





DVD CHANGER  
LECTEUR DE DVD CHANGEUR

# DV-C6860

OWNER'S MANUAL  
MODE D'EMPLOI



# IMPORTANT SAFETY INSTRUCTIONS

|  |   |   |
|--|---|---|
|    | <b>CAUTION</b><br>RISK OF ELECTRIC SHOCK<br>DO NOT OPEN |  |
| <b>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVING TO QUALIFIED SERVICE PERSONNEL.</b> |   |   |

## Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

- 1 Read Instructions — All the safety and operating instructions should be read before the product is operated.
- 2 Retain Instructions — The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings — All warnings on the product and in the operating instructions should be adhered to.
- 4 Follow Instructions — All operating and use instructions should be followed.
- 5 Cleaning — Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6 Attachments — Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7 Water and Moisture — Do not use this product near water — for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8 Accessories — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product.  
Any mounting of the product should follow the manufacturer’s instructions, and should use a mounting accessory recommended by the manufacturer.
- 9 A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- 10 Ventilation — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.  
This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer’s instructions have been adhered to.
- 11 Power Sources — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.



- 12 Grounding or Polarization — This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 13 Power-Cord Protection — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 14 Lightning — For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 15 Power Lines — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 16 Overloading — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 17 Object and Liquid Entry — Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 18 Servicing — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19 Damage Requiring Service — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a) When the power-supply cord or plug is damaged,
  - b) If liquid has been spilled, or objects have fallen into the product,
  - c) If the product has been exposed to rain or water,
  - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
  - e) If the product has been dropped or damaged in any way, and
  - f) When the product exhibits a distinct change in performance - this indicates a need for service.
- 20 Replacement Parts — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 21 Safety Check — Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 22 Wall or Ceiling Mounting — The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 23 Heat — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

## FCC INFORMATION (for US customers)

### 1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

### 2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

### 3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices.

Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the product "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., 6660 Orangethorpe Ave. Buena Park, CA90622.

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

## We Want You Listening For A Lifetime

YAMAHA and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion - and, most importantly, without affecting your sensitive hearing.

Since hearing damage from loud sounds is often undetectable until it is too late, YAMAHA and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.



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

**ADVARSEL** SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING  
UNDGÅ UDSÆTTELSE FOR STRÅLING

**ADVARSEL** SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL  
ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN

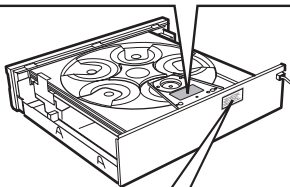
**VARNING** SYNLIG OCH OSYNLIG LASERSTRÅLNING NÅR  
DENNA DEL ÄR ÖPPNAD BETRÄKTA EJ STRÅLEN

**VARO!** AVATTAESSA OLET ALTHINA NÄKYVÄLLE JA  
NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN

**VORSICHT** SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG  
WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN

**DANGER** VISIBLE AND INVISIBLE LASER RADIATION WHEN  
OPEN AVOID DIRECT EXPOSURE TO BEAM

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



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

### 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.

### SECURITE LASER

L'appareil utilise un laser. En raison des risques de blessure des yeux, le retrait du couvercle ou les réparations de l'appareil devront être confiés exclusivement à un technicien d'entretien qualifié.

### DANGER

Risque d'exposition au laser en cas d'ouverture. Eviter toute exposition au faisceau. Lorsque cet appareil est branché à la prise de courant, ne pas approcher les yeux de l'ouverture du plateau changeur et des autres ouvertures pour regarder à l'intérieur.

# CAUTION: READ THIS BEFORE OPERATING THIS UNIT.

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2 Install this unit 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 where foreign objects may fall onto this unit and/or 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 Only voltage specified on this unit must be used. 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 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.
- 14 When not planning to use this unit for long periods of time (i.e., vacation), disconnect the AC power plug from the wall outlet.

- 15 Be sure to read the “Troubleshooting” section on common operating errors before concluding that this unit is faulty.
- 16 Before moving this unit, press STANDBY/ON to set the unit in standby mode, and then disconnect the AC power plug from the wall outlet.
- 17 Install this unit near the wall outlet and where the AC power plug can be reached easily.

## WARNING

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

## FOR CANADIAN CUSTOMERS

To prevent electric shock, match wide blade of plug to wide slot and fully insert.

This Class B digital apparatus complies with Canadian ICES-003.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

## For Customer Use:

Read carefully the information located at the rear panel of this unit and enter below the Serial No. Retain this information for future reference.

Model No.

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

## Be sure to place this unit on a level surface.

If you do not do so, PLAYXCHANGE operation of this unit will not function correctly, and may damage the disc(s) and/or this unit itself.

## CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

## CAUTION

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

## LASER

|                 |                                 |
|-----------------|---------------------------------|
| Type            | Semiconductor laser GaAlAs      |
| Wave length     | 650 nm (DVD)<br>780 nm (VCD/CD) |
| Output Power    | 7 mW (DVD)<br>10 mW (VCD/CD)    |
| Beam divergence | 60 degree                       |

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# Introduction

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

## Region codes

DVD discs must be labeled ALL regions or Region 1 (U.S.A. model) in order to play on this unit. You cannot play discs labeled for other regions.



