### DVD VIDEO PLAYER

#### DVP5900

## User manual

## 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** 



1

## PHILIPS

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#### For Customer Use:

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

Model No. DVP5900 Serial No. \_\_\_\_\_

#### Important Note:

Due to the numerous versions of new CD-Audio copy protection or enhanced CD-Audio protection recently available on certain discs. Should you have difficulty playing any such CD-Audio discs, kindly refer them to your CD-Audio disc retailer.

2

01-37-DVP5900\_AP9

2

31/08/05, 5:39 PM

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

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 for software upgrade.**  '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.'

## **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.

#### 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.

This DVD player is in conformity with the EMC directive and lowvoltage directive.

4

LASER	
Туре	Semiconductor laser
	GaAlAs
Wave length	650 nm (DVD)
	780 nm (VCD/CD)
Output Power	7 mW (DVD)
-	10 mW (VCD/CD)
Beam divergence	60 degree

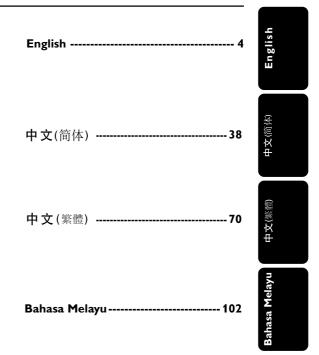
4

01-37-DVP5900\_AP9

31/08/05, 5:39 PM

## Index

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5

5

31/08/05, 5:39 PM

## **Contents**

# English

Introduction	
Supplied accessories	

8
8
8

#### Connections

Connecting TV9-	10
Using Composite Video jacks (CVBS)	. 9
Using Component Video jacks	
(Y Pb Pr)	. 9
Using an accessory RF modulator	10
Connecting the power cord	11
Optional: Connecting to a HDMI	
compatible device	12
Using HDMI (High Definition	
Multimedia Interface) sockets	12
Optional : Connecting to an Audio	
System	13
Stereo system has Dolby Pro Logic of	or
Right / Left Audio In jack	13
Optional: Connecting Digital AV Receiv	er
	13
Receiver has a PCM, Dolby Digital, o	r
MPEG2 decoder	13

#### **Functional Overview**

Front and Rear Panels	14
Remote Control	15

#### **Getting Started**

Step 1: Inserting batteries into the
Remote Control 16
Using the Remote Control to operate
the Player 16
Step 2: Setting up the TV 16-18
Setting up Progressive Scan feature (for
Progressive Scan TV only) 17
Selecting the colour system that
corresponds to your TV 18
Step 3: Setting language preference 19
Setting the OSD Language
Setting the Audio, Subtitle and DVD
menu language 19

6

#### **Disc Operations** Region Codes ...... 20 Using Disc Menu ..... 21 Basic playback controls ...... 22-23 Pausing playback ...... 22 Selecting track/chapter ...... 22 Resuming playback from the last stopped point ...... 22 Zoom ...... 22 Repeat A-B ..... 22 Forward / Reverse Searching ...... 23 Preview ...... 23 Selecting a Title ...... 24 Camera Angle ..... 24 Changing the Audio Language ...... 24 Playing a DivX disc ......24 Playing MP3/JPEG Picture CD ...... 25 General Operation ...... 25 Playback selection ...... 25

Repeat ...... 25

Zoom picture ...... 25 Preview ...... 25

## Contents

DVD Menu Options	
Language	26
OSD Language	
Audio, Subtitle, DVD Menu	
Setting the DivX Subtitle font	
Video Setup	
TV Display	
ТV Туре	
Progressive - turning on/off	
HD JPEG Mode	
HDMI Output	
Audio Setup	. 30-31
Digital Output	30
LPCM Output	31
Night Mode - turning on/off	31
Rating	
Changing the Password	
Setting the Rating	
Restoring to original settings	
DivX registration	
Troubleshooting	34–35
Specifications	36
Glossary	

\_\_\_\_

7

7

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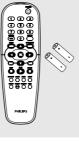
## General Information Supplied accessories

Composite video cable (yellow)



Audio cable (white, red)





#### **Cleaning discs**

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 discs.

Since the optical unit (laser) of the DVD system 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.

8

#### Setup

#### Finding a suitable location

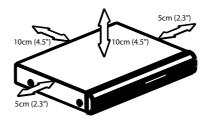
Place the set on a flat, hard and stable surface. Do not place the set on a carpet.
Do not position the set on top of other equipment that might heat it up (e.g., receiver or amplifier).

 Do not put anything under the set (e.g., CDs, magazines).

 Install this system 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 (4.5") clearance from the rear and the top of the set and 5cm (2.3") 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).

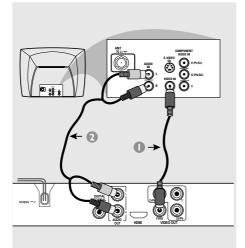
8

01-37-DVP5900\_AP9

31/08/05, 5:39 PM

English

#### **Connecting TV**



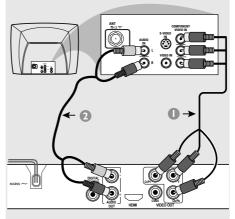
#### **IMPORTANT!**

You only need to make <u>one</u> video connection from the following options, depending on the capabilities of your TV system.
Connect the DVD system directly to the TV.

#### Using Composite Video jacks (CVBS)

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

9



#### **IMPORTANT!**

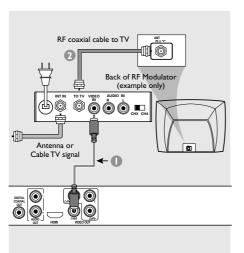
- The progressive scan video quality is only possible when using Y Pb Pr and a progressive scan TV is required.

