Editing can be done on DVD±R discs as long as they have not been finalised.
- You can also delete unwanted recordings. However, the disc space occupied by the deleted recordings cannot be recovered for further recording.
- To play a DVD±R disc on other DVD players, it must be finalised. After this is done, no more data can be added to the disc. Read chapter “Edit Recordings - Recordable DVD - Finalising the DVD±R for playback” for details.



#### DVD+R DL (DVD+R Double Layer)

- It contains the same usage as DVD+R, the only difference is the capacity of 8.5 GB. It offers two recordable layers on a single DVD disc. The layers are accessible from the same side of the disc, so recording can occur completely uninterrupted.

#### Supported disc type and media speeds

Disc	Media speeds
DVD+R	1x - 16x
DVD+RW	2.4x - 8x
DVD-R	1x - 16x
DVD-RW	2.4x - 6x
DVD+R DL	2.4x

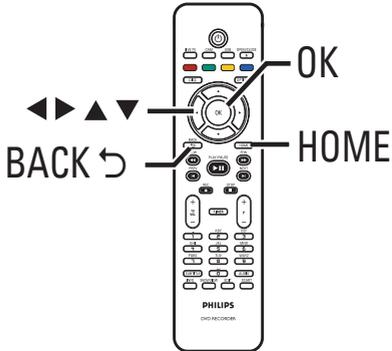
#### Helpful Hint:

- In some cases where the recordable DVD contains recordings made on another DVD recorder, you may not be able to add new recordings to it.

## Before Recording (continued)

### Default recording settings

You can preset your record settings in the recording setup menu.



- 5 Press **OK** to confirm any new settings.
- To return to the previous menu screen, press **BACK**.
- 6 To exit, press **HOME**.

#### Helpful Hint:

– The recording picture quality changes according to the record mode selected.

- 1 Press **HOME** on the remote control.  
→ The Home menu appears.
- 2 Select { **Settings** } and press ►.  
→ The system settings menu appears.

Settings	Recording
Language	Record mode
Recording	Chapters
Playback	
Video output	
Audio output	
Tuner	
Setup	

- 3 Select { **Recording** } and press ►.
- 4 Use ▲▼ keys to select the setting you wish to change and press ► to access its options.  
→ Instructions and explanations of the options are provided in the following pages.  
→ If the selection in the menu is greyed out, that means the feature is not available or not possible to change at the current state.

## Before Recording (continued)

### Recording settings (underlined options are the factory default settings)

#### **Record Mode**

The recording mode defines the picture quality of recordings and the maximum recording time.

Record Mode	Hours of recording that can be stored on an empty DVD recordable disc.	
	DVD±R/ DVD±RW	DVD+R Double Layer
<b>HQ</b> (high quality)	1	1 hr 55 mins
<b>SP</b> (standard play)	2	3 hrs 40 mins
<b>SPP</b> (standard play plus)	2.5	4 hrs 35 mins
<b>LP</b> (long play)	3	5 hrs 30 mins
<b>EP</b> (extended play)	4	7 hrs 20 mins
<b>SLP</b> (super long play)	6	11 hrs 5 mins
<b>SEP</b> (super extended play)	8	14 hrs 45 mins

**Important!** During recording, it is not possible to select another recording mode. The factory default setting is **SPP**.

#### **Chapters**

Automatically divides a recording (title) into chapters by inserting chapter markers at specific intervals. This allows you to access a specific point in the recording quickly.

- { **Off** } – No chapter marker is inserted in the recording.
- { **Standard** } – Chapter markers are inserted automatically during recording at approximately 5 (five) minutes interval.
- { **Smart** } – This setting is only available for DV camcorder recording. A chapter marker is inserted whenever there is a break in the recording, for example, when the recording is stopped or paused and restarted again.

**Note:** During the recording from an external device, press the **OK** button to create a chapter marker at the specific point.

# Record TV Programmes

## IMPORTANT!

Contents with copy protection cannot be recorded on this recorder.

## Record current TV programme

Follow the instructions below to record TV programmes to a DVD recordable disc for future viewing.

- 1 In live TV mode, press **REC** ● on the remote control.  
→ The current TV channel will be recorded.
- Press **REC** ● to set the recording time length. Each subsequent press increases the recording time by 30 minutes. (The maximum recordable hours depends on available disc space and the selected record mode).
- 2 To stop recording before the scheduled time, press **STOP** ■.

### Helpful Hint:

– You can watch another TV programme by using the TV remote control to select a different channel. Remember to turn the TV back to its video input channel if you want to watch the TV channel through the recorder or playback the recorded disc.

## About timer recording

Use the timer recording to automatically start and stop a recording at a later date/time. This recorder will tune to the correct programme channel and begin recording at the specified time.

With this recorder, you can schedule up to **30 recordings** at a time. During timer recording, it is not possible to change the recorder's channel.

### There are several ways to program a timer recording:

- Using the TV Guide (For UK only).
- Using the SHOWVIEW®/ VIDEO Plus+® system.
- Using the manual timer recording.



## About 'VPS/PDC'

'VPS' (Video Programming System) or 'PDC' (Programme Delivery Control) is used to control the start and duration of TV channel recordings. If a TV programme starts earlier or ends later than was scheduled, this recorder will then turn on and off at the correct time.

**Note:** 'PDC' (Programme Delivery Control) is not available to users in the UK. Any reference made to this feature is not valid in the UK.

## Record TV Programmes (continued)

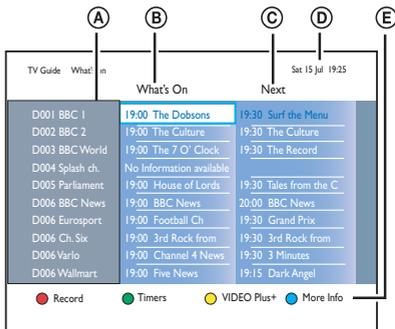
### Timer recording (For UK only)

Users in the United Kingdom can schedule a timer recording by using the TV Guide, selecting a PlusCode number or manually set a recording schedule.

#### Timer recording - using the TV Guide

To schedule a recording with the TV guide, simply select the desired programme from the channel list.

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Press **HOME** on the remote control.
- 3 Select { **TV Guide** } in the menu and press **OK**.



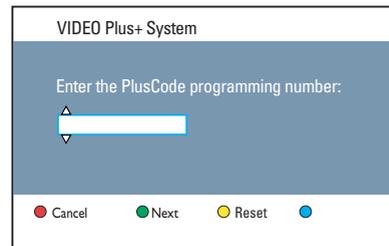
- 4 Use **◀▶▲▼** keys to select an upcoming TV programme which you wish to record, then press the **Red** button on the remote control.  
→ The **'TIMER'** icon will light up on the display panel if a timer recording is set.

#### Timer recording - VIDEO Plus+® System

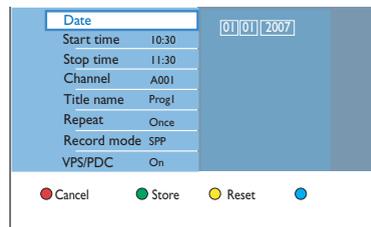
This is a simple timer programming system. To use, enter the PlusCode programming number associated with your television programme. You can find this number in your TV listings magazine or TV Guide menu.

All the information needed by this recorder for programming is contained in the programming number.

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Press **TV guide** on the remote control.
- 3 Press the **Yellow** button.



- 4 Use **▲▼** keys or the **alphanumeric keypad 0-9** to enter the PlusCode programming number for the show you wish to record and press **OK**. (e.g. : 5-312-4 or 5,312 4, key in '53124').
- To cancel the PlusCode programming number, press the **Red** button on the remote control.
- 5 To confirm your entry, press **OK** on the remote control.



## Record TV Programme (continued)

### { Date }

Enter the date for recording (Day/ Month/Year).

### { Start time }

Enter the start time of recording (hours : minutes).

### { Stop time }

Enter the end time of recording (hours : minutes).

### { Channel }

- Select the recording source (Analogue TV, Digital TV or External).
- Select the TV channel/external source.

### { Title name }

Name of the recording.

### { Repeat }

Select a desired repeat recording setting (Once, Daily, Weekly, Mon~Fri).

### { Record mode }

Select the recording mode. See the chapter “Recording – Record settings - { Record mode }” for more information.

### { VPS/PDC }

Turn on or off the VPS/PDC setting.

- 6 Select the entry field and press ►.
- 7 Use ▲▼ keys or the **alphanumeric keypad 0-9** to select or enter the recording information, then press **OK** to confirm.
- 8 Once complete, press the **Green** button for { **Store** }.
- 9 To exit, press **HOME**.
  - The **'TIMER'** icon will light up on the display panel if a timer recording is set.
  - If the recorder is not in standby mode, a notification message will appear before the timer recording begins.
  - If you ignore the warning, the recorder will automatically switch to the respective channel and start recording.

### Timer recording - Manual entry

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Press **TV guide** on the remote control.
  - Press the **Green** button.
    - The timer recording screen appears.



- 3 Select { **New Timer** } in the menu and press **OK**.



### { Date }

Enter the date for recording (Day/Month/Year).

### { Start time }

Enter the start time of recording (hours : minutes).

### { Stop time }

Enter the end time of recording (hours : minutes).

### { Channel }

- Select the recording source (Analogue TV, Digital TV or External).
- Select the TV channel/external source.

### { Title name }

Name of the recording.

## Record TV Programmes (continued)

### { Repeat }

Select a desired repeat recording setting (Once, Daily, Weekly, Mon~Fri).

### { Record mode }

Select the recording mode. See the chapter "Recording – Record settings - { Record Mode }" for more information.

### { VPS/PDC }

Turn on or off the VPS/PDC setting.

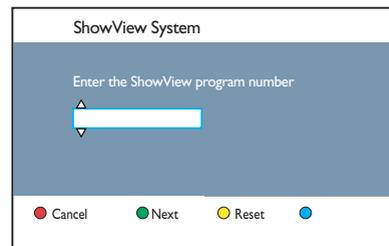
- 6 Select the entry field and press ►.
- 7 Use ▲▼ keys or the **alphanumeric keypad 0-9** to select or enter the recording information, then press **OK** to confirm.
- 8 Once complete, press the **Green** button for { **Store** }.
- 9 To exit, press **HOME**.
  - The 'TIMER' icon will light up on the display panel if a timer recording is set.
  - If the recorder is not in standby mode, a notification message will appear before the timer recording begins.
  - If you ignore the warning, the recorder will automatically switch to the respective channel and start recording

## Timer recording - SHOWVIEW® System

This is a simple timer programming system. To use, enter the SHOWVIEW® programming number associated with your television programme. You can find this number in your TV listings magazine or TV Guide menu.

All the information needed by this recorder for programming is contained in the programming number.

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Press **SHOWVIEW** on the remote control.



- 3 Use ▲▼ keys or the **alphanumeric keypad 0-9** to enter the SHOWVIEW® programming number for the show you wish to record and press **OK**. (e.g., : 5-312-4 or 5,312 4, key in '53124').
  - To cancel the SHOWVIEW® programming number, press the **Red** button on the remote control.
- 4 To confirm your entry, press **OK** on the remote control.



## Record TV Programmes (continued)

### { Date }

Enter the date for recording (Day/ Month/Year).

### { Start time }

Enter the start time of recording (hours : minutes).

### { Stop time }

Enter the end time of recording (hours : minutes).

### { Channel }

- Select the recording source (Analogue TV, Digital TV or External).
- Select the TV channel/external source.

### { Title name }

Name of the recording.

### { Repeat }

Select a desired repeat recording setting (Once, Daily, Weekly, Mon~Fri).

### { Record mode }

Select the recording mode. See the chapter “Recording – Record settings - { Record Mode }” for more information.

### { VPS/PDC }

Turn on or off the VPS/PDC setting.