## Supplied accessories

- Remote control
- Two batteries (AA, R06, UM-3) for the remote control
- Audio/Video cable
- Owner's Manual

## Notes on discs

- This unit is designed for use with the following discs: DVD-Video, Video CD, Super Video CD, Audio CD, CD-R, CD-RW, DVD+RW, DVD+R, DVD-R and DVD-RW.

This unit can play:

- MP3 and picture (Kodak, JPEG) files recorded on CD-R(W).
  - JPEG/ISO 9660 format
  - Maximum 30 characters per display
- CD-R and CD-RW cannot be played unless finalized.
- Some discs cannot be played depending on the recording conditions, such as the PC environment and application software. The characteristics and conditions of some discs (materials, scratches, curvature, etc.) may result in playback failure.
- Be sure to use only CD-R and CD-RW discs made by reliable manufacturers.
- Do not use any non-standard shaped discs (heart-shaped, etc.).

- Do not use discs with tape, seals, or paste on their surface. Doing so may damage this unit.
- Do not use discs affixed with labels printed 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 benzene, thinner, commercially available cleaners, or antistatic spray intended for analog records.

## Patent information



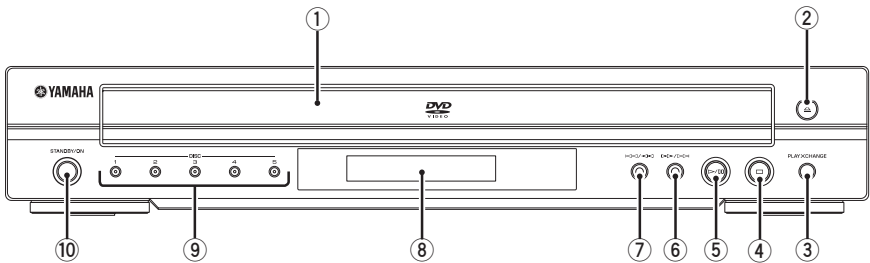
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"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

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

## Front panel

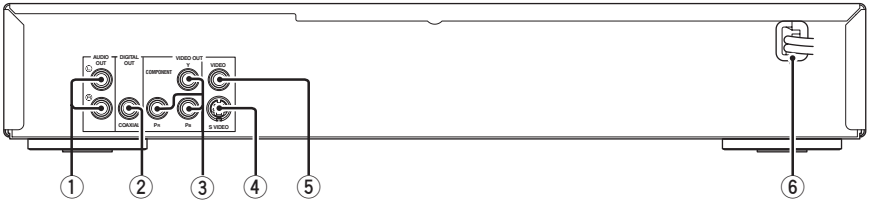


- ① **Disc tray**  
Loads up to 5 discs in the disc tray.
- ② **▲ (OPEN/CLOSE)**  
Opens or closes the disc tray.
- ③ **PLAYXCHANGE**  
Reloads or unloads discs without interrupting current disc playback.
- ④ **■ (STOP)**  
Stops playback.
- ⑤ **▶/|| (PLAY/PAUSE)**  
Starts or pauses playback.
- ⑥ **▶▶▶▶▶**  
Searches forward.\*  
Moves to the next chapter or track.
- ⑦ **◀◀◀◀◀**  
Searches backward.\*  
Moves to the previous chapter or track.
- ⑧ **Front panel display**  
Shows the current status of this unit.
- ⑨ **DISC (1, 2, 3, 4, 5) / LEDs**  
Selects and directly plays back the preferred disc.  
Each LED lights up in orange when this unit recognizes that the corresponding disc has been loaded.
- ⑩ **STANDBY/ON**  
Turns on this unit or sets it to the standby mode.  
While this unit is in the standby mode, it consumes a small amount of power.

\* Press the button for about two seconds.

# Functional Overview

## Rear panel



① **AUDIO OUT (L/R) jacks**

Connect to the audio input jacks of your AV receiver or stereo system.

② **DIGITAL OUT - COAXIAL jack**

Connect to the coaxial input jack of your AV receiver.

③ **VIDEO OUT - COMPONENT (Y/Pb/Pr) jacks**

Connect to the component input jacks of your AV receiver.

④ **VIDEO OUT - S VIDEO jack**

Connect to the S-video input jack of your AV receiver.

⑤ **VIDEO OUT - VIDEO jack**

Connect to the composite video input jack of your AV receiver.

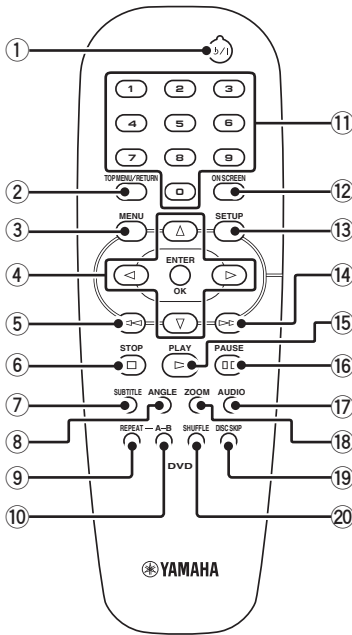
⑥ **AC power cord**

Connect to a standard AC outlet.