#### Using Component Video jacks (Y Pb Pr)

- Use the component video cables (red/blue/green) to connect the DVD system's
   Y Pb Pr jacks to the corresponding Component video input jacks (or labeled as Y Pb Pr) on the TV (cable not supplied).
- To hear the sound of this DVD Player through your TV, use the audio cables (white/red) to connect AUDIO OUT (L/ R) jacks of the DVD Player to the corresponding AUDIO IN jacks on the TV (cable supplied).
- Proceed to page 17 for detailed Progressive Scan set up.

01-37-DVP5900\_AP9





#### **IMPORTANT!**

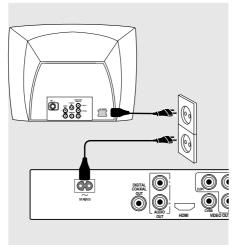
- If your TV only has a single Antenna In jack (or labeled as 75 ohm or RF In,) you will need an RF modulator in order to view the DVD playback on the TV. See your electronics retailer for details on RF modulator availability and operations.

Using an accessory RF modulator

- Use the composite video cable (yellow) to connect the DVD Player's CVBS jack to the video input jack on the RF modulator.
- Use the RF coaxial cable (not supplied) to connect the RF modulator to your TV's RF jack.

01-37-DVP5900\_AP9

### 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 JISC" may appear on the display panel.

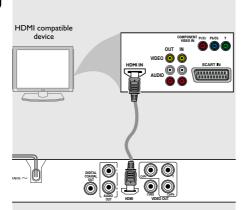


English

11



#### Optional: Connecting to a HDMI compatible device



## Using HDMI (High Definition <u>Multimedia Interface</u>) sockets

- HDMI connects untouched and uncompressed digital transmission for the highest and cripest sound/image quality.
- It has plug and play capability using only one cable for both audio/video output.
- Use a HDMI cable (not supplied) to connect the HDMI OUT on the DVD Player to HDMI IN on an HDMI compatible device (eg.; PC, DVD Player, Set Top Box).

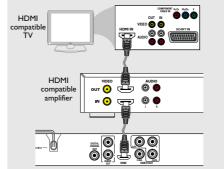
→ It may take a while for the DVD player and input device to communicate and initialise.

- → Playback starts automatically.
- The HDMI is backward compatible with some DVI devices using an appropriate adaptor plug.

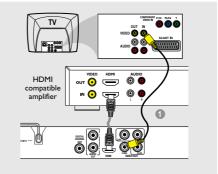
→ If a DVI device is connected, an additional audio cable will be needed for audio transmission.

→ This DVD player supports HDCP compliance devices only.

 To enjoy optimum multi-channel surround sound



 To enjoy optimum multi-channel surround sound without HDMIcompatible television



 Most older DVI enable devices are not HDCP compliant and playback is not possible.

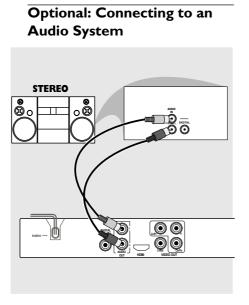
→ A pop-up menu will appear on the TV screen.

Helpful hint:

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

01-37-DVP5900\_AP9

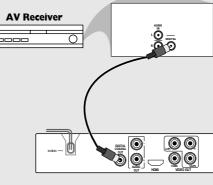
English



Stereo system has Dolby Pro Logic or Right / Left Audio In jack

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

## Optional: Connecting Digital AV Receiver



Receiver has a PCM, Dolby Digital, or MPEG2 decoder

- Select one of the video connections (CVBS VIDEO IN, SCART or COMPONENT VIDEO IN) depending on the options available on your TV.
- Connect the COAXIAL jack of the DVD Player to the corresponding Digital Audio In jack on your Receiver (cable not supplied).
- Set the DVD Player's Digital Output to PCM or ALL depending on the capabilities of your Receiver (see page 30 "Digital Output").

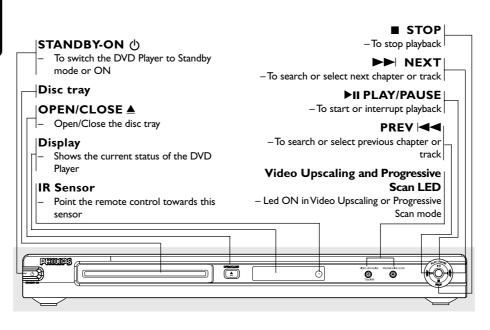
Helþful Hint:

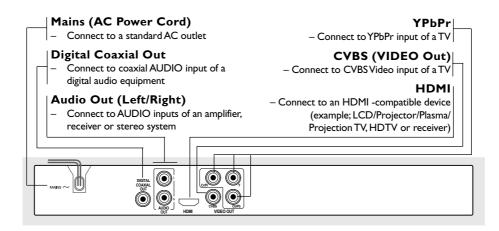
 If the audio format of the Digital Output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.

## **Functional 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 unit.

14

01-37-DVP5900\_AP9

## **Functional Overview**

English

#### **Remote Control RETURN/TITLE** POWER 小 - To go back to previous menu/ show To switch the DVD player to standby mode or ON title menu 123 DISC MENU 4 5 6 0-9 numerical key pad - Enters or exits the disc contents 7 8 9 Selects numbered items in a menu menu - Switches on or off the playback control mode (for VCD version DISPLAY 2.0 only) Displays information on TV screen during playback - Selects an item in the menu/ SYSTEM MENU fast forward/backward, slow forward/ $\mathbf{O} \mathbf{O} \mathbf{O}$ Access or exit DVD Player's backward SUBTITLE ANGLE ZOOM AUDIO system menu ОК -Acknowledge menu selection To search or select next chapter or track -To search or select previous chapter or track SUBTITLE PHILIPS To access subtitle language STOP (■) system menu -To stop playback ANGLE PLAY (►) Selects a DVD camera angle -To start playback ZOOM PAUSE (II) Enlarge a picture on the TV - To pause playback temporarily / screen frame-by-frame playback AUDIO To access audio language system REPEAT menu - Selects various repeat modes **REPEAT (A-B)** - Repeats playback a specific section

15

01-37-DVP5900\_AP9

15

on a disc

or whole disc **MUTE** 

AP9

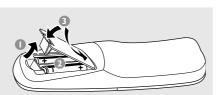
- To preview the content of a track

- Disables or enables sound output

## **Getting Started**



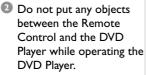
## Step 1: Inserting batteries into the Remote Control



- Open the battery compartment.
- Insert two batteries type R06 or AA, following the indications (+ -) inside the compartment.
- Close the cover.

