

DVD VIDEO PLAYER

DVP5960

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***



PHILIPS

Important notes for users in the U.K.

Mains plug

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

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

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

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

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

How to connect a plug

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

- As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:
 - Connect the blue wire to the terminal marked N or coloured black.
 - Connect the brown wire to the terminal marked L or coloured red.
 - Do not connect either wire to the earth terminal in the plug, marked E (or \perp) or coloured green (or green and yellow).

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

Copyright in the U.K.

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

DK

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

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

S

Klass 1 laseraparat

Varning! Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

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

SF

Luokan 1 laserlaite

Varoitus! Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

Oikeus muutoksiin varataan. Laite ei saa olla alttiina tippu- ja roiskevedelle.

Huom. Toiminnanvalitsin on kytketty toisipuolelle, eikä se kytke laitetta irti sähköverkosta. Sisäänrakennettu verkko-osa on kytketty sähköverkkoon aina silloin, kun pistoke on pistorasiasassa.

CAUTION

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

ADVARSEL

SYNLIG OG USYNLIG
LASERSTRÅLING VED ÅBNING
UNDGÅ UDSÆTTELSE FOR STRÅLING
VARNING

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

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

VORSICHT

GEFAHR VON SICHTBARER UND
UNSICHTBARER LASERSTRAHLUNG
BEI GEÖFFNETEM GEHÄUSE.

ATTENTION

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

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.'

Disposal of your old product



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electrical and electronic products.

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

Se débarrasser de votre produit usagé (Français)



Votre produit est conçu et fabriqué avec des matériaux et des composants de haute qualité, qui peuvent être recyclés et utilisés de nouveau.

Lorsque ce symbole d'une poubelle à roue barrée est attaché à un produit, cela signifie que le produit est couvert par la Directive Européenne 2002/96/EC.

Vous devez vous informer du système local de séparation des déchets électriques et électroniques.

Veuillez agir selon les règles locales et ne pas jeter vos produits usagés avec les déchets domestiques usuels. Jeter correctement votre produit usagé aidera à prévenir les conséquences négatives potentielles contre l'environnement et la santé humaine.

Cómo deshacerse del producto usado (Español)



Su producto ha sido diseñado y fabricado con materiales y componentes de alta calidad, que pueden ser reciclados y reutilizados.

Cuando vea este símbolo de una papelera con ruedas tachada junto a un producto, esto significa que el producto está bajo la Directiva Europea 2002/96/EC.

Deberá informarse sobre el sistema de reciclaje local separado para productos eléctricos y electrónicos.

Siga las normas locales y no se deshaga de los productos usados tirándolos en la basura normal de su hogar. El reciclaje correcto de su producto usado ayudará a evitar consecuencias negativas para el medio ambiente y la salud de las personas.

Entsorgung Ihres Altgerätes (Deutsch)



Ihr Produkt ist aus hochqualitativen Materialien und Bestandteilen hergestellt, die dem Recycling zugeführt und wiederverwertet werden können.

Falls dieses Symbol eines durchgestrichenen Müllcontainers auf Rollen auf diesem Produkt angebracht ist, bedeutet dies, dass es von der Europäischen Richtlinie 2002/96/EG erfasst wird.

Bitte informieren Sie sich über die örtlichen Sammelstellen für Elektroprodukte und elektronische Geräte.

Bitte beachten Sie die lokalen Vorschriften und entsorgen Sie Ihre Altgeräte nicht mit dem normalen Haushaltsmüll. Die korrekte Entsorgung Ihres Altgerätes ist ein Beitrag zur Vermeidung möglicher negativer Folgen für die Umwelt und die menschliche Gesundheit.

Wegwerpen van uw afgedankt apparaat (Nederlands)



Uw apparaat werd ontworpen met en vervaardigd uit onderdelen en materialen van superieure kwaliteit, die gerecycled en opnieuw gebruikt kunnen worden.

Wanneer het symbool van een doorstreepte vuilnisemmer op wielen op een product is bevestigd, betekent dit dat het product conform is de Europese Richtlijn 2002/96/EC.

Gelieve u te informeren in verband met het plaatselijke inzamelingsstelsel voor elektrische en elektronische apparaten.

Gelieve u te houden aan de plaatselijke reglementering en apparaten niet met het gewone huisvuil mee te geven. Door afgedankte apparaten op een correcte manier weg te werpen helpt u mogelijke negatieve gevolgen voor het milieu en de gezondheid te voorkomen.

CAUTION

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

VAROITUS

Muiden kuin tässä esitettyjen toimintojen säädön tai asetusten muutto saattaa altistaa vaaralliselle säteilylle tai muille vaarallisille toiminnoille.

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HDMI

HDMI (High Definition Multimedia Interface) is a digital interface that allows pure HD digital video transmission without the loss of image quality. The integrated control bus allows system control between the TV set and connected devices like a digital set top box.

General Information

Environmental Information

All unnecessary packaging has been omitted. The packaging has been made easy to separate into two materials: cardboard (box, 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.

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

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 rear of your DVD VIDEO player and enter below the Serial No. Retain this information for future reference.

Model No. DVP 5960

Serial No. _____

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.**

Important Note:

Due to the numerous versions of new CD-Audio copy protection or enhanced CD-Audio protection recently available on certain discs, Philips is unable to guarantee that this DVD Player is fully compatible with such new discs. Should you have difficulty playing any such CD-Audio discs, kindly refer them to your CD-Audio disc retailer.

 This DVD player is in conformity with the EMC directive and low-voltage directive.

LASER

Type	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

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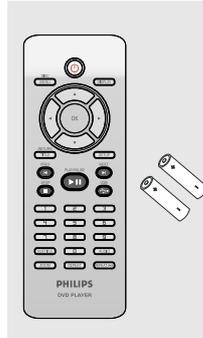
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Introduction

Supplied accessories

Remote Control
and
two AAA batteries



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.

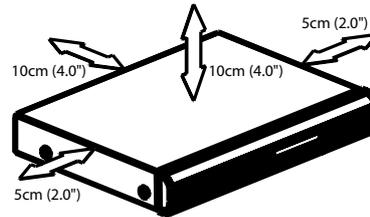
Setup

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 (4.0") clearance from the rear and the top of the set and 5cm (2.0") from the left and right to prevent overheating.



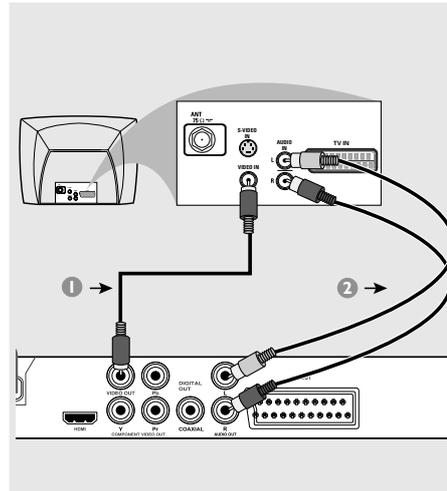
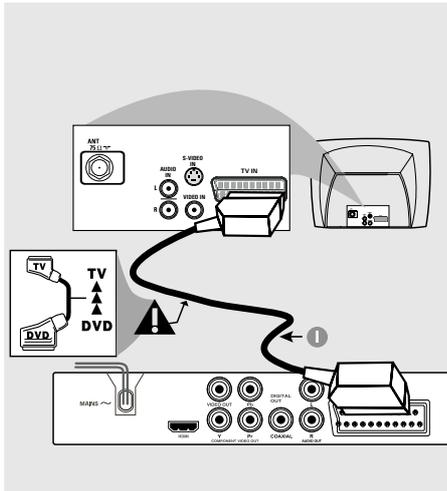
Avoid high temperatures, moisture, water and dust

- 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).