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



## Remote control



- ① **⏻/⏪**  
Turns on this unit or sets it to the standby mode.
- ② **TOP MENU/RETURN**  
Displays the top-level disc menu (DVD). Moves back to the previous menu (DVD\*/VCD).
- ③ **MENU**  
Accesses the menu of a disc (DVD). Switches PBC on or off (VCD).
- ④ **◀/▶/▲/▼**  
Selects an item in the currently displayed menu. Search or slow playback.  
**ENTER/OK**  
Confirms the menu selection.
- ⑤ **◀◀**  
Searches backward.\*  
Moves to the previous chapter or track.

- ⑥ **STOP (■)**  
Stops playback.
- ⑦ **SUBTITLE**  
Selects the subtitle language.
- ⑧ **ANGLE**  
Selects the DVD camera angle.
- ⑨ **REPEAT**  
Repeats the chapter, track, title, disc or all discs.
- ⑩ **A-B**  
Repeats a specific segment.
- ⑪ **Numeric buttons (0-9)**  
Selects numbered items in the currently displayed menu.
- ⑫ **ON SCREEN**  
Accesses or exits from the on-screen display (OSD) menu of this unit.
- ⑬ **SETUP**  
Accesses or exits from the setup menu of this unit.
- ⑭ **▶▶**  
Searches forward.\*  
Moves to the next chapter or track.
- ⑮ **PLAY (▶)**  
Starts playback.
- ⑯ **PAUSE (||)**  
Pauses playback temporarily. Frame-by-frame playback.
- ⑰ **AUDIO**  
Selects the audio language or format.
- ⑱ **ZOOM**  
Enlarges the video image.
- ⑲ **DISC SKIP**  
Selects another disc.
- ⑳ **SHUFFLE**  
Plays tracks in a random order.

\* Press and hold the button for about two seconds.

# Preparation

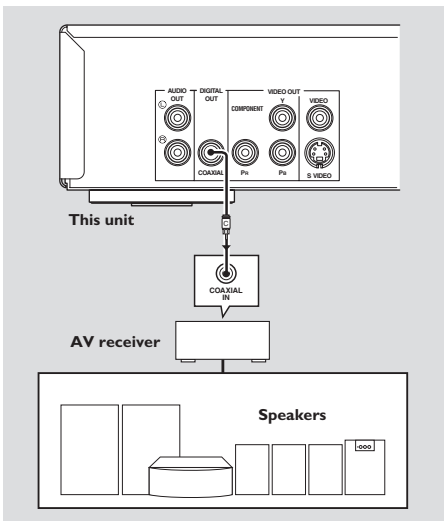
## General notes on connections

Never make or change connections with the power of this unit turned on.

- Depending on the component you wish to connect, there are various ways to make connections. Possible connections are described below.
- Refer to the manuals of your other components 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 the audio out jack of this unit to the phono in jack of your audio system.

## Digital connection

This unit has a coaxial digital out jack. Connect DIGITAL OUT - COAXIAL jack of this unit to your AV receiver equipped with a Dolby Digital, DTS, or MPEG decoder using a commercially available cable.



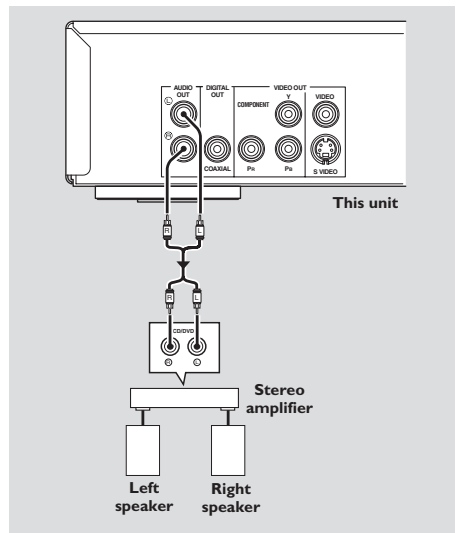
You need to set “DIGITAL OUTPUT” to “ALL” (see “DIGITAL OUTPUT” on page 23).

Notes:

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver produces a distorted sound or no sound at all. Make sure to select the appropriate audio format from the menu screen on the disc. Pressing AUDIO on the remote control once or more may change not only the audio language but also the audio format. The selected format appears in the front panel display for several seconds.
- If you wish to enjoy Dolby Digital, DTS, and MPEG formats, you must connect this unit to an AV receiver that supports these formats.

## Analog connection

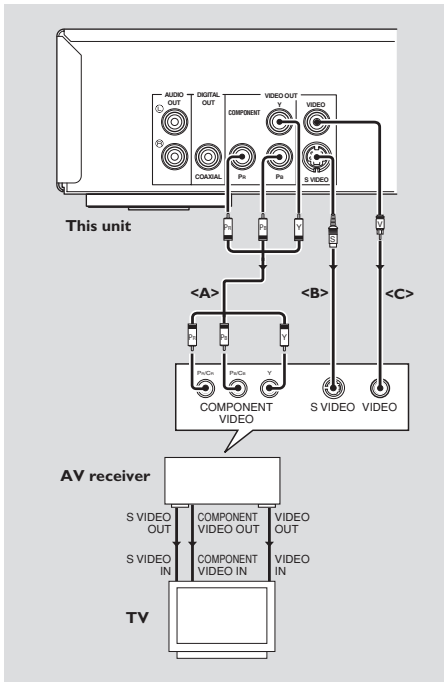
This unit has analog output jacks. Connect AUDIO OUT (L/R) jacks of this unit to the corresponding input jacks of your audio component (such as a stereo amplifier) using the supplied audio cable.