## Using the Remote Control to operate the Player

Aim the Remote Control directly at the remote sensor (iR) on the front panel.





 $\widehat{\Omega}$ 

#### **CAUTION!**

Remove batteries if they are exhausted or if the Remote Control is not being 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 properly.

#### Step 2: Setting up the TV

#### **IMPORTANT!**

Make sure you have completed all the necessary connections. (See page 9-10 "Connecting TV").

- Turn on the TV and set to the correct video-in channel. You should see the DVD background screen on the TV.
- Usually these channels are between the lowest and highest channels and may be called FRONT, A/V IN, or VIDEO. See your TV 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.

 $\rightarrow$  Or, set the TV to channel 3 or 4 if you are using an RF modulator.

If you are using external equipment, (eg. audio system or receiver), turn it on and select the appropriate input source for the DVD Player output. Refer to the equipment owner's manual for detail.

## **Getting Started**

#### Setting up Progressive Scan feature (for Progressive Scan TV only)

The progressive scan display 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.

#### **IMPORTANT!**

## Before enabling the progressive scan feature, you must ensure:

- 1) Your TV can accept progressive signals, a progressive scan TV is required.
- 2) You have connected the DVD player to your TV using Y Pb Pr (see page 9.)
- Turn on your TV.
- Turn off your TV progressive scan mode or turn on interlaced mode (refer to your TV user manual.)
- Press POWER on the remote control to turn on the DVD player.
- Gelect the correct Video Input channel. (See page 16).
   → The DVD background screen appears on the TV.
- Press SYSTEM MENU.
- 6 Press ► to select {Video}, then press OK to confirm.

Language	Video	Audio	<b>Frack</b>	Rating
		-		
TV Display	4:3 LE	TTERBO	X	
TV Type	M	IULTI		
Video Output	Y	PbPr		
Progressive		Off		Off
HD JPEG Mode	e HD	JPEG		On
HDMI Output	4	Auto		
-				

- Select {Video Output} to {YPbPr}, then press OK to confirm.
- Select {Progressive} to {On}, then OK to confirm.
  - → The below menu will appear on the TV.

#### ACTIVATING PROGRESSIVE SCAN: 1. ENSURE YOUR TV HAS PROGRESSIVE SCAN. 2. CONNECT USING YMBPR (GBR) VIDEO CABLE. 3. IF THRER IS DISORTED INCIDE: WAIT 15 SECONDS FOR AUTO RECOVERY. INCIDE: Const.

English

There will be a distorted picture on your TV at this state until you turn on the progressive scan mode on your TV.

- Turn on your TV progressive scan mode (refer to your TV user manual.)
  - → The below menu appears on the TV.



 Press < to highlight </li>
 in the menu and press OK to confirm.
 The set up is complete now and you can start enjoy the high quality picture.

#### If no picture:

- Wait for 15 seconds for auto recovery. OR
- Press OPEN CLOSE ▲ on the DVD system to open the disc tray.
- Press ► followed by AUDIO the remote control.
   → The DVD background screen will appear on the TV.

#### Helpful Hint:

- There are some progressive scan TV and High-Definition TV sets that are not fully compatible with this DVD system, 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 system and your TV set.

01-37-DVP5900\_AP9

## **Getting Started**

English

## Selecting the colour system that corresponds to your TV

This DVD Player is compatible with both NTSC and PAL. In order for a DVD disc to play on this Player, the colour system of the Disc, the TV and the DVD Player should match.

Language	Video	Audio	Rating
TV Display	4:3 LETT	ERBOX	
TV Type	MULTI NTSC		
Video Output	YPb	Pr	PAL
Progressive	O	ff	MULTI
HD JPEG Mode HD JPEG			
HDMI Output	Au	to	

#### Press SYSTEM MENU.

- Press ► repeatedly to select {Video}, then press OK.
- It is a select {TV Type}.
- Enter its submenu by pressing **OK**.
- S Press ▲ ▼ to highlight one of the options below:

**PAL** – Select this if the connected TV is PAL system. It will change the video signal of a NTSC disc and output in PAL format.

**NTSC** – Select this if the connected TV is NTSC system. It will change the video signal of a PAL disc (VCD only) and output in 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.

 Select an item and press OK.
 → Follow the instructions show on the TV to confirm the selection (if any).

#### **Helpful Hints:**

- Before changing the current TV Type setting, ensure that your TV supports the 'selected TV Type' system.

- If there is no proper picture on your TV, wait for 15 seconds for auto recovery.



## To reset to default TV colour system:

- Wait for 15 seconds for auto recovery. OR
- Press OPEN CLOSE ▲ on the DVD system to open the disc tray.
- Press ► followed by SUBTITLE the remote control.
   → The DVD background screen will appear on the TV.

TIPS:

To return to the previous menu, press **OK**. To remove the menu, press **SYSTEM MENU**.

18

01-37-DVP5900\_AP9

## Step 3: Setting language preference

You can select your preferred language settings. This DVD Player will automatically switch to the language for you whenever you load a disc.

Setting the OSD Language

The On-screen language for the system menu will remain as you set it, regardless of various disc languages.

Language V	ideo Audio	Track Rating
OSD Language DVD Subtitle Audio Track DVD Menu DivX Subtitle	English English English English Cent. Eur.	English Français Deutsch Italiano Español
		Portugiesisch Holandês Danisk • Norsk

#### Press SYSTEM MENU.

- Press ► to select {Language}, then press OK.
- In Press ▲ ▼ to select {OSD Language}.
- Enter its submenu by pressing **OK**.
- It is a select a language and press OK.

