LAYER
DEO SA-CD
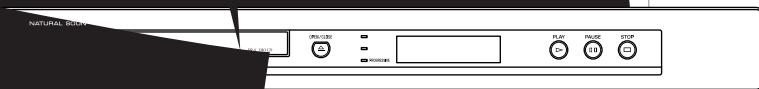
NATURAL SOUND

OPEN/CLOSE
PLAY PAUSE STOP

DVD
AUDIO/VIDEO

COMPACT

CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.

2 Install this sound system in a well ventilated, cool, dry, clean place — away from direct sunlight, heat sources, vibration, dust, moisture, or cold. In a cabinet, allow about 2.5cm (1 inch) of free space all around this unit for adequate ventilation.

3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.

4 Do not expose this unit to sudden temperature changes from cold to hot, nor locate this unit in an environment with high humidity (i.e., a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.

5 Avoid installing this unit in a location where foreign objects may fall onto this unit or where this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
  – Other components, as they may cause damage and/or discoloration on the surface of this unit.
  – Burning objects (i.e., candles), as they may cause fire, damage to this unit, and/or personal injury.
  – Containers with liquid in them, as they may fall, spilling the liquid and causing an electrical shock to the user and/or damage to this unit.

6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.

7 Do not plug in this unit to a wall outlet until all connections are complete.

8 Do not operate this unit upside-down. It may overheat, possibly causing damage.

9 Do not use excessive force on switches, knobs and/or cords.

10 When disconnecting the power cord from the wall outlet, grasp the plug; do not pull the cord.

11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.

12 Use only the voltage specified on this unit. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than as specified.

13 To prevent damage by lightning, disconnect the power cord from the wall outlet during an electrical storm.

14 Do not attempt to modify or fix this unit. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reason.

15 When not planning to use this unit for long periods of time (i.e., vacation), disconnect the AC power plug from the wall outlet.

16 Be sure to read the "Troubleshooting" section on common operating errors before concluding that this unit is faulty.

17 Before moving this unit, press STANDBY/ON to set the unit in standby mode, then disconnect the AC power plug from the wall outlet.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

When playing DTS encoded CDs, excessive noise will be heard from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the player are connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1-channel DTS Digital Surround™ decoder system must be connected to the digital output of the player.

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.

DANGER

This unit emits visible laser radiation when open. Avoid direct eye exposure to beam.
When this unit is plugged into a wall outlet, do not place your eyes close to the opening of the disc tray and other openings or look inside.

Contents

Introduction

Functional Overview

Preparation

Getting Started

Disc Operations

Contents

Setup Menu

Thank you for purchasing this unit. This Owner's Manual explains the basic operation of this unit.

Region Codes

DVD discs must be labeled for ALL regions or Region 2 in order to play on this Player. You cannot play discs that are labeled for other regions.

Supplied accessories

– Remote control
– Batteries (two AA size) for remote control
– Audio pin cable
– Video pin cable
– Owner's Manual

Notes about discs

– This unit is designed for use with DVD video, Video CD, Super video CD, DVD-Audio, Super Audio CD (SA-CD), Audio CD, CD-R, CD-RW, DVD+RW, DVD+R, DVD-R, DVD-RW and DVD-RW (VR format).

This unit can play:
– MP3, picture (Kodak, JPEG) files on CD-R(W).
  – JPEG/ISO 9660 format
  – Maximum 30 characters display.
– DivX® disc on CD-R[W]/DVD+R[W]/DVD-R[W] (3.11, 4.x and 5.x)
– Dual layer DVDs
– CD-R, CD-RW, DVD+R/RW, DVD-R/RW and DVD-RW (VR format) cannot be played unless finalized.
   – ... discs cannot be played depending ... ing conditions such as PC ... plication software.
   ... dition of the ...

– Do not use any non standard shaped discs (heart, etc.).
– Do not use disc with tape, stickers, or paste on it. Doing so may damage the unit.
– Do not use a disc which has been printed on its surface by a commercially available label printer.

Cleaning discs

• When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.
• Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog records.

Patent information

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

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

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

Functional Overview

Front Panel

STANDBY/ON
– turns on this unit or sets it to the
standby mode

Disc tray

■ STOP
– stops playback

II PAUSE
– pauses playback

► PLAY
– starts playback

DVD-AUDIO indicator
– lights up when the player detects
DVD-Audio signals

SA-CD indicator
– lights up when the player detects
SA-CD signals

PROGRESSIVE indicator
– lights up when the unit enters
Progressive mode

▲ OPEN/CLOSE
– opens or closes the disc tray

Front panel display
– shows information about the
operational status of the unit

A.DRCT
– lights up when you enter the AUDIO
DIRECT mode by pressing the AUDIO
DIRECT button on the remote control
during audio disc playback

ML.CH
– lights up when you play multi-channel
audio source

D.MIX
– lights up when you play the discs that
allow down mixing of the multi-channel
audio sources

A.DRCT   ML.CH   D.MIX

Rear Panel

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

AUDIO DIRECT
– switches video output on and off during audio disc playback

PAGE
– turns the pages of DVD-Audio still pictures

DIMMER
– use to select from 3 different brightness levels for the display

SOUND MODE
– selects a sound mode: Stereo, Virtual Surround or Multi-channel
– changes the SA-CD playback area

TOP MENU/RETURN
– displays the top-level disc menu (DVD)
– moves back to the previous menu (VCD)

MENU
– accesses the disc's menu (for DVDs)
– switches PBC on/off (for VCDs)

◄ ► ▲ ▼
– (left/right/up/down) selects an item in the currently displayed menu

ENTER/OK
– acknowledges the menu selection

|◄◄
– searches backward*
– moves to the previous chapter or track

STOP (■)
– stops playback

PLAY (►)
– starts playback

PAUSE (❚❚)
– pauses playback temporarily
– frame-by-frame playback

⏻/❙
– turns on this player or sets it to the standby mode

numeric buttons
– selects numbered items in the currently displayed menu

ON SCREEN
– accesses or clears the player's On Screen Display menu

SETUP
– accesses or clears the player's setup menu

►►|
– searches forward*
– moves to the next chapter or track

SUBTITLE
– selects the language for subtitles

ANGLE
– selects the DVD camera angle

ZOOM
– enlarges the video image

AUDIO
– selects the audio language or format selector
– changes the Hybrid SA-CD playback layer

REPEAT
– repeats the chapter, track, title or disc

A-B
– repeats a specific segment

SHUFFLE
– plays tracks in random order

SCAN
– plays the first 6 seconds or less of each track/chapter on the disc

* Press and hold button for about two seconds.

General Notes on connections

Never make or change connections with the power switched on.

• Depending on the equipment you wish to connect, there are various ways you could connect this unit. Possible connections are shown in the following drawings.

• Please refer to the manuals of other equipment as necessary to make the best connections.

• Do not connect this unit via your VCR. The video quality could be distorted by the copy protection system.

• Do not connect this unit's audio out jack to the phono in jack of your audio system.
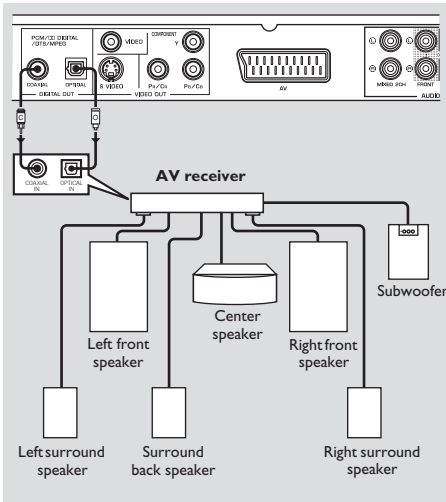
Digital Connections

This unit has COAXIAL and OPTICAL digital out jacks. Connect one or both of them to your AV receiver equipped with Dolby digital, DTS, or MPEG decoder using a commercially available cable.

You will need to set this unit's digital output to ALL (see page 26 "DIGITAL OUTPUT").

Note:

– 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. Make sure to select the appropriate audio format at menu screen included on the disc. Pressing AUDIO once or more may change not only audio languages but also audio formats, and the selected format appears for several seconds on the status window.

– SA-CD audio signals are not output from the DIGITAL OUT jacks.

