

DVD VIDEO PLAYER

**DVP3040K**

***Thank you for choosing Philips.***

***Need help fast?***

*Read your User's 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/support](http://www.philips.com/support)*



**PHILIPS**

## General Information

### Environmental Information

All unnecessary packaging has been omitted. The packaging has been made easy to separate into three materials; cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your DVD player consists of materials which can be recycled and reused if disassembled by a specialised company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.



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



DivX Certified products: "DivX" and associated logos are trademarks of DivX, Inc. and are used under license.

### Laser Safety

This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

#### NOTE:

**Pictures shown maybe different between countries.**

#### CAUTION:

**WARNING LOCATION: ON THE BACKPLATE OF THE SET**

**NEVER MAKE OR CHANGE CONNECTIONS WITH THE POWER SWITCHED ON.**

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中文 (繁體)

Bahasa Melayu

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

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

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

'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 TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

*Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V. or their respective owners.*

For Customer Use:  
Read carefully the information located at the bottom or rear of your DVD Video player and enter below the Serial No. Retain this information for future reference.

Model No. DVP 3040K

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

#### **LASER**

Type	Semiconductor laser InGaAlP (DVD) AlGaAs (CD)
Wave length	658 nm (DVD) 790 nm (CD)
Output Power	7.0 mW (DVD) 10.0 mW (VCD/CD)
Beam divergence	60 degrees

## Language Code

Abkhazian	6566	Inupiaq	7375	Pushto	8083
Afar	6565	Irish	7165	Russian	8285
Afrikaans	6570	Isleńska	7383	Quechua	8185
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## Care and Safety Information

### DANGER!

**High voltage! Do not open the device. You run the risk of getting an electric shock.**

**The machine does not contain any user-serviceable parts. Please leave all maintenance work to qualified personnel.**

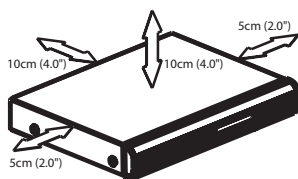
### Setup

#### Finding a suitable location

- Place the set on a flat, hard and stable surface. Do not place the set on a carpet.
- Do not position 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 (4.0") clearance from the rear and the top of the set and 5cm (2.0") from the left and right to prevent overheating.



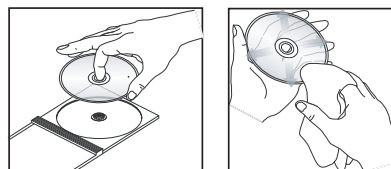
#### Avoid high temperatures, moisture, water and dust

- Apparatus shall not be exposed to dripping or splashing.
- Do not place any sources of danger on the apparatus (e.g., liquid filled objects, lighted candles).

### Cleaning discs

Some problems occur because the disc inside the recorder is dirty (frozen picture, sound disruptions, picture distortions). To avoid these problems, discs should be cleaned on a regular basis.

To clean a disc, use a micro fibre cleaning cloth and wipe the disc from the center to the edge in a straight line.



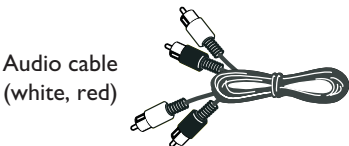
### CAUTION!

Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static sprays intended for analog discs. Since the optical unit (laser) of the DVD player operates at a higher power than regular DVD or CD players, cleaning CDs intended for DVD or CD players may damage the optical unit (laser). Therefore, refrain from using a cleaning CD.



# General Information

## Accessories supplied



## Region codes

This DVD player is designed to support the Region Management System. Check the regional code number on the disc package. If the number does not match the player's region number (see table below), the player may be unable to playback the disc.

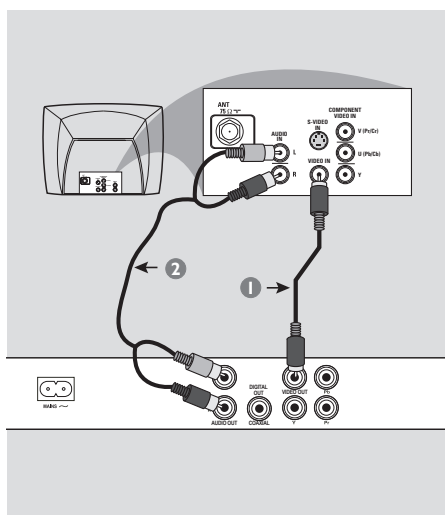
*Tips:*

- It may not be possible to play CD-R/RW or DVD-R/RW in all cases due to the type of disc or condition of the recording.
- If you are having trouble playing a certain disc, remove the disc and try a different one. Improper formatted disc will not played on the DVD player.

Region	Discs that can be played	
U.S.A. and Canada regions		
U.K and Europe regions		
Asia Pacific, Taiwan, Korea		
Australia, New Zealand, Latin America		
Russia and India regions		
China, Calcos Islands, Walls and Futuna Islands		

## Connections

### Connecting to television



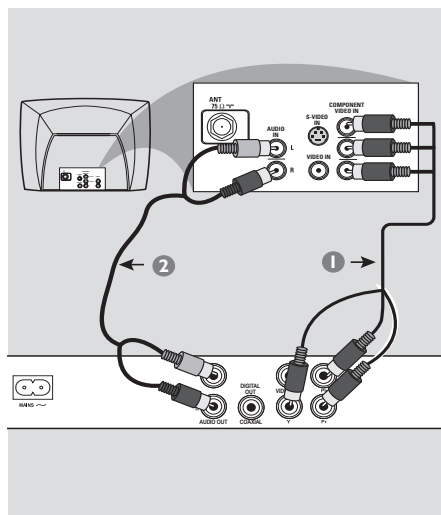
#### IMPORTANT!

- You only need to make one video connection from the following options, depending on the capabilities of your television.
- Connect the DVD player directly to the television.

#### Using Composite Video sockets (CVBS)

- ① Use the composite video cable (yellow) to connect the DVD player's CVBS (VIDEO) socket to the video input jack (or labeled as A/V In, Video In, Composite or Baseband) on the television (cable supplied).
- ② To hear sound of this DVD player through your TV, use the audio cables (white/red) to connect AUDIO OUT (L/R) sockets of the DVD player to the corresponding AUDIO IN sockets on the television (cable supplied).

**TIPS:** Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.



#### IMPORTANT!

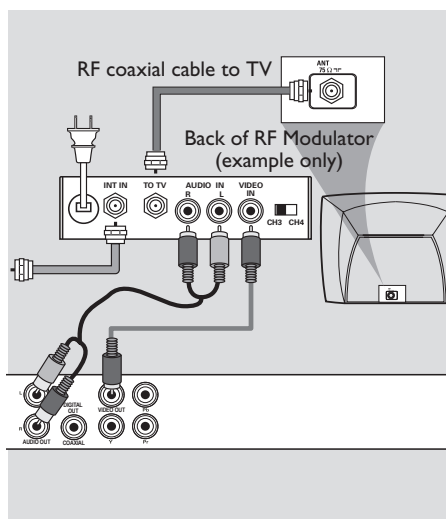
- The progressive scan video quality is only possible when using YPbPr and a progressive scan television is required.

#### Using Component Video sockets (YPbPr)

- ① Use the component video cables (red/blue/green) to connect the DVD player's YPbPr sockets to the component video input sockets (or labeled as YPbPr) on the television (cable not supplied).
- ② To hear sound of this DVD player through your TV, use the audio cables (white/red) to connect AUDIO OUT (L/R) sockets of the DVD player to the corresponding AUDIO IN sockets on the television (cable supplied).
- ③ Proceed to page 17 for detailed progressive scan setup.

## Connections (continued)

English



### IMPORTANT!

– If your television only has a single Antenna In jack (or labeled as 75 ohm or RF In,) you will need an RF modulator in order to view the DVD playback on the television. See your electronics retailer or contact Philips for details on RF modulator availability and operations.