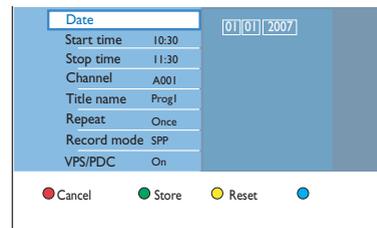
- 5 Select the entry field and press ►.
- 6 Use ▲▼ keys or the **alphanumeric keypad 0-9** to select or enter the recording information, then press **OK** to confirm.
- 7 Once complete, press the **Green** button for { **Store** }.
- 8 To exit, press **HOME**.  
 → The ‘**TIMER**’ icon will light up on the display panel if a timer recording is set.  
 → If the recorder is not in standby mode, a notification message will appear before the timer recording begins.  
 → If you ignore the warning, the recorder will automatically switch to the respective channel and start recording.

## Timer recording - Schedule manually

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Press **TIMER** on the remote control.  
 → The timer recording screen appears.



- 3 Select { **New Timer** } in the menu and press **OK**.



### { Date }

Enter the date for recording (Day/ Month/Year).

### { Start time }

Enter the start time of recording (hours : minutes).

### { Stop time }

Enter the end time of recording (hours : minutes).

### { Channel }

- Select the recording source (Analogue TV, Digital TV or External).
- Select the TV channel/external source.

### { Title name }

Name of the recording.

## Record TV Programmes (continued)

### { Repeat }

Select a desired repeat recording setting (Once, Daily, Weekly, Mon~Fri).

### { Record mode }

Select the recording mode. See the chapter "Recording – Record settings - { Record Mode }" for more information.

### { VPS/PDC }

Turn on or off the VPS/PDC setting.

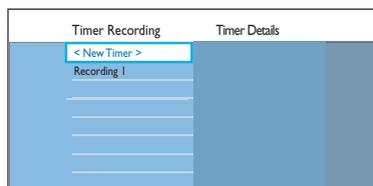
- 4 Select the entry field and press ►.
- 5 Use ▲▼ keys or the **alphanumeric keypad 0-9** to select or enter the recording information, then press **OK** to confirm.
- 6 Once complete, press the **Green** button for { **Store** }.
- 7 To exit, press **HOME**.
  - The 'TIMER' icon will light up on the display panel if a timer recording is set.
  - If the recorder is not in standby mode, a notification message will appear before the timer recording begins.
  - If you ignore the warning, the recorder will automatically switch to the respective channel and start recording.

## Changing/ Deleting a scheduled recording

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Press **TIMER** on the remote control.
  - The timer recording screen appears.

(For UK only)

- Press **TV guide** on the remote control.
- Press the **Green** button.
  - The timer recording screen appears.



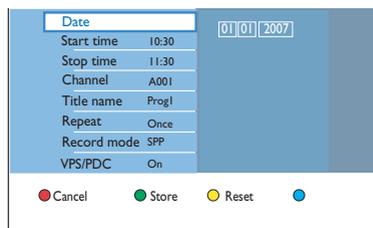
- 3 Select a scheduled recording which you want to delete/change.

### To delete the scheduled recording

- Press the **Red** button on the remote control for { **Delete** }.

### To change the scheduled recording

- Press **OK** to access the timer entry menu and make the necessary changes in the respective entry field.

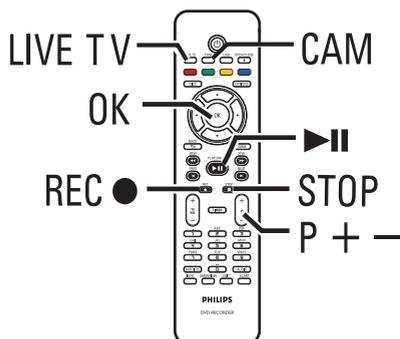


- 4 Once complete, press the **Green** button for { **Store** }.
- 5 To exit, press **HOME**.

## Record from external devices

### Recording from an external device (Camcorder/VCR/DVD player)

Record from the connected external device to a recordable DVD. Copy-protected material cannot be recorded on this recorder.



- 1 Turn on the TV to the correct viewing channel for the recorder (e.g., 'EXT', '0', 'AV').
- 2 Connect the external device (e.g., camcorder, VCR, DVD player) to this recorder.
- 3 Press **CAM** on the remote control.
- 4 Press **P +/–** repeatedly to select the correct input channel that matches the connected socket of the device.
  - { CAM 1 } : VIDEO socket or S-VIDEO socket on the front panel.
  - { CAM 2 } : DV IN socket on the front panel.
  - { EXT 1 } : EXT1 TO TV scart socket at the back.
  - { EXT 2 } : EXT2 TO VCR/SAT scart socket at the back.

- 5 Turn on the external device and find the place where you want the recording to begin, then set the external device to pause mode.
- 6 Press **REC ●** to start recording and start the external device playback.
  - To pause the recording, press **▶||**. To continue recording, press **▶||** again.
    - A new chapter marker is created after recording restarts (for recordable DVD only).
  - 7 To stop the recording, press **STOP ■**.
    - A new title will be created when you begin another recording.
  - 8 To exit, press **LIVE TV**.

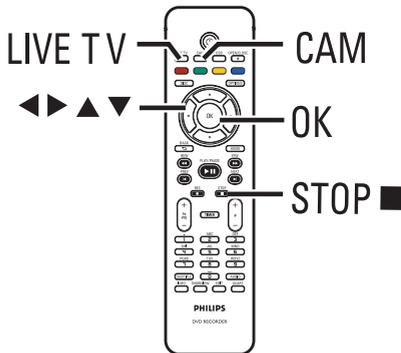
#### Helpful Hint:

– If 'No Signal' appears on the TV screen, it means that there is no video signal received from the current input channel.

## Record from external devices (continued)

### Recording from a DV Camcorder

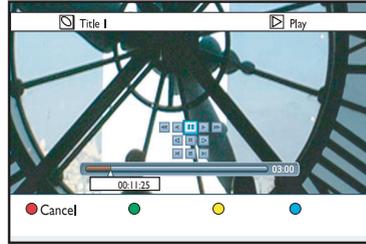
When you connect a DV camcorder to the DV IN socket of this recorder, you can control both the camcorder and this recorder using the recorder's remote control. Furthermore, the smart chaptering feature ensures the chapter markers are created at each break in the images.



- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Connect your Digital Video or Digital 8 camcorder to the **CAM2 (DV IN)** socket of this recorder.
- 3 Press **CAM** on the remote control.
- 4 Turn on the DV camcorder and start playback.



- 5 To use the recorder's remote control to control the camcorder's operation during recording, press the **Green** button on the remote control for { **DV control** }.  
→ The DV control buttons display on the screen.



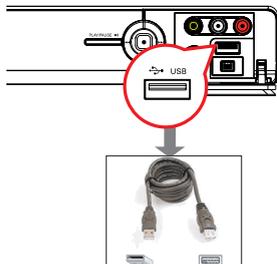
- 6 You can pause, play, stop, fast forward or rewind the scene using the ◀▶▶▶▼ keys on the recorder's remote control to select the respective control buttons on the screen.
- 7 To stop the recording, press **STOP** ■.  
→ Both the recorder and camcorder will stop.
- 8 To exit, press **LIVE TV**.

#### Helpful Hints:

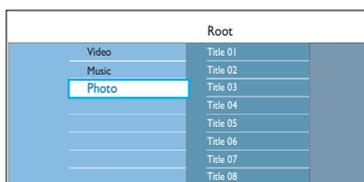
- Some camcorders cannot be controlled by on-screen DV control buttons.
- Mixing of PAL and NTSC video format recording on a same recordable DVD is not possible.
- If a part of the tape is blank, the recorder will pause recording. Recording will restart automatically when there is a recordable signal. However, if there is more than 5 (five) minutes of blank tape, the recording will end automatically.
- A chapter marker is inserted every time when there is a break in the time code on the DV tape. This happens when the recording is stopped or paused then restarted.

## Playback from USB device

View the contents of a USB flash drive/ USB memory card reader through this recorder.



- 1 Connect the USB flash drive/ USB memory card reader directly to the **USB** port on the front panel (as shown in the above illustration).
- 2 Press **USB** on the remote control to view the files stored in the USB flash drive or USB memory card reader.  
→ The content menu appears.



- 3 Select the file to play and press **▶||** to start playback.
- During playback, the available playback settings are displayed at the bottom of the screen.  
→ For more playback information, read chapter "Playing an audio CD (MP3/WMA)", "Playing a JPEG image file (slideshow)" or "Playing a DivX® disc", for details.

- 4 To stop playback, press **STOP ■** or remove the USB flash drive / USB memory card reader from the USB port.

### Helpful Hints:

- The USB port only supports the playback of JPEG/MP3/WMA/DivX® files.
- The USB port does not support the connection of other USB devices except to a USB flash drive / USB memory card reader.
- When the USB device does not fit into the USB port, a USB extension cable is required.

## Playback from Disc

### Playable discs

Using this recorder, you can play and record on the following discs:

#### Recording and Playback

##### DVD±RW

(DVD ReWritable);  
can be recorded on  
over and over.



##### DVD±R

(DVD Recordable);  
can be recorded on  
only once.



##### DVD+R DL

(DVD+R Double Layer);  
same as DVD±R.



#### Playback only:

**DVD Video** (Digital Versatile  
Disc)



**CD-RW** (CD-ReWritable)  
Audio/ MP3/ JPEG contents



**CD-R** (CD-Recordable)  
Audio/ MP3/ JPEG contents



**Audio CD** (Compact Disc  
Digital Audio)



**MP3/WMA-Disc**



**Video CD**

(Formats 1.0, 1.1, 2.0)



**Super Video CD**



**DivX®, DivX® Ultra**



### IMPORTANT!

- If the inhibit icon 'X' appears on the TV screen when a button is pressed, it means the function is not available on the current disc or at the current time.
- DVD discs and players are designed with regional restrictions. Before playing a disc, ensure that the disc is for the same region zone as your player.

### Starting disc playback

- 1 Press **STANDBY-ON** to turn on the recorder.
- 2 Press **OPEN/CLOSE** on the remote control.
- 3 Carefully place the disc into the tray with the label facing up, then press **OPEN/CLOSE** .
  - For double-sided discs, load the side which you want to play facing up.
- 4 Turn on the TV to the correct viewing channel for the recorder.
- 5 Playback may start automatically.
  - Alternatively, press **DISC** on the remote control. Navigate to the track/title to play and press **▶||**.
    - This recorder has resume playback ability. Playback will always begin at the last stopped point.
  - If the pin code entry dialogue appears on the TV, this means that the child lock was activated for the inserted disc. You have to enter your four-digit pin code.

## Playback from Disc (continued)

### Playing a DVD video disc

Most DVD discs contain a disc menu. You may have to make your selection (e.g., subtitle or audio language) within the disc menu.

- 1 Insert a DVD.
- If the disc menu appears, use ▲▼ keys to select a play option and press **OK** to confirm or the **alphanumeric keypad 0-9** to input your selection.

#### To access the disc menu

- Press **DISC** on the remote control.

#### To select the previous or next chapter

- During playback, press ◀ / ▶.
- 2 To stop playback, press **STOP ■**.

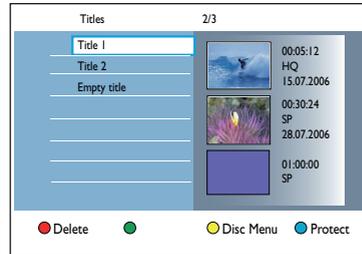
### Playing a (Super) Video CDs

(Super) Video CDs may feature 'PBC' (Play Back Control). This allows you to play the video CDs interactively, following the menu on the display.

- 1 Insert a (Super) Video CD.
- If the disc index menu appears, use ▲▼ keys to select a play option or use the **alphanumeric keypad 0-9** to input your selection. Press **OK** to confirm.
- To return to the previous menu, press **BACK ↵** on the remote control.
- 2 To stop playback, press **STOP ■**.

### Playing a DVD recordable disc

- 1 Insert a DVD recordable disc.  
→ The Index Picture screen appears.



- 2 Use ▲▼ keys to select a title to play, then press **▶||**.
- 3 To stop playback, press **STOP ■**.

#### Helpful Hint:

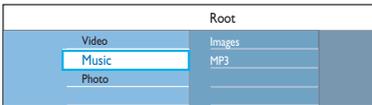
– If the message 'EMPTY DISC' appears on the display panel, this means that there are no recordings on this disc.