## **Getting Started**

## Setting the Audio, Subtitle and DVD menu language

English

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

Language Vi	deo Audio	Track Rating
OSD Language	English	English
DVD Subtitle	English	Français
Audio Track	English	Deutsch
DVD Menu	English	Italiano
DivX Subtitle	Cent. Eur.	Español
		Portugiesisch
		Holandês
		Danisk
		Norsk

#### Press SYSTEM MENU.

- Press ► to select {Language}, then press OK.
- It is a select one of the options
  - below at a time, then press **OK**.
  - 'DVD Subtitle' (disc's subtitles)
  - 'Audio Track' (disc's soundtrack)
  - 'DVD Menu' (disc's menu)
- Press ▲ ▼ to select a language and press OK.
- 6 Repeat steps 3~4 for other language settings.

TIPS:

To return to the previous menu, press **OK**. To remove the menu, press **SYSTEM MENU**.

19

19

## **Disc Operations**

#### **IMPORTANT!**

- Depending on the DVD or VIDEO CD, some operations may be different or restricted.

- Do not push on the disc tray or put any objects other than disc on the disc tray. Doing so may cause the disc player malfunction.

#### **Playable Discs**

#### Your DVD Player will play:

- Digital Versitile Discs (DVDs)
- Video CDs (VCDs)
- Super Video CDs (SVCDs)
- Digital Video Discs + Recordable [Rewritable] (DVD+R[W])
- Compact Discs (CDs)
- MP3 discs, picture (JPEG) files on CD-R(W).
  - JPEG/ISO 9660 format
  - Maximum 15 characters display.
  - Supported sampling frequencies : 32 kHz, 44.1 kHz, 48 kHz (MPEG-1) 16 kHz, 22.05 kHz, 24 kHz (MPEG-2)
  - Supported Bit-rates : 32~256 kbps (MPEG-1), 8~160 kbps (MPEG-2) variable bitrates
- DivX disc on CD-R[W]/DVD+R[W]:
  - DivX 3.11, 4.x and 5.x
  - Q-pel accurate motion compensation
     Global Motion Compensation (GMC)
- playback
- Maximum files/folders per disc:
   Maximum files displayed 1,500
  - Maximum files displayed 1,3



#### **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.

#### Helpful Hints:

 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 play on this DVD Player.

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

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

#### 20

01-37-DVP5900\_AP9

20

#### **IMPORTANT!**

If the inhibit icon (ø) 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.

#### **Playing discs**

- Connect the power cords of the DVD Player and TV (and any optional stereo or AV receiver) to a power outlet.
- 2 Turn on the TV power and set to the correct Video In channel. (See page 16 "Setting up the TV").
- Press STANDBY-ON on the DVD Player front panel.
   You should see the DVD background screen on the TV.
- Press OPEN/CLOSE ▲ button to open the disc tray and load in a disc, then press the same button again to close the disc tray.

→ Make sure the label side is facing up. For double-sided discs, load the side you want to play facing up.

Playback will start automatically. If not press PLAY .

→ If a disc menu appears on the TV, see "Using the Disc Menu".

→ If the disc is locked by parental control, you must enter your four-digit password. (See page 32-33).

At any time, simply press STOP to stop playback.

## **Disc Operations**

#### Using the Disc Menu

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

- English
- To select a playback feature or item
  Use the ◀▶ ▲ ▼ or numeric keypad
- (0-9) on the Remote Control, then press  $PLAY \triangleright$  to start playback.

 To access or exit from the menu
 Press DISC MENU on the Remote Control.

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

PBC playback allows you to play Video CDs interactively, following the menu on the display.

 In stop mode, use the numeric keypad (0-9) to select a track and PBC will turn off.

→ Playback will start automatically

- During playback, press DISC MENU;
   If PBC was ON, it will switch to OFF and continue playback.
   If PBC was OFF, it will switch to ON and return to menu screen.
- During playback, pressing RETURN/ TITLE will return to the menu screen (if PBC is on).

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

## **Disc Operations**

Basic playback controls

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

#### Pausing playback (DVD/VCD/CD/MP3)

- During playback, press PAUSE II.
   → Playback will pause and sound will be muted.
- Press PAUSE II again to select the next picture frame.
- 3 To return to normal playback, press PLAY ►.

Selecting track/chapter (DVD/CD)

- Press ►► briefly during playback to go to the next chapter/track
- Press I to go to the previous track or chapter.
- To go directly to any chapter/track, enter the chapter/track number using the numerical keys (0-9).

Resuming playback from the last stopped point (DVD/VCD/CD)

- Press STOP once to activate the auto resume mode.
- Press PLAY ► and the disc will play from the last point.
- Press STOP to cancel the resume mode.

#### Zoom (DVD/VCD/JPEG)

Zooming allows you to enlarge or reduce the video image during playback.

- Press ZOOM repeatedly to increase and decrease the playback video image.
- Press ◀▶▲▼ to pan across the TV screen (JPEG).

Repeat (DVD/VCD)

Press **REPEAT** continuously to choose a Repeat mode during playback.

<u>REPEAT CHAPTER</u> (DVD) – to repeat playback of the current chapter.

<u>REPEAT TITLE</u> (DVD) – to repeat playback of the current title.

REPEAT SINGLE (VCD) – to repeat playback of the current

track.

<u>REPEAT ALL</u> (VCD) - to repeat playback of all the disc.

<u>OFF</u> (DVD/VCD) - to cancel the repeat mode.

Helpful Hint: – REPEAT function is not available for VCD 2.0 when PBC is on.

#### Repeat A-B (DVD/VCD/CD)

- Press REPEAT A-B at your chosen starting point.
- Press REPEAT A-B again at your chosen end point.
   The section will now repeat continuously.
- 3 To exit the sequence, press REPEAT A-B.