### Using an accessory RF modulator

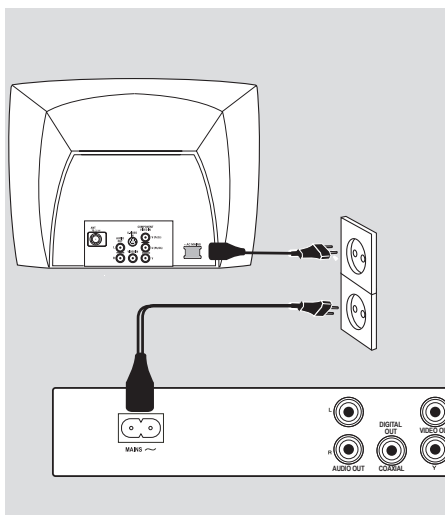
- 1 Use the composite video cable (yellow) to connect the DVD player's CVBS jack to the video input jack on the RF modulator.
- 2 Use the RF coaxial cable (not supplied) to connect the RF modulator to your television's RF jack.
- 3 To hear sound of this DVD player through your TV, use the audio cables (white/red) to connect AUDIO OUT (L/R) sockets of the DVD player to the corresponding AUDIO IN sockets on the RF modulator (cable supplied).

**TIPS:** Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

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## Connections (continued)

### Connecting the power cord



**After everything is connected properly, plug in the AC power cord to the power outlet.**

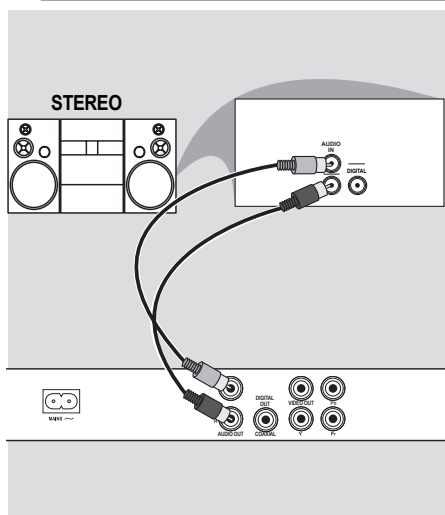
Never make or change any connections with the power switched on.

When no disc is loaded, **press STANDBY ON** on the **DVD player front panel**.  
**"NO DISC"** may appear on the display panel.

**TIPS:** Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

## Optional connections

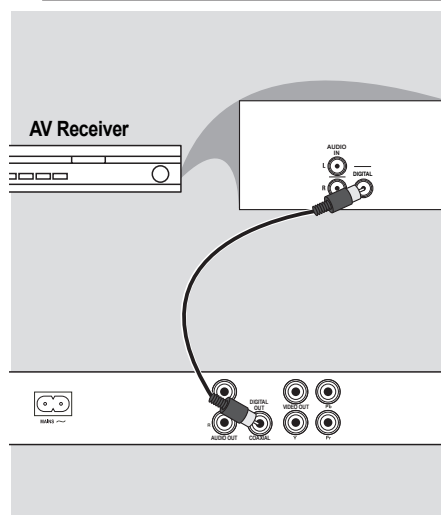
### Connecting to an stereo system



**Stereo system has Dolby Pro Logic or right/ left Audio In sockets**

- 1 Select one of the video connections (CVBS VIDEO IN or COMPONENT VIDEO IN) depending on the options available on your TV.
- 2 Use the audio cables (white/red) to connect AUDIO OUT (L/R) sockets of the DVD Player to the corresponding AUDIO IN sockets on the stereo system (cable supplied).

### Connecting to a digital AV receiver



**Receiver has a PCM, Dolby Digital or MPEG decoder**

- 1 Select one of the video connections (CVBS VIDEO IN or COMPONENT VIDEO IN) depending on the options available on your TV.
- 2 Connect the COAXIAL jack of the DVD player to the corresponding Digital Audio In socket on your receiver (cable not supplied).
- 3 Set the DVD player's digital output to PCM-Only or ALL depending on the capabilities of your receiver (see page 34 {Digital Output}).

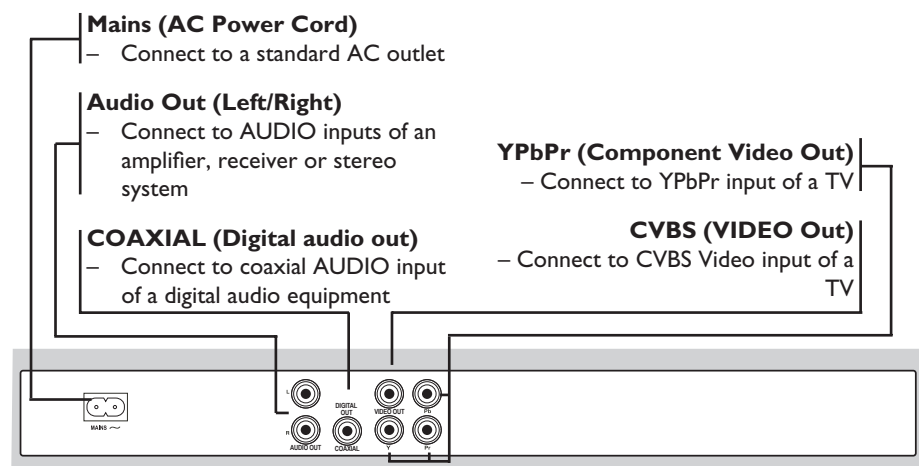
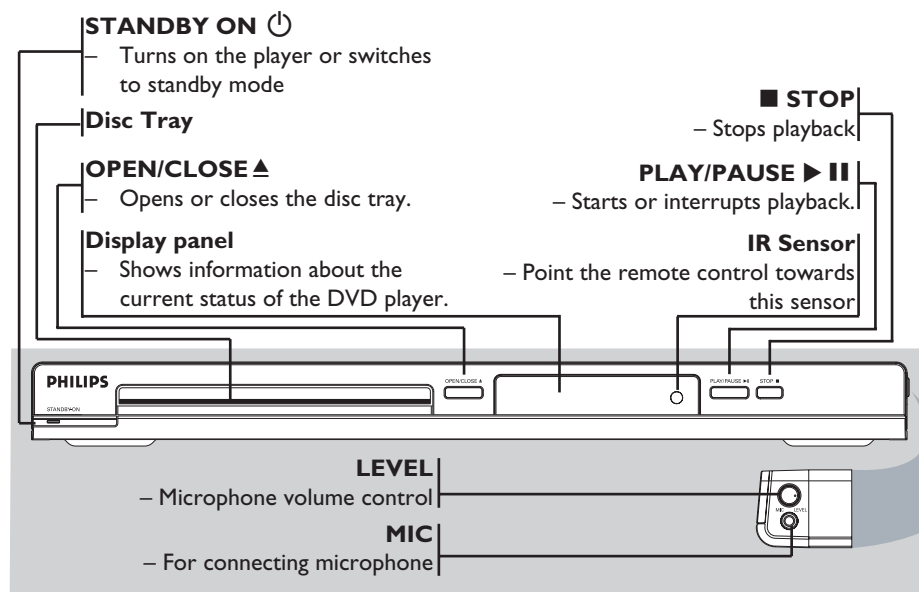
**Tip:**

– If the audio format of the Digital Output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.