## Playback from Disc (continued)

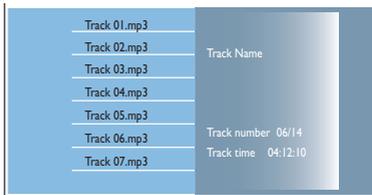
### Playing an audio CD (MP3/WMA)

MP3 (MPEG1 Audio Layer-3) files are highly compressed music files. The MP3 format allows you to store more data (music, pictures) on a CD.

- 1 Insert an audio CD.  
→ The content menu appears.
- Alternatively, press **DISC**.
- 2 Select { **Music** } in the menu, then press ►.



- 3 Select the folder to play and press ►.
- 4 Press ►|| to start playback.



- 5 During playback, press ◀ / ▶ to select the next/previous track.
- 6 To stop playback, press **STOP** ■.

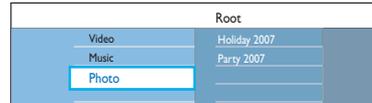
#### Helpful Hints:

- If both JPEG pictures and MP3s are in the same disc, you can choose to playback the JPEG pictures or MP3s by selecting { **Photo** } or { **Music** } in the menu.
- Only the first session of a multi-session CD will be played back.
- This recorder does not support MP3PRO audio format.
- If any special characters are present in the MP3 track name (ID3) or album name, it might not be displayed correctly on the screen because this recorder does not support the characters.

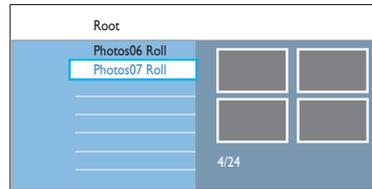
### Playing a JPEG image file (slide show)

You can display JPEG pictures in the selected folder automatically, one after another at adjustable intervals.

- 1 Insert a JPEG photo CD (CD, DVD±RW, DVD±R).  
→ The content menu appears.
- Alternatively, press **DISC**.



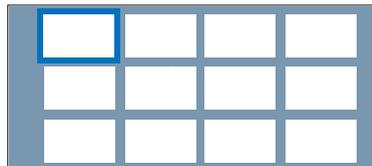
- 2 Select ( **Photo** ) in the menu, then press ►.
- 3 Select the folder to play and press ►.



- 4 Press ►|| to start the slide show playback.

#### To see the overview of images in a selected folder

- Select the folder and press ► to show the overview of the images.

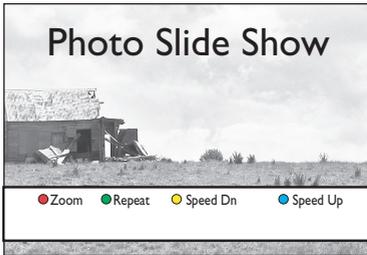


- Use ◀▶▲▼ keys to navigate and press ►|| to start the slide show playback from the highlighted image.

## Playback from Disc (continued)

### To adjust slideshow settings during playback

- During playback, press **INFO** on the remote control.  
→ The available playback settings appear at the bottom of the screen.



#### { Zoom }

Red button – Select this to activate zoom mode. The slideshow playback will pause.

- { **Zoom In** } Blue button: enlarge the picture.
- { **Zoom Out** } Yellow button: revert to the actual size.
- { **End** } Red button: exit zoom mode and continue slideshow playback.

#### { Repeat }

Green button – Select this to toggle between repeat on and off.

#### { Speed Dn } / { Speed Up }

Yellow and Blue buttons – Select this to change the slideshow playback speed.

- { **Slow** } : 10 (ten) seconds interval
- { **Medium** } : 5 (five) seconds interval
- { **Fast** } : 3 (three) seconds interval

- 5 To stop playback, press **STOP** ■.

#### Helpful Hints:

- If both JPEG pictures and MP3s are in the same disc, you can choose to playback the JPEG pictures or MP3s by selecting { Photo } or { Music } in the menu.
- If the JPEG picture is not recorded with an 'exif' type file, the actual thumbnail picture will not be shown on the display. It will be replaced with a 'blue mountain' thumbnail picture.
- Some types of JPEG file cannot be played on this recorder.
- It may require longer time for the recorder to display the disc content on the TV due to the large number of songs/pictures compiled into one disc.
- Disc with no name will be displayed as 'Unknown Data'.
- During JPEG photo playback, press LIVE TV button to switch to tuner mode.

#### Supported JPEG picture formats

##### File format:

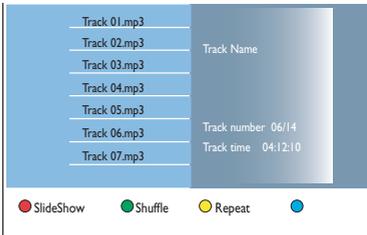
- The file extension has to be '\*.JPG' and '\*.JPEG'.
- This recorder can only display digital camera pictures according to the JPEG-EXIF format, typically used by almost all digital cameras. It cannot display Motion JPEG, progressive JPEG and other JPEG formats, or pictures in formats other than JPEG, or sound clips associated with pictures.

## Playback from Disc (continued)

### Playing musical slideshow

You can create a musical slide show if the disc contains both the MP3 files and JPEG picture files.

- 1 Insert a disc that contains music and pictures.  
→ The content menu appears.
- Alternatively, press **DISC**.
- 2 Select ( **Music** ) in the menu, then press ►.
- 3 Select the folder to play and press ►.
- 4 Press ►|| to start playback.



- 5 Press the **Red** button on the remote control for { **SlideShow** }.  
→ The Photos menu appears.
- 6 Select a photo roll or album to play and press ►|| to begin slideshow playback.  
→ The picture files will be played back through to the end of the folder.  
→ The music continues playing and will be repeated when it reaches the end of the selected album, playlist or track.
- 7 Press **STOP** ■ to stop the slideshow.

### Playing a DivX® disc

This recorder supports the playback of DivX® movies which you can copy from your computer onto a recordable disc.

- 1 Insert a DivX® disc.  
→ The content menu appears.
- Alternatively, press **DISC**.
- 2 Select ( **Video** ) in the menu and press ►.
- 3 Use ◀▶▲▼ keys to reach the title you want to play, then press ►|| to start playback.

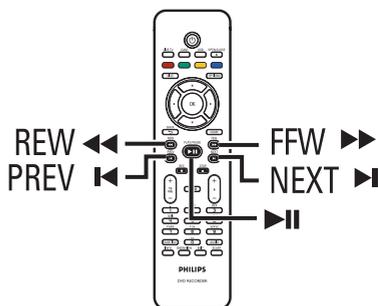
During playback:

- If multilingual subtitles are available on the DivX® disc, press **SUBTITLE** on the remote control to change the subtitle language.
- If the DivX® title provides different audio tracks, press **AUDIO** on the remote control to change the audio stream.
- Press **OPTIONS**, then select { **Time search** } in the menu and press ►. Key in the time where playback should start and press **OK** to confirm.  
→ Playback skips to the time entered.
- To select the font type that supports the recorded subtitle:
  - 1) Press **OPTIONS**.
  - 2) Move to { **Character set** } in the menu and press ►.
  - 3) Use ▲▼ keys to select the option and press **OK**.
- 4 To stop playback, press **STOP** ■.

*Helpful Hints:*

- Subtitle files with the following file name extensions (.srt, .sub, .ssa, .ass) are supported but do not appear on the file navigation menu.
- The subtitle file name has to be the same as the file name of the movie.
- The subtitle can only be displayed up to an average of 45 characters.

## Additional Playback Features



### Selecting another title/ chapter/ track

When a disc contains more than one track, title or chapter, you can change to a different track, title or chapter as follows

#### Selecting the next/ previous chapter/ track

During playback,

- Press ► to go to the next chapter/track.
- Press ◀ to return to the start of the current chapter/track. Press ◀ twice to return to the start of the previous chapter/track.  
*Alternatively,*
- Press ◀ / ► to select the previous or next chapter.  
*Alternatively,*
- Use the **alphanumeric keypad 0-9** to input the preferred chapter number.

#### Selecting a specific title or chapter

During playback,

- Press **OPTIONS** to display the options menu.
- Select { **Titles** } or { **Chapters** } and press ►.
- Use the **alphanumeric keypad 0-9** to enter the time where playback should start and press **OK** to confirm.  
→ Playback skips to the time entered.

### Searching forwards/ backwards

You can fast forward or fast reverse a disc during playback and select a desired search speed.

- 1 During playback, press ◀◀ (reverse) or ►► (forward) until the search speed status bar (4X) appears on the TV.  
→ The sound will be muted.
- 2 Press ◀◀ (reverse) or ►► (forward) repeatedly to cycle through the different search speed (4X, 8X, 32X).
- 3 To resume normal playback, press ►►.

### Pausing playback/ slow motion play

- 1 During playback, press ►► to pause playback and display a still picture.
- 2 Press ◀◀ (reverse) or ►► (forward) until the slow motion status bar (1/8X) appears on the TV.  
→ The sound will be muted.
- 3 Press the ◀◀ (reverse) or ►► (forward) repeatedly to cycle through the different slow motion speed (1/8X, 1/4X, 1/2X).
- 4 To resume normal playback, press ►►.

## Additional Playback Features (continued)

During disc playback, press **INFO** on the remote control to display the available playback options. These options are varied depending on the disc type and can be selected by pressing the matching colour coded buttons on the remote control.



### Scan disc

(for CD, VCD, DVD±R/±RW disc only)

This function allows you to preview the first 10 seconds of each track on the disc.

- 1 During playback, press the **Red** button on the remote control.  
→ The recorder skips to the next track after 10 seconds of playback.
- 2 To resume normal playback, press the **Red** button again.

### Shuffle play

(for CD, MP3 disc only)

Select shuffle play mode to allow the recorder to randomly select and play tracks on the disc.

- 1 Press the **Green** button on the remote control.  
→ It will start play back of all the chapters within the title in a random order.
- 2 To cancel shuffle playback, press the **Green** button again.

### Repeat play

The repeat play options vary depending on the disc type.

- 1 During playback, press the **Yellow** button on the remote control to select one of the repeat options.  
→ Repeat chapter (DVD, DVD±R/±RW only)  
→ Repeat track/title  
→ Repeat folder/playlist (if applicable)  
→ Repeat entire disc (video CD, audio CD, DVD±R/±RW only)
- 2 To cancel repeat playback, press the **Yellow** button repeatedly until the repeat mode is off or press **STOP** ■.

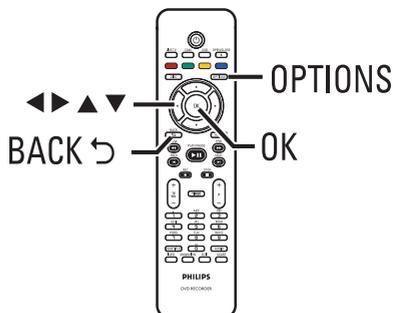
### Repeating a specific segment (A-B)

You can repeat the playback of a specific segment within a title/chapter track. To do this, you must mark the start and end of the segment you want.

- 1 During playback, press the **Blue** button on the remote control.  
→ This indicates that the start point has been marked.
- 2 Press the **Blue** button again to mark the end of the segment.  
→ A visual marker is placed on the programme bar.  
→ Playback skips to the start of the marked segment. The segment is repeated until the repeat mode is cancelled.
- 3 To cancel repeat playback, press the **Blue** button once again.

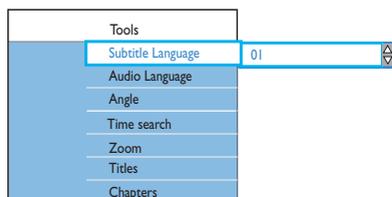
## Additional Playback Features (continued)

### Using the Toolbar options



- 1 During playback, press **OPTIONS** on the remote control.  
→ The available options might differ depending on the state of playback or media type.

During disc playback:



- 2 Use **▲▼** keys to select a setting and press **▶** to enter its options.  
→ Instructions and explanations of the options are provided in the following pages.  
→ If the selection in the menu is greyed out, that means the feature is not available or cannot be changed in the current state.
- 3 To exit, press **OPTIONS**.

### Changing audio soundtrack language

This operation works only on DVDs with multiple soundtrack language, or VCDs with multiple audio channel, or DVD±R/±RW recorded with 5.1 multi-channel.