Connections

English

Connecting TV



IMPORTANT!

- You only need to make one video connection from the following options, depending on the capabilities of your TV system.
- Connect the DVD system directly to the TV.
- A SCART connection will let you use features both Audio and Video on the DVD Player.

Using SCART jack

- Use the SCART cable (black) to connect the DVD Player's SCART jack (**TV OUT**) to the corresponding Scart input jacks on the TV (*cable not supplied*).

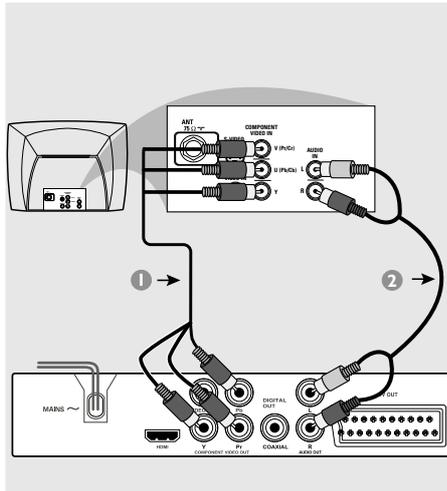
Helpful Hint:

- Ensure that the “TV” indication on SCART cable is connected to the TV set and “DVD” indication on SCART cable is connected to the DVD Player.

Using Composite Video jacks (CVBS)

- 1 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 not supplied*).
- 2 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 not supplied*).

Connections

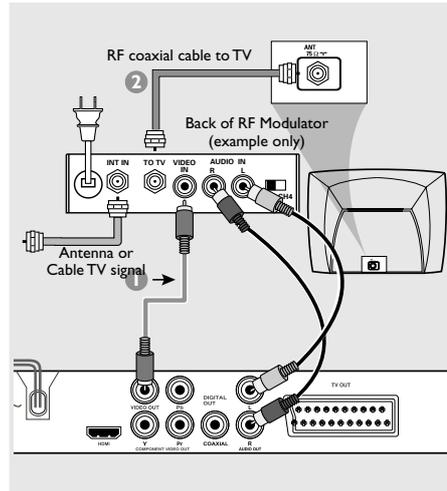


IMPORTANT!

- 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)

- 1 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*).
- 2 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 not supplied*).
- 3 Proceed to page 18 for detailed Progressive Scan set up.



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 or contact Philips for details on RF modulator availability and operations.

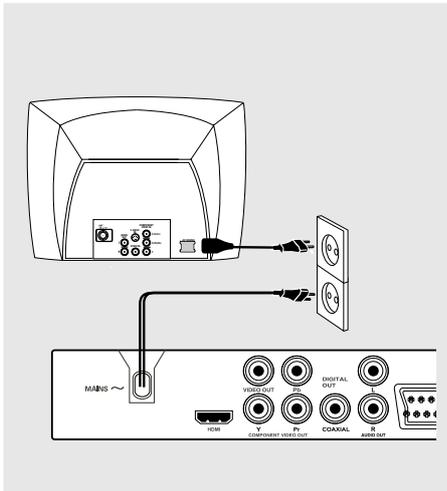
Using an accessory RF modulator

- 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 TV's RF jack.

Connections

English

Connecting the power cord



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

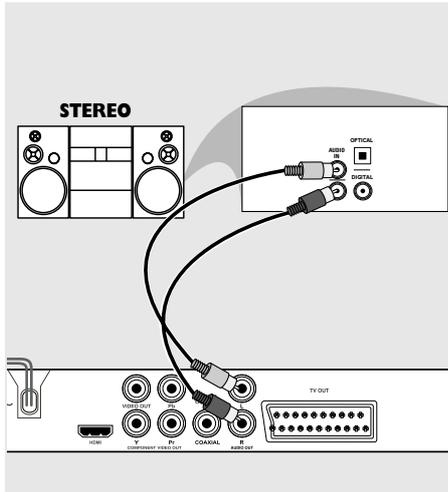
Never make or change any connections with the power switched on.

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



Connections

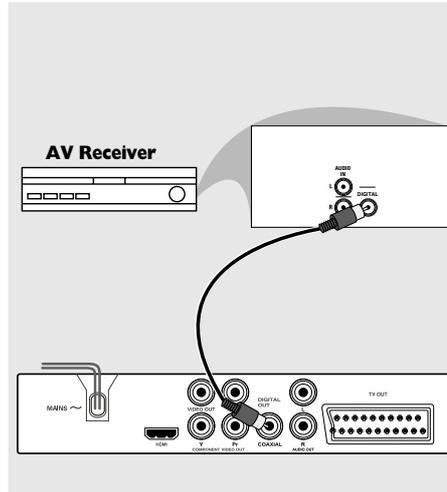
Optional: Connecting to an Audio System



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

- 1 Select one of the video connections (CVBS VIDEO IN, SCART 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)** jacks of the DVD Player to the corresponding **AUDIO IN** jacks on the stereo system (*cable not supplied*).

Optional: Connecting Digital AV Receiver



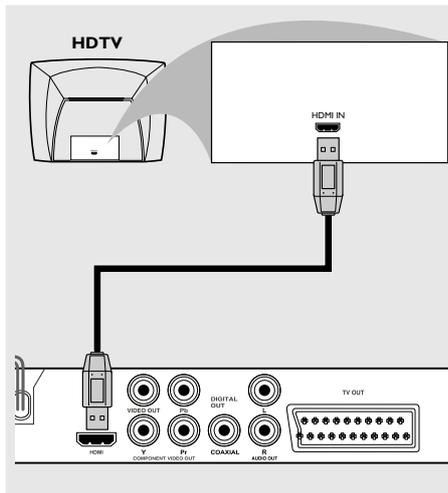
Receiver has a PCM, Dolby Digital, or MPEG2 decoder

- 1 Select one of the video connections (CVBS VIDEO IN, SCART 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 jack 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 33 "Digital Output").

Helpful 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.

Optional: Connecting to a TV with HDMI Jack



Using HDMI (High Definition Multimedia Interface) sockets

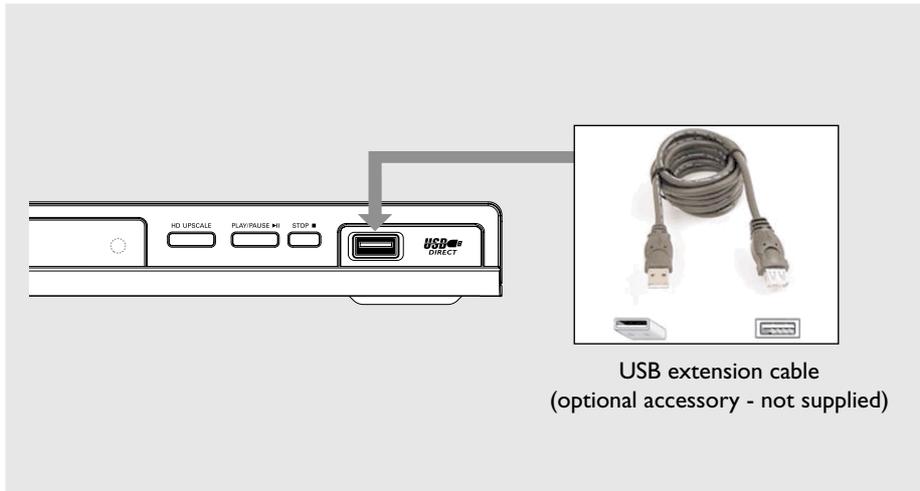
- HDMI connects untouched and uncompressed digital transmission for the highest and crispest sound/image quality.
- It has plug and play capability using only one cable for both audio/video output.
- Use a HDMI cable (*not supplied*) to connect the HDMI OUT on the DVD Player to HDMI IN on an HDMI compatible device (e.g.; 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.
- Proceed to page 42 for detailed HDMI set up.