## Video connections

If your AV receiver has video output jacks, connect your receiver and then 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 AV receiver.

This unit has three types of video output jacks. Use the one that corresponds to the input jacks of the component to be connected.



## Component video jacks <A>

Component video connections achieve higher fidelity color reproduction than S-video connections by transmitting video signals on separate wires for luminance (Y: green) and chrominance (Pb: blue, Pr: red).

Connect VIDEO OUT - COMPONENT (Y/Pb/Pr) jacks of this unit to component input jacks of your AV receiver and then to those of your TV using a commercially available component cable. Observe the color of each jack when you make connections. If your AV receiver does not have component output jacks, you can achieve a better video image by connecting the component output jacks of this unit directly to the component input jacks of your TV.

## S-video jack <B>

S-video connections achieve a clearer picture than composite video connections by transmitting video signals on separate wires for luminance (Y) and chrominance (C).

Connect VIDEO OUT - S VIDEO jack of this unit to S-video input jack of your AV receiver and then to that of your TV using a commercially available S-video cable.

Note:

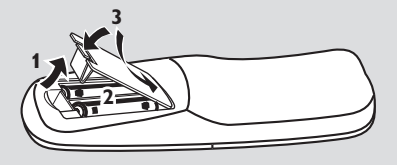
- In the default setting, the S VIDEO jack does not output video signals. Set “YUV/S” to “S-VIDEO” (see “Switching the YUV/S-video” on page 28).

## Composite video jack <C>

Connect VIDEO OUT - VIDEO jack of this unit to the video input jack of your AV receiver and then to that of your TV using the supplied video cable.

# Getting Started

## Step 1: Inserting batteries into the remote control

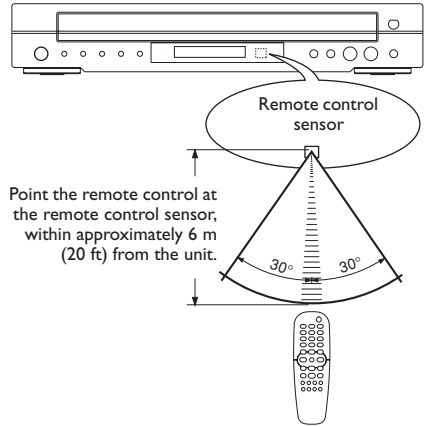


- 1 Open the battery compartment.
- 2 Insert the two supplied batteries (AA, R06, UM-3) following the indications (+/-) inside the compartment.
- 3 Close the cover.

### Notes:

- Insert batteries correctly according to the polarity markings (+/-). The batteries inserted in the opposite direction may leak.
- Replace the exhausted batteries immediately with new ones to prevent a leakage.
- Remove the batteries from the compartment if the remote control is not used for more than a month.
- If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Do not use old batteries together with new ones.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries may have the same shape and color.
- Dispose of the batteries correctly in accordance with your local regulations.

## Using the remote control



## 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:
  - places of high humidity, such as near a bath
  - places of high temperature, such as near a heater or stove
  - places of extremely low temperatures
  - dusty places

## Step 2: Turning on the power

- 1 Connect the AC power cord to an AC outlet.
- 2 Turn on your TV and AV receiver.
- 3 Select the appropriate input source of the AV receiver connected to this unit. Refer to the manual supplied with your AV receiver for details.
- 4 Turn on this unit.
- 5 Set the TV to the correct Video IN channel. (e.g. EXT1, EXT2, AV1, AV2, AUDIO/VIDEO, etc. Refer to the manual supplied with your TV for details.  
→ The front panel display lights up and the default screen appears on the TV.

### About the auto standby function

This unit is automatically set to the standby mode when disc playback is stopped or paused for more than 30 minutes.

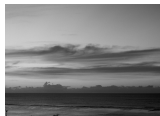
### When “SCREEN SAVER” is set to “ON” (see page 22):

The background is displayed when disc playback is stopped or the paused picture is displayed for 15 minutes.



Background

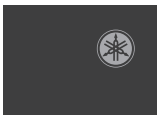
OR



Example of a paused picture



The screen saver is displayed for 15 minutes.



This unit is set to the standby mode.

### When “SCREEN SAVER” is set to “OFF” (see page 22):

The background or the paused picture is displayed for 30 minutes.

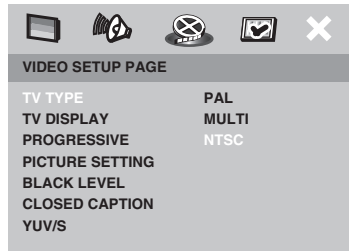


This unit is set to the standby mode.

## Step 3: Setting a TV type and display

### Setting a color system for your TV

This unit is compatible with both NTSC and PAL video formats. Select the color system that matches your TV.



- 1 Press **SETUP**.
- 2 Press **▶** repeatedly to select “VIDEO SETUP PAGE”.
- 3 Press **▲/▼** to highlight [TV TYPE], and then press **▶**.
- 4 Press **▲/▼** to highlight one of the following options.

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

# Getting Started

## PAL

Select this if the connected TV is a PAL system TV. It will change the video signals of NTSC discs and output them in PAL format.

## MULTI

Select this if the connected TV is compatible with both NTSC and PAL formats (such as a multi-system TV). The output format will be in accordance with the video signals of the disc.