This function can also be accessed via the **AUDIO** button on the remote control while in disc playback mode.

- 1 Select { **Audio Language** } and press **▶** to enter its options.
- 2 Press **▼** repeatedly until the audio language or soundtrack you want is selected, then press **◀** to confirm.  
→ The languages may be numbered or abbreviated, such as “en” for English.  
→ { **LANGUAGE I** } is the original broadcast language and { **LANGUAGE II** } is the additional broadcast language.

### Changing subtitle language

This operation works only on DVDs with multiple subtitle languages. You can change to the language you want while playing DVD.

This function can also be accessed via the **SUBTITLE** button on the remote control while in disc playback mode.

- 1 Select { **Subtitle Language** } and press **▶** to enter its options.
- 2 Press **▼** repeatedly until the language you want is selected, then press **◀** to confirm.  
→ The languages may be numbered or abbreviated, such as “en” for English.

## Additional Playback Features (continued)

### Switching camera angles

This option is only available with DVDs that contain sequences recorded from different camera angles. This allows you to view the picture from different angles.

- 1 Select { **Angle** } and press ► to enter its options.  
→ The camera angles available for selection appear.
- 2 Use ▲ ▼ keys to select the camera angle you want to switch to, then press ◀ to confirm.

### Zooming in

This option is only available on DVDs and recordable DVDs playback. It allows you to enlarge the picture on the TV screen and to pan through the enlarged picture.

- 1 Select { **Zoom** } and press **OK** to enter the zoom mode.  
→ The zoom status bar appears and displays the zoom factor.



- 2 Press the **Blue** button on the remote control to zoom in or **Yellow** button to zoom out.
- 3 Use ◀ ▶ ▲ ▼ keys to pan through the zoomed picture.
- 4 To exit zoom mode, press the **Red** button.

### Searching by time

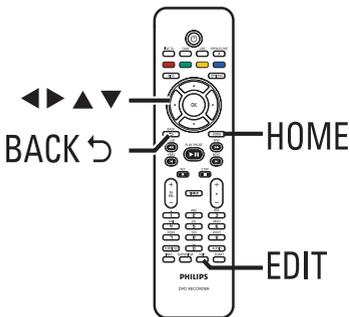
This option allows you to skip to a specific point in the current disc.

- 1 Select { **Time search** } and press ► to enter the time field (hours : minutes : seconds).
- 2 Use the **alphanumeric keypad 0-9** to enter the time where playback should start and press **OK** to confirm.  
→ Playback skips to the time entered.

# Edit Recordings

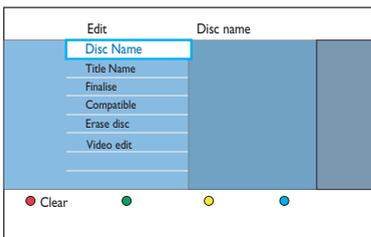
## About editing recordable DVDs

This recorder offers various disc edit options. You can change the disc content and settings of a recorded DVD from the editing menu. If a DVD±R has been finalised, it cannot be edited. The edited contents may not be available if you play the disc on another DVD player.



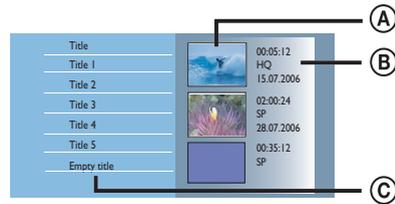
The displayed options in the editing menu differ depending on the situation and disc type.

- Change disc name
- Change title name
- Make DVD compatible (DVD±RW only)
- Finalise disc (DVD±R only)
- Erase the entire disc (DVD±RW only)
- Video edit



### Index Picture screen

The Index Picture screen shows your recordings on a recordable DVD. It should appear on the TV once you load a recordable DVD or when playback is stopped.



An Index Picture screen represents each recording information saved:

- (A) The title's Index Picture.
- (B) The title's information (length of recording, record mode and date).
- (C) The empty space available for recording.

#### Helpful Hint:

- If the disc is not recorded from this recorder, the format of Index Picture screen might be different.

## Edit Recordings (continued)

### Changing the disc/title name

The original disc/title name is generated automatically by the recorder. You can change the disc/title name by following the steps below.

- ① Insert a recorded DVD into the recorder.  
→ The Index Picture screen appears.
- Alternatively, press **DISC**.
- ② Press **EDIT** on the remote control.  
→ The editing menu appears.
- ③ Select { **Disc Name** } or { **Title Name** } in the menu and press **▶**.
- ④ Use the **alphanumeric keypad 0-9** to enter or change the character/number.  
→ Use **◀ ▶** keys to move to the previous or next field.
- ⑤ Press **OK** to confirm the changes.

### Making the edited DVD±RW compatible

The edited DVD±RW may still display the original titles or hidden scenes when played back on other DVD players. This function allows you to make an edited DVD±RW compatible with other players.

- ① Insert a recorded DVD±RW into the recorder.  
→ The Index Picture screen appears.
- Alternatively, press **DISC**.
- ② Press **EDIT** on the remote control.  
→ The editing menu appears.
- ③ Select { **Compatible** }, press **▶** and followed by **OK**.  
→ If the option is not available for selection, it means that the disc is already compatible.

### Deleting all recordings/titles

Allows you to delete all the recordings on the current recordable DVD.

- ① Insert a recorded DVD into the recorder.  
→ The Index Picture screen appears.
- Alternatively, press **DISC**.
- ② Press **EDIT** on the remote control.  
→ The editing menu appears.
- ③ Select { **Erase disc** }, press **▶** and followed by **OK**.
- ④ A warning message appears. To proceed, press **OK** on the remote control.
- Alternatively, select { **Cancel** } in the menu and press **OK** to abort the operation.

## Edit Recordings (continued)

### Finalising the DVD±R for playback

It is necessary to finalise a DVD±R disc before you can play it on another DVD player. Alternatively, the DVD±R will only playback on this recorder.

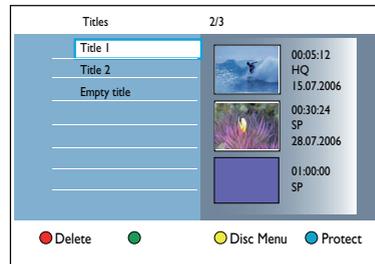
**After a DVD±R disc has been finalised, no further recordings or editing can be made to it. Ensure that you have completed all recordings and editing before finalising the disc.**

- 1 Insert a recorded DVD±R into the recorder.  
→ The Index Picture screen appears.
  - Alternatively, press **DISC**.
- 2 Press **EDIT** on the remote control.  
→ The edit menu appears.
- 3 Select { **Finalise** }, press ► and followed by **OK**.
- 4 A warning message appears. To proceed, press **OK** on the remote control.  
→ The finalisation process depends on the length of recordings.  
→ Do not try to open the disc tray or turn off the power as this may render the disc unusable.
  - Alternatively, select { **Cancel** } in the menu and press **OK** to abort the operation.

### Deleting a recording/title

You can delete a specific title from the disc. However, for DVD±R discs, the deleted space cannot be used for further recordings.

- 1 Insert a recorded DVD into the recorder.  
→ The Index Picture screen appears.
  - Alternatively, press **DISC**.
- 2 Use ◀▶▲▼ keys to reach the title you want.



- 3 Press the **Red** button on the remote control to { **Delete** }.
- 4 A warning message appears. Press **OK** on the remote control to proceed.  
→ For DVD±RW disc, 'Empty Title' will appear in the Index Picture screen where the title was deleted. The empty space can be used for new recordings.  
→ For DVD±R disc, 'Deleted title' will appear in the Index Picture screen where the title was deleted. During playback, the deleted title will be skipped.
  - Alternatively, select { **Cancel** } in the menu and press **OK** to abort the operation.

## Edit Recordings (continued)

### Lock/Unlock the disc for playback

You can choose to lock the recorded disc from viewing.

#### Before you start ...

Turn on the Child Lock feature. Read chapter “System Menu Options - Playback settings - Access - { Child Lock }” for details.

- ① Insert a recorded DVD into the recorder.  
→ The Index Picture screen appears.
- Alternatively, press **DISC**.
- ② Press the **Green** button on the remote control to enable { **Child Lock** }.
- Once the disc is locked, a four-digit pin code is required to play the disc or to unlock the disc.

### Protecting the recorded titles (DVD±RW)

You can choose to protect the recorded title on a DVD±RW. This is to prevent the recordings from being accidentally erased or edited.

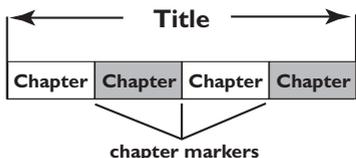
- ① Insert a recorded DVD±RW into the recorder.  
→ The Index Picture screen appears.
- Alternatively, press **DISC**.
- ② Use ◀▶▲▼ keys to reach the title you want.
- ③ Press the **Blue** button on the remote control for { **Protect** }.
- Once the title has been protected, the **Blue** button option will change to { **Unprotect** }. Select this to cancel the protect setting if required.



## Edit Recordings (continued)

### Video editing

This recorder allows you to edit the video content after a recording has been made. You can add/delete chapter markers or hide unwanted scenes.

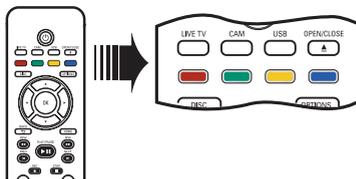


When you playback a recording in video edit mode, the entire recording will be played back including the hidden scenes.

- 1 Insert a recorded DVD into the recorder.  
→ The Index Picture screen appears.
- Alternatively, press **DISC**.
- 2 Use ◀▶▲▼ keys to reach the title you want, then press ▶▶ to start playback.
- 3 Use ◀◀ / ▶▶ keys or ◀ / ▶ keys on the remote control to search for the scene you want to edit, then press ▶▶ to pause playback.
- 4 Press **EDIT** on the remote control.  
→ The video editing menu appears.



- 5 Press the matching colour coded buttons on the remote control to access the options displayed at the bottom of the menu.

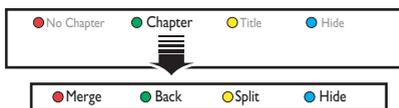


#### { No Chapter }

Red button – Select this to erase all the chapter markers in the current title.

#### { Chapter }

Green button – Select this to access chapter editing menu.



#### { Merge }

Select this to merge the current chapter with the chapter before it.

**Note:** If the two chapters were hidden, then the joined chapter will also be hidden.

#### { Back }

Select this to return to the previous screen.

#### { Split }

Select this to insert a new chapter marker at the current point of playback. This will allow you to access a specific point in the recording easily or set a chapter you wish to hide.

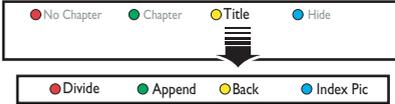
#### { Hide } / { Show }

Select this to hide or show the current chapter. During playback, the hidden chapter will be skipped.

## Edit Recordings (continued)

### { Title }

Yellow button – Select this to access title editing menu.



#### { Divide }

- for DVD±RW only

Select this to create a new title from the current point of playback. The existing title will be divided into two titles.

**Warning!** Once a title has been divided, it cannot be reversed.

#### { Append }

Select this to start a new recording after the last recording.

– Press **P** **+** / **-** to select the correct TV programme. To append to the current recording, press **REC**.

#### { Back }

Select this to return to the previous screen.

#### { Index Pic }

Select this to use the current scene as the Index Picture.

**Note:** In the Index Picture screen, normally the first frame of a recording is shown as the title's Index Picture.

### { Hide } / { Show }

Blue button – Select this to hide or show the current chapter.

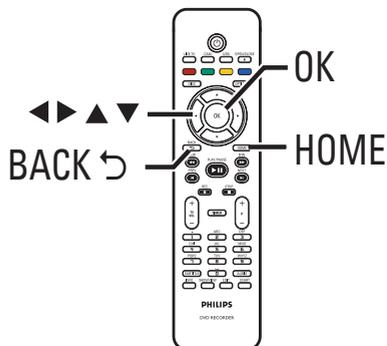
#### Helpful Hints:

- All the hidden chapters will be played back while in video editing mode.
- The selection of scenes to hide or show can only be done within a title.
- There is a limit on chapter markers that can be stored within a title.