Helpful Hints:

- If you are using the HDMI as audio source make sure that “Digital Output” is set to “PCM Only” (see page 37 “Digital Output”).

Connections

Optional: Connecting a supported USB devices



Using USB port

You can only view the content of following supported USB devices through this DVD system. Editing the data and recording to a DVD+R/+RW are not possible.

- 1 Connect the supported USB device directly to the USB port on the front panel (as shown on the above illustration).
- 2 Press **USB** button on the remote control in order to view the files stored in the supported USB device.
- 3 You have to stop playback before removing the supported USB device from the USB port.

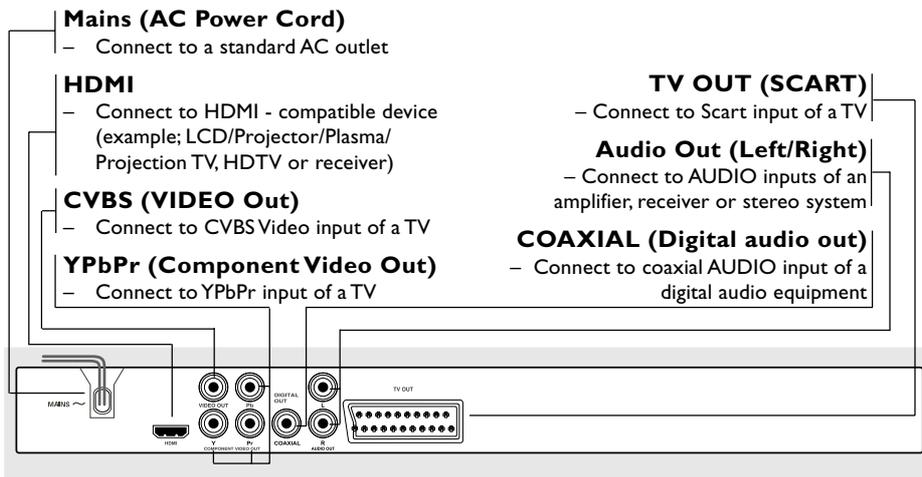
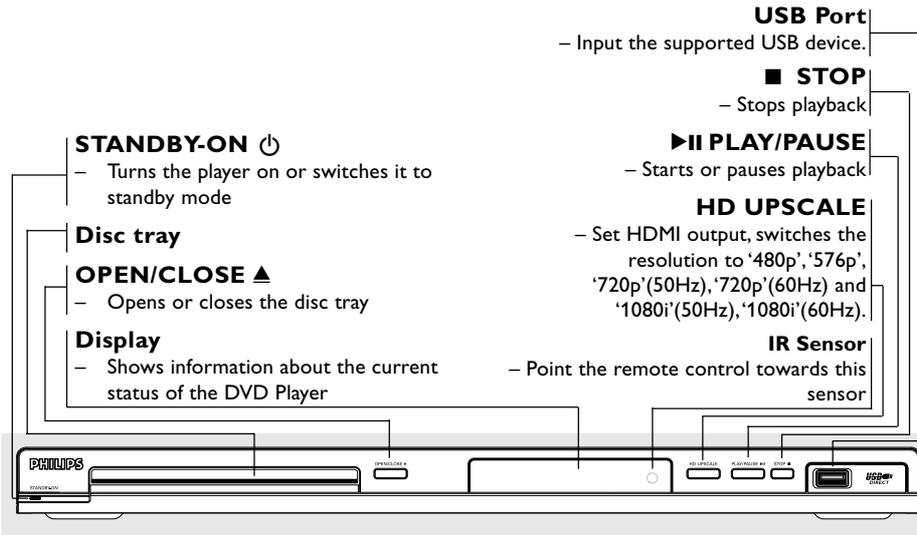
Helpful Hints:

- The USB port only supports to the USB1.1 and the playback of the JPEG/MP3/WMA.
- The USB port is hot swappable and able to read from the following devices: **{Thumb drive or flash drive, Card readers for different kinds of cards, Portable hard disk and MP3 players}**.
- If a non-supported USB device is plugged in, the player will display not supported device.
- If the USB device does not fit into the USB port, a USB extension cable is required.