– If you wish to enjoy Dolby Digital, DTS, and MPEG format, you must connect this player to an AV receiver that supports these formats.

cks

cable s
ct the L
correspo
compon
u can co
UBWO
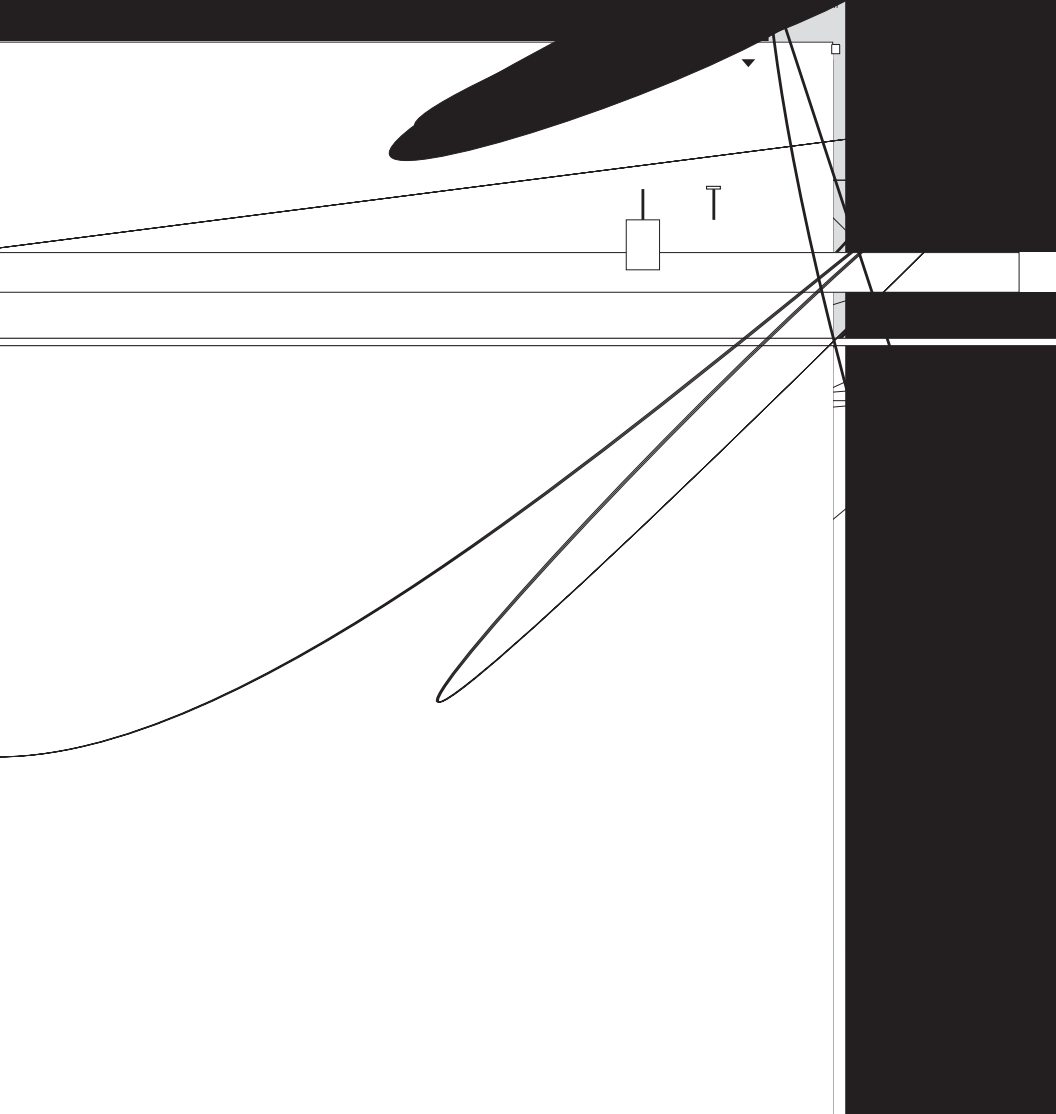
Video Connections

If your AV receiver has video output jacks, connect your receiver (and then to your TV) so that you can use one TV for several different video sources (LD, VCR, etc.) by simply switching the input source selector of your receiver.
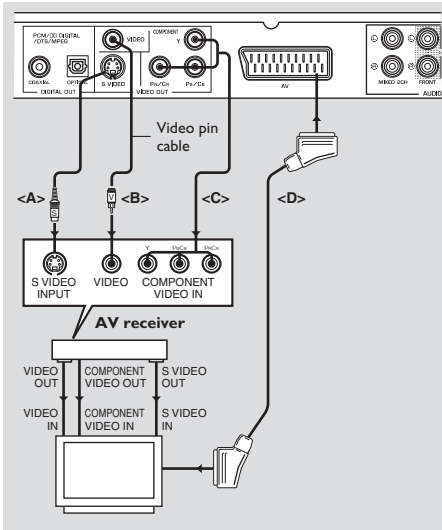The player has four types of video output jacks. Use one of them in accordance with the input jacks of the equipment to be connected.

S-Video terminal <A>

S (separate) video connection achieves a clearer picture than composite video connection by separating color and luminance when transmitting signals. Use commercially available S-video cable. Receiver (and TV) with S-video input is required.

Composite Video terminal <B>

Use the supplied video pin cable when connecting the player to an AV receiver.

Component Video terminal <C>

Component video connection achieves high fidelity in reproducing colors (better performance than S-video connection), separating video signal into luminance (Y, terminal color-coded as green), and color difference (Pb, blue/Pr, red). Use commercially available coaxial cables. Receiver (and TV) with component input is required. Observe the color of each jack when connecting. If your receiver does not have component output jacks, connecting the player's component output directly to your TV's component input can reproduce better video image.

Note:
– *You need to set this unit's component output to YUV (see page 29 "Switching the YUV/RGB").*
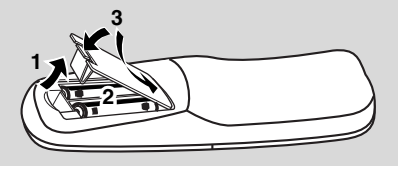
SCART Connection <D>

If your TV has only terminal for video input, and you want to connect it directly to this unit, you can use this unit's SCART output jack.

Note:
– *Ensure that the "TV" indication on SCART cable is connected to the TV set and "DVD" indication on SCART cable is connected to this unit.*
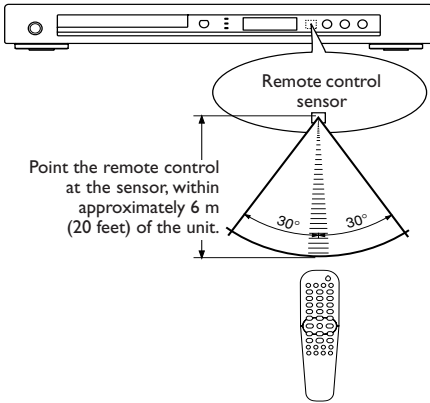
Getting Started

Step1: Inserting batteries into the Remote Control

1 Open the battery compartment.

2 Insert the supplied two batteries type R06 or AA, following the indications (+ –) inside the compartment.

3 Close the cover.

Using the remote control

Remote control sensor

Point the remote control at the sensor, within approximately 6 m (20 feet) of the unit.

30°   30°

Handling the remote control

• Do not spill water or other liquids on the remote control.
• Do not drop the remote control.
• Do not leave or store the remote control in the following types of conditions:
– high humidity such as near a bath
– high temperature such as near a heater or stove
– extremely low temperature
– dusty places

Step2: Turning on the power

1 Connect the AC power cord to the power outlet.

2 Turn on the TV and your AV receiver.

3 Select the appropriate input source at the AV receiver that was used to connect to this unit. Refer to the equipment owner's manual for details.

4 Turn this unit on.

5 Set the TV to the correct Video IN channel (eg. EXT1, EXT2, AV1, AV2, AUDIO/ VIDEO, etc. Refer to your TV owner's manual for details).
   → The front display lights up and the default screen appears on the TV.

Step3: Selecting the color system that corresponds to your TV

This DVD Player is compatible with both NTSC and PAL. Select the color system that matches your TV.

VIDEO SETUP PAGE

TV TYPE	PAL
TV DISPLAY	NTSC
PROGRESSIVE	MULTI
PICTURE SETTING	
COMPONENT	
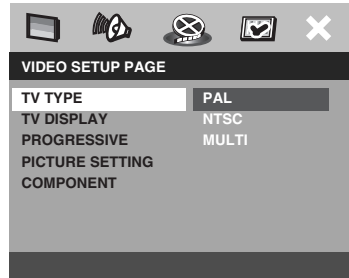
1 Press **SETUP**.