**TIPS:** Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

## Product Overview

### Front and Rear Panels

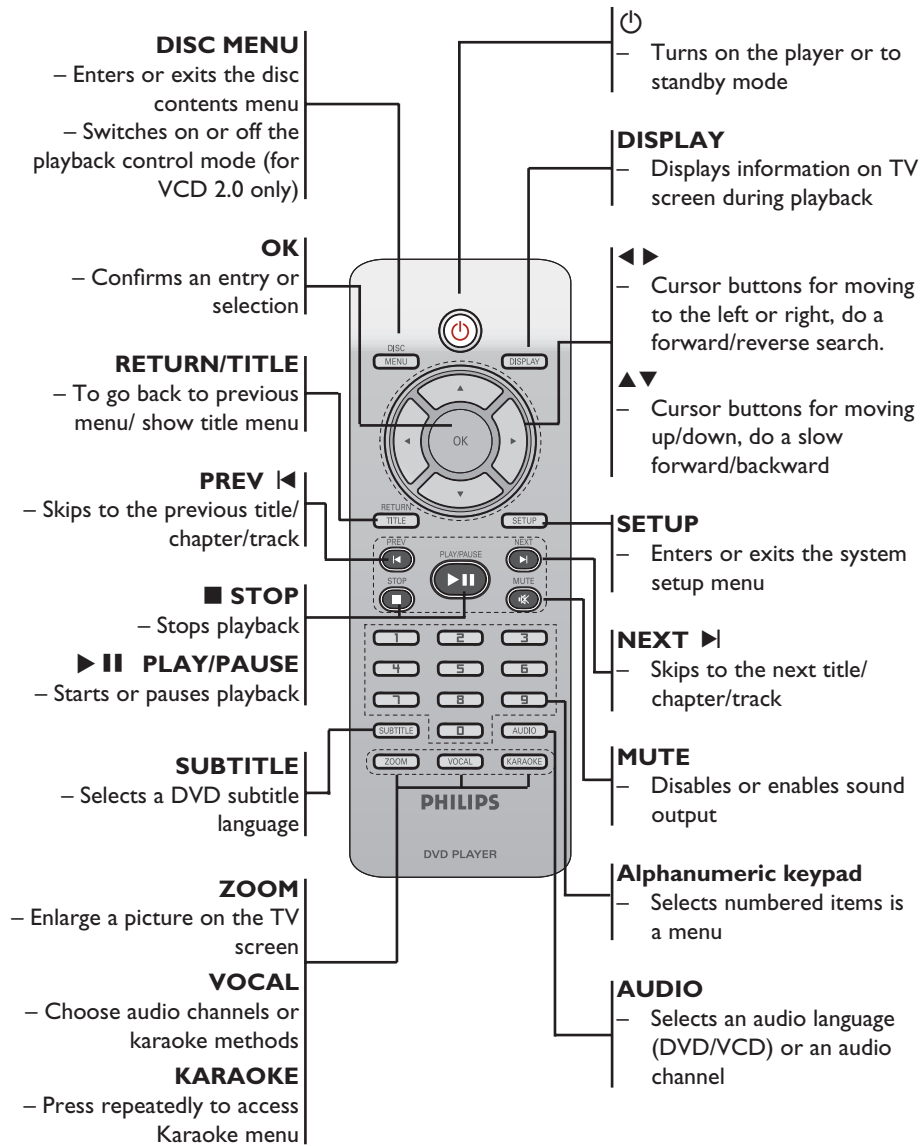


**Caution: Do not touch the inner pins of the jacks on the rear panel.  
Electrostatic discharge may cause permanent damage to the system.**

## Product Overview (continued)

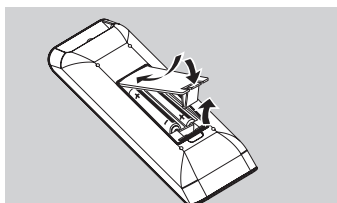
### Remote Control

English



## Getting Started

### Step 1 : Inserting Batteries

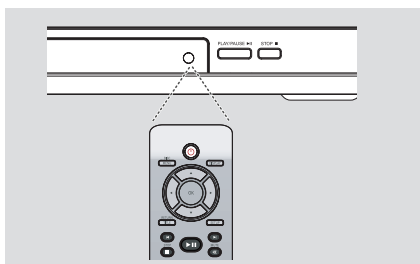


- ① Open the battery compartment.
- ② Insert two batteries type R03 or AAA, following the indications (+ -) inside the compartment.
- ③ Close the cover.

#### CAUTION!


- Remove batteries if they are exhausted or if the remote is not to be used for a long time.
- Do not use old and new or different types of batteries in combination.
- Batteries contain chemical substances, so they should be disposed of properly.

#### Using the remote control to operate the system



- ① Aim the remote control directly at the remote sensor (IR) on the front panel.
- ② Do not put any objects between the remote control and the DVD player while operating the DVD player.

### Step 2 : Finding your viewing channel

- ① Press **STANDBY-ON**  on the DVD player to turn it on.
- ② Turn on the TV and set it to the correct video-in channel. You should see the blue DVD background screen.
  - Usually these channel are between the lowest and highest channels and may be called FRONT, A/V IN, VIDEO. See your TV's manual for more details.
  - Or, you may go to channel 1 on your TV, then press the Channel down button repeatedly until you see the Video In channel.
  - Or, the TV remote control may have a button or switch that chooses different video modes.
  - Or, set the TV to channel 3 or 4 if you are using an RF modulator.
- ③ If you are using external equipment, (e.g. audio system or receiver), turn it on and select the appropriate input source for the DVD player output. Refer to the equipment user's manual for detail.



## Getting Started (continued)

### Step 3 : Setting up Progressive Scan feature

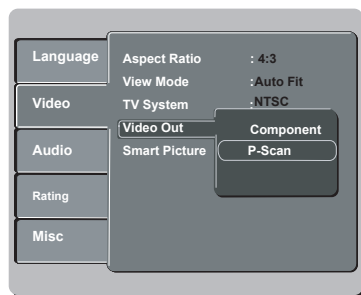
(for Progressive Scan TV only)

The progressive scan displays twice the number of frames per seconds 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...

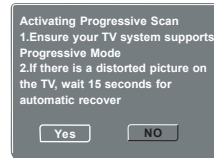
- Ensure that you have connected this DVD player to a progressive scan TV using the Y Pb Pr connection (see page 10).
- Ensure that you have completed the basic installation and set-up.

- 1 Turn on your TV and set to interlace mode (refer to your TV user manual).
- 2 Press **POWER** on the remote control to turn on the DVD player.
- 3 Select the correct video-in channel.  
→ The DVD background menu appears.
- 4 Press **SETUP**.
- 5 Press **▲ ▼** to select { **Video** }, then press **▶**.



- 6 Press **▲ ▼** to select { **Video Out** }, then press **▶**.
- 7 Select { **P-Scan** }, then press **OK** to confirm.  
→ The menu will appear on the TV.

**TIPS:** The underlined option is the factory default setting.  
Press **◀** to go back to previous menu item. Press **SETUP** to exit the menu item.



- 8 Press **◀** to highlight { **Yes** } and press **OK** to confirm.
- 9 Turn on your TV progressive scan mode (refer to your TV user manual).  
→ The menu will appear on the TV.



- 10 Press **◀** to highlight { **Yes** } and press **OK** to confirm.  
→ The setup is now completed and you can start enjoy the high quality picture.

#### To deactivate Progressive Scan manually:

- Wait for 15 seconds for the auto recovery.
- OR**
- 1 Press **OPEN/CLOSE ▲** on the DVD player to open the disc tray.
- 2 Press **numeric keypad '1'** on the remote control for few seconds.  
→ The DVD background screen appears.

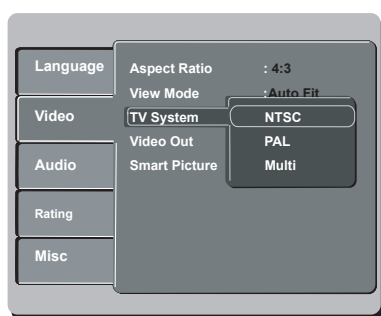
#### Tip:

– There are some progressive scan TVs and High-Definition TVs that are not fully compatible with this unit, resulting in the unnatural picture when playing back a DVD VIDEO disc in the progressive scan mode. In such a case, turn off the progressive scan feature on both the DVD player and your TV.

## Getting Started (continued)

### Step 4 : Selecting the matching colour system

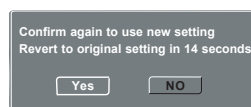
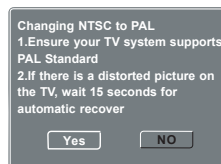
The colour system of the DVD player, disc and TV should match in order for the disc to play. Before changing the TV system, determine the colour system of your TV.



- 1 Press **SETUP**.
- 2 Press **▲ ▼** to select { **Video** }, then press **►**.
- 3 Press **▲ ▼** to select { **TV System** }, then press **►**.
- 4 Use **▲ ▼** to select one of the options below:
  - { **PAL** }
  - Select this if the connected TV has the PAL colour system. It will change the video signal of an NTSC disc and output it to PAL format.
  - { **NTSC** }
  - Select this if the connected TV has the NTSC colour system. It will change the video signal of a PAL disc and output it to NTSC format.
  - { **Multi** }
  - Select this if the connected TV is compatible with both NTSC and PAL (multi-system). The output format will be in accordance with the video signal of the disc.

**TIPS:** The underlined option is the factory default setting.  
Press **◀** to go back to previous menu item. Press **SETUP** to exit the menu item.