Functional Overview

English

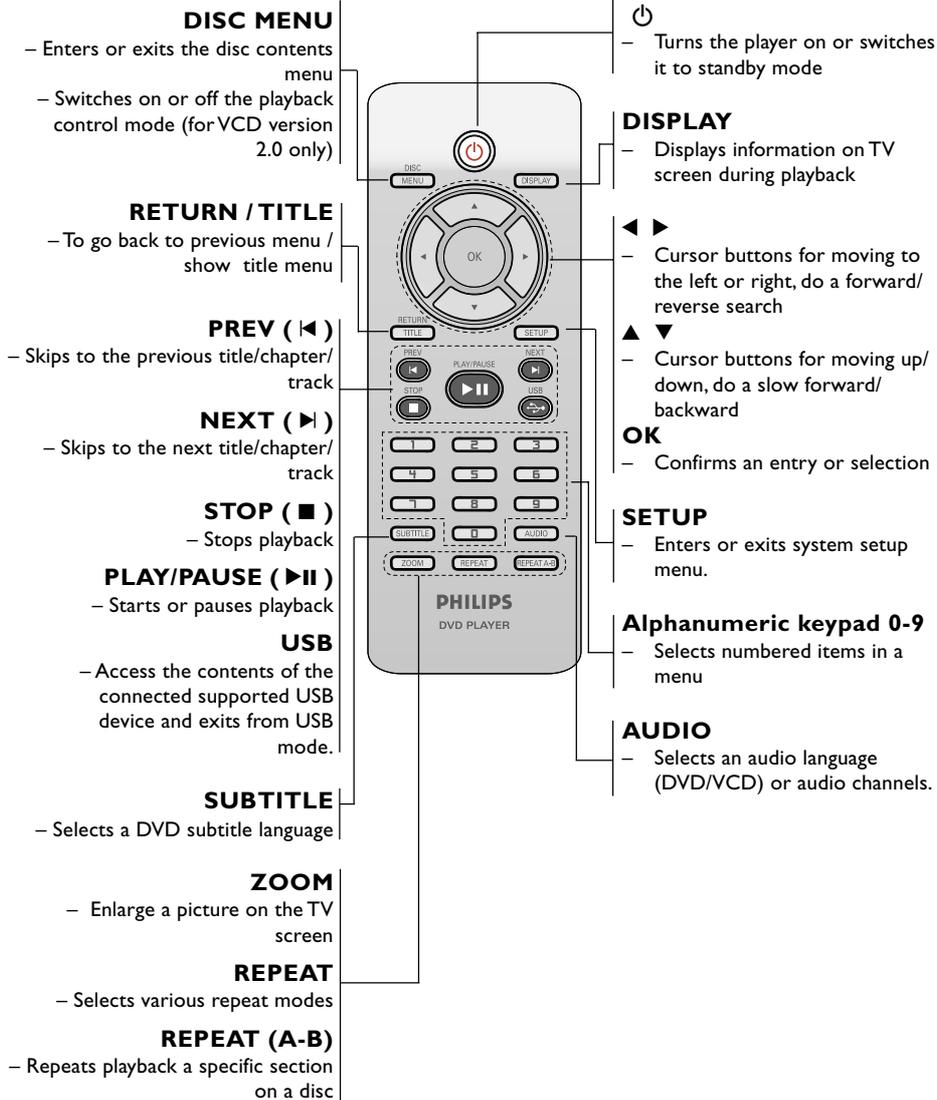
Front and Rear Panels



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

Functional Overview

Remote Control

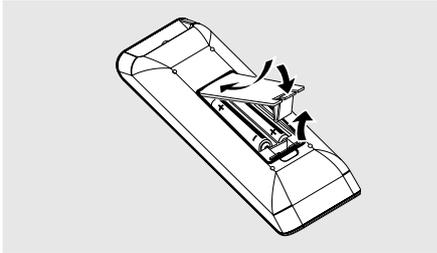


Helpful Hint:
Press **“STOP”** for about 2 seconds to **OPEN** or **CLOSE** disc tray.

Getting Started

English

Step 1: Inserting batteries into the Remote Control



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

Using the Remote Control to operate the Player

- 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.



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 pages 11-12 "Connecting TV").

- 1 Turn on the TV and set to the correct video-in channel. You should see the DVD background screen on the TV.
 - 2 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.
 - Or, set the TV to channel 3 or 4 if you are using an RF modulator.
 - 3 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)

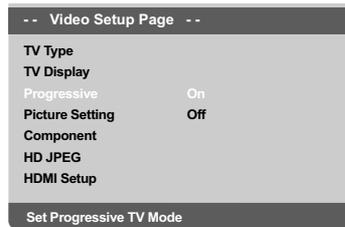
The progressive scan display twice the number of frames per seconds than interlaced scanning (ordinary normal TV system). With nearly double the number of lines, progressive scan offers higher picture resolution and quality.

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 12.)

- 1 Turn on your TV.
- 2 Turn off your TV progressive scan mode or turn on interlaced mode (refer to your TV user manual.)
- 3 Press **POWER** (⏻) on the remote control to turn on the DVD player.
- 4 Select the correct Video Input channel. (See page 19).
→ The DVD background screen appears on the TV.
- 5 Press **SETUP**.
- 6 Press **▶** to select {VIDEO SETUP PAGE}.



- 7 Select {COMPONENT} to {YUV}, then **OK** to confirm.
- 8 Select {PROGRESSIVE} to {ON}, then **OK** to confirm.
→ The instruction menu appears on the TV.



- 9 Press **◀** to highlight **OK** in the menu and press **OK** to confirm.

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

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



- 11 Press **◀** to highlight **OK** in the menu and press **OK** to confirm.
→ The set up is complete now and you can start enjoy the high quality picture.

To deactivate Progressive manually:

- Wait for 15 seconds for 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 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 player and your TV set.

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

Getting Started

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.



- 1 Press **SETUP**.
- 2 Press **▶** to select {VIDEO SETUP PAGE}.
- 3 Press **▲▼** to highlight {TV TYPE}, then press **▶**.
- 4 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 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.

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

Helpful Hints:

- **Before changing the current TV Standard 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 manually:

- Wait for 15 seconds for 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 screen appears on the TV.

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

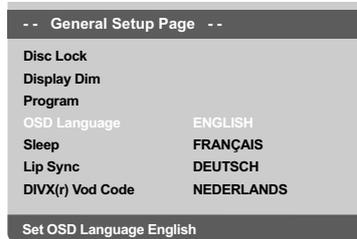
Getting Started

Step 3: Setting language preference

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

Setting the OSD Language

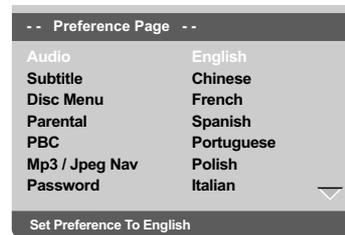
The On-screen language for the system menu will remain as you set it, regardless of various disc languages.



- 1 Press **SETUP**.
- 2 Press **▶** to select {GENERAL SETUP PAGE}.
- 3 Press **▲▼** to highlight {OSD LANGUAGE}, then press **▶**.
- 4 Press **▲▼** to select a language and press **OK**.

Setting the Audio, Subtitle and Disc menu language

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



- 1 Press **STOP** twice then, press **SETUP**.
- 2 Press **▶** to select {PREFERENCE PAGE}.
- 3 Press **▲▼** to highlight one of the options below at a time, then press **▶**.
 - 'Audio' (disc's soundtrack)
 - 'Subtitle' (disc's subtitles)
 - 'Disc Menu' (disc's menu)
- 4 Press **▲▼** to select a language and press **OK**.

If the language you want is not in the list, then select {OTHERS}, then use the **numeric keypad (0-9)** on the remote to enter the 4-digit language code 'XXXX' (see page 7 "Language Code") and press **OK**.

- 5 Repeat steps 3~4 for other language settings.

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

Disc Operations

IMPORTANT!

- If the inhibit icon (⊘) 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.
- 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 Video Discs (DVDs)
- Video CDs (VCDs)
- Super Video CDs (SVCDs)
- Digital Video Discs + Recordable[Rewritable] (DVD+R[W])
- Compact Discs (CDs)
- MP3/discs, picture (Kodak, JPEG) files on CD-R(W).
 - JPEG/ISO 9660 format
 - Maximum 30 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
- WMA files on CD-R(W).
 - Supported Bit-rates : 32~192 kbps
- DivX® disc on CD-R[W]/DVD+R[W]:
 - DivX® 3.11, 4.x, 5.x and 6.x
 - Q-pel accurate motion compensation
 - Global Motion Compensation (GMC) playback
- DivX® Ultra on CD-R[W]/DVD±R[W]:

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, Latin America	 
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.

Disc Operations

Playing discs

- 1 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 19 "Setting up the TV").
- 3 Press **STANDBY-ON** to turn on the DVD player.
 - The DVD background screen appears on the TV.
- 4 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.
- 5 Place a disc into the disc tray with the label facing up, then press **OPEN/CLOSE ▲**.
 - For double-sided discs, load the side you want to play facing up.
- 6 Playback will start automatically. If not press **PLAY/PAUSE ►II**.
 - If a disc menu appears on the TV, see page 26 "Using the Disc Menu".
 - If the disc is locked by parental control, you must enter your six-digit password. (See page 45).
- For more playback features, see pages 25–33.

Basic playback controls

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

Pausing playback

- 1 During playback, press **PLAY/PAUSE ►II** to pause playback and display a still picture.
 - Sound will be muted.
- 2 To resume normal playback, press **PLAY/PAUSE ►II** again.

Selecting track/chapter

- Press **PREV ◀ / NEXT ▶** to go to the previous or next track/chapter.
- 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 ■**.

Helpful hints:

- Screen saver will start automatically if the disc playback is stopped/paused 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.

Disc Operations

Selecting various repeat/shuffle functions

Repeat play mode

The repeat play options vary depending on the disc type.

- While playing a disc, press **REPEAT** continuously to choose a repeat options.