2 Press ▶ repeatedly 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 an 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.

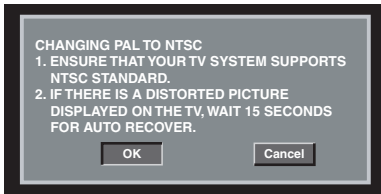### MULTI

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 **ENTER/OK**.

Notes:
– Before changing the current TV Standard setting, ensure that your TV supports the 'selected TV Type' system.
– If there is not a proper picture on your TV, wait for 15 seconds for auto recover.

CHANGING PAL TO NTSC
1. ENSURE THAT YOUR TV SYSTEM SUPPORTS NTSC STANDARD.
2. IF THERE IS A DISTORTED PICTURE DISPLAYED ON THE TV, WAIT 15 SECONDS FOR AUTO RECOVER.

| OK | Cancel |

Step4: Setting language preference

You can select your own preferred language settings.This DVD Player will automatically switch to the language for you whenever you load a disc. If the language selected is not available on the disc, the disc's default language will be used instead. The OSD language in the system menu will remain once selected.

Setting the OSD Language

GENERAL SETUP PAGE

DVD-AUDIO	ENGLISH
DISC LOCK	DANSK
DISPLAY DIM	DEUTSCH
PROGRAM	ESPAÑOL
OSD LANGUAGE	FRANÇAIS
SCREEN SAVER	ITALIANO
SLEEP	NEDERLANDS
DIVX(R) VOD CODE	NORSK
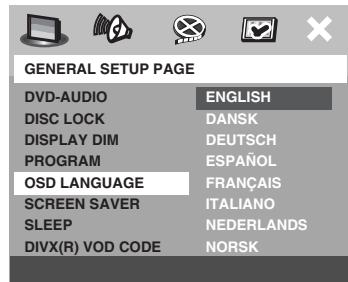
1 Press **SETUP**.

2 Press ◄ ► to select [GENERAL SETUP PAGE].

3 Press ▲▼ to highlight [OSD LANGUAGE], then press ►.

4 Press ▲▼ to select a language and press **ENTER/OK**.

TIPS: To return to the previous menu, press ◄.
To remove the menu, press **SETUP**.

11

Getting Started

Setting the Audio, Subtitle and Disc menu language

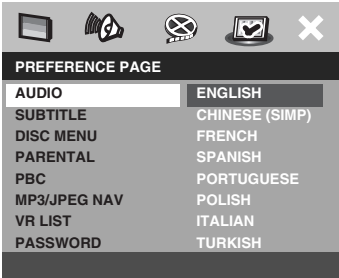| PREFERENCE PAGE	
AUDIO	**ENGLISH**
SUBTITLE	CHINESE (SIMP)
DISC MENU	FRENCH
PARENTAL	SPANISH
PBC	PORTUGUESE
MP3/JPEG NAV	POLISH
VR LIST	ITALIAN
PASSWORD	TURKISH

1 Press **STOP (■)** twice, then press **SETUP**.

2 Press ▶ repeatedly 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 **ENTER/OK**.

   If the language you want is not in the list, then select [OTHERS],
   then use the **numeric buttons** on the remote to enter the 4-digit language code (see page 33 "Language Codes") and press **ENTER/OK**.

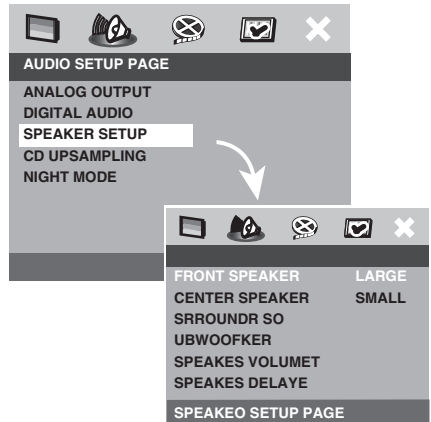5 Repeat steps **3**–**4** for other options settings.

Step 5: Setting Speaker Channels

You can adjust the delay times (for center and surround speakers only) and the volume level for individual speakers. These adjustments let you optimize the sound of your system to best suit your surroundings and setup.

IMPORTANT!
Speaker settings are only available for multi-channel audio output.

1 Press **SETUP**.

2 Press ▶ repeatedly to select [AUDIO SETUP PAGE].

3 Press ▲▼ to highlight [SPEAKER SETUP], then press ▶.

AUDIO SETUP PAGE
ANALOG OUTPUT
DIGITAL AUDIO
SPEAKER SETUP
CD UPSAMPLING
NIGHT MODE

FRONT SPEAKER	LARGE
CENTER SPEAKER	SMALL
SRROUNDR SO	
UBWOOFKER	
SPEAKES VOLUMET	
SPEAKES DELAYE	
SPEAKEO SETUP PAGE	

4 Enter a submenu by pressing ▶.

5 Press ▲▼ to highlight one of the options below, then press ▶.

TIPS: To return to the previous menu, press ◀.
To remove the menu, press **SETUP**.

12

[FRONT SPEAKER, CENTER SPEAKER, SURROUND SP]

OFF
(only for CENTER and SURROUND speakers)

Select when no speakers are connected.

LARGE

Select if the connected speakers can reproduce low frequency signals below 120 Hz.

SMALL

Select if the connected speakers cannot reproduce low frequency signals below 120 Hz.

[SUBWOOFER]

ON

Select when a subwoofer is connected.

OFF

Select when no subwoofer is connected.

[SPEAKERS VOLUME]

Volume level setting for individual speakers (–6 dB ~ +6 dB).

[SPEAKERS DELAY]

Delay time settings in relation to the listening position/distance for center and surround speakers (0 MS~15 MS).
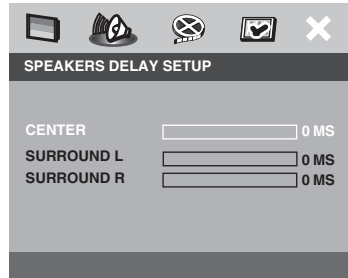
6 Press ◄ ► to adjust the setting that best suits your surround sound needs.

7 Press **ENTER/OK** to confirm.

Notes:
– Use a longer delay time setting when the surround speakers are closer to the listener than the front speakers.
– A test tone will be automatically generated to help you judge the sound level of each speaker.

TIPS: To return to the previous menu, press ◄.
To remove the menu, press **SETUP**.

13

Disc Operations

IMPORTANT!

– **If the inhibit icon ($\bigcirc$ or X) appears on the TV screen when a button is pressed, it means the function is not available on the current disc or at the current time.**

– **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.**

Basic Playback

1 Press **STANDBY/ON** on the front panel to turn on the DVD player.

2 Press **OPEN/CLOSE** ▲ on the front panel to open disc loading tray.

3 Place the chosen disc in the tray, with the label facing up.

4 Press **OPEN/CLOSE** ▲ again to close the tray.
   ➜ After recognizing this disc, the player begins to play back automatically.
   ➜ If you press **PLAY (►)** when the tray is open, this unit closes the tray and starts playback.

General Operation

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

Pausing playback

1 During playback, press **PAUSE (II)**.
   ➜ Playback will pause and sound will be muted.

2 Press **PAUSE (II)** again to select the next picture frame.

3 To resume normal playback, press **PLAY (►)**.

Selecting track/chapter

• Press |◄◄ / ►►| or use the **numeric buttons** to key in a track/chapter number.

➜ If repeat mode is active, pressing |◄◄ / ►►| will replay the same track/chapter.

Searching backward/forward

• Press and hold |◄◄ / ►►|, then press **PLAY (►)** to resume normal playback.

➜ While searching, pressing |◄◄ / ►►| again will decrease/increase the search speed.

Stopping playback

• Press **STOP (■)**.

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

Selecting various repeat/shuffle functions

Repeat

• While playing a disc, press **REPEAT** continuously to choose a 'Play Mode'.