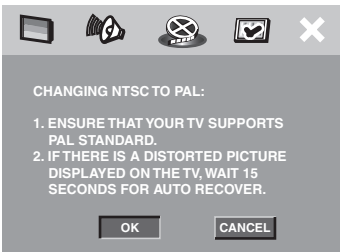
## NTSC

Select this if the connected TV is an NTSC system TV. It will change the video signals of PAL discs and output them in NTSC format.

- 5 Select an item, and then press **ENTER/OK** to confirm your selection.

### Notes:

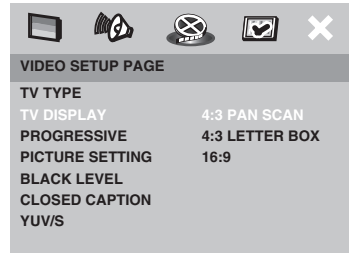
- *Before changing the current TV standard setting, ensure that your TV supports the selected TV type.*
- *If the picture is not displayed properly on your TV, wait for 15 seconds for this unit to activate automatic recovery.*



## Setting an aspect ratio for your TV

You can set the aspect ratio of this unit to match your TV. If the aspect ratio of your TV is 4:3, you do not need to change this setting. If you have a widescreen TV, change this setting according to the following procedure.

For details, see “Setting the TV display” on page 25.



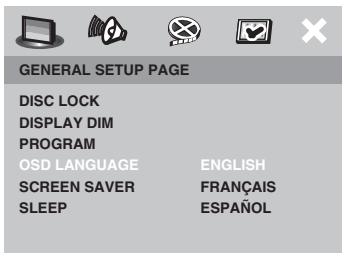
- 1 Press **SETUP**.
- 2 Press **▶** repeatedly to select “VIDEO SETUP PAGE”.
- 3 Press **▲/▼** to highlight [TV DISPLAY], and then press **▶**.
- 4 Press **▲/▼** to highlight [16:9], and then press **ENTER/OK** to confirm the selection.

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

## Step 4: Setting a language preference

You can select your own preferred language settings. This unit automatically switches to your preferred language whenever you load a disc. If the selected language is not available on the disc, the default language of the disc will be used instead. The OSD language in the system menu remains once selected.

### Setting the OSD language



- 1 Press **SETUP**.
- 2 Press **◀/▶** to select "GENERAL SETUP PAGE".
- 3 Press **▲/▼** to highlight [OSD LANGUAGE], and then press **▶**.
- 4 Press **▲/▼** to select a language, and then press **ENTER/OK** to confirm your selection.

### Setting the audio, subtitle and disc menu languages



- 1 Press **STOP (■)** twice, and then press **SETUP**.
- 2 Press **▶** repeatedly to select "PREFERENCE PAGE".
- 3 Press **▲/▼** to highlight one of the options below at a time, and then press **▶**.
  - AUDIO (audio language)
  - SUBTITLE (subtitle language)
  - DISC MENU (disc menu language)
- 4 Press **▲/▼** to select a language, and then press **ENTER/OK** to confirm your selection.

**If the language you want is not in the list, select [OTHERS],** and then use the **numeric buttons (0-9)** on the remote control to enter the 4-digit language code (see "Language Code" on page 31), and then press **ENTER/OK** to confirm the code.

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

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

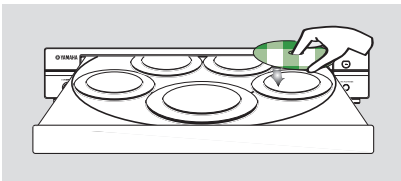
# Disc Operations

## IMPORTANT!

- If the inhibition icon (⊘ or X) appears on the TV screen when a button is pressed, the function for that button is not available on the current disc or at the current time.
- Depending on the DVD or VIDEO CD disc, some operations may operate differently or be restricted.
- Do not push on the disc tray or put any objects other than discs on the disc tray. Doing so may cause the disc player to malfunction.

## Basic playback

- 1 Press **STANDBY/ON** on the front panel or  $\phi$ /I on the remote control.
- 2 Press **▲ (OPEN/CLOSE)** on the front panel to open the disc tray.
- 3 Place discs in the disc tray with the printed side up.



- 4 Press **▶/II (PLAY/PAUSE)** on the front panel or **PLAY (▶)** on the remote control.  
→ The disc tray closes and playback starts automatically for all of the loaded discs in the tray in sequence.

- 5 To stop playback, press **■ (STOP)** on the front panel or **STOP (■)** on the remote control.
  - To play back a specific disc directly, press **DISC SKIP** repeatedly on the remote control or press **DISC (1, 2, 3, 4, 5)** on the front panel.
  - Press **PLAYXCHANGE** on the front panel to open the disc tray, and then reload or unload discs without interrupting current disc playback.
  - Playback stops after all discs have been played.
  - When the disc tray is open, press **▶/II (PLAY/PAUSE)**, **▲ (OPEN/CLOSE)**, **PLAYXCHANGE** or **DISC (1, 2, 3, 4, 5)** to close the disc tray automatically.

## General operation

Unless stated otherwise, all operations described here are carried out using the supplied remote control.

## Pausing playback

- 1 During playback, press **PAUSE (II)**.  
→ Playback is paused and the sound is muted.
- 2 Press **PAUSE (II)** again to select the next picture frame.
- 3 To resume normal playback, press **PLAY (▶)**.