For DVD

- Chapter (currently playing chapter)
- Title (currently playing title)
- All (entire disc)
- Shuffle (random playback)
- Off (cancel)

For Video CD, Audio CD

- Track (currently playing track)
- All (entire disc)
- Shuffle (random playback)
- Off (cancel)

For MP3

- Repeat One (currently playing file)
- Repeat Folder (all files in selected folder)
- Folder (playing all files in one folder once)
- Shuffle (all files in current folder at random playback)
- Single (currently playing file once)

For JPEG, DivX®

In STOP mode,

- Repeat One (currently playing file)
- Repeat Folder (all files in selected folder)
- Folder (playing all files in one folder once)
- Shuffle (all files in current folder at random playback)
- Single (currently playing file once)

In PLAY mode,

- Repeat One (currently playing file)
- Repeat All (playing all files in one disc)
- Repeat Off (cancel)
- Shuffle (all files in current folder at random playback)
- Single (currently playing file once)

- To cancel repeat playback, press **STOP ■**.

Helpful Hint:

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

Repeating a section within a chapter/track

- While playing a disc, press **REPEAT A-B** at your chosen starting point.
- Press **REPEAT A-B** again at your chosen end point.
 - The section A and B can be set only within the same chapter/track.
 - The section will now repeat continuously.
- 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.

Disc Operations

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.

Helpful Hint:

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

Slow Motion

- 1 Press ▲ ▼ during playback to select the required speed: 1/2, 1/4, 1/8 or 1/16 (forward {DVD/SVCD/VCD} or backward {DVD}).
 - Sound will be muted.
- 2 To return to normal speed, press **PLAY/PAUSE ▶II**.

Forward / Reverse Searching

- 1 Press ◀▶ during playback to select the required speed: 2X, 4X, 8X, 16X or 32X (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.

Disc Operations

OSD (On-Screen Display) (DVD/VCD/SVCD)

Using the OSD menu

OSD menu shows the disc playback information (for example, title or chapter number, elapsed playing time, audio/subtitle language), a number of operations can be done without interrupting disc playback.

- During playback, press **DISPLAY**.
→ A list of available disc information appears on the TV screen.



(DVD)



(VCD)

Title/Chapter/Track selection

- 1 Press ▲ ▼ to highlight {Title} / {Chapter} or {Track}, then press ► to access.
- 2 Use the **numeric keypad (0-9)** to enter a valid number (e.g. 04/05).
- 3 Press **OK** to confirm.
→ The playback skips to the selected title/chapter/track.

Time Search

- 1 Press ▲ ▼ to highlight {Time Disp.} (Time Display), then press ► to access.
→ The following display types appears on the TV, depending on the disc in the player.

For DVD discs:

TT Elapsed - elapsed playing time of current Title;
 TT Remain - remaining playing time of current Title;
 CH Elapsed - elapsed playing time of current Chapter;
 CH Remain - remaining playing time of current Chapter;

For VCD/SVCD discs:

Total Elapsed - elapsed playing time of current Disc;
 Total Remain - remaining playing time of current Disc;
 Single Elapsed - elapsed playing time of current Track;
 Single Remain - remaining playing time of current Track;

- 2 Press ▲ ▼ to highlight {TT Time} / {CH Time} / {Disc Time} or {Track Time}, then press ► to access.
- 3 Use the **numeric keypad (0-9)** to input the valid time (e.g. 0:34:27).
- 4 Press **OK** to confirm.
→ The playback skips to the chosen time.

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

Disc Operations

Audio/Subtitle

- 1 Press ▲▼ to highlight {Audio} or {Subtitle}, then press ► to access.
→ Audio or Subtitle menu appears on the TV.
- 2 Press ▲▼ to select one language, then press **OK** to confirm.
→ Current audio or subtitle language will be changed to the selected language.

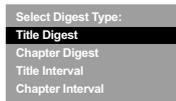
Angle

- 1 Press ▲▼ to highlight {Angle}, then press ► to access.
- 2 Use the **numeric keypad (0-9)** to key in a valid number.
- 3 Press **OK** to confirm.
→ Playback will go to the selected angle.

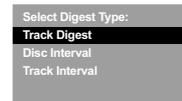
Preview Function

The preview function allows you to reduce the picture of 6 tracks enough to display in a full screen.

- 1 Press ▲▼ to highlight {Preview}, then press ► to access.
→ The preview menu appears on the TV screen.

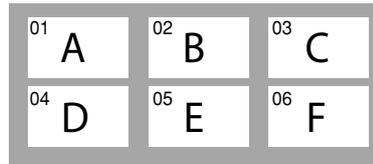


(DVD example)



(Video CD example)

- 2 Press ▲▼ to select the **PREVIEW** type, then press **OK**.
→ The picture of each segment will appear on the screen.



(example for 6 thumbnail pictures display)

- 3 Press ▲▼◀▶ to select a track or input your selected track number using the numeric keypad (0-9), then press **OK**.
→ Playback will start automatically on the selected track.

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

Disc Operations

Special DVD Features

Playing a Title

- 1 Press **DISC MENU**.
→ The disc title menu appears on the TV screen.
- 2 Use **▲ ▼ ◀ ▶** keys or **numeric 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 (MONO LEFT, MONO RIGHT, MIX-MONO, STEREO).

Subtitles

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

Special VCD & SVCD Features

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 numeric 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.

English

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

Disc Operations

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 32 for more information).

- 1 Load a DivX disc.
→ Playback will start automatically. If not press **PLAY/PAUSE** ►||.
- 2 Pressing **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.

Helpful Hints:

- 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.

Advance features of the DivX Ultra

- **XSUB™ subtitles** let you author movies with multiple language subtitle sets.
- **Interactive video menus** offer unprecedented convenience and control so you can quickly navigate between various scenes or bonus features, and select from audio track and subtitle options.
- **Alternate audio tracks** enable audio tracks in multiple language versions or separate audio tracks for specific speaker configurations
- **Chapter points** provide flexibility, allowing you to jump straight to the scene you want to watch from anywhere within the video.

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

Disc Operations

Playing pictures or audio files from the supported USB device

This DVD system able to access and view the data (JPEG, MP3 or WMA) in the supported USB device.

- When disc playing, insert a supported USB device into the USB port on the front panel.
 - A dialog will be displayed on the left down corner.
 - When playing ISO disc, the dialog will not be displayed.



- Press **USB** on the remote control to access the data in the drive.
 - A file menu that contains all supported files will be displayed on the TV screen.



- Use **▲▼** to navigate within the menu and select the device you want to access, then press **OK**.
- Press **USB** on the remote control to exit the file menu.
- Press **USB** before removing the supported USB device from the slot.

Compatibility of USB device

- The USB port does not support the connection of other USB devices except the supported USB device.
- The USB port can supports the playback of JPEG/MP3/WMA files.
- It is not possible to record from the data from USB ports to this DVD system.
- Copy protected contents are not playable.

Helpful Hints:

- Supported USB device include: {**Thumb drive or flash drive, Card readers for different kinds of cards, Portable hard disk and MP3 players**}.

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

Disc Operations

Playing MP3/WMA/JPEG/Kodak Picture CD

This DVD system can playback WMA, MP3, JPEG, VCD & SVCD files on a personally recorded CD-R/RW disc, commercial CD or USB device.

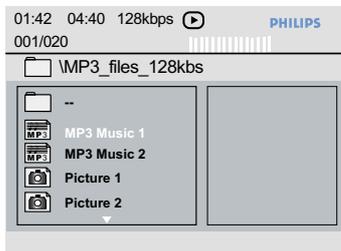
- For USB device, only WMA, MP3 and JPEG data can be access.