DVD-V/DVD-A
➜ RPT ONE (repeat chapter)
➜ RPT TT/GRP (repeat title/group)
➜ RPT ALL (repeat disc)
➜ RPT OFF (repeat off)

VCD/SVCD/CD
➜ RPT ONE (repeat track)
➜ RPT ALL (repeat disc)
➜ RPT OFF (repeat off)

MP3/DivX/SA-CD
➜ RPT ONE (repeat track)
➜ RPT FLD (repeat folder)
➜ RPT OFF (repeat off)

Note:
– *For VCD, repeat playback is not possible if the PBC mode is switched on.*

Repeating a section within a chapter/track

1 While playing a disc, press **A-B** at your chosen starting point.

2 Press **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.

3 To exit the sequence, press **A-B**.

Shuffle

This function shuffles the playing order of chapters or tracks within a title/group/album (if the title/group/album has more than one chapter or track) in random order.

1 Press **SHUFFLE** during playback.
➜ **SHUFFLE** appears on the screen for about two seconds.

2 To return to normal playback, press **SHUFFLE** again.

Note:
– *For SA-CD, this function works in the currently selected area only.*

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 ◄ ►▲▼ or **numeric buttons** on the remote, then press **ENTER/OK** to start playback.

To access or remove the menu
• Press **MENU** on the remote.

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

15

Disc Operations

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 ◄ ►▲▼ 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 10 discs is possible, even if the disc was ejected or the power switched off.

1 Load one of the last 10 discs.
   → "LOADING" appears.

2 Press **PLAY (►)** while the "LOADING" message is displayed.
   → The disc will be played back from the last point.

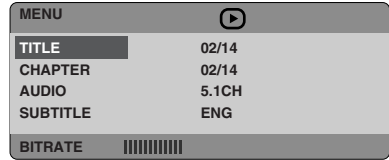   ### To cancel resume mode
   • In stop mode, press **STOP (■)** again.

On-Screen Display (OSD)

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.

1 During playback, press **ON SCREEN**.
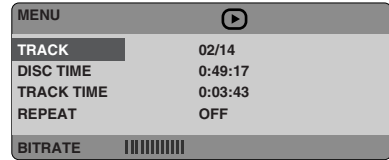   → A list of available disc information appears on the TV screen.

DVD

MENU	▶
TITLE	02/14
CHAPTER	02/14
AUDIO	5.1CH
SUBTITLE	ENG
BITRATE	‖‖‖‖‖‖‖‖

VCD/SVCD

MENU	▶
TRACK	02/14
DISC TIME	0:49:17
TRACK TIME	0:03:43
REPEAT	OFF
BITRATE	‖‖‖‖‖‖‖‖

2 Press ▲▼ to view the information and press **ENTER/OK** to access.

3 Use the **numeric buttons** to input the number/time or press ▲▼ to make the selection, then press **ENTER/OK** to confirm.
   → Playback will change to the chosen time or to the selected title/chapter/track.

Title/Chapter/Track selection (DVD/VCD)

1 Press ▲▼ to select [TITLE] or [CHAPTER] (DVD) or [TRACK] (VCD).

2 Press **ENTER/OK**.

3 Select a title, chapter or track number using the **numeric buttons**.

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

Time Search (DVD/VCD)

1 Press ▲▼ to select [TT TIME] or [CH TIME] (DVD) or [TRACK TIME] or [DISC TIME] (VCD).
→ [TT TIME] refers to the total time of the current title, and the [CH TIME] refers to the total time of the current chapter.

2 Press **ENTER/OK**.

3 Enter hours, minutes and seconds from left to right using the **numeric buttons**. (e.g. 0:34:27)

Audio/Subtitle/Angle (DVD discs)

You can change [AUDIO], [SUBTITLE] or [ANGLE] if it is available on the disc you are playing.

1 Press ▲▼ to select [AUDIO], [SUBTITLE] or [ANGLE].

2 Press **ENTER/OK**.

3 For Audio and Subtitle,
Press ▲▼ to highlight your selection and press **ENTER/OK**.

OR

For Angle,
Select an angle using the **numeric buttons**.

Repeat/Time Display (DVD/VCD)

1 Press ▲▼ to select [REPEAT] or [TIME DISP.].

2 Press **ENTER/OK**.

3 Press ▲▼ to highlight your selection and press **ENTER/OK**.

Time display (CD)

Each time you press **ON SCREEN**, the time display changes as follows;

TOTAL ELAPSED ⟶ TOTAL REMAIN

SINGLE REMAIN ⟵ SINGLE ELAPSED
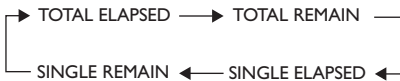
Special DVD Features

Playing a Title

1 Press **MENU**.
→ The disc title menu appears on the TV screen.

2 Use ◄ ►▲▼ or **numeric buttons** to select a play option.

3 Press **ENTER/OK** to confirm.

Camera Angle

• Press **ANGLE** repeatedly to select different desired angle.

Audio

Changing the Audio Language and/or format

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

Subtitles

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

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 VCD & SVCD Features

Playback Control (PBC)

For VCD with Playback Control (PBC) feature (version 2.0 only)
- Press **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 |◄◄ / ►►| or the **numeric buttons** to select a play option.
- During playback, pressing **TOP MENU/RETURN** 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 **MENU** on the remote control to switch to PBC off.

Preview Function

1 Press **SCAN**.
2 Press ▲▼ to highlight [TRACK DIGEST], [DISC INTERVAL] or [TRACK INTERVAL].
3 Press **ENTER/OK** to open one option.

> SELECT DIGEST TYPE:
> TRACK DIGEST
> DISC INTERVAL
> TRACK INTERVAL

TRACK DIGEST
This function will minimize the picture of every track in order to display every six of these tracks on the screen to help you know the content of every track on the disc.

DISC INTERVAL
This function is used to divide a disc into six parts by regular intervals and display them on one page to preview the whole disc.

TRACK INTERVAL
This function is used to divide a single track into six parts by regular intervals and display them on one page to help you preview the selected track.

(example for 6 thumbnail pictures display)

4 Use ◄ ►▲▼ to select a track or use **numeric buttons** to input the selected track number next to [SELECT].
5 Press |◄◄ / ►►| to open the previous or next page.
6 Press **ENTER/OK** to confirm.

To quit preview function
- Use ◄ ►▲▼ to highlight [EXIT] and press **ENTER/OK** to confirm.

To return to preview menu
- Use ◄ ►▲▼ to highlight [MENU] and press **ENTER/OK** to confirm.

For CD
- At stop mode, press **SCAN** on the remote control.
➜ Each track will be played for a few seconds.

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

DVD-Audio Features

DVD-Audio has developed for the sole purpose of creating high quality pure sound with Linear PCM and Packed PCM (lossless coding) in up to six audio-channels. Sampling frequencies of 192 kHz/ 24 bits are supported.

Moreover, many DVD-Audio discs offer slide show and page turn capabilities.

• When you play a down mix prohibited disc, D.MIX indicator turns off. Multi-channel tracks will play regardless of the analog output settings in Setup Menu. The MIXED 2CH jacks output the front L and R signals only.

Changing pages

Some DVD-Audio discs contain information pages for photo galleries, artist biographies, lyrics, etc.

Each time you press **PAGE** on the remote control, the display moves to the next page.

Playing bonus groups

Some discs contain bonus groups that require a four-digit password to gain access. In this case, consult the disc jacket and other packaging for information.

1 Press **STOP (■)** twice to stop playback, then press **ON SCREEN** .
→ The group and track list is displayed on the TV screen.

2 Press ▲▼ to select a bonus group, then press **ENTER/OK**.

3 Enter a four-digit password using the **numeric buttons**, then press **ENTER/OK**.

4 Press ▲▼ to select a track, then press **ENTER/OK**.

DVD-Video mode

Some DVD-Audio discs include DVD-Video contents that can be played on conventional DVD-Video players (see "Selecting DVD-Audio/Video mode" on page 23).

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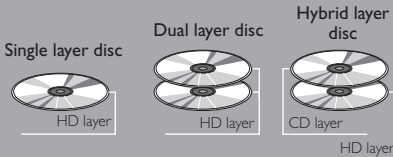
Disc Operations

SA-CD (Super Audio CD)

The SA-CD standard is based on Direct Stream Digital (DSD) technology. This new direct-stream digital format comprises a 1-bit system that has a digital sampling frequency 64 times higher than that of conventional audio CD.
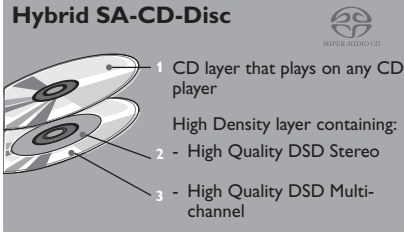There are three types of SA-CD discs: single layer, dual layer and hybrid. Each type contains a High Density (HD) layer that has two separate data areas: a High Quality Stereo area and a High Quality Multi-channel area. Recorded information can be contained in both areas.