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



## Selecting a track/chapter

- Press **◀◀ / ▶▶** or use the **numeric buttons (0-9)** to select a track/chapter number.
- During repeated playback of a track/chapter, press **◀◀ / ▶▶** to replay the same track/chapter.

## Searching backward/forward

- 1 Press and hold **◀◀ / ▶▶** or press **◀ / ▶**.
- 2 While searching, press **◀◀ / ▶▶** or **◀ / ▶** repeatedly to select the desired speed.
- 3 To resume normal playback, press **PLAY (▶)**.

### Notes:

- **◀ / ▶** key may not be available with some discs.
- For MP3 and WMA, the search function allows you to search the track currently being played.

## Stopping playback

- Press **STOP (■)**.

## Selecting the various repeat/shuffle functions

### Repeat

#### Repeating chapter/title/disc (DVD)

Each time you press **REPEAT**, the display changes as follows:



CHAPTER\*: repeats the current chapter

TITLE: repeats the current title

DISC\*: repeats the entire disc

ALL DISC: repeats all discs loaded in the tray

REPEAT OFF: exits from the repeat mode

\* This feature may not be available with some discs.

#### Repeating track/disc (except DVD)

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



TRACK: repeats the current track

DISC: repeats the entire disc

ALL DISC: repeats all discs loaded in the tray

REPEAT OFF: exits from the repeat mode

### Notes:

- When only one disc is available in the disc tray, it is continuously played when **ALL DISC** is selected.
- For VCD, repeat playback is not available when the PBC mode is selected.

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

# Disc Operations

## Repeating a section within a chapter/track

- 1 While playing a disc, press **A-B** at the desired starting point.
- 2 Press **A-B** again at the desired end point.
  - A and B can only be set within the same chapter/track.
  - The selected section repeats continuously.
- 3 To exit from the sequence, press **A-B**.

## Shuffle (except DVD/VCD/SVCD)

With the shuffle function, you can play tracks in a random order.

- 1 During playback, press **SHUFFLE** repeatedly to select between SHUFFLE DISC, SHUFFLE ALL DISC, and SHUFFLE OFF.
  - The selected mode appears in the front panel display for several seconds.
  - In the SHUFFLE DISC mode, all tracks on the disc currently playing are played in a random order.
  - In the SHUFFLE ALL DISC mode, tracks from all discs are played in a random order:
    - If the disc currently playing is a CD, only tracks from CDs will be played.
    - If the disc currently playing is formatted in MP3 or WMA, tracks on the disc currently playing are played in a random order. When all the tracks on that disc have been played, shuffle playback continues with the next disc.

## 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 the disc.

### To select a playback feature or item

- Use **◀/▶/▲/▼** or the **numeric buttons (0-9)** on the remote control, and then press **ENTER/OK** to start playback.

### To access or exit from the menu

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

### Slow motion

You can play back in slow motion.

- 1 Press **▲** for reverse slow motion or **▼** for forward slow motion.
- 2 During slow motion, press **▲/▼** repeatedly to select the desired speed.
- 3 To resume normal playback, press **PLAY (▶)**.

Note:

- Reverse slow motion is not available for VCDs and SVCDs.

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

## Zooming in

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

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

## Resuming playback from the last stopped point

You can resume playback of the last 10 discs, even if the discs were ejected or the power of this unit was turned off.

- 1 Load one of the last 10 discs.  
→ “LOADING #” (#: the disc tray number (1-5)) appears on the TV screen.
- 2 Press **PLAY** (▶) while “LOADING #” is displayed on the TV screen.  
→ “RESUME PLAY” appears on the TV screen and the disc is played back from the last point.

### To cancel the resume mode

- When playback is stopped, press **STOP** (■) again.

## On-screen display (OSD)

The OSD menu shows disc playback information (e.g., the title or chapter number, elapsed playing time or audio/subtitle language). A number of operations are possible 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 16    TITLE ELAPSED 0:02:25 |       |

### VCD/SVCD

| MENU                                |         |
|-------------------------------------|---------|
| TRACK                               | 02/14   |
| DISC TIME                           | 0:49:17 |
| TRACK TIME                          | 0:03:43 |
| REPEAT                              | OFF     |
| BITRATE 16    TOTAL ELAPSED 0:02:25 |         |

- 2 Press ▲/▼ to view the information, and then press **ENTER/OK** to access the selected item.
- 3 Use the **numeric buttons (0-9)** to input the number/time or press ▲/▼ to make a selection, and then press **ENTER/OK** to confirm the selection.  
→ Playback changes to the selected time or to the selected title/chapter/track.

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

# Disc Operations

## Title/Chapter/Track selection (DVD/VCD)

- 1 Press **▲/▼** to select [TITLE] or [CHAPTER] (DVD) or [TRACK] (VCD).
- 2 Press **ENTER/OK** to confirm the selection.
- 3 Select a title, chapter or track number using the **numeric buttons (0-9)**.

## 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 [CH TIME] refers to the total time of the current chapter.
- 2 Press **ENTER/OK** to confirm the selection.
- 3 Enter hours, minutes and seconds from left to right using the **numeric buttons (0-9)** (e.g. 0:34:27).

## Audio/Subtitle/Angle (DVD)

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

- 1 Press **▲/▼** to select [AUDIO], [SUBTITLE] or [ANGLE].
- 2 Press **ENTER/OK** to confirm the selection.
- 3 For Audio and Subtitle:  
Press **▲/▼** to highlight your selection, and then press **ENTER/OK**.