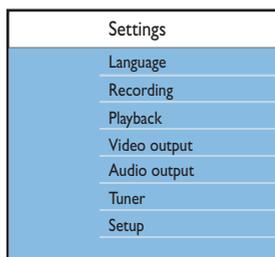
## System Menu Options

### System menu navigation

The system menu provides various setup options for your recorder.



- 1 Press **HOME** on the remote control.  
→ The Home menu appears.
- 2 Select { **Settings** } and press **OK**.  
→ The system settings menu appears.



- 3 Use **▲▼◀▶** keys to move the selection bar up/down/left/right to cycle through the menu options.  
→ Instructions and explanations of the options are provided in the following pages.  
→ If the selection in the menu is greyed out, it means the feature is not available or cannot be changed in the current state.

- 4 Press **OK** to confirm the selection or new setting.
- To return to the previous menu screen, press **◀**.
- 5 To exit, press **HOME**.

**Note:**

For { **Recording** } settings, read chapter “Before Recording - Default Recording settings” for details.

# System Menu Options (continued)

## Language settings (underlined options are the factory default settings)

- Audio language**      Select the preferred audio language for Digital Terrestrial Tuner (DTT) reception, DVDs with multiple soundtrack, VCDs with multiple audio channel, or DVD±R/±RW recorded with 5.1 multi-channel.
  
- Menu language**      Select the menu language for this recorder's on-screen display. This setting will be taken from the initial installation.  
**Notes:**
  - If the selected audio/subtitle language is not available on the disc, the disc's default language will be used instead.
  - For some DVDs, the subtitle/audio language can only be changed via the DVD disc menu.
  
- Subtitle language**      Select the preferred subtitle language for DVD playback and Digital Terrestrial Tuner (DTT) reception.
  
- Dual language**      Select the recording language to be used for TV programmes (analogue TV channels only) which are transmitted an additional audio language. For example, if a programme is available in English and Spanish, with Spanish being the additional language option.
  - { Lang. I }      – Original broadcast language.
  - { Lang. II }      – Additional audio language.

## System Menu Options (continued)

### **Playback settings** (underlined options are the factory default settings)

#### **Access**



You will be prompted to enter the four-digit pin code.

- When doing this for the first time, use the alphanumeric keypad 0-9 on the remote control to enter any four-digit pin code you prefer.
- If you forget your four-digit pin code, key in '1504'. Then enter any four-digit you prefer and enter the same pin code again to confirm it.

#### **Child lock:**

With this feature, you can prevent children from viewing certain discs.

- { **Off** } – All discs can be played.
- { **On** } – Turn on child lock function. A four-digit pin code must be entered in order to play the locked disc.

#### **Notes:**

- When this feature is enabled, it will appear as { Child Lock } at the bottom of the coloured options screen whenever you select a title in the content menu. You can press the **Green** button on the remote control to set the child lock on or off.

#### **Change PIN:**

Set a new pin code. Follow the instructions in the menu to change the pin code.

**Note:** To cancel the change, press **BACK** on the remote control.

#### **Display**

#### **OSD:**

Set the level of on-screen display information.

- { **Full** } – Complete information is always displayed during use.
- { **Reduced** } – The help text and colour button bar will be removed from the display.

**Front panel brightness:** Set the front panel display brightness.

- { **Bright** } – Normal brightness.
- { **Dimmed** } – Medium brightness.
- { **Off** } – Turn off the display.

# System Menu Options (continued)

## **Playback settings** (underlined options are the factory default settings)

- PBC** Play Back Control feature is only applicable for VCD/SVCD only. It allows you to play Video CDs (2.0) interactively, following the menu on the display.
- { Off } – The VCD/SVCD will skip the index menu and playback directly from the beginning.
  - { On } – The index menu (if available) will appear on the TV once you insert a VCD/SVCD.

## System Menu Options (continued)

### Video output settings (underlined options are the factory default settings)

#### TV shape

The picture shape can be adjusted to fit your TV.

{ 16:9 Widescreen } – For wide-screen TV (frame ratio 16:9).



{ 4:3 Panscan } – For a full-height picture with the sides trimmed.



{ 4:3 Letterbox } – For a 'wide-screen' display with black bars on the top and bottom.



#### Active video output

Select the type of video output that matches the video connection between this recorder and your TV.

{ SCART (RGB) } – For SCART connection.

{ Comp. Video (YUV) } – For component video connection.  
To enable progressive scan feature, go to { Video format } setting.

{ HDMI output } – For HDMI video connection.

**Note:** Video output setting is not required for S-Video or Composite (CVBS) video connection.

#### Video format

This feature is only applicable for component video connection. You can choose between progressive and interlaced video format, check your TV for compatibility.

{ Interlaced } – For TV that is not compatible with progressive-scan video.

{ Progressive } – Select this if your TV is progressive-scan compatible.

**Note:** 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, wait for 15 seconds for auto recovery or turn off the progressive scan as below:  
1) Disconnect the recorder's ~MAINS from the power supply.  
2) Hold down **◀◀** on the front panel whilst reconnecting its ~MAINS to the power supply.

#### Black level

Adapt the colour dynamic for NTSC disc.

{ Normal } – Normal colour contrast.

{ Enhanced } – Improve the colour contrast and brightens the picture of an NTSC-compatible DVD.

## System Menu Options (continued)

### Video output settings (underlined options are the factory default settings)

#### HDMI output

This feature is applicable only if you have connected a HDMI device. It is only available if you have set { Active video output } to { HDMI output }.

- { Auto } – The video output will automatically follow the optimal display resolution.
- { Native } – The video output is will follow the native display resolution of the HDMI TV.
- { Manual Install } – Select the video resolution depending on the capability of the connected HDMI TV/device: { 480p }, { 480i }, { 576p }, { 576i }, { 720p }, { 1080i }.

**Note:** If you select the settings { 720p } or { 1080i }, there will not be any concurrent display through other video connections (e.g., SCART, CVBS, YUV or S-Video).

### Audio output settings (underlined options are the factory default settings)

#### Digital output

This setting is only required if you are using the recorder's COAXIAL (DIGITAL OUT) socket to connect other audio/video device.

- { All } – Select this if the connected device has a built-in multi-channel decoder that supports one of the multi-channel audio format (Dolby Digital, MPEG-2).
- { PCM } – Select this if the connected device is not capable of decoding multi-channel audio. The system will convert the Dolby Digital and MPEG-2 multi-channel signals to PCM (Pulse Code Modulation).

## System Menu Options (continued)

### **Audio output settings** (underlined options are the factory default settings)

#### **HDMI audio**

This setting is only required if you have used the recorder's HDMI OUT socket to connect your TV or other display device.

- { Auto } – Select this to enjoy the multi-channel audio output through your HDMI connection.
- { **Disable** } – Select this if the connected device is not able to output the sound through the HDMI connection or the playback audio format is not supported by HDMI connection (e.g., projector, SACD).

**Notes:**

- Ensure that you have alternative audio connection from the recorder to your TV or the display device for the sound output.
- It is not possible to listen to SACDs or copy-controlled DVD-Audio CPPM (Content Protection for Playable Media) sources using the HDMI connection.

#### **Sound mode**

This setting is only required if you have used the recorder's AUDIO OUT L/R sockets to connect another audio/video device.

- { Stereo } – Select this to hear the sound from the left and right audio channels. Use this setting when this recorder is connected to a TV or Stereo system.
- { **Surround** } – Select this if the connected audio/video device is compatible with Dolby Surround. Dolby Digital and MPEG-2 multi-channel are mixed to a Dolby Surround compatible two-channel output signal.

#### **Night mode**

This mode optimises playback of sound at low volume. High volume outputs will be softened and low volume outputs are brought upward to an audible level.

- { **On** } – Turn on night mode.
- { Off } – Turn off night mode feature. Select this to enjoy the surround sound with its full dynamic range.

# System Menu Options (continued)

## Tuner settings

### Favourites

Define your favourite channels that can be quick accessed by using the programme up/down button (**P** + **—**) on the remote control.

{ **Analogue** } Set list of favourite analogue TV channels.

{ **Digital TV** } Set list of favourite digital TV channels (DTT).

{ **Digital Radio** } Set list of favourite digital radio channels.

<input checked="" type="checkbox"/>	1 BBC
<input checked="" type="checkbox"/>	2 RTL4
<input type="checkbox"/>	3 ARD
<input checked="" type="checkbox"/>	4 ORF2
<input type="checkbox"/>	5
<input checked="" type="checkbox"/>	6 TELET
<input type="checkbox"/>	7

– Mark (or unmark) your favourite channels using the **OK** button on the remote control.

**Note:** Unmarked channels  can only be accessed by pressing the corresponding number button on the remote control.

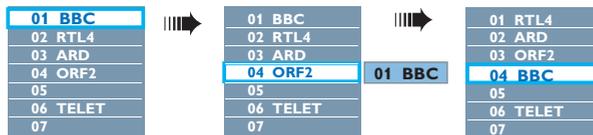
### Sort channels

Change the order of the stored channels according to your preference.

{ **Analogue** } Set the preset order for analogue TV channels.

{ **Digital TV** } Set the preset order for digital TV channels (DTT).

{ **Digital Radio** } Set the preset order for digital radio channels.



- 1) Use **▲ ▼** keys to select the channel that you want to move and press **◀** to confirm.
- 2) Move the selection bar to the preset number for which you want to place the channel and press **◀** to confirm.

## System Menu Options (continued)

### Tuner settings

#### Analog Install

Activate automatic analogue TV channels search and install or manually set the coded TV channels.

**Automatic install:** Use this setting for quick search and install all the available analogue TV channels at your area.

{ **Auto search** } – Press **OK** on the remote control to start the automatic TV channel search process and replace all previously stored analogue TV channels. This process may take several minutes.

Once complete, the number of channels found will be displayed.

**Manual install:** Use this setting only if the automatic install detected the wrong tuner signals.

{ **Entry mode** } – Use **▲▼** keys to select the manual search based on channel allocation or frequency entry { **MHz** (frequency), **S-CH** (Special channel), **CH** (Channel) }, then press **OK**.

**Note:** S. Channel refers to specified hyperband channels.

{ **Entry** } – Use the **alphanumeric keypad 0-9** to enter the frequency value or the channel number and press **OK**.

{ **Preset** } – Use the **alphanumeric keypad 0-9** to enter the preset number for the channel to store (e.g. '001') and press **OK**.

{ **Preset name** } – Use the **alphanumeric keypad 0-9** to enter the preset channel name and press **OK**. All channels can have a name of up to four characters.

{ **Decoder** } – Select { **On** } if the current TV channel is transmitted by coded TV signals that can only be viewed properly with a decoder which is connected to the EXT2 VCR/SAT socket.

{ **TV system** } – Set the TV system that produces the least distortion of picture and sound. See last page "TV System Guide" for more information.

## System Menu Options (continued)

### Tuner settings

- Manual install:** Use this setting only if the automatic install detected the wrong tuner signals.
- { **Finetune** } – Use ▲▼ keys to adjust the frequency of the TV channel if the reception is poor and press **OK** to confirm.
  - { **NICAM** } – NICAM is a digital transmission system. It can transmit either one stereo channel or two separate mono channels. Select { **On** } to improve the sound transmission or { **Off** } if the reception is poor.

### Digital Install

Activates digital TV/radio channels search and install, adds new broadcast channels or checks the transmission signal strength.

- Full:** Press **OK** to start digital channels search and install. It will replace all previously stored digital TV/radio channels. Once complete, press **OK** to exit.
- Update:** Press **OK** to start new channels search and install. This adds only the new channels to your existing preset list, after the last free preset position. New channels refer to the channels that are currently not installed. Once complete, press **OK** to exit.
- Check Signal:** Press **OK** to display signal strength and quality information of the digital tuner. It will help to find the best position of antenna. Use ▲ ▼ keys to change the frequency or channel number and press **OK** to check the signal quality. Position the antenna at the area where the maximum signal quality is reached.

## System Menu Options (continued)

### Setup settings (underlined options are the factory default settings)

#### Clock

Set the clock for your recorder before you can use any of the timer recording features.