– A single layer disc has one HD layer.
– A dual layer disc has two HD layers. Twice the information of a single layer disk can be stored due to the second HD layer.
– A hybrid disc has one HD layer and one standard CD layer, making it playable on standard CD players.

SA-CD Disc Types

Single layer disc
Dual layer disc
Hybrid layer disc

HD layer
HD layer
CD layer
HD layer

Hybrid SA-CD-Disc

1 CD layer that plays on any CD player

High Density layer containing:
2 - High Quality DSD Stereo
3 - High Quality DSD Multi-channel

Playing a disc

1 Insert the disc and close the tray. Playback starts automatically.
➜ The TV screen will display the current playing status and track list.
➜ Playback will stop automatically at the end of the disc.

2 To stop playback, press **STOP (■)**.

Note:
– *You cannot change the Analog output setting during SA-CD playback*

Changing the SA-CD playback area and layer

You can change the SA-CD playback area at any time during playback. Press **SOUND MODE** to switch between the multi-channel and stereo areas in the HD layer.

OR

1 Press ◄.

2 Highlight the folder using ▲▼.

3 Press **ENTER/OK**.

4 Highlight a track using ▲▼.

5 Press **ENTER/OK** to begin playback.

For hybrid SA-CD, the player will always play the HD layer first. Press **AUDIO** while playback is stopped to switch between the HD and CD layers.

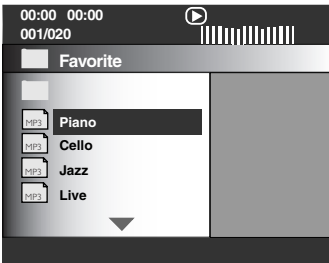• The SA-CD indicator lights only when the HD layer is selected.

Note:
– *SA-CD Text is not supported.*

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

Playing MP3/DivX/JPEG/Kodak Picture CD

General Operation

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

2 Playback will start automatically, if not press **PLAY (►)**.

```
00:00  00:00              ▶
001/020            ||||||||||||||
   ☐  Favorite

   ☐
   MP3  Piano
   MP3  Cello
   MP3  Jazz
   MP3  Live
                  ▼
```

During playback, you can;
• Press |◄◄ / ►►| to select another track/file in the current folder.
• Press **PAUSE (II)** to pause playback.

Notes:
– *It may not be possible to play certain MP3/JPEG/DivX/MPEG-4 discs due to the configuration and characteristics of the disc or condition of the recording.*
– *Make a folder with less than 500 files. It may not play properly if there are more than 500 files.*
– *It may not be possible to play discs with more than 500 files if you have selected "WITHOUT MENU" in [MP3/JPEG NAV] (see page 30 "MP3/JPEG Menu").*

Selecting a folder and track/file

1 Press ▲▼ to select the folder and press **ENTER/OK** to open the folder.

2 Press ▲▼ to select a track/file.

3 Press **ENTER/OK** to confirm.
➜ Playback will start from the selected file to the end of the folder.

Repeat

When the Picture CD/MP3 CD menu is shown on the screen;
• Press **REPEAT** continuously to access different 'Play Mode'.
➜ FOLDER: files will be played back once.
➜ REPEAT ONE: one file will be played repeatedly.
➜ REPEAT FOLDER: all files in one folder will be played repeatedly.

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 picture disc features

1 Load a Picture disc (Kodak Picture CD, JPEG).
→ For Kodak disc, the slide show will begin.
→ For JPEG disc, the picture menu appears on the TV screen.

2 Press **PLAY (►)** to start the slide-show playback.

Preview Function (JPEG)

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

1 Press **STOP (■)** during playback.
→ 12 thumbnail pictures will appear on the TV screen.

2 Press |◄◄ / ►►| to display the other pictures on the previous/next page.

3 Use ◄ ►▲▼ to highlight one of the picture and press **ENTER/OK** to start playback
OR
Move the cursor to highlight ▦▦▦ on the bottom of the page to start playback from the first picture on the current page.

4 Press **MENU** to return to Picture CD menu.

Zoom picture

1 During playback, press **ZOOM** repeatedly to display the picture with different scales.

2 Use ◄ ►▲▼ to view the zoomed picture.

Playback with multi-angles

• During playback, press ◄ ►▲▼ to rotate the picture on the TV screen.
  ◄: rotate the picture anti-clockwise
  ►: rotate the picture clockwise
  ▲: flip the picture vertically
  ▼: flip the picture horizontally

Scan Effect

• Press **ANGLE** repeatedly to choose different scan effect.
→ Various of scan effect appears on the top left hand corner on the TV screen.

Playing MP3 music and JPEG picture simultaneously

1 Load a disc that contains music and pictures.
→ The disc menu appears on the TV screen.

2 Select an MP3 track.

3 During MP3 music playback, select a picture from the TV screen and press **PLAY (►)**.
→ The picture files will be played back one after another until end of the folder.

4 To quit simultaneous playback, press **MENU** followed by **STOP (■)**.

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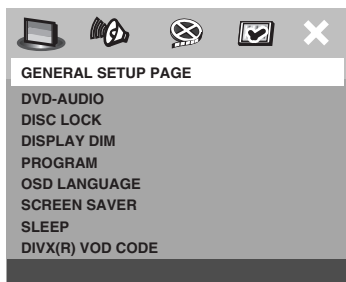

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

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

General Setup Menu

1 Press **SETUP**.
2 Press ◀ ▶ to select 'General Setup' icon.
3 Press **ENTER/OK** to confirm.

```
🖥  🔊  ⊗  ☑  ✖

GENERAL SETUP PAGE
DVD-AUDIO
DISC LOCK
DISPLAY DIM
PROGRAM
OSD LANGUAGE
SCREEN SAVER
SLEEP
DIVX(R) VOD CODE
```

Selecting DVD-Audio/Video mode

1 In 'GENERAL SETUP PAGE', press ▲▼ to highlight [DVD-AUDIO], then press ▶.

DVD-AUDIO MODE

Select this for normal playback.

DVD-VIDEO MODE

Select this to playback the contents of the DVD-Video.

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

Notes:
– The DVD-AUDIO indicator lights up when a DVD-Audio disc is playing.
– When you select DVD-VIDEO MODE, the DVD-AUDIO indicator goes out.

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 lock the playback of the current disc. Subsequent access to a locked disc requires six-digit password. The default password is '000 000' (see page 32 "Changing the Password").

UNLOCK

Select this to unlock the disc and allow future playback.

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

Dimming player's front panel display

You can select different levels of brightness for the front panel display.

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 **ENTER/OK** to confirm your selection.

TIPS: To return to the previous menu, press ◀.
To remove the menu, press **SETUP**.

23

Setup Menu

Programming disc tracks (not for Picture CD/MP3)

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 **ENTER/OK** to confirm.

To input your favorite tracks/chapter

3   Use the **numeric buttons** to enter a valid track/chapter number.

4   Use ◀ ▶▲▼ to move the cursor to the next position.
    → If the track number is more than ten, press ▶▶| to open the next page and proceed with programming or,
    → Use ◀ ▶▲▼ to highlight [NEXT] on the program menu, then press **ENTER/OK**.

5   Repeat steps **3**–**4** to input another track/chapter number.

If you want to remove a track

6   Use ◀ ▶▲▼ to move the cursor to the track you want to remove.

7   Press **ENTER/OK** to remove this track from the program menu.

To start program playback

8   Use ◀ ▶▲▼ to highlight [START] on the program menu, then press **ENTER/OK**.
    → Playback will start with the selected tracks under the programmed sequence.

To exit program playback

9   Use ◀ ▶▲▼ to highlight [EXIT] on the program menu, then press **ENTER/OK**.

OSD Language

This menu contains various language options for display language on the screen. For details, see page 11.

Screen Saver

This function is used to turn the screen saver on or off.