- 5 Select a setting and press **OK**.  
→ Follow the instructions show on the TV to confirm the selection (if any).



- 6 Press **◀** to highlight { **Yes** } and press **OK** to confirm.

#### To reset to default TV colour system:

- Wait for 15 seconds for the auto recovery.
- OR**
- 1 Press **OPEN/CLOSE ▲** on the DVD player to open the disc tray.
- 2 Press **numeric keypad '3'** on the remote control for few seconds.  
→ The DVD background menu appears.

#### Tips:

- Before changing the current TV colour setting, ensure that your TV supports the 'selected TV System'.
- If there is no proper picture on your TV, wait for 15 seconds for auto recovery.

## Getting Started (continued)

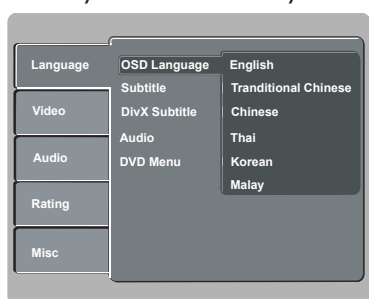
### Step 5 : Setting the language

The language options are different depending on your country or region. It may not correspond to the illustrations shown on the user manual.

#### On-screen display (OSD) language

Select this to change the language of this DVD player screen display menu.

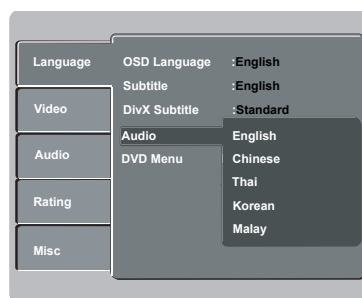
The menu language (on-screen display) for the system will remain as you set it.



- ① Press **SETUP**.
- ② Press ▲ ▼ to select { **Language** }, then press ►.
- ③ Press ▲ ▼ to select { **OSD Language** }, then press ►.
- ④ Use ▲ ▼ to select a language and press **OK** to confirm.

#### Audio, Subtitle and DVD menu languages

You can choose your preferred language or soundtrack from audio, subtitles and DVD menu languages. If the selected language is not available on the disc, the disc's default language will be used instead.




- ① Press **SETUP**.
- ② Press ▲ ▼ to select { **Language** }, then press ►.
- ③ Press ▲ ▼ to highlight one of the options below, then press ►.
  - { **Audio** }  
Select this to change disc soundtrack language.
  - { **Subtitle** }  
Select this to change the subtitle language.
  - { **DVD Menu** }  
Select this to change the language of the disc menu.
- ④ Use ▲ ▼ to select a language and press **OK** to confirm.
- ⑤ Repeat steps ③ - ④ for other language settings.

**TIPS:** The underlined option is the factory default setting.  
Press ◀ to go back to previous menu item. Press **SETUP** to exit the menu item.

English

## Playback from Disc

### IMPORTANT!

- If the inhibit icon 'X' or  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, make sure the disc is for the same zone as your player.

### Playable discs

Using this DVD player, you can playback on the following discs:

**DVD Video** (Digital Versatile Disc)



**DVD±RW** (DVD Rewritable)  
Audio/Video format or  
MP3/WMA/JPEG/DivX files.



**DVD±R** (DVD Recordable)  
Audio/Video format or  
MP3/WMA/JPEG/DivX files.



**CD-R** (CD-Recordable)  
Audio/Video format or  
MP3/WMA/JPEG/DivX files.



**CD-RW** (CD-Rewritable)  
Audio/Video format or  
MP3/WMA/JPEG/DivX files.



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



**Video CD**  
(Formats 1.0, 1.1, 2.0)



**Super Video CD**



**MP3-Disc**



**DivX Disc**

(DivX 3.11, 4.x, 5.x and 6.x)



### Supported formats

#### MP3 tracks

- The file extensions has be to be 'mp3.'
- JPEG/ISO format
- Maximum 30 characters display.
- Supported sampling frequencies;  
(MPEG-1) 32kHz, 44.1kHz, 48kHz  
(MPEG-2) 16kHz, 22.05kHz, 24kHz
- Supported bit-rates;  
(MPEG-1) 32 ~ 256 kbps  
(MPEG-2) 16 ~ 160 kbps

#### JPEG pictures

- The file extensions has be to be 'JPG' and not 'JPEG.'
- JPEG/ISO format
- It can only display DCF-standard still pictures or JPEG pictures e.g. TIFF.






#### DivX movies

- The file extensions has be to be '.AVI,' '.MPG,' or '.MPEG.'
- DivX 3.11, 4.x, 5.x and 6.x
- Q-pel accurate motion compensation
- Global Motion Compensation (GMC) playback.

**TIPS:** Some discs cannot be played on this DVD player due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software that was used.

## Playback Features






### Starting disc playback

- ① Turn on the TV to the correct programme number for the DVD player (e.g. 'EXT', '0', 'AV').
- ② Press **STANDBY-ON**  to turn on the DVD player.
- ③ Press **OPEN CLOSE**  on the front of the DVD player.
  - You can also hold down the **STOP**  button on the remote control to open and close the disc tray.
- ④ Place a disc into the disc tray with the label facing up, then press **OPEN CLOSE** .
  - For double-sided discs, load the side which you want to play facing up.
- ⑤ Playback may start automatically. If not, press **PLAY/PAUSE** .
- If a disc menu appears on the TV, see page 22 'Using the Disc Menu'.
- If the child lock was activated for the inserted disc, you have to enter your four-digit password (see page 36-37).
- For more playback features, see pages 21~25.



### Basic playback controls

Unless otherwise stated, all operations described are based on Remote Control use.

#### Pausing playback

- ① During playback, press **PLAY/PAUSE**   to pause playback and display a still picture.
  - Sound will be muted.
- ② Press  to select the next picture frame.
- ③ To resume normal playback, press **PLAY/PAUSE**   again.

#### Selecting title/chapter/track

- Press **PREV**  / **NEXT**  to go to the previous or next title/chapter/track.
- In STOP mode, press **DISPLAY** to display the disc information text line for title/chapter/track (example - 00/08).
- Use **alphanumeric keypad (0-9)** to enter valid title/chapter/track number, then press **OK**.
  - The playback skips to the selected title/chapter/track.

#### Stopping playback

- Press **STOP** .

#### Tips:

- Screen saver will start automatically if the disc playback is stopped for 5 minutes.
- The player will automatically switch to Power Standby mode if you do not press any buttons for 15 minutes after the disc has stopped playing.

**TIPS:** The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

## Playback Features (continued)

### Operations for video playback (DVD/VCD/SVCD)

#### Using the Disc Menu

Depending on the disc, a menu may appear on the TV screen once you load in the disc.

#### To select a playback feature or item

- Use **▲ ▼ ◀ ▶** keys or numeric keypad (0-9) on the remote, then press **OK** to start playback.

#### To access or remove the menu

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

#### Zooming in

This function allows you to enlarge the picture on the TV screen and to pan through the enlarged picture.

- 1 During playback, press **ZOOM** repeatedly to display the picture with different scales.  
→ Use **▲ ▼ ◀ ▶** keys to pan through the enlarged picture.  
→ Playback will continue.
- 2 Press **ZOOM** repeatedly to return to the original size.

#### Resuming playback from the last stopped point

Resume playback of the last 5 discs is possible, even if the disc was ejected or the power switched off.

- Load one of the last 5 discs.  
→ 'LOADING' appears.
- During loading mode, press **PLAY/PAUSE ▶ II** and the disc will be played back from the last point.

#### To cancel resume mode

- In stop mode, press **STOP ■** again.

#### Tip:

– This function is not possible on CD/MP3 disc.

#### Slow Motion

- 1 Press **▲ ▼** during playback to select the required speed: 1/2, 1/4, 1/6 or 1/8 (forward or backward).  
→ Sound will be muted.
- 2 To return to normal speed, press **PLAY/PAUSE ▶ II**.

#### Forward / Reverse Searching

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

- 1 Press **◀ ▶** during playback to select the required speed: 2X, 4X, 8X or 16X (backward or forward).  
→ Sound will be muted (DVD/VCD) or intermittent (CD).
- 2 To return to normal speed, press **PLAY/PAUSE ▶ II**.