OR

For Angle:

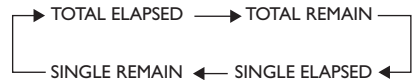
Select an angle using the **numeric buttons (0-9)**.

## Repeat/Time display (DVD/VCD)

- 1 Press **▲/▼** to select [REPEAT] or [TIME DISP.].
- 2 Press **ENTER/OK** to confirm the selection.
- 3 Press **▲/▼** to highlight your selection, and then press **ENTER/OK**.

## Time display (CD)

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



## Special DVD features

### Playing by title

- 1 Press **MENU**.  
→ The disc title menu appears on the TV screen.
- 2 Use **◀/▶/▲/▼** or the **numeric buttons (0-9)** to select a playback option.
- 3 Press **ENTER/OK** to confirm your selection.

### Camera angle

- Press **ANGLE** repeatedly to select the desired angle.

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

## Audio

### Changing the audio language and/or format

Press **AUDIO** repeatedly to select an audio language.

### Subtitles

- Press **SUBTITLE** repeatedly to select a subtitle language.

## Special VCD & SVCD features

### Playback control (PBC)

#### For VCD with playback control (PBC) feature (version 2.0 only)

- 1 Press **MENU** to toggle between “PBC ON” and “PBC OFF”.  
→ If you select “PBC ON”, the disc menu (if available) appears on the TV.
- 2 Use **◀◀/▶▶** or the **numeric buttons (0-9)** to select a playback option.
- 3 During playback, press **TOP MENU/RETURN** to return to the menu screen (if PBC is selected).

#### If you want to skip the index menu and play back a disc directly from the beginning,

- Press **MENU** on the remote control to turn off PBC.

## Audio CDs

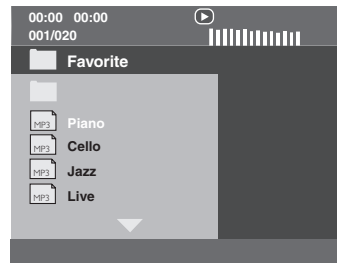
### Playing by discs

- 1 Load a disc.  
→ Playback starts automatically.  
→ The TV screen displays the current playback status and the number of tracks to select the desired track.
- 2 Playback stops at the end of the disc.
- 3 To stop playback, press **STOP (■)**.

## Playing MP3/JPEG/Kodak picture CDs

### 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 starts automatically. If not, press **PLAY (▶)**.



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

# Disc Operations

## During playback, you can:

- Press **|◀◀ / ▶▶|** to select another track/file in the current folder.
- Press **PAUSE (II)** to pause playback.

### Note:

- It may not be possible to play certain MP3/JPEG discs due to the configuration and characteristics of the discs or the recording conditions.

## Selecting a folder and track/file

- 1 Press **▲/▼** to select a folder, and then press **ENTER/OK** to open the folder.
- 2 Press **▲/▼** to select a track/file.
- 3 Press **ENTER/OK** to confirm your selection.  
→ Playback starts from the selected file to the end of the folder.

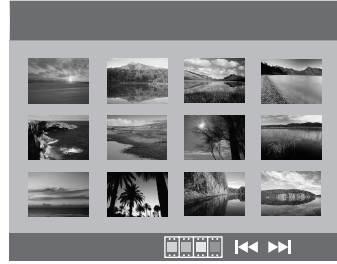
## Special picture disc features

- 1 Load a picture disc (Kodak Picture CD or JPEG).  
→ For Kodak discs, the slideshow begins.  
→ For JPEG discs, the picture menu appears on the TV screen.
- 2 Press **PLAY (▶)** to start the slideshow.

## Preview function (JPEG)


This function displays the content of the current folder or the entire disc.

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



- 2 Press **|◀◀ / ▶▶|** to display the other pictures on the previous/next page.
- 3 Use **◀/▶/▲/▼** to highlight one of the pictures, and then 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 the picture CD menu.

## Zooming pictures

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

## Playback with multi-angles

- During playback, press **◀/▶/▲/▼** to rotate the picture on the TV screen.
  - ◀: rotates the picture counter-clockwise
  - ▶: rotates the picture clockwise
  - ▲: flips the picture vertically
  - ▼: flips the picture horizontally

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

---

## Scan effect

- Press **ANGLE** repeatedly to choose a scan effect.
- Various scan effects appear in the top left corner of the TV screen.

---

## Playing MP3 music and JPEG pictures simultaneously

- 1 Load a disc that contains both music and picture data.
  - 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 then press **PLAY (▶)**.
  - The picture files are played back one after another until the end of the folder.
- 4 To quit simultaneous playback, press **MENU**, and then press **STOP (■)**.

### Note:

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

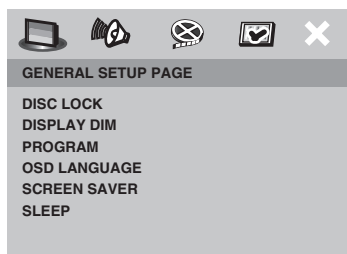
**TIPS:** The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the disc.

# Setup Menu

Setup is carried out on the TV screen, enabling you to customize this unit to suit your own particular requirements.