1   In 'GENERAL SETUP PAGE', press ▲▼ to highlight [SCREEN SAVER], then press ▶.

ON

Select this if you wish to turn off the TV screen when disc playback is stopped or paused for more than 15 minutes.

OFF

Select this to disable the screen saver function.

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

TIPS: To return to the previous menu, press ◀.
          To remove the menu, press **SETUP**.

Sleep Timer

This feature automatically sets the DVD player in standby mode after the amount of time you have set.

1 In 'GENERAL SETUP PAGE', press ▲▼ to highlight [SLEEP], then press ▶.

2 Press ▲▼ to select a setting.
   ➜ You can select from 15, 30, 45 and 60 minutes. Select [OFF] to cancel the sleep timer function.

3 Press **ENTER/OK** to confirm your selection.

DivX® VOD registration code

Yamaha provides you with a DivX® VOD (Video On Demand) registration code that allows you to rent and purchase videos using the DivX® VOD service.
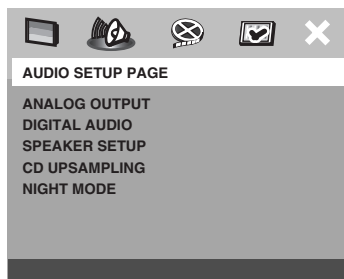For more information, visit at www.divx.com/vod.

1 In 'GENERAL SETUP PAGE', press ▲▼ to highlight [DIVX(R) VOD CODE], then press ▶.
   ➜ The registration code will appear.

2 Press **ENTER/OK** to exit.

3 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.

   Notes:
   – 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.

Audio Setup Menu

1 Press **SETUP**.

2 Press ◀ ▶ to select 'Audio Setup' icon.

3 Press **ENTER/OK** to confirm.


```
AUDIO SETUP PAGE

ANALOG OUTPUT
DIGITAL AUDIO
SPEAKER SETUP
CD UPSAMPLING
NIGHT MODE
```

Setting the analog output

Set Analog Output to match your DVD Player's playback capability.

1 In 'AUDIO SETUP PAGE', press ▲▼ to highlight [ANALOG OUTPUT], then press ▶.

   ### STEREO
   Select this to change the channel output to stereo, which only delivers sound from the two front speakers and subwoofer.

   ### VIRTUAL SURR
   Select this to reproduce the surround channels virtually.

   ### MULTI-CHANNEL
   Select this setting when using a multi-channel audio/(video) receiver with 6 channel inputs. In this mode, the player performs DTS decoding or Dolby Digital 5.1-channel decoding when applicable, and Dolby Pro Logic decoding on DVD-Video, Video-CD and Audio CD discs with 2-channel sound tracks. No Dolby Pro Logic decoding is done with Super Audio CD discs.

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

   Note:
   – You can change the analog output after the disc is loaded.

TIPS: To return to the previous menu, press ◀.
To remove the menu, press **SETUP**.

Setup Menu

Setting the Digital output

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

1 In 'AUDIO SETUP PAGE', press ▲▼ to highlight [DIGITAL AUDIO], then press ▶.

2 Press the ▲▼ to highlight an option.

3 Enter its submenu by pressing ▶.

4 Move the cursor by pressing the ▲▼ to highlight the selected item.

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.

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.

48KHz

Playback a disc recorded at the sampling y iavailapablen a di)he

Night Mode

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 favorite action movie without disturbing others at night.

1 In 'AUDIO SETUP PAGE', press ▲▼ to highlight [NIGHT MODE], then press ▶.

ON

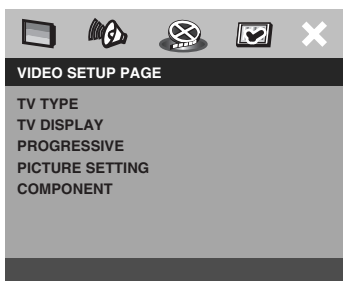Select this to level out the volume. This feature is only available for movies with Dolby Digital mode.

OFF

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

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

Video Setup Menu

1 Press **SETUP**.

2 Press ◀ ▶ to select 'Video Setup' icon.

3 Press **ENTER/OK** to confirm.

VIDEO SETUP PAGE

TV TYPE
TV DISPLAY
PROGRESSIVE
PICTURE SETTING
COMPONENT

TV Type

This menu contains the options for selecting the color system that matches the connected TV. For details, see page 10.

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 widescreen TV.

3 Select an item and press **ENTER/OK**.

TIPS: To return to the previous menu, press ◀.
To remove the menu, press **SETUP**.

27

Setup Menu

Progressive

This feature is only applicable if you have connected this DVD Player to a Progressive Scan TV through the Y Pb Pr jacks (see page 9).

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 **ENTER/OK** to confirm your selection.

Notes on activating Progressive:
– Ensure that your TV has progressive scan.
– Connect with YPbPr video cable.

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 VIDEO MONITOR COMPATIBILITY WITH THIS MODEL 525P AND 625P DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

This unit is compatible with the complete line of YAMAHA products, including the projectors DPX-1100, LPX-510 and the plasma monitor PDM-4210/4210E.

Picture Setting

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

1 In 'VIDEO SETUP PAGE', press ▲▼ to highlight [PICTURE SETTING], then press ▶.

STANDARD
Select this for standard picture setting.

BRIGHT
Select this will make the TV picture brighter.

SOFT
Select this will make the TV picture softer.

PERSONAL
Select this to personalize your picture color by adjusting the brightness, contrast, tint and color (saturation).

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

3 If you select [PERSONAL], then proceed to steps **4**–**7**.
➜ The 'PERSONAL PICTURE SETUP' menu appears.

PERSONAL PICTURE SETUP		
BRIGHTNESS		0
CONTRAST		0
TINT		0
COLOR		0
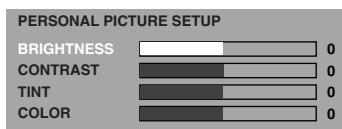
4 Press ▲▼ to highlight one of the following options.

BRIGHTNESS

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

CONTRAST

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

TINT

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

COLOR

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

5 Press ◀ ▶ to adjust the setting that best suit your personal preference.

6 Repeat steps **4**–**5** for adjusting other color features.

7 Press **ENTER/OK** to confirm.

Switching the YUV/RGB

This setting allows you to toggle output of the video signal bet (on SCART) and Y Pb Pr (YU

1 In 'VIDEO SETUP PAGE', highlight [COMPONENT

YUV

Select this for Y Pb Pr connection.

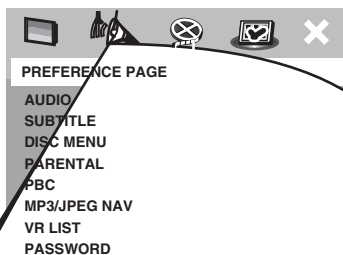### RGB

Select this for SCART connection.

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

Preference Setup Menu

1 Press **STOP (■)** twice to stop playback (if any), then press **SETUP**.

2 Press ◀ ▶ to select the 'Preference Setup' icon.

3 Press **ENTER/OK** to confirm.

PREFERENCE PAGE

AUDIO
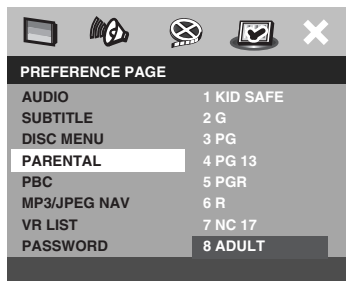SUBTITLE
DISC MENU
PARENTAL
PBC
MP3/JPEG NAV
VR LIST
PASSWORD

menu
/D. For

by Parental

nave a parental level
e complete disc or to certain
the disc. This feature lets you set
yback 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.

TIPS: To return to the previous menu, press ◀.
To remove the menu, press **SETUP**.

Setup Menu

1 In 'PREFERENCE PAGE', press ▲▼ to highlight [PARENTAL], then press ▶.

PREFERENCE PAGE	
AUDIO	1 KID SAFE
SUBTITLE	2 G
DISC MENU	3 PG
PARENTAL	4 PG 13
PBC	5 PGR
MP3/JPEG NAV	6 R
VR LIST	7 NC 17
PASSWORD	8 ADULT

2 Press ▲▼ to highlight a rating level for the disc inserted and press **ENTER/OK**.
➜ To disable Parental controls and have all Discs play, select [8 ADULT].