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

#### 22

01-37-DVP5900\_AP9

#### Slow Motion (DVD/VCD)

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

#### Forward / Reverse Searching (DVD/VCD/CD)

- Press <>> during playback to select the required speed: 2X, 4X, 8X or 20X (backward or forward).
   → Sound will be muted (DVD/VCD) or intermittent (CD).
- 2 To return to normal speed, press PLAY ►.

## **Disc Operations**

English

#### Preview (DVD/VCD)

The Time Search function allows you to start playing at any chosen time on the disc.

#### Press PREVIEW.

- Our See Select an option.
- Enter hours, minutes and seconds from left to right in the time edit box using remote control numerical key pad. (e.g. 0:34:27)

#### For DVD

- → Time (example 00:34:27)
- → Title/Chapter (example 000/008)

#### For VCD

- → Track Search (example 00:30:00)
- → Track (example 001)
- Press the OK key to confirm.
   Playback starts from the selected time on the disc.

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

23

01-37-DVP5900\_AP9

## **Disc Operations**

# English

#### **Special DVD Features**

#### Playing a Title

Press DISC MENU.

 $\rightarrow$  The disc title menu appears on the TV screen.

- Use ▲ ▼ ◀ ► keys or numeric keypad (0-9) to select a play option.
- Press OK key to confirm.

#### Camera Angle

 Press ANGLE repeatedly to select different desired angle.

#### 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 MONO, RIGHT MONO, MIX-MONO, STEREO).

#### Subtitles

 Press SUBTITLE repeatedly to select different subtitle languages.

#### Playing a DivX disc

This DVD player supports the DivX movie playback that you download from your computer onto a CD-R/RW (see page 33 for more information).

- Load a DivX disc.
   → Playback will start automatically. If not press PLAY ►.
- Pressing SUBTITLE on the remote control will turn on or off the subtitle.
- If the disc has supported subtitle files (srt/sub/ssa/txt/ass/smi), you'll be prompt to select the DivX subtitle file.
- If multilingual subtitles are embedded on the DivX disc, pressing SUBTITLE will change the subtitle language during playback.

#### Helpful Hint:

 For external subtitles, the system will display a list of available subtitles, select one of the DivX movies subtitle and press PLAY.

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

## **Disc Operations**

English

#### Playing MP3/JPEG Picture CD

This player can playback MP3, JPEG, or Picture CD files on a personally recorded CD-R/RW disc or commercial 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** 

- Load a disc.
   → Playback will start automatically. If not press PLAY ►.
- Press STOP to display disc menu on the TV screen.
- Use ◀►▲▼ to select a file and press OK to open the file.

JPEG	6/103
Images	
1. image 1	8. image 8
2. image 2	9. image 9
3. image 3	10. image 10
4. image 4	11. image 11
5. image 5	12. image 12
6. image 6	13. image 13
7. image 7	14. image 14
MP3	1/10
MP3	
1 mueic 1	8 mueic 8

1. music 1	8. music 8
2. music 2	9. music 9
3. music 3	10. music 10
4. music 4	
5. music 5	
6. music 6	
7. music 7	

Use the numeric keypad (0-9) to select and playback the file directly.

#### **Playback selection**

During playback, you can;

- Press | < < / >> | to select another file in the current folder.
- Press ANGLE on the remote to rotate the picture files.
- Press II / >> repeatedly to pause/resume playback.

#### Repeat

 Press REPEAT continuously to access different 'Play Mode'.

<u>REPEAT SINGLE</u> - to repeat playback of the current file.

#### REPEAT ALL

to repeat playback of all files in the disc.

OFF

to cancel the repeat mode.

#### Zoom picture (JPEG/ DivX)

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

#### Preview (JPEG)

This function shows the content of the current folder or the whole disc.

 Press PREVIEW during playback.
 Thumbnails of 9 pictures appears on the TV screen.



- Use ◀►▲▼ to highlight one of the picture and press OK to start playback.
- Press **PREVIEW** to return to the disc menu.
- **TIPS:** The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

## **DVD Setup Menu Options**

This DVD Player setup is carried out via the TV, enabling you to customise the DVD Player to suit your particular requirements.

#### Language

- **O** Press **SYSTEM MENU**.
- Press ► to select {Language}.
- Press OK to confirm.

Language Video	Audio Track	Rating
OSD Language DVD Subtitle Audio Track	English English English	
DVD Menu DivX Subtitle	English Cent. Eur.	

#### **OSD** Language

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

#### Audio, Subtitle, DVD Menu

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

#### Setting the DivX Subtitle font

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

Language	Video	Audio	Track	Rating
OSD Languag DVD Subtitle Audio Track DVD Menu	E	English English English English		
DivX Subtitle	C	ent. Eur.		andard nt. Eur.
			C	<b>yrillic</b> 中文

- In 'Language', press OK to enter the submenu.
- Press ▲ ▼ to highlight {DivX Subtitle}, then press OK.
- Press ▲ ▼ to highlight one of the options below:

#### <u>Standard</u>

Albanian, Danish, Dutch, English, Finnish, French, Gaelic, German, Italian, Kurdish (Latin), Norwegian, Portuguese, Spanish, Swedish and Turkish.

#### Central European

Albanian, Croat, Czech, Dutch, English, German, Hungarian, Irish, Polish, Romanian, Slovak, Slovene and Sorbian.

#### <u>Cyrillic</u>

Bulgarian, Belorussian, English, Macedonian, Moldavian, Russian, Serbian and Ukrainian.

#### <u>中文</u>

Simplified Chinese

Press ▲ ▼ to select a setting, then press OK to confirm your selection.

TIPS:

To return to the previous menu, press **OK**. To remove the menu, press **SYSTEM MENU**.

01-37-DVP5900\_AP9

#### Video Setup

- Press SYSTEM MENU.
- Press > repeatedly to select {Video}.
- Press OK to confirm.