**TIPS:** The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

## Playback Features (continued)

### Viewing the disc playback information

You can view the disc information (e.g., current title/chapter/track number, total playing time or remaining time on the disc) without interrupting the disc playback.

- During playback, press **DISPLAY** repeatedly on the remote control.  
→ The available disc information appears on the TV screen with the following sequence.

Title/Chapter

Title 1/1 Chapter 6/16 (DVD)

Time

Time 00:03:36/01:22:34 (DVD)

Repeat/ Repeat A-B/ Angle

Off Rep Off 1/1 (DVD)

Track

Track 3/21 (VCD)

Time

Time 00:00:56/00:03:34 (VCD)

Repeat/ Repeat A-B

Off Rep Off (VCD)

### Title/Chapter/Track selection

- Press ◀ ▶ to select {Title} / {Chapter} or {Track}, then press **OK** to access.
- Use the **alphanumeric keypad 0-9** to input a valid number.
- Press **OK** to confirm.  
→ The playback skips to the chosen title/chapter/track.

### Time Search

- When {Time} information appears on the TV screen, press **OK** to access.
- Use the **alphanumeric keypad 0-9** to input the valid time (e.g. 0:34:27).
- Press **OK** to confirm.  
→ The playback skips to the chosen time.

### Angle

- When {Angle} information appears on the TV screen, press ◀ ▶ to highlight {Angle}.
- Press **OK** repeatedly to switch between different angle.  
→ Playback will go to the selected angle.

**TIPS:** The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

## Playback Features (continued)

### Repeat play mode

The repeat play options vary depending on the disc type.

- ① When 'Repeat' information appears on the TV screen, press ◀▶ to highlight {Off}, then press **OK** to access.  
→ Repeat menu appears on the TV.
- ② Press **OK** repeatedly to select the following repeat modes.

#### For DVD

- Repeat Chapter (currently playing chapter)
- Repeat Title (currently playing title)
- Off (cancel)

#### For Video CD, Audio CD

- Repeat Single (currently playing track)
- Repeat All (entire disc)
- Off (cancel)

#### For MP3

- Repeat Single (currently playing track)
- Repeat All (entire disc)
- Off (cancel)

#### For JPEG, DivX

- Repeat Single (currently playing file)
- Repeat All (entire disc)
- Off (cancel)

#### Tip:

- For VCD, repeat playback is not possible if the PBC mode is switched on.

### Repeating a section within a chapter/track

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 When 'Repeat' information appears on the TV screen, press ◀▶ to highlight {Rep Off}.
- ① Press **OK** to choose your starting point 'A'.
- ② Press **OK** again at your chosen end point 'B'.  
→ The section from point 'A' to 'B' will now repeat continuously.
- ③ Press **OK** the third time to exit.

**TIPS:** The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.



## Playback Features (continued)

### Special DVD Features

#### Playing a Title

- ① Press **DISC MENU**.  
→ The disc title menu appears on the TV screen.
- ② Use **▲ ▼ ◀ ▶** keys or **alphanumeric keypad 0-9** to select a play option.
- ③ Press **OK** key to confirm.

#### Changing the Audio Language

##### For DVD

- Press **AUDIO** repeatedly to select different audio languages.

##### Changing the Audio Channel For VCD

- Press **AUDIO** to select the available audio channels provided by the disc (LEFT, RIGHT, MIX, STEREO).

#### Subtitles

- Press **SUBTITLE** repeatedly to select different subtitle languages.

### Special VCD and SVCD Feature

#### Playback Control (PBC)

##### For VCD with Playback Control (PBC) feature (version 2.0 only)

- Press **DISC MENU** to toggle between 'PBC ON' and 'PBC OFF'.  
→ If you select 'PBC ON', the disc menu (if available) will appear on the TV.  
→ Use the **PREV ◀ / NEXT ▶** or the **alphanumeric keypad 0-9** to select a play option.
- During playback, pressing **RETURN/TITLE** will return to the menu screen (if PBC is on).

**If you want to skip the index menu and playback directly from the beginning,**

- Press **DISC MENU** key on the remote control to switch to PBC off.

**TIPS:** The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

## Playback Features (continued)

### Playing a DivX disc

This DVD player supports the DivX movie playback that you download from your computer onto a CD-R/RW or DVD±R/RW (see page 39 for more information).

- ① Load a DivX disc.
  - Playback will start automatically. If not press **PLAY/PAUSE ► II**.
- ② Press **SUBTITLE** on the remote control will turn on or off the subtitle.
- If multilingual subtitles are embedded on the DivX disc, pressing **SUBTITLE** will change the subtitle language during playback.

*Tips:*

- Subtitle files with the following filename extensions (.srt, .smi, .sub, .ssa, .ass) are supported but do not appear on the file navigation menu.
- The subtitle filename have to be the same as the filename of the movie.

**TIPS:** The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

## Playback Features (continued)

### Playing MP3/WMA/JPEG/ Kodak Picture CD

#### IMPORTANT!

You have to turn on your TV and set to the correct Video In channel. (See page 16 'Setting up the TV').

#### General Operation

- 1 Load a disc.
  - The disc reading time may exceed 30 seconds due to the complexity of the directory/file configuration.
  - The data disc menu appears on the TV screen.



- 2 Press ▲ ▼ to select the folder and press **OK** to open the folder.
- 3 Press ▲ ▼ to select a track/file.
- 4 Press **OK** to confirm.

#### Playback selection

During playback, you can;

- Press **PREV** ◀ / **NEXT** ▶ to select the previous/next track/file in the current folder.
- Press ▲ ▼ ◀ ▶ on the remote to rotate/flip the picture files.
- Press **PLAY/PAUSE** ▶ || repeatedly to pause/resume playback.

#### For MP3,

- During playback, press and hold **PREV** ◀ / **NEXT** ▶ for about few seconds to access fast forward or fast reverse.
- Press **PREV** ◀ / **NEXT** ▶ to select the required speed: 2X, 4X, 8X or 16X.

#### Zoom picture (JPEG)

- During playback, press **ZOOM** repeatedly to display the picture with different scales.
- Use ▲ ▼ ◀ ▶ to view the zoomed picture.

**TIPS:** The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

## Playback Features (continued)

### Playback with multi-angles (JPEG)

- During playback, press ▲ ▼ ◀ ▶ to rotate the picture on the TV screen.
  - ▲: flip the picture vertically by 180°
  - ▼: flip the picture horizontally by 180°
  - ◀: rotate the picture anti-clockwise by 90°
  - ▶: rotate the picture clockwise by 90°

#### Tips:

- It may not be possible to play certain MP3/JPEG disc due to the configuration and characteristics of the disc or condition of the recording.
- It is normal to experience an occasional “skip” while listening to your MP3 disc.
- For multi-session discs with different formats, only the first session will be available.

**TIPS:** The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

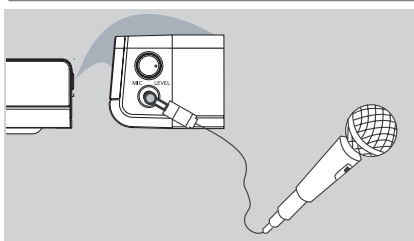
## Karaoke Operations

### Playing Karaoke discs

#### IMPORTANT!

You have to turn on your TV and set to the correct Video In channel. (See page 16 'Setting up the TV').

#### General Operation



- ① Connect a microphone (not supplied) to **MIC** on the side panel of the DVD player.
- ② Press **KARAOKE** repeatedly to access Karaoke menu.
  - 'Karaoke : Off' appears on the TV screen.
  - Press **OK** to turn 'On' or 'Off' the karaoke mode.
- ③ Load a karaoke disc and press **PLAY/PAUSE ► II**.
- ④ Adjust the microphone volume using **MIC LEVEL** button on the side of the panel of the DVD player.

#### Tip:

— Before connecting the microphone, set the microphone volume to the minimum level to prevent howling.

#### Vocal

- You can fade out the original vocal from a karaoke disc.
- Press **VOCAL** repeatedly to choose different audio modes.

#### Tip:

— This function and on-screen display depends on the availability of the disc.