##### Clock preset:

The time/date can be set automatically on this recorder if the stored TV channel transmits a time signal.

- { Off } – Select this before setting the time/date manually.
- { Auto } – The recorder will automatically detect the first available channel which is transmitting the time/date information.
- { AXXX } (preset channel) – Select the TV channel to use for transmitting the time/date information.

##### Time:

Set the time manually.

- { 00 : 00 : 00 } – Use ▲▼ keys to set the hours and minutes. Use ◀▶ keys to move in the entry field. Once complete, press **OK**.

##### Date:

Set the date manually.

- { 01/ 01/ 2007 } – Use ▲▼ keys to set the day, month and year, Use ◀▶ keys to move in the entry field. Once complete, press **OK**.

#### Country

Select the country of your residence for auto channel tuning.

#### Remote control

You only need to set this if you are using more than one Philips remote control in the same room.

- { Native } – Disable second RC control function.
- { DVD } – Enable control of this recorder using the Philips DVD player's remote control (not supplied).

#### Eco mode

This is an energy saving mode.

- { Off } – The clock will display on the recorder's display panel when turning off to standby mode.
- { On } – When you switch the recorder to standby mode, the display panel will turn blank to save power.

## System Menu Options (continued)

### Setup settings (underlined options are the factory default settings)

#### **Auto standby**

Select to switch the recorder to standby mode when it is not in use for a period of time.

- { On } – Switches to auto standby mode when playback has been stopped or paused for more than 10 minutes.
- { Off } – Switch off the auto standby function.

#### **DivX(R) VOD**

Displays the DivX® VOD registration code. Philips provides you with the DivX® VOD (Video On Demand) registration code that allows you to rent and purchase videos using the DivX® VOD service.

Use the registration code to purchase or rent the videos from DivX® VOD service at [www.divx.com/vod](http://www.divx.com/vod). Follow the instructions and copy the video from your computer onto a recordable disc for playback on this recorder.

**Note:** All downloaded videos from DivX® VOD can only be played back on this recorder. For more information, visit us at [www.divx.com/vod](http://www.divx.com/vod).

#### **Version Info**

Displays the system version information. This is only an information screen that shows the current version of software installed in your recorder. You may require this information for future online software upgrades.

## Setting up Progressive Scan feature

(for Progressive Scan TV only)

The progressive scan displays twice the number of frames per second than interlaced scanning (ordinary normal TV system). With nearly double the number of lines, progressive scan offers higher picture resolution and quality.

### Before you start...

- Ensure that you have connected this recorder to a progressive scan TV using the Y Pb Pr connection.
- Ensure that you have completed the initial installation and set-up.

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Turn on the recorder and press **HOME** on the remote control.  
→ The Home menu appears.
- 3 Select { **Settings** } and press **OK**.  
→ The system settings menu appears.
- 4 Select { **Video output** } and press **OK**.

Settings	Video output
Language	TV shape
Recording	Active video output
Playback	Video format
Video output	Black level
Audio output	HDMI output
Tuner	
Setup	

- 5 Select { **Active video output** } > { **Comp. video (YUV)** } in the menu, then press **OK** to confirm.

- 6 Select { **Video format** } > { **Progressive** } in the menu, then press **OK** to confirm.
- 7 Read the instructions on the TV and confirm your action by pressing **OK**.  
→ The setup is now completed and you can start to enjoy the high quality picture.
- Alternatively, select { **Cancel** } and press **OK** to go back to the previous menu.
- 8 To exit the menu, press **HOME**.

### If no picture is displayed:

- 1 Disconnect the recorder's ~MAINS from the power supply.
- 2 Hold down **◀◀** on the front panel whilst reconnecting its ~MAINS to the power supply.

### Helpful Hints:

- Some progressive scan TVs are not fully compatible with this recorder, resulting in an unnatural picture when playing back a DVD VIDEO disc in progressive scan mode. If this occurs, turn off the progressive scan feature on both the recorder and your TV.
- If the HDMI video output is turned on, the progressive output signal will change to interlaced.

## Other Information (continued)

### Installing the latest software

Periodically Philips will issue software upgrades to enhance user experience.

**Caution!** Power supply must not be interrupted during upgrade!

- 1 Turn on the recorder and press **HOME** on the remote control.  
→ The Home menu appears.
- 2 Select { **Settings** } and press **OK**.  
→ The system settings menu appears.

Settings	Setup
Language	Clock
Recording	Country
Playback	Remote control
Video output	Eco mode
Audio output	Auto standby
Tuner	DivX VOD
Setup	Version Info

- 3 Select { **Setup** } and press **OK**.
- 4 Select { **Version Info** } in the menu.  
→ Write down the information for your current software version.
- 5 Visit Philips website '[www.philips.com/support](http://www.philips.com/support)' to check the availability of the latest software upgrade. Download the software onto a CD-R.
- 6 Press **OPEN/CLOSE ▲** on the front of the recorder to open the disc tray.
- 7 Insert the CD-R and press **OPEN/CLOSE ▲** again.  
→ The software will start to install on the recorder automatically.

# Frequently Asked Questions

## What kind of disc should I use for recording?

You can only record on DVD±R, DVD±RW or DVD+R DL discs. DVD±R/±RW is the most compatible recordable DVD format in the market today. They are fully compatible with most of the existing DVD-Video players and DVD-ROM drives in computers.

## What is the capacity of a DVD±R and DVD±RW?

4.7GB, or equivalent to six CDs. You can store only one hour of recording on a single disc at the highest quality (DVD standard) and about 8 hours recording at the lowest quality (VHS standard). The recording mode indicates the number of hours that will fit on a single disc.

## What is the difference between DVD±R and DVD±RW?

DVD±R is “recordable” and DVD±RW is “erasable” and “rewritable”. With a DVD±R, you can record multiple sessions on the same disc. But when the disc is full, you cannot record any more on the disc. The DVD±RW allows you to record over the same disc repeatedly.

## Can I copy a VHS tape or DVD from an external player?

Yes, but only if the VHS tape or DVD is not copy protected.

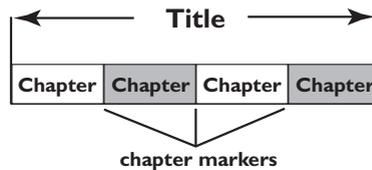
## What is DV?

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

- This recorder is only compatible with DV-format (DVC-SD) camcorders. Digital satellite tuners 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 socket.

## What are Titles and Chapters?

A DVD disc contains Titles and Chapters, which are similar to the Titles and Chapters of a book. A Title is often a complete movie and is broken down into Chapters, or individual scenes from the movies.



Programmes are recorded as a single title. They may consist of one chapter or a few chapters within a title, depending on the recording settings.

## How do I set up Titles and Chapters?

The recorder will automatically create a new Title every time you start a new recording. You can then add Chapters to these recordings manually or have them automatically inserted at a specific intervals.

## Frequently Asked Questions (continued)

### What does “finalising” a disc do?

Finalising a disc locks the disc so it can no longer be recorded. This is only required for DVD±R. It will then be compatible with virtually any DVD player. To remove a disc without finalising it, simply stop recording and eject the disc. You will still be able to record on the disc if there is storage space for more recordings.

### How good is the quality of the recording?

There are a few picture quality levels to choose from, ranging from “HQ” (1 hour recording at high quality) to “SEP” (8 hours recording at VHS quality) on a recordable DVD.

Record Mode	Hours of recording that can be stored on an empty DVD recordable disc.	
	DVD±R/ DVD±RW	DVD+R Double Layer
<b>HQ</b> (high quality)	1	1 hr 55 mins
<b>SP</b> (standard play)	2	3 hrs 40 mins
<b>SPP</b> (standard play plus)	2.5	4 hrs 35 mins
<b>LP</b> (long play)	3	5 hrs 30 mins
<b>EP</b> (extended play)	4	7 hrs 20 mins
<b>SLP</b> (super long play)	6	11 hrs 5 mins
<b>SEP</b> (super extended play)	8	14 hrs 45 mins

### What is DVB?

Digital Video Broadcasting (DVB) is a standard for digital television maintained by the DVB Project. This recorder has an integrated digital TV tuner (DVB-T) that enables reception of free digital video and radio broadcasts via a terrestrial antenna. It offers the best possible digital audio and video quality.

More stations can be transmitted in the same frequency band and additional media services such as city guides, web-content are possible. The number of these free-to-air stations might vary from country to country.

### What is HDMI?

High-Definition Multimedia Interface (HDMI) is a high-speed digital interface that can transmit uncompressed high definition video and digital multichannel audio. It delivers perfect picture and sound quality, completely free from noise. HDMI is fully backward-compatible with DVI.

As required by the HDMI standard, connecting to HDMI or DVI products without HDCP (High-bandwidth Digital Content Protection) will result in no Video or Audio output.

### What is MHEG?

Multimedia and Hypermedia information coding Expert Group - (MHEG) is an ISO standard encoding for multimedia and hypermedia information, designed to facilitate use and interchange of information in varied domains such as games, electronic publishing and applications. MHEG integrated devices allows digital TV subscribers to navigate through a screen of menu options using specialised links.

## Frequently Asked Questions (continued)

### **Why does it take so long to display the contents on my USB device?**

- This could be due to the large numbers of files (>500 files/folders) or size of the files (>1MB).
- There could be other non-supported files in the device that the system is trying to read/display.

### **What if un-supported devices (e.g., USB mouse, keyboards) are plugged into the system?**

The device may cause the system to be unstable. Remove the unsupported device and unplug the mains cord. Wait for a few minutes before reconnecting the mains cord and power on the system again.

### **What happens when I plug in a USB HDD?**

HDD is not supported as the large storage capacity makes navigation very difficult. Transfer the music files (mp3) and photos (jpg) into a flash drive.

### **Why does the system fail to detect my USB portable music player?**

The portable music player may require propriety software and may not work with this system to access the contents (eg. playlist).

### **What types of file does the system support?**

We support only FAT16 and FAT32, not NTFS.

### **Why does the file name appear to be different from what was displayed on my computer (e.g., from “Good Bye. jpg” to “Good\_B~1.jpg”)?**

- The length of the file name is restricted by the file system of the device (FAT16), which only supports eight (8) characters.
- The computer may be able to display the full file name as the operating system can convert the file system.

### **Is simultaneous USB and Disc playback possible?**

This is not possible due to memory limitation.

### **Why can't I rotate the pictures in my device?**

In order to rotate the pictures in the USB device, the picture must contain EXIF information, stored by most digital cameras. This EXIF information may have been removed when you edit or copy the picture from other devices using editing programmes.

### **Why can't the system play some of my music files, photos or movies?**

The music files may not be playable because of different formats and encoding bit-rates. Similarly, the photos may be of low resolution or too high resolution for the system to support.

## Troubleshooting

### WARNING!

Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to solve a problem by following these hints, consult your dealer or Philips for help.