Language	Video	Audio Track	Rating
TV Display	4:3 LET	TERBOX	
TV Type	м	ULTI	
Video Outpu	t YF	PbPr	
Progressive	(	Off	
HD JPEG Mo	de HD	JPEG	
HDMI Output	A	uto	

#### TV Type

This menu contains the options for setting the aspect ratio of the DVD Player according to the connected TV. For details, see page 18.

## **DVD Setup Menu Options**

#### Setting the TV Display

Set the aspect ratio of the DVD Player according to the TV you have connected. The format you select must be available on the disc. If it is not, the setting for TV display will not affect the picture during playback. English

Language	Video Audio	Frack Rating
TV Display	4:3 LETTERBOX	4:3 PANSCAN
TV Type	MULTI	4:3 LETTERBOX
Video Output	YPbPr	16:9
Progressive	Off	
HD JPEG Mode	HD JPEG	
HDMI Output	Auto	

- In 'Video', press OK to enter the submenu.
- Press ▲ ▼ to highlight {TV Display}, then press OK.
- Press ▲ ▼ to highlight one of the options below:

#### 4:3 PANSCAN -

Select this if you have a normal TV and want both sides of the



picture to be trimmed or formatted to fit your TV screen.

#### 4:3 LETTERBOX -

Select this if you have a normal TV. In this case, a wide picture with black



bands on the upper and lower portions of the TV screen will be displayed.

**16:9** – Select this if you have a wide-screen TV.



4 Select an item and press OK.



#### To return to the previous menu, press **OK**. To remove the menu, press **SYSTEM MENU**.

01-37-DVP5900\_AP9

27

## **DVD Setup Menu Options**

#### Progressive - turning on/off

In the progressive scan mode, you can enjoy the high quality picture with less flickers. It only works when you have connected the DVD player's Y Pb Pr jacks to your TV that supports the progressive video input. Otherwise, the a distorted picture will appear on the TV. For proper progressive scan set up, see page 17.

Language	Vide	0	Audio	Track	Rating	
TV Display	4:3	LETT	ERBO	х		
TV Type		MU	TI			
Video Output		YPt	Pr			
Progressive		O	ff		Off	l
HD JPEG Mod	е	HD J	PEG		On	
HDMI Output		Au	to			

- In 'Video', press OK to enter the submenu.
- Press ▲ ▼ to highlight {Progressive}, then press OK.
- Press ▲ ▼ to highlight one of the options below:

#### <u>Off</u>

To disable Progressive Scan function.

#### <u>On</u>

To enable Progressive Scan function.

Press ▲ ▼ to select a setting, then press OK to confirm your selection.
 → Follow the instructions shown on the TV to confirm the selection (if any).
 → If a distorted picture appears on the TV screen, wait for 15 seconds for auto recovery.

#### To reset Progressive Scan to OFF:

- Press OPEN CLOSE ▲ on the DVD system to open the disc tray.
- Press > followed by AUDIO the remote control.

→ The DVD background screen will appear on the TV.

TIPS:

#### To return to the previous menu, press **OK**. To remove the menu, press **SYSTEM MENU**.

01-37-DVP5900\_AP9

## **DVD Setup Menu Options**

#### HD JPEG Mode

You can enjoy unsurppressed pictures at its native resolution via your HDMI connection or progressive scan mode.

Language	Video	Audio T	rack	Rating
TV Display	4:3 LE	TTERBO	(	
TV Type	N	IULTI		
Video Output	Y	PbPr		
Progressive		Off		
HD JPEG Mode	e HD	JPEG	HD	JPEG
HDMI Output		Auto	SD	JPEG

- In 'Video', press OK to enter the submenu.
- Press ▲ ▼ to highlight {HD JPEG Mode}, then press OK.
- It is a state of the options I press ▲ ▼ to highlight one of the options below:

HD JPEG (High Definition JPEG) Displays picture at the actual resolution.

**SD JPEG** (Standard Definition JPEG) Displays picture at suppressed resolution.

In the select a setting, then press **OK** to confirm your selection.

#### HDMI Output

For HDMI connection, you are able to select the video output resolution selection. The available options will be displayed once you have connected the HDMI connection (see page 12).

It may take a while for the DVD player and input device to communicate and initialise.

Language Video Audio Track Rating 4:3 LETTERBOX TV Display MULTI TV Type Video Output YPbPr Progressive HD JPEG Mode Off HD JPEG 480p/576p HDMI Output Auto 720p 1080 Auto

English

- In 'Video', press OK to enter the submenu.
- Press ▲ ▼ to highlight {HDMI Output}, then press OK.
- 3 Press  $\blacktriangle \blacksquare$  to highlight one of the options below:

#### 480p

Progressive output in 480 lines for NTSC TV.

## <u>576p</u>

Progressive output in 576 lines for PALTV.

#### <u>720p</u>

Progressive output upscale to 720 lines.

#### 1080i

Interlaced output upscale to 1080 lines.

Auto (default setting) Output automatically based on your display's supported resolution.

Helpful hints:

- If no display appears on the TV screen due to unsupported resolution, reconnect any available interlace video output to your display and re-adjust the resolution settings to 480p/576p.

 Select AUTO to automatically display the best resolutions settings.

TIPS:

To return to the previous menu, press OK. To remove the menu, press SYSTEM MENU.

29

It o select a setting, then press **OK** to confirm your selection.



#### Audio Setup

#### Press SYSTEM MENU.

Press ► repeatedly to select {Audio Track}.

#### Press OK to confirm.

Language	Video	Audio Tracl	k Rating
Digital Output LPCM Output Night Mode		PCM 96K Off	
LPCM Output			

**DVD Setup Menu Options** 

#### Digital Output

Set the Digital output according to your optional audio equipment connection.

Language	Video Audio T	rack Rating
Digital Output LPCM Output	PCM 96K	PCM All
Night Mode	Off	Off

- In 'Audio Track', press OK to enter the submenu.
- Press ▲ ▼ to highlight {Digital Output}, then press OK.
- Press ▲ ▼ to highlight one of the options below:

#### <u>Off</u>

Turn off the digital output.