#### Karaoke

- Press **KARAOKE** repeatedly to access the karaoke menu.
  - Press **▲ ▼** to select 'Karaoke', 'Key Shift', 'Echo' and 'Voice Cancel'.
- ① When 'Karaoke' is selected, press **OK** to set karaoke 'On' or 'Off'.
  - ② When 'Key Shift' is selected, press **◀ ▶** to adjust the pitch value between 0 and 14.  
This function allows you to adjust the key tone level to match your vocal.
  - ③ When 'Echo' is selected, press **◀ ▶** to adjust the echo level.
  - ④ When 'Voice Cancel' is selected, press **OK** to set voice cancel 'On' or 'Off'.

## DVD Menu Options

You can make various adjustments to items such as picture and sound using the DVD setup menu.

### Using the Language setup menu

- 1 Press **SETUP** on the remote control.  
→ The system setup menu appears.



- 2 Press **▲ ▼** to select { **Language** }, then press **►**.
- 3 Press **▲ ▼** to select an item, then press **►** to access.  
Example: { **OSD Language** }  
→ The options for the selected item appears.  
→ 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.
- 4 Use **▲ ▼** to select a setting and press **OK** to confirm.  
Example: { **English** }  
→ The setting is selected and setup is complete.
- 5 To exit, press **SETUP**.

#### OSD Language

This menu contains various language options for the language displayed on the screen. For details, see page 19.

#### Subtitle/Audio/DVD Menu

These menus contain various language options for audio, subtitle and disc menu which may be recorded on the DVD. For details, see page 19.

#### Setting the DivX subtitle font

You can set the font type that supports the recorded DivX subtitle.

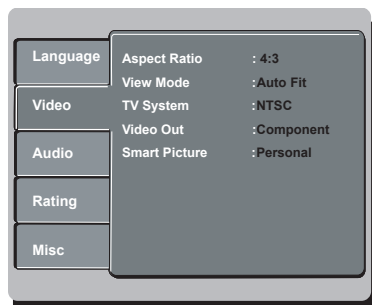
- 1 In 'Language', press **▲ ▼** to select { **DivX Subtitle** }, then press **►**.  
{ **Standard** }  
Albanian, Danish, Dutch, English, Finnish, French, Gaelic, German, Italian, Kurdish (Latin), Norwegian, Portuguese, Spanish, Swedish and Turkish.
- 2 Use **▲ ▼** to select a setting and press **OK** to confirm.

**TIPS:** The underlined option is the factory default setting.  
Press **◀** to go back to previous menu item. Press **SETUP** to exit the menu item.

## DVD Menu Options (continued)

### Using the Video setup menu

- 1 Press **SETUP** on the remote control.  
→ The system setup menu appears.



- 2 Press **▲ ▼** to select { **Video** }, then press **▶**.
- 3 Press **▲ ▼** to select an item, then press **▶** to access.  
Example: { **TV System** }  
→ The options for the selected item appears.  
→ 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.
- 4 Use **▲ ▼** to select a setting and press **OK** to confirm.  
Example: { **Multi** }  
→ The setting is selected and setup is complete.
- 5 To exit, press **SETUP**.

### Setting the Aspect Ratio

The picture shape can be adjusted to fit your TV and the format must be available on the playback disc. Otherwise, the TV display will not affect the picture during playback.

- 1 In 'Video', press **▲ ▼** to select { **Aspect Ratio** }, then press **▶**.  
{ **4:3** }  
Select this if you have a normal TV. A 'wide-screen' display with black bars on the top and bottom will be displayed on the TV screen.  
{ **16:9** }  
Select this for wide-screen TV (frame ratio 16:9).
- 2 Use **▲ ▼** to select a setting and press **OK** to confirm.

**TIPS:** The underlined option is the factory default setting.  
Press **◀** to go back to previous menu item. Press **SETUP** to exit the menu item.

## DVD Menu Options (continued)

### View Mode

Use view mode to scale an image that fits to the TV screens' width and height.

- 1 In 'Video', press ▲ ▼ to select { **View Mode** }, then press ►.

#### { **Fill** }

Select this to scale the image up or down in horizontal and vertical directions respectively to fill the screen height and width.

#### { **Original** }

Select this to fit the original screen size (only for DivX/MPEG).

#### { **Height Fit** }

Select this to scale the image up or down in vertical direction to fit the screen height.

#### { **Width Fit** }

Select this to scale the image up or down in horizontal direction to fit the screen width.

#### { **Auto Fit** }

Select this to take the minimum value of horizontal and vertical fit scale ratio (like letter box).

#### { **Pan Scan** }

Select this to take the maximum value of horizontal and vertical fit scale ratio.

- 2 Use ▲ ▼ to select a setting and press **OK** to confirm.

### TV System

This menu contains the options for selecting the colour system that matches the connected TV. For details, see page 18.

### Video Out

This setting allows you to toggle the output of the video signal between YUV and P-Scan (Progressive Scan).

- 1 In 'Video', press ▲ ▼ to select { **Video Out** }, then press ►.

#### { **Component** }

Select this for YUV connection.

#### { **P-Scan** }

Select this when you connect your DVD player to your TV that supports progressive video input.

- 2 Use ▲ ▼ to select a setting and press **OK** to confirm.

**TIPS:** The underlined option is the factory default setting.  
Press ◀ to go back to previous menu item. Press **SETUP** to exit the menu item.



## DVD Menu Options (continued)

### Smart Picture

This DVD player provides four predefined sets of picture colour settings.

- ① In 'Video', press ▲ ▼ to select { **Smart Picture** }, then press ►.

#### { **Standard** }

Select this for a preset standard picture setting.

#### { **Vivid** }

Select this to make the picture brighter.

#### { **Cool** }

Select this to make the picture softer.

#### { **Personal** }

Select this to personalise your picture colour by adjusting the brightness, contrast, tint and colour (saturation).

- ② Use ▲ ▼ to select a setting and press **OK** to confirm.
- ③ If you select {PERSONAL}, then proceed to steps ④~⑦.  
→ The setup menu appears.



- ④ Press ▲ ▼ to highlight one of the following options.

### BRIGHTNESS

Increase the value to brighten the picture or vice versa. Choose zero (0) for average setting.

### CONTRAST

Increase the value to sharpen the picture or vice versa. Choose zero (0) to balance the contrast.

### TINT

Increase the value to darken the picture or vice versa. Choose zero (0) for average setting.

### COLOR

Increase the value to enhance the colour in your picture or vice versa. Choose zero (0) to balance the colour.

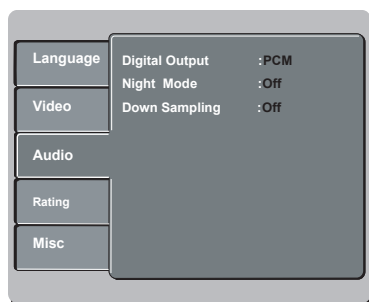
- ⑤ Press ◀ ▶ to adjust the setting that best suits your personal preference.
- ⑥ Repeat steps ④~⑤ for adjusting other colour features.
- ⑦ Press **OK** to confirm.

**TIPS:** The underlined option is the factory default setting.  
Press ◀ to go back to previous menu item. Press **SETUP** to exit the menu item.

## DVD Menu Options (continued)

### Using the Audio setup menu

- 1 Press **SETUP** on the remote control.  
→ The system setup menu appears.



- 2 Press **▲ ▼** to select { **Audio** }, then press **▶**.
- 3 Press **▲ ▼** to select an item, then press **▶** to access.  
Example: { **Night Mode** }  
→ The options for the selected item appears.  
→ 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.
- 4 Use **▲ ▼** to select a setting and press **OK** to confirm.  
Example: { **On** }  
→ The setting is selected and setup is complete.
- 5 To exit, press **SETUP**.

### Digital Output

Select this if you connect to a multichannel decoder/receiver.

- 1 In 'Audio', press **▲ ▼** to select { **Digital Output** }, then press **▶**.

#### { **All** }

Select this if the connected device has a built-in multichannel decoder that supports one of the multichannel audio format (Dolby Digital, MPEG-2).

#### { **PCM** }

Select this if the connected device is not capable of decoding multichannel audio. The DVD player will convert the Dolby Digital and MPEG-2 multichannel signals to PCM (Pulse Code Modulation).