Problem (General)	Solution
<b>No power.</b>	<ul style="list-style-type: none"> <li>– Press the STANDBY-ON button on the front of the recorder to turn on the system.</li> <li>– Ensure that the mains cord is properly connected and the AC outlet has power.</li> </ul>
<b>The message “IS THE TV ON?” appears on the display panel.</b>	<ul style="list-style-type: none"> <li>– This recorder will not operate until you complete the first installation. Read chapter “Step 3: Installation and Set-up” for details.</li> </ul>
<b>The buttons on the recorder do not work.</b>	<ul style="list-style-type: none"> <li>– There is a technical problem. Disconnect the recorder from the power outlet for 30 seconds, then connect again. If the recorder still will not operate, then reset it to the default factory settings :               <ol style="list-style-type: none"> <li>1) Disconnect the recorder from the power outlet.</li> <li>2) Press and hold down OPEN/CLOSE button on the front of the recorder while reconnecting to the power outlet.</li> <li>3) Release OPEN/CLOSE button when “INIT” appears on the display.</li> <li>4) Wait until the recorder’s demo start scrolling on the display, press STANDBY-ON again to turn on the recorder. All the information stored in the memory (programmes, time) will be cleared. The initial installation menu will be displayed on the TV.</li> </ol> </li> </ul>
<b>Remote control does not work.</b>	<ul style="list-style-type: none"> <li>– Aim the remote control directly at the sensor on the front of this recorder (not towards TV).</li> <li>– Remove any obstacles between recorder and the remote control.</li> <li>– Batteries are weak, replace the batteries.</li> </ul>

## Troubleshooting (continued)

Problem (General)	Solution
<b>No picture.</b>	<ul style="list-style-type: none"><li>– Turn on your TV and set it to the correct Video In channel for the recorder. You may go to Channel 1 on your TV, then press the channel down button on your TV's remote control until you see the recorder's built-in live TV.</li><li>– Check the video connection between the recorder and the TV.</li></ul>
<b>No sound.</b>	<ul style="list-style-type: none"><li>– Check the recorder audio connection. Read chapter "Basic Recorder Connections - Connecting the audio cables" for details.</li><li>– Set the Analogue output or Digital output correctly, based on the device you have connected to this recorder. Read chapter "System Menu Options - Audio output settings" for details.</li></ul>
<b>No TV signal received from the recorder.</b>	<ul style="list-style-type: none"><li>– Ensure that the antenna cables are correctly connected. Read chapter "Step 1: Basic Recorder Connections - Connecting the antenna cables" for details.</li><li>– Install the TV channel. Read chapter "System Menu Options - Tuner settings" for details.</li></ul>
<b>The message 'Unknown data' appears.</b>	<ul style="list-style-type: none"><li>– This message may appear if you insert a disc that contains junk data. DVD±Rs that have not been finalised are very sensitive to fingerprints, dust, or dirt. This may cause problems during recording. To use the disc again, do the following :<ol style="list-style-type: none"><li>1) Ensure that the surface of the disc is clean.</li><li>2) Press OPEN/CLOSE on this recorder.</li><li>3) Insert the disc but do not close the tray.</li><li>4) Hold down button number { 5 } on the remote control until the tray closes. This recorder will start the repair process.</li><li>5) If the disc is recovered, the Picture Index screen will appear.</li></ol></li></ul>
<b>The message 'NO SIGNAL' appears.</b>	<ul style="list-style-type: none"><li>– Ensure that the antenna cable is plugged in firmly.</li><li>– No aerial signal received for the current channel or no video signal received from the external input channel (EXT1, EXT2, CAM1 or CAM2).</li><li>– If you connect the recorder to a Cable Box/Satellite Receiver, ensure that it is turned on.</li></ul>

# Troubleshooting (continued)

English

Problem (Playback)	Solution
<b>Disc will not play.</b>	<ul style="list-style-type: none"><li>- Insert the disc with the label facing up.</li><li>- The child lock is on. Read chapter "System Menu Options - Playback settings - Child lock" for details.</li><li>- Wrong region code. The DVD must be coded for ALL regions or Region 2 in order to play on this recorder.</li><li>- There is no recording on the disc or wrong disc type. Read chapter "Playback from Disc - Playable discs" for details.</li><li>- Ensure that the disc is not scratched or warped.</li></ul>
<b>The picture is distorted or black and white during playback.</b>	<ul style="list-style-type: none"><li>- The disc does not match with the TV colour system standard (PAL/NTSC).</li><li>- The disc is dirty. Clean the disc.</li><li>- Sometimes a small amount of picture distortion may appear. This is not a malfunction.</li></ul>
<b>There is picture or sound interference with the TV reception.</b>	<ul style="list-style-type: none"><li>- Check that the antenna cable is plugged in firmly.</li><li>- Fine-tune your TV channel. Read chapter "System Menu Options - Tuner settings – { Analog Install – Manual install – Finetune }" for details.</li></ul>
<b>Distorted sound coming from a connected hi-fi amplifier.</b>	<ul style="list-style-type: none"><li>- Do not connect any cables from this recorder to the 'Phono' input of your amplifier.</li><li>- If you are playing a 5.1 music disc (CD with DTS audio), connect the COAXIAL (DIGITAL OUT) socket of this recorder to the digital DTS receiver. If the receiver does not support DTS, you might hear distorted sounds.</li></ul>
<b>Unable to play DivX® movies.</b>	<ul style="list-style-type: none"><li>- Ensure that the DivX® file is encoded according to the 'Home Theatre Profile' with the DivX® encoder.</li><li>- Check if the DivX® movie downloaded is a complete file.</li></ul>

## Troubleshooting (continued)

Problem (Recording)	Solution
<b>The message 'Insert recordable disc' appears.</b>	<ul style="list-style-type: none"><li>– Either no disc was inserted or the disc that was inserted cannot be used for recordings. Insert a recordable DVD (DVD±R, DVD±RW, or DVD+R Double Layer).</li></ul>
<b>The message 'Collision' appears.</b>	<ul style="list-style-type: none"><li>– The timer recording overlaps with another timer recording.</li><li>– If you ignore this warning, the programmed recording with the earlier start time will start first.</li><li>– Change the information for one of the two recordings.</li><li>– Delete one of the two recordings</li></ul>
<b>Recordings are not occurring as scheduled. New recordings cannot be made.</b>	<ul style="list-style-type: none"><li>– Ensure that the recorder's time and date are set correctly. Read chapter "System Menu Options - Setup settings – { Clock }" for details.</li><li>– Two timer programmes may have overlapped, in which case only the earlier one will record completely.</li><li>– You cannot use the recorder to duplicate copyright material (DVDs or videotapes) onto a recordable DVD, "COPY PROT" will be displayed.</li></ul>
<b>The index screen flickers when a DVD±R is inserted.</b>	<ul style="list-style-type: none"><li>– You can finalise the disc using the following function:<ol style="list-style-type: none"><li>1) Press OPEN/CLOSE on this recorder to open the disc tray.</li><li>2) Insert the disc but do not close the tray.</li><li>3) Hold down button number { 4 } on the remote control until the tray closes. "FINALIZING" appears on the display panel.</li><li>4) If finalising has been successful, the Picture Index screen will appear.</li></ol></li></ul>
<b>The wrong TV channel was decoded (recorded) after you programmed a recording using the SHOWVIEW® /VIDEO Plus+® system.</b>	<ol style="list-style-type: none"><li>1) Enter the SHOWVIEW® programming number/ Plus Code of the desired TV channel.</li><li>2) Press OK to confirm.</li><li>3) Check the channel number in the {Program #} input field. If this does not correspond to the desired TV channel, select this entry field and change the channel number.</li><li>4) Press OK to confirm.</li></ol>

## Troubleshooting (continued)

Problem (Recording)	Solution
<b>Picture is fuzzy and brightness varies when played back your recording.</b>	<ul style="list-style-type: none"><li>– This happens if you try to copy DVDs or video tapes that have been copy-protected. Even though the picture on the TV is fine, the recording on the recordable DVD is faulty. This interference is unavoidable with copy-protected DVDs or video tapes.</li><li>– The recordable DVD has a limited recording lifetime, use a new disc for recording.</li></ul>
<b>A DVD±R/±RW recorded on this DVD recorder does not playback on a DVD player.</b>	<ul style="list-style-type: none"><li>– If a recording is too short, it is possible that a DVD player cannot detect it.</li><li>– You have to finalise the DVD±R. Read chapter “Finalising the DVD±R for playback” for details.</li><li>– You have to make the DVD±RW compatible. Read chapter “Making the edited DVD±RW compatible” for details.</li></ul>
<b>The DVD±RW cannot be used for recording on this recorder.</b>	<ul style="list-style-type: none"><li>– The disc contains recordings made on another recorder or a personal computer. You have to re-format the DVD±RW.<ol style="list-style-type: none"><li>1) Press OPEN/CLOSE on this recorder to open the disc tray.</li><li>2) Insert the disc but do not close the tray.</li><li>3) Hold down button number { 0 } on the remote control until the disc tray closes.</li><li>4) Start recording on the DVD±RW before you remove it from the disc tray.</li></ol></li></ul>

## Troubleshooting (continued)

Problem (USB/HDMI)	Solution
<b>The contents of the USB flash drive cannot be read.</b>	<ul style="list-style-type: none"><li>– The USB flash drive format is not compatible with the system.</li><li>– Drive is formatted with a different file system which is not supported by this DVD system (e.g., NTFS).</li></ul>
<b>Slow operation of the USB flash drive.</b>	<ul style="list-style-type: none"><li>– Large file size or high memory USB flash drive takes longer time to read and display on the TV.</li></ul>
<b>No audio output from HDMI connection.</b>	<ul style="list-style-type: none"><li>– You will not hear any sound from the HDMI output if the source device is only DVI/HDCP (High-bandwidth Digital Content Protection)-compatible.</li><li>– It is not possible to output SACD or copy-controlled DVD-Audio sources from the HDMI connection.</li><li>– Ensure that you have selected a suitable audio output setting. Read chapter “System Menu Options - Audio output settings – { HDMI Audio }” for details.</li></ul>
<b>No video output from HDMI connection.</b>	<ul style="list-style-type: none"><li>– Ensure that you have activated this recorder as the HDMI input in the settings for the device you are using. Press HOME on the remote control, select { Settings } and then select { Video output Settings }. Ensure { Active video output } is set to { HDMI output }.</li><li>– HDMI connection can only be made to HDMI-equipped devices with HDCP (High Bandwidth Digital Content Protection). If you wish to connect to a DVI connector (equipped with HDCP), you will need a separate adaptor (DVI to HDMI).</li><li>– When connecting to a non-HDCP compliant TV, the HDCP warning message will appear only on the analogue video output.</li><li>– When the HDMI and component video are used to connect to a TV at the same time, it can be no picture output from the component video connection. Disconnect the HDMI cable.</li></ul>

## Display panel symbols/messages

The following symbols/messages may appear on your recorder display:



- **00:00**  
Multifunction display/text line
  - Title/track number
  - Total/elapsed/remaining title/track time
  - Disc/title name
  - Error or warning messages
  - Additional information regarding the disc
  - TV channel number or source of video
  - Clock (This is displayed in Standby mode).
  - TV programme title
- **PRO SCAN**  
The video output is in progressive scan quality.
- **TIMER**  
A timer recording has been programmed or is active.
- **CLOSING**  
Disc tray is closing.
- **COMPATIBLE**  
The recorder is busy making changes to make the disc DVD-compatible.
- **COPY PROT**  
The DVD/video cassette you are trying to copy is copy-protected.
- **DATA DISC**  
The disc contains DivX, MP3, WMA and JPEG files
- **DISC ERR**  
An error occurred when writing the title. If this happens often, clean the disc or use a new one.
- **DISC FULL**  
Disc is full. There is no storage space for new recordings.
- **DISC UPDATE**  
The disc is being updated after editing is complete.
- **EMPTY DISC**  
Inserted disc is new or has been completely erased (no recordings present).
- **FREE TITLE**  
An empty title was selected.
- **FINALIZING**  
The DVD±R disc is being finalised.
- **HOME**  
The Home menu display is on.
- **INFO\_DVD**  
Information on the inserted DVD is displayed on the TV.
- **INIT**  
The recorder has been turned on.
- **INSTALL**  
After the automatic channel search, the menu for setting the time/date appears on the TV.
- **IS THE TV ON?**  
The recorder is currently in the first installation mode. Turn on your TV and read the chapter 'Installation and Set-up' in the user manual.
- **MAX CHAP**  
The maximum number of chapters per title disc has been reached. The maximum number of chapters per title is 99, and 255 per disc.
- **MAX TITLE**  
The maximum number of titles has been reached for the disc. Each disc can have a maximum of 49 titles.
- **NO DISC**  
No disc has been inserted. If a disc has been inserted, then it is possible that the disc cannot be read.

## Display panel symbols/messages (continued)

- **NOSIGNAL**  
No signal or poor signal strength.
- **NTSC DISC**  
A disc with NTSC recordings has been inserted and an attempt was made to record a PAL signal. Insert a new disc or use a disc containing PAL recordings.
- **OPENING**  
Disc tray is opening.
- **PAL DISC**  
A disc with PAL recordings has been inserted and an attempt was made to record an NTSC signal. Insert a new disc or use a disc containing NTSC recordings.
- **PHILIPS**  
The recorder has been turned on from standby mode.
- **PHOTO**  
The disc inserted contains jpeg files.
- **PROTECTED**  
Recorded title is protected and cannot be deleted/overwritten.
- **READING**  
Disc is being recognised by the recorder.
- **SYS MENU**  
The on-screen menu display is on.
- **GUIDE (For UK only)**  
The TV Guide or Electronic Programme Guide display is on.
- **USB**  
The contents menu of the connected USB device is displayed.
- **UPDATING MENU**  
After a successful recording, the list of disc contents is updated.
- **UPTODATE**  
The recorder software has been updated.
- **VCD**  
A VCD has been loaded into the recorder.