#### All

If you have connected your DIGITAL AUDIO OUT to a multi-channel decoder/receiver.

#### PCM

Only if your TV or receiver is not capable of decoding multi-channel audio.

Select an item and press OK.

TIPS:

To return to the previous menu, press **OK**. To remove the menu, press **SYSTEM MENU**.

01-37-DVP5900\_AP9

## **DVD Setup Menu Options**

#### LPCM Output

If you connect the DVD Player to a PCM compatible receiver via the digital terminals, such as coaxial or optical etc, you may need to adjust 'LPCM Output'. Discs are recorded at a certain sampling rate. The higher the sampling rate, the better the sound quality.

Language V	/ideo Audio T	rack Rating
Digital Output	PCM	
LPCM Output	96K	96K
Night Mode	Off	48K

- In 'Audio Track', press OK to enter the submenu.
- Press ▲ ▼ to highlight {LPCM Output}, then press OK.
- Press ▲ ▼ to highlight one of the options below:

#### <u>48K</u>

Playback a disc recorded at the sampling rate of 48kHz.

#### <u>96K</u>

Playback a disc recorded at the sampling rate of 96kHz that can only be achieved in Stereo-Classic mode.

Select an item and press OK.

#### Helpful Hint:

- LPCM Output can be selected only when PCM is activated.

#### Night Mode - turning on/off

In this mode, the high volume outputs are softened and low volume outputs are brought upward to an audible level. It is useful for watching your favourite action movie without disturbing others at night.



Digital Output PCM LPCM Output 96K Night Mode Off Off On
•

- In 'Audio Track', press OK to enter the submenu.
- Press ▲ ▼ to highlight {Night Mode}, then press OK.
- Press ▲ ▼ to highlight one of the options below:

#### <u>On</u>

Select this to level out the volume. This feature is only available for movies with Dolby Digital mode.

#### <u>Off</u>

Select this when you want to enjoy the surround sound with its full dynamic range.

Select an item and press OK.

TIPS:

To return to the previous menu, press **OK**. To remove the menu, press **SYSTEM MENU**.

31

#### Rating

#### Press SYSTEM MENU.

- Press > repeatedly to select {Rating}.
- Press OK to confirm.

Language Vi	ideo Audio Tra	ack Rating
Language		aon nuung
Password	Change	
Rating	8. Adult	
Factory defaults	Reset	
<b>DivX Registration</b>	n Display	
-		

**DVD Setup Menu Options** 

#### Changing the Password

The same password is used for both Parental Control. Enter your 4 digit password when prompted on the screen. The default password is <u>0000</u>.

- In 'Rating', press OK to enter the submenu.
- Press ▲ ▼ to highlight {Change} (Cambiar), then press OK.
- Use the numeric keypad (0-9) to enter your old four-digit password.

→ When doing this for the first time, key in '0000'.

- → If you forget your old four-digit password, key in '<u>0000</u>'.
- Inter the new four-digit password.
- Enter the new four-digit password second time to confirm.

→ The new four-digit password will now take effect.

Language Video	Audio Track Rating	
Old Password New Password Confirm Password		
Done		

#### O Press OK to confirm.

TIPS:	To return to the previous menu, press <b>OK</b> . To remove the menu, press <b>SYSTEM MENU</b> .	
32		

32

01-37-DVP5900 AP9

#### Setting the Rating

Some DVDs may have a parental level assigned to the complete disc or to certain scenes on the disc. This feature lets you set a playback limitation level. 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.

- In 'Rating', press OK to enter the submenu.
- Press ▲ ▼ to highlight {Rating}, then press OK to select a rating level for the disc inserted.
   To disable rating control and plays all discs, select {8 Adult}.
- Use the numeric keypad (0-9) to enter the four-digit password ("Changing the password").

→ DVDs that are rated above the level you selected will not play unless you enter your four-digit password.

#### Helpful Hints:

 VCD, CD have no level indication, so parental control function has no effect on these type of discs. This applies to most duplicated DVD discs.

 Some DVDs are not encoded with a rating though the movie rating may be printed on the Disc cover. The rating level feature does not work for such Discs.

## **DVD Setup Menu Options**

#### **Rating explanations**

#### **1 KID SAFE**

Kids material; recommended especially for children and viewers of all ages.

#### 2 G

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

- 3 PG
- Parental Guidance suggested.
- 4 PG13
- Material is unsuitable for children under age 13. 5-6 PG-R

Parental Guidance - Restricted; recommended that parents restrict children under 17 from viewing or allow to view 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.

#### Restoring to original settings

Setting the 'Default' function will reset all options and your personal settings to the factory defaults and all your personal settings will be erased.

- In 'Rating', press OK to enter the submenu.
- Press ▲ ▼ to highlight {Factory Defaults}, then select {Reset}.
- Press OK to confirm. → All settings will now reset to factory defaults.

#### DivX registration

This DVD Player provides you the DivX® VOD (Video On Demand) registration code that allows you to rent and purchase videos using the  $\mathsf{Div}\mathsf{X}^{\texttt{®}}\mathsf{VOD}$ service. For more information, visit www.divx.com/vod.

English

- In 'Rating', press OK to enter the submenu.
- 2 Press ▲ imes to highlight {DivX Registration}, then select {Display}.
- OF Press OK on the remote control. → The registration code will appear.

Language	Video	Audio Track	Rating
DivX(R) Vide Registration BX3W4DJE To learn mor	code is :	and: w.divx.com/vod	
ОК			

• Use the registration code to purchase or rent the videos from DivX®VOD service at www.divx.com/vod.

Follow the instructions and download the video onto a CD-R for playback on this DVD player.

#### Helpful Hint:

All the downloaded videos from DivX® VOD can only be played back on this DVD player.