3 Use the **numeric buttons** to enter the six-digit password (see page 32 "Changing the Password").
➜ DVDs that are rated above the level you selected will not play unless you enter your six-digit password.

Notes:
– VCD, SVCD, CD and SA-CD have no level indication, so parental control function has no effect on these types 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.

PBC (Playback Control)

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 18.

MP3/JPEG Menu

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/Picture CD.

WITH MENU
Select this to display only the folder menu of the MP3/Picture CD.

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

Playback of VR Format

There are two ways to play back a disc in VR (Video Recording) format: ORIGINAL and PLAY LIST. This feature is not available with non-VR format discs.

1 In 'PREFERENCE PAGE', press ▲▼ to highlight [VR LIST].

2 Press ▶. The following settings will appear:
ORIGINAL LIST
Select this to play the originally recorded titles on the disc.

PLAY LIST
Select this to play the edited version of the disc. This feature is only available when a play list has been created.

3 Press ▲▼ to highlight a setting.

4 Press **ENTER/OK** to confirm your selection.

TIPS: To return to the previous menu, press ◀.
To remove the menu, press **SETUP**.

30

To play back a disc in VR format

5 Press **SETUP** to close the setup menu.

6 Press **PLAY.** The setting you selected will begin to play.

Previewing VR format

7 During playback, press **SCAN**.

8 Press ▲▼ to highlight either [TITLE DIGEST] or [TITLE INTERVAL].

> SELECT DIGEST TYPE:
> TITLE DIGEST
> TITLE INTERVAL

9 Press **ENTER/OK** to select the function.

TITLE DIGEST

This function will display thumbnail pictures of titles on the screen. Up to six thumbnail pictures per page will be displayed.

➜ In ORIGINAL LIST mode, the originally recorded titles on the disc will be displayed.

➜ In PLAY LIST mode, every title in the play list will be displayed.

TITLE INTERVAL

This function will divide and display the contents of each title being played back in regular intervals, making it easy to preview the recording. Up to six thumbnail pictures per page will be displayed.

➜ If the title being played back is short, the TITLE DIGEST function will be performed instead.

(example for 6 thumbnail pictures display)

10 Use ◄ ►▲▼ to select a title, or use the **numeric buttons** to input the title number next to [SELECT].

➜ Press |◄◄ / ►►| to access the previous/next page.

11 Press **ENTER/OK** to confirm the selection.

To quit preview function

• Use ◄ ►▲▼ to highlight [EXIT] and press **ENTER/OK** to confirm.

To return to preview menu

• Use ◄ ►▲▼ to highlight [MENU] and press **ENTER/OK** to confirm.

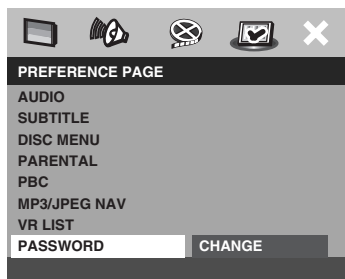
TIPS: To return to the previous menu, press ◄.
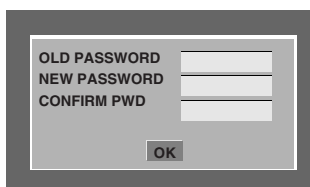To remove the menu, press **SETUP**.

Setup Menu

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 000 000.

1 In 'PREFERENCE PAGE', press ▲▼ to highlight [PASSWORD], then press ▶ to select [CHANGE].

```
┌─────────────────────────────────────┐
│  ▭    ◉◔    ⊗    ☑    ✕           │
├─────────────────────────────────────┤
│ PREFERENCE PAGE                     │
│ AUDIO                               │
│ SUBTITLE                            │
│ DISC MENU                           │
│ PARENTAL                            │
│ PBC                                 │
│ MP3/JPEG NAV                        │
│ VR LIST                             │
│ PASSWORD          CHANGE            │
│                                     │
└─────────────────────────────────────┘
```

2 Press **ENTER/OK** to enter the 'Password Change Page'.

```
┌─────────────────────────────────┐
│                                 │
│  ┌───────────────────────────┐  │
│  │ OLD PASSWORD   [        ] │  │
│  │ NEW PASSWORD   [        ] │  │
│  │ CONFIRM PWD    [        ] │  │
│  │                           │  │
│  │          OK               │  │
│  └───────────────────────────┘  │
└─────────────────────────────────┘
```

3 Use the **numeric buttons** to enter your old six-digit password.
   ➜ When doing this for the first time, key in '000 000'.
   ➜ If you forget your old six-digit password, key in '000 000'.

4 Enter the new six-digit password.

5 Enter the new six-digit password a second time to confirm.

6 Press **ENTER/OK** to confirm.
   ➜ The new six-digit password will now take effect.

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 **ENTER/OK** to confirm.
   ➜ All settings will now reset to factory defaults.

TIPS: To return to the previous menu, press ◀.
To remove the menu, press **SETUP**.

These pages can be used to select other languages. This does not affect the options in "AUDIO", "SUBTITLE" or "DISC MENU".

Abkhazian	6566	German	6869
Afar	6565	Gikuyu; Kikuyu	7573
Afrikaans	6570	Greek,	6976
Albanian	8381	Guarani	7178
Amharic	6577	Gujarati	7185
Arabic	6582	Hausa	7265
Armenian	7289	Hebrew	7269
Assamese	6583	Herero	7290
Avestan	6569	Hindi	7273
Aymara	6589	Hiri Motu	7279
Azerbaijani	6590	Hungarian	7285
Bashkir	6665	Icelandic	7383
Basque	6985	Ido	7379
Belarusian	6669	Indonesian	7368
Bengali	6678	Interlingua (International)	7365
Bihari	6672	Interlingue	7369
Bislama	6673	Inuktitut	7385
Bokmål, Norwegian	7866	Inupiaq	7375
Bosnian	6683	Irish	7165
Breton	6682	Italian	7384
Bulgarian	6671	Japanese	7465
Burmese	7789	Javanese	7486
Castilian, Spanish	6983	Kalaallisut	7576
Catalan	6765	Kannada	7578
Chamorro	6772	Kashmiri	7583
Chechen	6769	Kazakh	7575
Chewa; Chichewa; Nyanja	7889	Khmer	7577
Chichewa; Chewa; Nyanja	7889	Kikuyu; Gikuyu	7573
Chinese	9072	Kinyarwanda	8287
Chuang; Zhuang	9065	Kirghiz	7589
Church Slavic; Slavonic;	6785	Komi	7586
Church Slavonic; Church	6785	Korean	7579
Chuvash	6786	Kuanyama; Kwanyama	7574
Cornish	7587	Kurdish	7585
Corsican	6779	Kwanyama; Kuanyama	7574
Croatian	7282	Lao	7679
Czech	6783	Latin	7665
Danish	6865	Latvian	7686
Dutch	7876	Letzeburgesch;	7666
Dzongkha	6890	Limburgan; Limburger;	7673
English	6978	Limburger; Limburgan;	7673
Esperanto	6979	Limburgish; Limburger;	7673
Estonian	6984	Lingala	7678
Faroese	7079	Lithuanian	7684
Fijian	7074	Luxembourgish;	7666
Finnish	7073	Macedonian	7775
French	7082	Malagasy	7771
Frisian	7089	Malay	7783
Gaelic; Scottish Gaelic	7168	Malayalam	7776
Gallegan	7176	Maltese	7784
Georgian	7565	Manx	7186

Language Codes

These pages can be used to select other languages. This does not affect the options in "AUDIO", "SUBTITLE" or "DISC MENU".