#### { **Off** }

To deactivate the digital audio output. For example, if you use the AUDIO OUT sockets to connect to a TV or stereo system.

- 2 Use **▲ ▼** to select a setting and press **OK** to confirm.

#### Tip:

– If { **Digital Output** } is set to { **All** }, all audio settings except **MUTE** are invalid.

**TIPS:** The underlined option is the factory default setting.  
Press **◀** to go back to previous menu item. Press **SETUP** to exit the menu item.

## DVD Menu Options (continued)

### 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.

- ① In 'Audio', press ▲ ▼ to select { **Night Mode** }, then press ►.  
 { On }  
 Select this to set low volume output. This feature is only available for movie discs with Dolby Digital mode.  
 { Off }  
 Turns off night mode feature. Select this to enjoy the surround sound with its full dynamic range.
- ② Use ▲ ▼ to select a setting and press **OK** to confirm.

### Down Sampling

You can enable and disable the digital signal for better sound output quality.

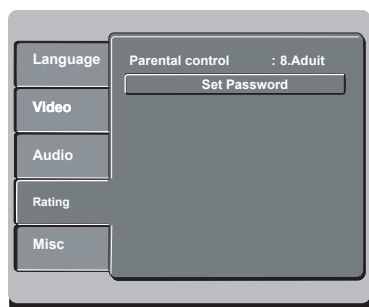
- ① In 'Audio', press ▲ ▼ to select { **Down Sampling** }, then press ►.  
 { Off }  
 Playback a disc recorded at the sampling rate of 48kHz.  
 { On }  
 Playback a disc recorded at the sampling rate of 96kHz. This rate can only be achieved in Stereo-Classic (Flat) mode.
- ② Use ▲ ▼ to select a setting and press **OK** to confirm.

**TIPS:** The underlined option is the factory default setting.  
 Press ◀ to go back to previous menu item. Press **SETUP** to exit the menu item.

## DVD Menu Options (continued)

### Using the Rating setup menu

- 1 Press **SETUP** on the remote control.  
→ The system setup menu appears.



- 2 Press **▲ ▼** to select { **Rating** }, then press **►**.
- 3 Press **▲ ▼** to select an item, then press **►** to access.  
Example: { **Parental Control** }  
→ The options for the selected item appears.  
→ 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.
- 4 Use **▲ ▼** to select a setting and press **OK** to confirm.  
Example: { **8 Adult** }  
→ The setting is selected and setup is complete.
- 5 To exit, press **SETUP**.

### Rating level settings

Depending on the DVD, you may be asked to change the parental level while playing the disc. The rating levels are from 1 to 8 and are country dependent. You can prohibit the playing of certain discs that are not suitable for your children, or have certain discs played with alternative scenes.

- 1 In 'Rating', press **▲ ▼** to select { **Parental Control** }, then press **►**.
- 2 Use the **alphanumeric keypad 0-9** to enter the four-digit password (see page 37 'Set Password', then press **►**.

#### { 1. Kid Safe }

Childsafe; acceptable for viewers of all ages.

#### { 2. G }

General Audience; recommended as acceptable for viewers of all ages.

#### { 3. PG }

Parental Guidance suggested.

#### { 4. PG 13 }

Unsuitable for children under age 13.

#### { 5. PG R }

Parental Guidance; recommended that parents restrict children under 17 from viewing.

#### { 6. R }

Restricted; recommended only when supervised by a parent or adult guardian.

#### { 7. NC 17 }

No Children under age 17; not recommended viewing for children under age 17.

#### { 8. Adult }

Mature Material; should be viewed only by adults due to graphic sexual material, violence or language.

**TIPS:** The underlined option is the factory default setting.  
Press **◀** to go back to previous menu item. Press **SETUP** to exit the menu item.

## DVD Menu Options (continued)

- ③ Use ▲ ▼ to select a rating level and press **OK** to confirm.
  - Select { **8 Adult** } to disable parental level and allow all discs to play.
- DVDs that are rated higher than the level you selected will not play unless you enter your four-digit password. (see page 37 'Set Password')

### Tips:

- This feature will not limit viewing if the disc manufacturer did not code the disc.
- VCD, SVCD, CD have no level indication, so parental control has no effect on these type of discs. This also applies to most illegal DVDs.
- Some DVDs are not coded with a rating though the movie rating may be printed on the disc cover. The rating level feature does not prohibit play of such discs.

### Changing the Password

You need to enter your four-digit password to play a prohibited disc or if prompted for a password.

- ① In 'Rating', press ▲ ▼ to select { **Set Password** }, then press **OK**.
  - You will be prompted to enter your four-digit password.

Enter Password

- ② Use the **alphanumeric keypad 0-9** to enter the four-digit password.
  - When doing this for the first time, enter the default password '0000'.
- If you forget your old four-digit password, enter the default password '0000'.
- ③ Press **OK** again to enter the new four-digit password.
  - The new four-digit password will now take effect.

Enter New Password

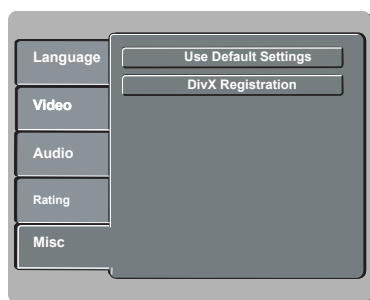
- ④ Press **OK** to confirm.

**TIPS:** The underlined option is the factory default setting.  
Press ◀ to go back to previous menu item. Press **SETUP** to exit the menu item.

## DVD Menu Options (continued)

### Using the Misc (Miscellaneous) setup menu

- 1 Press **SETUP** on the remote control.  
→ The system setup menu appears.

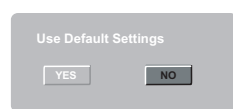


- 2 Press **▲ ▼** to select { **Misc** }, then press **OK**.
- 3 Press **▲ ▼** to select an item, then press **OK** to access.  
Example: { **Use Default Settings** }  
→ The options for the selected item appears.  
→ If the selection in the menu is greyed out, that means the feature is not available or not possible to change at the current state.
- 4 Use **▲ ▼** to select a setting and press **OK** to confirm.  
Example: { **No** }  
→ The setting is selected and setup is complete.
- 5 To exit, press **SETUP**.

### Restoring to original settings

Setting the { Default } function will reset all options and your personal settings to the factory defaults, except your password for rating level.

- 1 In 'Misc', press **▲ ▼** to select { **Use Default Settings** }, then press **OK**.  
→ The menu will appear.



#### { **Yes** }

Select this to reset to factory default settings.

#### { **No** }

Select this to close the menu.

- 2 Use **◀ ▶** to select a setting and press **OK** to confirm.

**TIPS:** The underlined option is the factory default setting.  
Press **◀** to go back to previous menu item. Press **SETUP** to exit the menu item.

## DVD Menu Options (continued)

### DivX registration code

DivX registration code allows you to rent and purchase movies using the DivX service from the internet.

For more information, visit website;  
<http://vod.divx.com>

- ① In 'Misc', press ▲ ▼ to select { **DivX Registration** }, then press **OK**.  
→ The registration code will appear.
- ② Use the registration code to rent or purchase the movies from DivX Registration service at <http://vod.divx.com>  
→ Follow the instructions and download the movie from your computer onto a CD-R/RW for playback on this DVD player.

#### *Tips:*

- All the downloaded movies from DivX Registration can only be played back on this DVD player.
- Time search feature is not available during DivX movie playback.

**TIPS:** The underlined option is the factory default setting.  
Press ◀ to go back to previous menu item. Press **SETUP** to exit the menu item.

## 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 remedy a problem by following these hints, consult your dealer or Philips for help.