## Glossary

**Analogue audio:** Sound that has not been turned into numbers. Analogue sound is available with you use the AUDIO LEFT/ RIGHT. These red and white sockets send audio through two channels, the left and right.

**Aspect ratio:** Aspect ratio refers to the length to height ratio of TV screens. The ratio of a standard TV is 4:3, while the ratio of a high-definition or wide TV is 16:9. The letter box allows you to enjoy a picture with a wider perspective on a standard 4:3 screen.

**Digital audio:** Sound signal that has been converted into numerical values. Digital sound is available when you use the COAXIAL (DIGITAL OUT). These sockets send audio through multiple channels, instead of just two channels as analogue does.

**Disc menu:** A screen display prepared for allowing selection of images, sounds, subtitles, multi-angles, etc recorded on a DVD.

**DivX®:** The DivX® code is a patent pending, MPEG-4 based video compression technology, developed by DivX® Inc., that can shrink digital video to sizes small enough to be transported over the internet, while maintaining high visual quality.

**Dolby Digital:** A surround sound system developed by Dolby Laboratories containing up to six channels of digital audio (front left and right, surround left and right, centre and subwoofer).

**DTS:** Digital Theatre Systems. This is a surround sound system, but it is different from Dolby Digital. The formats were developed by different companies.

**JPEG-EXIF:** JPEG-Exchangeable Image File. A file format developed by Fuji Photo Film for digital still cameras. Digital cameras from various manufacturers use this compressed file format which carries date, time and thumbnails information, as well as the picture data.

**Finalise:** A process that makes playback of a recorded DVD±R or CD-R possible on device that can play such media. You can finalise DVD±R on this unit. After finalising, the disc becomes play only and you can no longer record or edit on the disc.

**HDCP:** High-bandwidth Digital Content Protection is a specification that provides a secure transmission of digital contents between different devices (to prevent unauthorised copyright).

**Index Picture Screen:** A screen that gives an overview of a DVD±RW or DVD±R. An Index Picture represents each recording.

**JPEG:** A very common digital still picture format. A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio. Files are recognised by their file extension "JPG or JPEG".

**MP3:** A file format with a sound data compression system. "MP3" is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. By using the MP3 format, one CD-R or CD-RW can contain about 10 times more data than a regular CD. Files are recognised by their file extension ".MP3".

**MPEG:** Motion Picture Experts Group. A collection of compression systems for digital audio and video.

**PBC:** Playback Control. A system of navigating a Video CD/Super VCD through on-screen menus recorded onto the disc. You can enjoy interactive playback and searching.

**PCM:** Pulse Code Modulation. A digital audio encoding system.

**Progressive Scan:** The progressive scan displays twice the number of frames per seconds than ordinary TV system. It offers higher picture resolution and quality.

**Region code:** A system allowing discs to be played only in the region designated. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the product label. Some discs are compatible with more than one region (or ALL regions).

**S-Video:** Produces a clear picture by sending separate signals for the luminance and the colour. You can use S-Video only if your TV has an S-Video In socket.

**Surround:** A system for creating realistic three dimensional sound fields full of realism by arranging multiple speakers around the listener.

**Composite video (CVBS):** A single video signal commonly used in most consumer video products.

**WMA:** Windows Media Audio. Refers to an audio compression technology developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 9 or Windows Media Player for Windows XP. Files are recognised by their file extension "WMA".

# Specifications

## Recording media

- DVD+R/-R, DVD+RW/-RW, DVD+R Double Layer

## Playback media

- DVD-Video, Video CD/SVCD, Audio CD, CD-R/CD-RW, DVD+R/+RW, DVD-R/-RW, Picture CD, MP3-CD, MP3-DVD, WMA-CD, USB flash drive

## Picture/ Display

- A/D Converter: 10 bit, 54 MHz
- D/A Converter: 13 bit, 162 MHz
- Picture enhancement: Progressive Scan
- HDMI version: 1.1

## Sound

- A/D Converter: 16 bit, 48 kHz
- D/A Converter: 24 bit, 96 kHz

## Video Recording

- Audio compression: Dolby Digital
- Compression formats: MPEG2
- Recording modes: High Quality (HQ), Standard Play (SP), Standard Play Plus (SPP), Long Play (LP), Super Long Play (SLP), Extended Play (EP), Super Extended Play (SEP)
- Recording system: PAL

## Video Playback

- Compression formats: MPEG2, MPEG1
- Video disc playback system: NTSC, PAL

## Audio Playback

- Compression formats: Dolby Digital, MPEG2 Multichannel, PCM, MP3, WMA
- MPEG1 bit rates: 64-384 kbps and VBR

## Tuner/ Reception/ Transmission

- TV system: PAL, SECAM
- Dual Tuner : Digital (DVB-Terrestrial) and Analogue Tuner

## Connectivity

- Rear Connections
  - RF antenna in (DVB in)
  - RF TV out
  - Scart 1 (CVBS, RGB out)
  - Scart 2 (CVBS, RGB in)
  - Component Video out (Progressive/ Interlaced)
  - S-Video out
  - Video out (CVBS)
  - Audio left/right out
  - Digital Coaxial out
  - HDMI out
  - Mains
- Front Connections
  - DV in (i.LINK)
  - S-Video in
  - Video in (CVBS)
  - Audio left/right in
  - USB

## Convenience

- Electronic Programme Guide: TV Guide (UK only)
- Programmable events: 30
- Programming/ Timer Enhancement:
  - Automatic Satellite Recording
  - Direct Record
  - Daily/Weekly repeat programme
  - One Touch Recording
  - Timer Recording: Manual, SHOWVIEW®, VIDEO Plus+®
  - VPS/PDC recording control
- Ease of installation: Auto install

## Power

- Power supply: 220-240 V, ~50 Hz
- Power consumption: 23 W
- Standby power consumption: < 3.2 W

## Cabinet

- Dimensions (WxHxD): 435 x 43 x 324.5 mm
- Net Weight: 3.0 kg

*Specifications and design are subject to change without notice.*



# TV System Guide

COUNTRY	VHF	UHF	DVD REGIONS
AFGHANISTAN	PAL/SECAM B		5
ALBANIA	PAL B	PAL G	2
ALGERIA	PAL B	PAL G	5
ANGOLA	PAL I		5
ARGENTINA	PAL N	PAL N	4
AUSTRALIA	PAL B	PAL H	4
AUSTRIA	PAL B	PAL G	2
AZORES	PAL B		
BAHAMAS	NTSC M		4
BAHRAIN	PAL B	PAL G	2
BANGLADESH	PAL B		5
BARBADOS	NTSC M		4
BELGIUM	PAL B	PAL H	2
BERMUDA	NTSC M		
BOLIVIA	NTSC M	NTSC M	4
BOTSWANA	PAL I		5
BRAZIL	PAL M	PAL M	4
BRUNEI	PAL B	PAL B	
BULGARIA	PAL B	PAL G	2
BURKINA FASO	SECAM K1		5
BURMA	NTSC M		
BURUNDI	SECAM K1		5
CAMBODIA	NTSC M		3
CAMEROON	PAL B	PAL G	5
CANADA	NTSC M	NTSC M	1
CANARY ISLANDS	PAL B		2
CHAD	SECAM K1		5
CHILE	NTSC M	NTSC M	4
CHINA	PAL D		6
COLOMBIA	NTSC M	NTSC M	4
COSTA RICA	NTSC M	NTSC M	4
CROATIA	PAL B	PAL G	2
CUBA	NTSC M	NTSC M	4
CYPRUS	PAL B	PAL G	
CZECH REPUBLIC	PAL D	PAL K	2
DAHOMY	SECAM K1		
DENMARK	PAL B	PAL G	2
DJIBOUTI	SECAM B	SECAM G	5
DOMINICAN REP	NTSC M	NTSC M	4
ECUADOR	NTSC M	NTSC M	4
EGYPT	SECAM B/PAL B	SECAM G/PAL G	2
EL SALVADOR	NTSC M	NTSC M	4
EQUAT. GUINEA	PAL B		5
ESTONIA	PAL B (was SECAM)	PAL D	5
ETHIOPIA	PAL B	PAL G	5
FIJI	PAL B		
FINLAND	PAL B	PAL G	2
FRANCE	SECAM L	SECAM L	2
FRENCH POLYNESIA	SECAM K1		
GABON	SECAM K1		5
GAMBIA	PAL I		5
GERMANY	PAL B	PAL G	2
GHANA	PAL B	PAL G	5
GIBRALTAR	PAL B	PAL H	2
GREECE	PAL B (was SECAM)	PAL G	2
GREENLAND	NTSC/PAL B		2
GUADELOUPE	SECAM K1		
GUAM	NTSC M		1
GUATEMALA	NTSC M	NTSC M	4
GUINEA	PAL K		5
GUYANA (FRENCH)	SECAM K1		4
HONDURAS	NTSC M	NTSC M	4

## TV System Guide (continued)

COUNTRY	VHF	UHF	DVD REGIONS
LIBYA	SECAM B	SECAM G	5
LITHUANIA	PAL D (was SECAM)	PAL K	5
LUXEMBOURG	PAL B/SECAM L	PAL G/SEC L	2
MADAGASCAR	SECAM K1		5
MADEIRA	PAL B		
MALAGASY	SECAM K1		
MALAWI	PAL B	PAL G	5
MALAYSIA	PAL B		3
MALI	SECAM K1		5
MALTA	PAL B	PAL H	2
MARTINIQUE	SECAM K1		
MAURITANIA	SECAM B		5
MAURITIUS	SECAM B		5
MEXICO	NTSC M	NTSC M	4
MONACO	SECAM L		2
MONGOLIA	SECAM D		5
MOROCCO	SECAM B		5
MOZAMBIQUE	PAL B		5
NAMIBIA	PAL I		5
NEPAL	PAL B		
NETHERLANDS	PAL B	PAL G	2
NETH. ANTILLES	NTSC M	NTSC M	
NEW CALEDONIA	SECAM K1		
NEW GUINEA	PAL B	PAL G	4
NEW ZEALAND	PAL B	PAL G	4
NICARAGUA	NTSC M	NTSC M	4
NIGER	SECAM K1		5
NIGERIA	PAL B	PAL G	5
NORWAY	PAL B	PAL G	2
OMAN	PAL B	PAL G	2
PAKISTAN	PAL B		5
PANAMA	NTSC M	NTSC M	4
PARAGUAY	PAL N	PAL N	4
PERU	NTSC M	NTSC M	4
PHILIPPINES	NTSC M	NTSC M	3
POLAND	PAL D	PAL K	2
PORTUGAL	PAL B	PAL G	2
PUERTO RICO	NTSC M	NTSC M	1
QATAR	PAL B		2
REUNION	SECAM K1		
RUMANIA	PAL D	PAL K	2
RUSSIA	SECAM D	SECAM K	5
RWANDA	SECAM K1		5
SABAH/SAWARA	PAL B		
ST. KITTS	NTSC M	NTSC M	
SAMOA (US)	NTSC M		1
SAUDI ARABIA	SECAM-B/PAL-B	SECAM G	2
SENEGAL	PAL		5
SEYCHELLES	PAL B	PAL G	5
SIERRA LEONE	PAL B	PAL G	5
SINGAPORE	PAL B	PAL G	
SLOVAK REPUBLIC	PAL	PAL	2
SOMALIA	PAL B	PAL G	5
SOUTH AFRICA	PAL I	PAL I	2
SPAIN	PAL B	PAL G	2
SRI LANKA	PAL B		5
SUDAN	PAL B	PAL G	5
SURINAM	NTSC M	NTSC M	4
SWAZILAND	PAL B	PAL G	
SWEDEN	PAL B	PAL G	2
SWITZERLAND	PAL B	PAL G	2
SYRIA	SECAM B		2

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