TIPS:

#### To return to the previous menu, press OK. To remove the menu, press SYSTEM MENU.

33

## 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.

Problem	Solution
No power	<ul> <li>Check if the AC power cord is properly connected.</li> <li>Press the STANDBY ON on the front of the DVD system to turn on the power.</li> </ul>
No picture	<ul> <li>Refer to your TV's manual for correct Video In channel selection. Change the TV channel until you see the DVD screen.</li> <li>Check if the TV is switched on.</li> <li>If the progressive scan feature is activated but the connected TV does not support progressive signals or the cables are not connected accordingly, see page 17 for proper progressive scan set up or deactivate the progressive scan feature as below:</li> <li>Press OPEN CLOSE on the DVD system to open the disc tray.</li> <li>Press ► followed by AUDIO the remote control.</li> </ul>
Distorted picture	<ul> <li>Sometimes a small amount of picture distortion may appear depending on the disc being played back. This is not a malfunction.</li> </ul>
Completely distorted picture or black/white picture with DVD	<ul> <li>Connect DVD Player directly to the TV.</li> <li>Make sure the disc is compatible with the DVD/ Player.</li> <li>Ensure that the DVD Player's TV Type is set to match that of the Disc and your TV.</li> </ul>
No sound or distorted sound	<ul><li>Adjust the volume.</li><li>Check that the speakers are connected correctly.</li></ul>
No audio at digital output	<ul> <li>Check the digital connections.</li> <li>Check if your receiver can decode MPEG-2 or DTS and if not, please make sure the digital output is set to PCM.</li> <li>Check if the audio format of the selected audio language matches your receiver capabilities.</li> </ul>
Disc can't be played	<ul> <li>The DVD+R/CD-R must be finalised.</li> <li>Ensure the disc label is facing up.</li> <li>Check if the disc is defective by trying another disc.</li> <li>Region code incorrect.</li> </ul>

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34

01-37-DVP5900\_AP9

## Troubleshooting (continued)

English

Problem	Solution
Picture freezes momentarily during playback	<ul> <li>Check the disc for fingerprints/scratches and clean with a soft cloth wiping from centre to edge.</li> </ul>
No return to start-up screen when disc is removed	<ul> <li>Reset the unit by switching the player off, then on again.</li> </ul>
The player does not respond to the Remote Control	<ul> <li>Aim the Remote Control directly at the sensor on the front of the player.</li> <li>Reduce the distance to the player:</li> <li>Replace the batteries in the Remote Control.</li> <li>Re-insert the batteries with their polarities (+/- signs) as indicated.</li> </ul>
Buttons do not work	<ul> <li>To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.</li> </ul>
Player does not respond to some operating commands during playback.	<ul> <li>Operations may not be permitted by the disc.</li> <li>Refer to the instructions of the disc jacket.</li> </ul>
DVD Player cannot read CDs/DVDs	<ul> <li>Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD Player for repair.</li> </ul>
Menu items cannot be selected	<ul> <li>Press STOP twice before selecting System Menu.</li> <li>Depending on the disc availability, some menu iter cannot be selected.</li> </ul>
Unable to play DivX movies	<ul> <li>Check that the DivX file is encoded with DivX 3.1</li> <li>4.x and 5.x encoder:</li> </ul>
No sound during DivX movies playback	<ul> <li>The audio codec may not be supported by the D player.</li> </ul>
No HDMI output	<ul> <li>Check the video output is HDMI enabled.</li> <li>Check the connection between the TV and the HDMI jack of DVD player.</li> <li>See if the TV supports this 480p/576p/720p/1080 DVD player.</li> </ul>
Abnormal HDMI output screen	<ul> <li>If show noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Dig Content Protection).</li> </ul>
Blank/ coloured screen	<ul> <li>Power off the set and wait for a while before turn ON the set again.</li> </ul>

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35

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01-37-DVP5900\_AP9

## **Specifications**

English

## TV STANDARD(PAL/50Hz)(NTSC/60Hz)Number of lines625525

Multistandard (PAL/NTSC) Playback

10 bit, 54mHz

#### **VIDEO PERFORMANCE**

DA Converter YPbPr

#### 0.7Vpp — 75 ohm 1Vpp — 75 ohm Video Output

#### **VIDEO FORMAT**

Digital Compression	MPEG 2 for DVD,SVCD	
	MPEG 1 for VCI	2
	MPEG-4 (.avi)	
	DivX	
DVD	50Hz	60Hz
Horiz. resolution	720 pixels	720 pixels
Vertical resolution	576 lines	480 lines
VCD	50Hz	60Hz
Horiz. resolution	352 pixels	352 pixels
Vertical resolution	288 lines	240 lines

#### AUDIO FORMAT

Digital	MPEG	compressed Digital
	PCM	16, 20, 24 bits
		fs, 44.1, 48, 96 kHz
MP3(ISO 9	660)	96, 112, 128, 256
		kbps & variable
		bit rate fs, 32, 44.1,
		48 kHz
Analog Sou	nd 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
CD/VCD	fs 44.1kHz	4Hz- 20kHz
Signal-Noise (1kHz)		90 dB
Dynamic range(1kHz)		85 dB
Crosstalk (1kHz)		90 dB
Distortion/noise (1kH	Hz)	80 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	
HDMI Output	Type A surector	

CABINET Dimensions (w x h x d) 470 x 50 x 310 mm Weight Approximately 2.2 kg

#### POWER CONSUMPTION

Power Supply Rating	120-240V; 50-60Hz
Power consumption	12 W
Power consumption in Standby n	node < 3 W

Specifications subject to change without prior notice

01-37-DVP5900\_AP9

### 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.

<u>Chapter:</u> 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. <u>Component Video Out Jacks</u>: 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 3.11/4x/5x**: The DivX codec is a patentpending, 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.

37

**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.

**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).

<u>S-Video:</u> Produces a clear picture by sending separate signals for the luminance and the color. You can use S-Video only if your TV has S- video In jack. <u>Title:</u> 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.

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

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