Maori	7773	Sotho, Southern	8384
Marathi	7782	South Ndebele	7882
Marshallese	7772	Spanish; Castilian	6983
Moldavian	7779	Sundanese	8385
Mongolian	7778	Swahili	8387
Nauru	7865	Swati	8383
Navaho, Navajo	7886	Swedish	8386
Navajo; Navaho	7886	Tagalog	8476
Ndebele, North	7868	Tahitian	8489
Ndebele, South	7882	Tajik	8471
Ndonga	7871	Tamil	8465
Nepali	7869	Tatar	8484
Northern Sami	8369	Telugu	8469
North Ndebele	7868	Thai	8472
Norwegian	7879	Tibetan	6679
Norwegian Bokmål; Bokmål,	7866	Tigrinya	8473
Norwegian Nynorsk;	7878	Tonga (Tonga Islands)	8479
Nyanja; Chichewa; Chewa	7889	Tsonga	8483
Nynorsk, Norwegian;	7878	Tswana	8478
Occitan (post 1500); Proven	7967	Turkish	8482
Old Bulgarian; Old Slavonic;	6785	Turkmen	8475
Old Church Slavonic; Old	6785	Twi	8487
Old Slavonic; Church	6785	Uighur	8571
Oriya	7982	Ukrainian	8575
Oromo	7977	Urdu	8582
Ossetian; Ossetic	7983	Uzbek	8590
Ossetic; Ossetian	7983	Vietnamese	8673
Pali	8073	Volapük	8679
Panjabi	8065	Walloon	8765
Persian	7065	Welsh	6789
Polish	8076	Wolof	8779
Portuguese	8084	Xhosa	8872
Provençal; Occitan (post)	7967	Yiddish	8973
Pushto	8083	Yoruba	8979
Quechua	8185	Zhuang; Chuang	9065
Raeto-Romance	8277	Zulu	9085
Romanian	8279		
Rundi	8278		
Russian	8285		
Samoan	8377		
Sango	8371		
Sanskrit	8365		
Sardinian	8367		
Scottish Gaelic; Gaelic	7168		
Serbian	8382		
Shona	8378		
Sindhi	8368		
Sinhalese	8373		
Slovak	8375		
Slovenian	8376		
Somali	8379		

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, set this unit to the standby mode, disconnect the power cord, and contact the nearest authorized YAMAHA dealer or service center.

Problem	Solution
No power	– 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	– Refer to your TV's manual for correct Video In selection. Change the TV input until you see the DVD screen. – Check if the TV is switched on. – If you did not use Progressive Scan connections (using the Y PB PR jacks on the DVD Player) and you do not have a picture at the TV, please follow the steps below to turn off Progressive Scan; 1. Press ▲ (OPEN/CLOSE) to open the disc tray. 2. Press ◄. 3. Press ANGLE to deactivate the Progressive. ➜ The DVD Player will reset itself to Component/Interlaced video.
Distorted picture	– 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	– 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	– Adjust the volume. – Check that the speakers are connected correctly.
No audio at digital output	– Check the digital connections. – Check if your receiver can decode MPEG-2 or DTS and if not, please make sure the digital output is set to PCM ONLY. – Check if the audio format of the selected audio language matches your receiver capabilities.
No sound and picture	– Check that the RGB/SCART cable is connected to the correct device (See ''Video Connections'').

Troubleshooting

Problem	Solution
Disc can't be played	– The CD-R/RW, DVD+R/RW, DVD-R/RW and DVD-RW (VR format) must be finalized. – Ensure the disc label is facing up. – Check if the disc is defective by trying another disc. – If you have recorded a Picture CD or MP3 CD yourself, ensure that your disc contains at least 10 pictures or 5 MP3 tracks. – Region code incorrect.
Picture freezes momentarily during playback	– Check the disc for fingerprints/scratches and clean with a soft cloth wiping from center to edge.
The player does not respond to the Remote Control	– 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	– 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	– Operations may not be permitted by the disc. Refer to the instructions of the disc jacket.
DVD Player cannot read CDs/DVDs	– Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD Player for repair.
Menu items cannot be selected	– Press STOP twice before selecting System Menu. – Depending on the disc availability, some menu items cannot be selected.
Unable to play DivX movies	– Check that the DivX file is encoded in 'Home Theater' mode with DivX 5.x encoder.
Unable to select Progressive Scan on/off	– Check that the output of the video signal is switch to 'YUV'.
No sound during DivX movies playback	– The audio code may not be supported by the DVD player.

Glossary

English

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 widescreens 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 3.11/4x/5x: The DivX code is a patent pending, MPEG-4 based video compression technology, developed by DivXNetworks, Inc., that can shrink digital video to sizes small enough to be transported over the internet, while maintaining high visual quality.

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

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.

Play list: A list of selected titles to be played back in a specific order. This option is only available with VR format and must be created beforehand.

Glossary

Progressive Scan: I.t 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).

S-Video: 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.

Super Audio CD (SA-CD): This audio format is based upon the current CD standards but includes a greater amount of information that provides higher quality sound. There are three types of discs: single layer, double layer and hybrid discs. The hybrid disc contains both standard audio CD and Super Audio CD information.

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.

VR (Video Recording) format: A format which enables you to create a DVD disc that can be extensively re-edited.

Specifications

PLAYBACK SYSTEM

DVD Video
DVD-Audio
SA-CD multi-channel and SA-CD stereo
Video CD & SVCD
CD
PICTURE CD
CD-R, CD-RW
DVD+R, DVD+RW
DVD-R, DVD-RW

VIDEO PERFORMANCE

Video (CVBS) Output	1 Vpp into 75 ohm
S-Video output	Y: 1 Vpp into 75 ohm
	C: 0.3 Vpp into 75 ohm
RGB (SCART) output	0.7 Vpp into 75 ohm
Component video output	Y: 1 Vpp into 75 ohm
	Pb/Cb Pr/Cr: 0.7 Vpp into
	75 ohm

AUDIO FORMAT

Digital	Mpeg/Dolby Digital/Compressed Digital DTS	
	PCM	16, 20, 24 bits
		fs, 44.1, 48, 96 kHz
	MP3(ISO 9660)	24, 32, 56, 64, 96, 128, 256 kbps
		fs, 16, 22.05, 24, 32, 44.1, 48 kHz
	WMA	32 kbps–192 kbps, mono, stereo

Full decoding of Dolby Digital, DTS and MPEG multi-channel sound/analog stereo sound
Dolby Surround Compatible Downmix from Dolby Digital multi-channel sound
3D sound for virtual 5.1 channel sound on two speakers
Dolby Pro Logic II 5.1 ch decoding from the stereo source

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

AUDIO PERFORMANCE

DA Converter	24 bit	
Signal-Noise (1 kHz)	110 dB	
Dynamic range (1 kHz)	100 dB	
DVD	fs 96 kHz	2 Hz- 44 kHz
	fs 48 kHz	2 Hz- 22 kHz
SVCD	fs 48 kHz	2 Hz- 22 kHz
	fs 44.1 kHz	2 Hz- 20 kHz
CD/VCD	fs 44.1 kHz	2 Hz- 20 kHz
Distortion and Noise (1 kHz)	0.003 %	

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

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

CONNECTIONS

SCART	Euroconnector
Y Output	Cinch (green)
Pb/Cb Output	Cinch (blue)
Pr/Cr Output	Cinch (red)
S-Video Output	Mini DIN, 4 pins
Video Output	Cinch
Audio Output (L+R)	Cinch
Digital Output	1 coaxial, 1 optical
	IEC60958 for CDDA/LPCM
	IEC61937 for MPEG1, MPEG 2,
	Dolby Digital and DTS

6 channel analog output

Audio Front L/R	Cinch (white/red)
Audio Surround L/R	Cinch (white/red)
Audio Center	Cinch (blue)
Audio Subwoofer	Cinch (black)

CABINET

Dimensions (w x d x h)	435 x 310 x 51 mm
Weight	Approx. 2.6 Kg

POWER SUPPLY

Power inlet	230 V, 50 Hz
Power usage	Approx. 14 W
Power usage standby	< 1 W

Specifications subject to change without prior notice.

39

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 e) or coloured green (or green and yellow).

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

Copyright in the U.K.

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

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

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

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

N
Observer: Nettbryteren STANDBY/ON er sekundert innkoplet. Den innebygdenetdelen er derfor ikke frakoplet nettet så lenge apparatet er tilsluttet nettkontakten.

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! Strömbrytaren STANDBY/ON är sekundärt kopplad och inte bryter inte strömmen från nätet. Den inbyggda nätdelen 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.

Toiminnanvalitsin STANDBY/ON on kytketty toisiopuolelle, eikä se kytke laitetta irti sähköverkosta. Sisäänrakennettu verkko-osa on kytkettynä sähköverkkoon aina silloin, kun pistoke on pistorasiassa.

VARO!
AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄ TEESEEN.

VARNING!
OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
PRODUIT LASER DE CLASSE 1

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN
DO NOT STARE INTO BEAM

DANGER: INVISIBLE LASER RADIATION WHEN OPEN
AVOID DIRECT EXPOSURE TO THE BEAM