IMPORTANT!

You have to turn on your TV and set to the correct Video In channel. (See page 17 "Setting up the TV").

General Operation

- 1 Load a disc or USB device.
 - 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 **PREV ◀ / NEXT ▶** to go to previous/next page.
- 5 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 ▶II** repeatedly to pause/resume playback.

Zoom picture (JPEG)

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

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°

Helpful Hints:

- 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.

Disc Operations

Preview Function (JPEG)

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

- 1 Press **DISPLAY** during playback.
→ 12 thumbnail pictures will appear on the TV screen.



- 2 Press **PREV** ◀ / **NEXT** ▶ to display the other pictures on the previous/next page.
- 3 Press ◀ ▶ ▲ ▼ on highlight one of the picture and press **OK** to start playback.
- 4 Press **DISC MENU** to return to Picture CD menu.

Playing MP3/WMA music and JPEG picture simultaneously

- 1 Load a disc that contains music and picture.
→ The disc menu appears on the TV screen.
- 2 Select an MP3/WMA track.
- 3 During MP3/WMA music playback, select a picture from the TV screen and press **OK**.
→ The picture files will be played back one after another until end of the folder.
- 4 To quit simultaneous playback, press ■ .

Helpful Hint:

- Some files on Kodak or JPEG disc may be distorted during playback due to the configuration and characteristics of the disc.

English

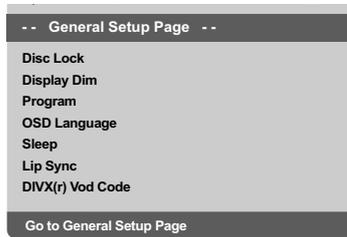
TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

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.

General Setup menu

- 1 In disc mode, press **SETUP**.
- 2 Press **◀▶** to select 'General Setup' icon.
- 3 Press **OK** to confirm.



Locking/Unlocking the disc for viewing

Not all discs are rated or coded by the disc maker. You can prevent a specific disc from playing by locking the disc. Up to 40 discs can be locked.

- 1 In 'GENERAL SETUP PAGE', press **▲▼** to highlight {DISC LOCK}, then press **▶**.

LOCK

Select this to block the playback of the current disc. Subsequent access to a locked disc requires six-digit password. The default password is '136 900' (see page 44 "Changing the password").

UNLOCK

Select this to unlock the disc and allow future playback.

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

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

Dimming player's display panel

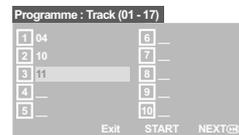
You can select different levels of brightness for the display screen.

- 1 In 'GENERAL SETUP PAGE', press **▲▼** to highlight {DISPLAY DIM}, then press **▶**.
100% – Select this for full brightness.
70% – Select this for medium brightness.
40% – Select this for dimming the display.
- 2 Press **▲▼** to select a setting, then press **OK** to confirm your selection.

Programming disc tracks (not for Picture CD/MP3/WMA/DivX®)

You can play the contents of the disc in the order you want by programming the tracks to be played. Up to 20 tracks can be stored.

- 1 In 'GENERAL SETUP PAGE', press **▲▼** to highlight {PROGRAM}, then press **▶** to select {INPUT MENU}.
- 2 Press **OK** to confirm.



To input your favourite tracks/chapter

- 3 Use the **numeric keypad (0-9)** to enter a valid track/chapter number.
- 4 Use **◀▶▲▼** keys to move the cursor to the next position.
→ If the track number is more than ten, press **NEXT ▶** to open the next page and proceed with programming or,
→ Use **◀▶▲▼** keys to highlight {NEXT} on the programme menu, then press **OK**.
- 5 Repeat steps 3~4 to input another track/chapter number.

DVD Setup Menu Options

If you want to remove a track

- Use ◀▶ ▲ ▼ keys to move the cursor to the track you want to remove.
- Press **OK** to remove this track from the programme menu.

To start programme playback

- Use ◀▶ ▲ ▼ keys to highlight {START} on the programme menu, then press **OK**.
→ Playback will start with the selected tracks under the programmed sequence.

To exit programme playback

- Use ◀▶ ▲ ▼ keys to highlight {EXIT} on the programme menu, then press **OK**.

OSD Language

This menu contains various language options for display language on the screen. For details, see page 22.

Sleep

Sleep function allows you to turn off the DVD Player automatically after a preset time.

- In 'GENERAL SETUP PAGE', press ▲ ▼ to highlight {SLEEP}, then press ▶.

15 Mins

Turn off the DVD Player after 15 minutes.

30 Mins

Turn off the DVD Player after 30 minutes.

45 Mins

Turn off the DVD Player after 45 minutes.

60 Mins

Turn off the DVD Player after 60 minutes.

OFF

Turn off the sleep function.

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

DivX(R) VOD registration code

DivX® VOD (Video On Demand) registration code allows you to rent and purchase videos using the DivX® VOD service from the internet.

For more information, visit us at <http://vod.divx.com>

- In 'GENERAL SETUP PAGE', press ▲ ▼ to highlight {DIVX(R) VOD CODE}, then press ▶.

→ The registration code will appear.

- Press **OK** to exit.

- Use the registration code to purchase or rent the videos from DivX® VOD service at <http://vod.divx.com>. Follow the instructions and download the video onto a CD-R for playback on this DVD player.

Helpful Hints:

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

Lip Sync

This allows you to adjust the audio delay (ms) with respect to the video output for the lip synchronization.

- In 'GENERAL SETUP PAGE', press ▲ ▼ to highlight {LIP SYNC}, then press ▶.

→ Use ◀▶ to adjust the following options; {0ms} – {200ms}

→ The default setting is {120ms}

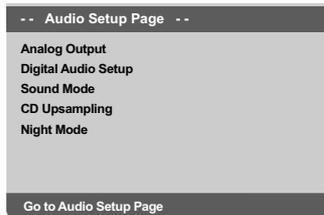
- Press **OK** to confirm.

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

DVD Setup Menu Options

Audio Setup Menu

- 1 In disc mode, press **SETUP**.
- 2 Press ◀▶ to select 'Audio Setup' icon.
- 3 Press **OK** to confirm.



Analog Output

This options allows you to set the stereo analog output of your DVD Player.

- 1 In 'AUDIO SETUP PAGE', press ▲▼ to highlight {ANALOG OUTPUT}, then press ▶.

Stereo

Select this option when output delivers sound from only the two front speakers.

LT/RT

Select this option if your DVD Player is connected to a Dolby Pro Logic decoder.

V SURR

Allows the DVD player to use virtual surround sound effects.

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

Digital Audio Setup

The options included in Digital Audio Setup are: 'Digital Output' and 'LPCM Output'.

- 1 In 'AUDIO SETUP PAGE', press ▲▼ to highlight {DIGITAL AUDIO SETUP}, then press ▶.
- 2 Press the ▲▼ keys to highlight an option.
- 3 Enter its submenu by pressing ▶.
- 4 Press ▲▼ to select a setting, then press **OK** to confirm your selection.

Digital Output

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

→ **Off**: Turn off the digital output.

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

→ **PCM Only**: Only if your receiver is not capable of decoding multi-channel audio.

Helpful Hints:

– If **DIGITAL OUTPUT** is set to 'All', all audio settings except **MUTE** are invalid.

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.

→ **48K**: Playback a disc recorded at the sampling rate of 48kHz.