Problem	Solution
<b>No power.</b>	<ul style="list-style-type: none"> <li>– Press STANDBY-ON button on the front of the DVD player to switch on the system.</li> <li>– Make sure the AC outlet has power.</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 the DVD player (not towards TV).</li> <li>– Remove any obstacles between DVD player and the remote control.</li> <li>– Batteries are weak, replace the batteries.</li> <li>– Check the polarities of the batteries are as indicated on the remote control (± signs).</li> </ul>
<b>No picture.</b>	<ul style="list-style-type: none"> <li>– Switch on your TV and set to the correct Video In channel for the DVD player. 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 TV programme.</li> <li>– Check the video connection between the DVD player and the TV.</li> </ul>
<b>The picture is distorted or black &amp; 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> <li>– To deactivate progressive scan function manually;               <ol style="list-style-type: none"> <li>1) Turn off your TV progressive scan mode (or set to interlace mode)</li> <li>2) Press OPEN/CLOSE to open the DVD player disc tray.</li> <li>3) Press the alphanumeric keypad '1' for few seconds.</li> </ol> </li> </ul>
<b>No sound.</b>	<ul style="list-style-type: none"> <li>– Check the audio connections, the red and white jacks are connected correctly.</li> <li>– Set the Digital output correctly, based on the equipment you connected to the DVD player.</li> </ul>
<b>Disc does not play.</b>	<ul style="list-style-type: none"> <li>– Insert the disc with the label facing up.</li> <li>– Wrong region code.</li> <li>– Wrong disc type. Read chapter "Playback - Playable discs" for details.</li> <li>– Make sure the disc is not scratched or warped. Clean the disc or replace a new one.</li> <li>– Check if the disc is defective by trying another disc.</li> </ul>
<b>The aspect ratio of the screen cannot be changed.</b>	<ul style="list-style-type: none"> <li>– The aspect ratio is fixed on the DVD disc.</li> <li>– Depending on the TV, it may not be possible to change the aspect ratio.</li> </ul>

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## Troubleshooting (continued)

Problem	Solution
<b>Not able to select some items in the setup/system menu.</b>	<ul style="list-style-type: none"> <li>– Press STOP button twice before selecting the setup/system menu.</li> <li>– Depending on the disc availability, some menu items cannot be selected.</li> </ul>
<b>The DVD player does not start playback.</b>	<ul style="list-style-type: none"> <li>– Insert a readable disc with the playback side facing down.</li> <li>– Check the disc type, colour system (PAL/NTSC) and region code.</li> <li>– Check for any scratches or smudges on the disc.</li> <li>– Press SETUP to turn off the setup menu screen.</li> <li>– You may need to enter the password in order to change the parental rating level or to unlock the disc for playback.</li> <li>– Moisture may have condensed inside the system. Remove the disc and leave the system turned on for about an hour.</li> <li>– Disconnect the power cord from the power outlet for a few minutes. Reconnect the power cord and try to operate again as usual.</li> </ul>
<b>Picture freezes momentarily during playback.</b>	<ul style="list-style-type: none"> <li>– Check the disc for fingerprint/scratches and clean with a soft cloth wiping from centre to edge.</li> </ul>
<b>Unable to select Progressive Scan on/off.</b>	<ul style="list-style-type: none"> <li>– Check that the output of the video signal is switch to { YPbPr }.</li> </ul>
<b>Unable to play DivX movies.</b>	<ul style="list-style-type: none"> <li>– Check that the DivX file is encoded in 'Home Theatre' mode with DivX 5.x encoder.</li> <li>– Check that the DivX movie downloaded is a complete file.</li> </ul>
<b>No sound during DivX movies playback.</b>	<ul style="list-style-type: none"> <li>– The audio codec may not be supported by this DVD player.</li> </ul>
<b>An DivX movies does not repeat.</b>	<ul style="list-style-type: none"> <li>– Check that file size of the movie does not exceed the file size of the disc during downloading.</li> </ul>

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## Specifications

### TV STANDARD (PAL/50Hz) (NTSC/60Hz)

Number of lines	625	525
Playback	Multistandard (PAL/NTSC)	

### VIDEO PERFORMANCE

Video DAC	12 bit, 108mHz	
YPbPr	0.7 Vpp ~ 75 ohm	
Video Output	1Vpp ~ 75 ohm	

### VIDEO FORMAT

Digital	MPEG 2 for DVD,SVCD	
Compression	MPEG 1 for VCD DivX	

	50Hz	60Hz
Horiz. resolution	720 pixels	720 pixels
Vertical resolution	576 lines	480 lines

	50Hz	60Hz
Horiz. resolution	352 pixels	352 pixels
Vertical resolution	288 lines	240 lines

### AUDIO FORMAT

Digital	MPEG/ AC-3/ PCM	compressed Digital 16, 20, 24 bits fs, 44.1, 48, 96 kHz
	MP3(ISO 9660)	96, 112, 128, 256 kbps & variable bit rate fs, 32, 44.1, 48 kHz

Analog Sound Stereo  
Dolby Surround compatible downmix from Dolby  
Digital multi-channel sound

### AUDIO PERFORMANCE

DA Converter	24 bit, 192 kHz	
DVD	fs 96 kHz	4Hz- 44kHz
	fs 48 kHz	4Hz- 22kHz
SVCD	fs 48 kHz	4Hz- 22kHz
	fs 44.1kHz	4Hz- 20kHz
CD/VCD	fs 44.1kHz	4Hz- 20kHz
Signal-Noise (1kHz)	> 90 dB	
Dynamic range(1kHz)	> 80 dB	
Crosstalk (1kHz)	> 70 dB	
Distortion/noise (1kHz)	> 65 dB	
MPEG MP3	MPEG Audio L3	

### CONNECTIONS

YPbPr Output	Cinch 3x
Video Output	Cinch (yellow)
Audio Output(L+R)	Cinch (white/red)
Digital Output	1 coaxial IEC60958 for CDDA / LPCM IEC61937 for MPEG 1/2, Dolby Digital

### CABINET

Dimensions (w x h x d)	360 x 37 x 235 mm
Weight	Approximately 2.0 kg

### POWER CONSUMPTION

Power Supply Rating	110 - 240V; 50/60Hz
Power consumption	< 10 W
Power consumption in Standby mode	< 0.8 W

## Glossary

**Analog:** Sound that has not been turned into numbers. Analog sound varies, while digital sound has specific numerical values. These jacks send audio through two channels, the left and right.

**Aspect ratio:** The ratio of vertical and horizontal sizes of a displayed image. The horizontal vs. vertical ratio of conventional TVs. is 4:3, and that of wide-screens is 16:9.

**AUDIO OUT Jacks:** Jacks on the back of the DVD System that send audio to another system (TV, Stereo, etc.).

**Bit Rate:** The amount of data used to hold a given length of music; measured in kilobits per seconds, or kbps. Or, the speed at which you record. Generally, the higher the bit rate, or the higher the recording speed, the better the sound quality. However, higher bit rates use more space on a Disc.

**Chapter:** Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

**Component Video Out Jacks:** Jacks on the back of the DVD System that send high-quality video to a TV that has Component Video In jacks (R/G/B, Y/Pb/Pr, etc.).

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

**Digital:** Sound that has been converted into numerical values. Digital sound is available when you use the DIGITAL AUDIO OUT COAXIAL or OPTICAL jacks. These jacks send audio through multiple channels, instead of just two channels as analog does.

**DivX 3.11/4.x/5.x/6.x:** The DivX codec is a patent-pending, MPEG-4 based video compression technology, developed by DivXNetworks, 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, center and subwoofer).

**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.

**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 MP3 format, one CD-R or CD-RW can contain about 10 times as much data volume as a regular CD can.

**Multichannel:** DVD is specified to have each sound track constitute one sound field. Multichannel refers to a structure of sound tracks having three or more channels.

**Parental Control:** A function of the DVD to limit playback of the disc by the age of the users according to the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback will be prohibited if the software's level is higher than the user-set level.

**PCM (Pulse Code Modulation):** A system for converting analog sound signal to digital signal for later processing, with no data compression used in conversion.

**Playback control (PBC):** Refers to the signal recorded on video CDs or SVCDs for controlling reproduction. By using menu screens recorded on a Video CD or SVCD that supports PBC, you can enjoy interactive-type software as well as software having a search function.

**Progressive Scan:** It displays all the horizontal lines of a picture at one time, as a signal frame. This system can convert the interlaced video from DVD into progressive format for connection to a progressive display. It dramatically increases the vertical resolution.

**Region code:** A system for allowing discs to be played back only in the region designated beforehand. 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).

**Title:** The longest section of a picture or music feature on DVD, music, etc., in video software, or the entire album in audio software. Each title is assigned a title number enabling you to locate the title you want.

**VIDEO OUT jack:** Jack on the back of the DVD System that sends video to a TV.