→ **96K**: Playback a disc recorded at the sampling rate of 96kHz that can only be achieved in Stereo-Classic (Flat) mode.

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

DVD Setup Menu Options

Sound Mode

The options included in Sound Mode Setup are: '3D', 'Movie Mode' and 'Music Mode'.

- 1 In 'AUDIO SETUP PAGE', press ▲▼ to highlight {SOUND MODE}, then press ►.
- 2 Press the ▲▼ keys to highlight an option.
- 3 Enter its submenu by pressing ►.
- 4 Press ▲▼ to select a setting, then press **OK** to confirm your selection.

3D

This function provides a virtual surround sound experience using just two speakers.

→ Off, Living Room, Hall, Arena and Church

Movie Mode

Select a Sound Mode that matches the type of music you are playing. These preset Sound Modes adjust the frequency bands of the video to enhance your favourite movie sound track.

→ Off, Sci-Fi, Action, Drama and Concert

Music Mode

Select a Sound Mode that matches the type of music you are playing. These preset Sound Modes adjust the frequency bands of the audio to enhance your favourite music.

→ Off, Digital, Rock, Classic and Jazz

CD Upsampling

This feature allows you to convert your music CD to a higher sampling rate using sophisticated digital signal processing for better sound quality. If you have activated the upsampling, the player will automatically switch to stereo mode.

- 1 In 'AUDIO SETUP PAGE', press ▲▼ to highlight {CD UPSAMPLING}, then press ►.

OFF

Select this to disable CD-upsampling.

88.2 kHz (X2)

Select this to convert the sampling rate of the CDs twice higher than the original.

176.4 kHz (X4)

Select this to convert the sampling rate of the CDs four times higher than the original.

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

Helpful Hint:

– CD upsampling feature is only applicable to stereo output setting.

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

DVD Setup Menu Options

Night Mode - turning on/off

In this mode, the high volume outputs are softened. It is useful for watching your favourite action movie without disturbing others at night.

- 1 In 'AUDIO SETUP PAGE', press ▲▼ to highlight {NIGHT MODE}, then press ►.

ON

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

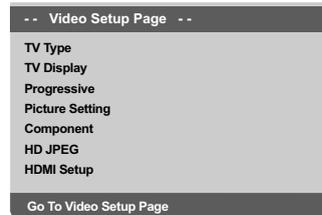
OFF

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

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

Video Setup Menu

- 1 In disc mode, press **SETUP**.
- 2 Press ◀▶ to select 'Video Setup' icon.
- 3 Press **OK** to confirm.



TV Type

This menu contains the options for selecting the colour system that matches the connected TV. For details, see page 21.

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

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.

- 1 In 'VIDEO SETUP PAGE', press ▲ ▼ to highlight {TV DISPLAY}, then press ►.
- 2 Press ▲ ▼ to highlight one of the options below:

4:3 PAN SCAN –

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 LETTER BOX –

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.

- 3 Select an item and press **OK**.

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, a distorted picture will appear on the TV. For proper progressive scan set up, see page 20.

- 1 In 'VIDEO SETUP PAGE', press ▲ ▼ to highlight {PROGRESSIVE}, then press ►.

OFF

To disable Progressive Scan function.

ON

To enable Progressive Scan function.

- 2 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.

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

DVD Setup Menu Options

Picture Setting

This DVD Player provides three predefined sets of picture colour settings and one personal setting which you can define yourself.

- You can also press **SMART PICTURE** on the DVD player's front panel to directly access to the picture colour settings.
- ① In 'VIDEO SETUP PAGE', press ▲▼ to highlight {PICTURE SETTING}, then press ►.

STANDARD

Select this for standard picture setting.

VIVID

Select this to make the TV picture brighter.

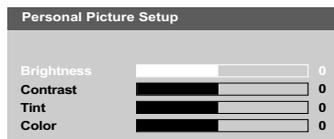
COOL

Select this to make the TV picture softer.

PERSONAL

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

- ② Press ▲▼ to select a setting, then press **OK** to confirm your selection.
- ③ If you select {PERSONAL}, then proceed to steps ④~⑦.
→ The 'personal picture 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 the previous menu item. Press **SETUP** to exit the menu item.

DVD Setup Menu Options

Switching the YUV/RGB

This setting allows you to toggle the output of the video signal between RGB (on scart) and Y Pb Pr (YUV).

- 1 In 'VIDEO SETUP PAGE', press ▲ ▼ to highlight {COMPONENT}, then press ►.

YUV

Select this for Y Pb Pr connection.

RGB

Select this for Scart connection.

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

Warning:

When the player is set to Y Pb Pr (YUV), some TV may not properly synchronise with player on the SCART connector.

HD JPEG Mode

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

- 1 In 'VIDEO SETUP PAGE', press ▲ ▼ to highlight {HD JPEG}, then press ►.

ON

Displays picture with high quality.

OFF

Displays picture with standard quality.

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

English

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

DVD Setup Menu Options

HDMI Setup

The options included in HDMI Setup is: 'Resolution'.

- 1 In 'VIDEO SETUP PAGE', press ▲▼ to highlight {HDMI Setup}, then press ►.
- 2 Press the ▲▼ keys to highlight an option.
- 3 Enter its submenu by pressing ►.
- 4 Press ▲▼ to select a setting, then press **OK** to confirm your selection.

Resolution

You can select the resolution of the picture according to your preference and the connected HDMI TV.

→ **480p**: Interlaced output in 480 lines for NTSC TV.

→ **576p**: Interlaced output in 576 lines for PAL TV.

→ **720p**: Progressive output upscale to 720 lines.

→ **1080i**: Interlaced output upscale to 1080 lines.

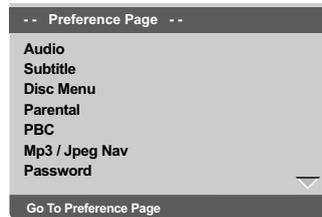
→ **Auto**: Output automatically based on your display's supported resolution.

Helpful Hint:

- You can also press **HD UPSCALE** button on the front panel to switch HDMI Resolution.
- If not 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.

Preference Page

- 1 Press **■** twice to stop playback (if any), then press **SETUP**.
- 2 Press ◀▶ to select the 'Preference Page' icon.
- 3 Press **OK** to confirm.



Audio, Subtitle, Disc Menu

These menus contain various language options for audio, subtitle and disc menu which may be recorded on the DVD. For details, see page 22.

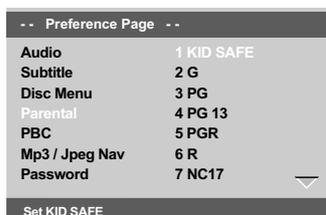
TIPS: The underlined option is the factory default setting. Press ◀ to go back to the previous menu item. Press **SETUP** to exit the menu item.

DVD Setup Menu Options

Restricting playback by Parental Control

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 'PREFERENCE PAGE', press ▲▼ to highlight {PARENTAL}, then press ►.



- Press ▲▼ to highlight a rating level for the disc inserted and press **OK**.
→ To disable Parental controls and have all Discs play, select {8 ADULT}.
- Use the **numeric keypad (0-9)** to enter the six-digit password (see page 44 "Changing the password").
→ DVDs that are rated above the level you selected will not play unless you enter your six-digit password.

Helpful Hints:

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

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.

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

DVD Setup Menu Options

PBC

You can set the PBC to ON or OFF. This feature is available only on Video CD 2.0 with playback control (PBC) feature. For details, see page 29.

MP3/JPEG Menu - turning on/off

MP3/JPEG Navigator can be set only if the disc is recorded with menu. It allows you to select different display menus for easy navigation.

- 1 In 'PREFERENCE PAGE', press ▲▼ to highlight {MP3/JPEG NAV}, then press ►.

WITHOUT MENU

Select this to display all the files contained in the MP3/JPEG.

WITH MENU

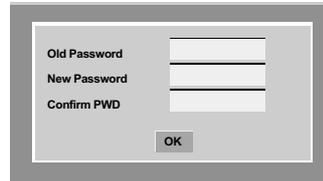
Select this to display only the folder menu of the MP3/JPEG.

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

Changing the Password

The same password is used for both Parental Control and Disc Lock. Enter your six-digit password when prompted on the screen. The default password is 136900.

- 1 In 'PREFERENCE PAGE', press ▲▼ to highlight {PASSWORD}, then press ► to select {CHANGE}.
- 2 Press **OK** and the menu appears.



- 3 Use the **numeric keypad (0-9)** to enter your old six-digit password.
→ When doing this for the first time, key in '136900'.
→ If you forget your old six-digit password, key in '136900'.
- 4 Enter the new six-digit password.
- 5 Enter the new six-digit password a second time to confirm.
→ The new six-digit password will now take effect.
- 6 Press **OK** to confirm.

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

DVD Setup Menu Options

Setting the DivX® Subtitle font

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

- 1 In 'PREFERENCE PAGE', press ▲▼ to highlight {DivX® SUBTITLE}, then press ►.

Standard

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

Cyrillic

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

Central European

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

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

Restoring to original settings

Setting the DEFAULT function will reset all options and your personal settings to the factory defaults, except your password for Parental Control and Disc Lock.

- 1 In 'PREFERENCE PAGE', press ▲▼ to highlight {DEFAULT}, then press ► to select {RESET}.
- 2 Press **OK** to confirm.
→ All settings will now reset to factory defaults.

English

TIPS: The underlined option is the factory default setting.
Press ◀ to go back to the 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
No power	<ul style="list-style-type: none"> – Check if the AC power cord is properly connected. – Press the STANDBY ON on the front of the DVD system to turn on the power.
No picture	<ul style="list-style-type: none"> – Refer to your TV's manual for correct Video In channel selection. Change the TV channel until you see the DVD screen. – Check if the TV is switched on. – 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 20 for proper progressive scan set up or deactivate the progressive scan feature as below: <ol style="list-style-type: none"> 1) Turn off your TV progressive scan mode or turn on to interlaced mode. 2) Press OPEN/CLOSE to open the disc tray. 3) Press numeric keypad '1' on the remote control for few seconds.
Distorted picture	<ul style="list-style-type: none"> – Sometimes a small amount of picture distortion may appear depending on the disc being played back. This is not a malfunction.
Completely distorted picture or black/white picture with DVD	<ul style="list-style-type: none"> – Connect DVD Player directly to the TV. – Make sure the disc is compatible with the DVD/Player. – Ensure that the DVD Player's TV Type is set to match that of the Disc and your TV.
No sound or distorted sound	<ul style="list-style-type: none"> – Adjust the volume. – Check that the speakers are connected correctly.
No audio at digital output	<ul style="list-style-type: none"> – Check the digital connections. – Check if your receiver can decode MPEG-2 and if not, please make sure the digital output is set to PCM. – Check if the audio format of the selected audio language matches your receiver capabilities.
No sound and picture	<ul style="list-style-type: none"> – Check that the RGB/SCART cable is connected to the correct device (See Connecting TV).
Disc can't be played	<ul style="list-style-type: none"> – The DVD+R/CD-R must be finalised. – Ensure the disc label is facing up. – Check if the disc is defective by trying another disc. – Region code incorrect.

Visit us at www.philips.com/support for service support

Troubleshooting

English

Problem	Solution
Picture freezes momentarily during playback	<ul style="list-style-type: none"> – Check the disc for fingerprints/scratches and clean with a soft cloth wiping from centre to edge.
No return to start-up screen when disc is removed	<ul style="list-style-type: none"> – Reset the unit by switching the player off, then on again.
The player does not respond to the Remote Control	<ul style="list-style-type: none"> – Aim the Remote Control directly at the sensor on the front of the player. – Reduce the distance to the player. – Replace the batteries in the Remote Control. – Re-insert the batteries with their polarities (+/– signs) as indicated.
Buttons do not work	<ul style="list-style-type: none"> – To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.
Player does not respond to some operating commands during playback.	<ul style="list-style-type: none"> – Operations may not be permitted by the disc. Refer to the instructions of the disc jacket.
DVD Player cannot read CDs/DVDs	<ul style="list-style-type: none"> – Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD Player for repair.
Menu items cannot be selected	<ul style="list-style-type: none"> – Press STOP twice before selecting System Menu. – Depending on the disc availability, some menu items cannot be selected.
Unable to play DivX® movies	<ul style="list-style-type: none"> – Check that the DivX® file is encoded in 'Home Theater' mode with DivX® 5.x encoder.
Unable to select Progressive Scan on/off	<ul style="list-style-type: none"> – Check that the output of the video signal is switch to 'YUV'.
No sound during DivX® movies playback	<ul style="list-style-type: none"> – The audio codec may not be supported by the DVD player.
An DivX® movies does not repeat	<ul style="list-style-type: none"> – Check that file size of the movies does not exceed the file size of the CD disc during burning.
The contents of the USB flash drive cannot be read	<ul style="list-style-type: none"> – The USB flash drive format is not compatible with the player. – Drive is formatted with a different file system. (eg. NTFS)
Slow operations of the USB flash drive	<ul style="list-style-type: none"> – Big file size or high resolution USB flash drive takes longer time to read and display on the TV screen.
No sound is output from the HDMI out	<ul style="list-style-type: none"> – Check the connection between the TV and the HDMI jack of DVD player. – See if the TV supports this 480p/576p/720p/1080i DVD player. – Check your TV system setup correctly.

Visit us at www.philips.com/support for service support

Specifications

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

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

VIDEO PERFORMANCE

Video DAC	12 bit, 108 MHz	
YPbPr	0.7 Vpp — 75 ohm	
Video Output	1Vpp — 75 ohm	
RGB (SCART)	0.7 Vpp — 75 ohm	
HDMI	480p, 576p, 720p, 1080i, Auto	

VIDEO FORMAT

Digital Compression	MPEG 2 for DVD,SVCD	
	MPEG 1 for VCD	
	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/ 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)	> 100 dB	
Dynamic range(1kHz)	> 90 dB	
Crosstalk (1kHz)	> 100 dB	
Distortion/noise (1kHz)	> 85 dB	
MPEG MP3	MPEG Audio L3	

CONNECTIONS

Scart Output	Euroconnector
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

CABINET

Dimensions (w x h x d)	435 x 37 x 235 mm
Weight	Approximately 2.0 kg

POWER CONSUMPTION

Power Supply Rating	230V; 50Hz
Power consumption	< 10 W
Power consumption in Standby mode	< 0.8 W

Specifications subject to change without prior notice

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: The DivX[®] codec is a patent-pending, MPEG-4 based video compression technology, developed by DivX[®] Networks, 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).

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

JPEG: 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).

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

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.

HDMI: High Definition Multimedia Interface. A specification developed by the HDMI Working Group that combines multi-channel audio and high definition video and that controls signals into a single digital interface for use with DVD players, digital television, and other audiovisual devices.