## General setup menu

- 1 Press **SETUP**.
- 2 Press **◀/▶** to select the “General Setup” icon.
- 3 Press **ENTER/OK** to confirm your selection.



## Locking/Unlocking the disc for viewing

Not all discs are rated or coded by the manufacturer of the disc. You can prevent playback of a specific disc by locking the disc. You can lock up to 40 discs on this unit.

- 1 In “GENERAL SETUP PAGE”, press **▲/▼** to highlight [DISC LOCK], and then press **▶**.

### **LOCK**

Select this to lock playback of the current disc. Subsequent access to a locked disc requires a six-digit password. The default password is “000 000” (see “Changing the password” on page 30).

### **UNLOCK**

Select this to unlock the disc and allow future playback.

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

## Dimming the 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], and then press **▶**.

### **100%**

Select this for full brightness.

### **70%**

Select this for medium brightness.

### **40%**

Select this for dimming display.

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

## Programming disc tracks and discs

### **Program: Track (except picture CD/MP3/WMA)**

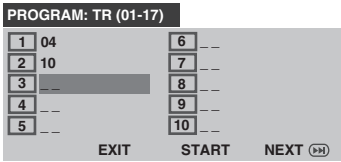
You can play back the contents of a disc in the desired order by programming the tracks to be played. You can store up to 20 tracks per disc with a maximum of 10 discs.

- 1 In “GENERAL SETUP PAGE”, press **▲/▼** to highlight [PROGRAM], and then press **▶** to select [FTS].

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



- 2 Press **ENTER/OK** to confirm your selection.



### To input your favorite tracks/chapters

- 3 Use the **numeric buttons (0-9)** to enter a valid track/chapter number.
- 4 Use **◀/▶/▲/▼** to move the cursor to the next position.
  - If the track/chapter number has more than ten digits, press **▶▶|** to move to the next page, and then proceed with programming.

OR

- Use **◀/▶/▲/▼** to highlight **[NEXT]** on the program menu, and then press **ENTER/OK**.
- 5 Repeat steps **3–4** to input another track/chapter number.

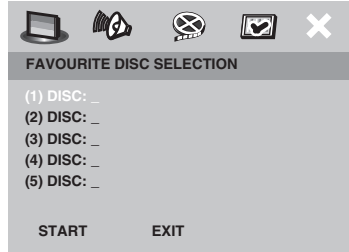
### To remove a track

- 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.

### Program: Disc

You can play back discs in the desired order by programming the discs to be played. You can store up to 5 discs.

- 1 In “GENERAL SETUP PAGE”, press **▲/▼** to highlight **[PROGRAM]**, and then press **▶** to select **[FDS]**.
- 2 Press **ENTER/OK** to confirm your selection.



### To input your favorite discs

- 3 Use the **numeric buttons (0-9)** to enter a valid disc number.
- 4 Use **◀/▶/▲/▼** to move the cursor to the next position.
- 5 Repeat steps **3–4** to input another disc number.

### To remove a disc

- 6 Use **◀/▶/▲/▼** to move the cursor to the disc you want to remove.
- 7 Press **0** to remove the disc from the program menu.

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

# Setup Menu

## To start program playback

- Use ◀/▶/▲/▼ to highlight [START] on the program menu, and then press **ENTER/OK**.
- Playback starts for the selected tracks or discs in the programmed sequence.

## To exit from program playback

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

## OSD language

This menu contains various options for the on-screen display (OSD) language. For details, see “Setting the OSD language” on page 11.

## Screen saver

Use this feature to turn on or off the screen saver.

- 1 In “GENERAL SETUP PAGE”, press ▲/▼ to highlight [SCREEN SAVER], and 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, and then press **ENTER/OK** to confirm your selection.

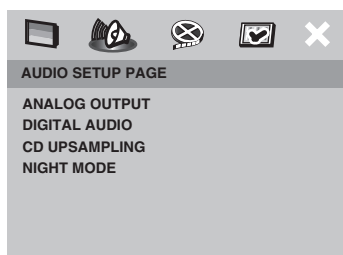
## Sleep timer

This feature automatically sets this unit to standby mode after a certain elapsed period.

- 1 In “GENERAL SETUP PAGE”, press ▲/▼ to highlight [SLEEP], and 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.

## Audio setup menu

- 1 Press **SETUP**.
- 2 Press ◀/▶ to select the “Audio Setup” icon.
- 3 Press **ENTER/OK** to confirm your selection.



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

---

### Setting the analog output

Set the analog output to match the playback capability of this unit.

- 1 In "AUDIO SETUP PAGE", press ▲/▼ to highlight [ANALOG OUTPUT], and then press ►.

#### STEREO

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

#### LT/RT

Select this if this unit is connected to a Dolby Prologic decoder.

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

---

### Setting the digital output

The [DIGITAL AUDIO] options are: "DIGITAL OUTPUT" and "LPCM OUTPUT".

- 1 In "AUDIO SETUP PAGE", press ▲/▼ to highlight [DIGITAL AUDIO], and then press ►.
- 2 Press ▲/▼ to highlight an option.
- 3 Press ► to enter a submenu.

#### **DIGITAL OUTPUT**

Set the digital output according to your optional audio component connections.

#### OFF

Select this to turn off the digital output.

#### ALL

Select this if you have connected the digital audio output jack to a multi-channel decoder/receiver.

#### PCM ONLY

Select this only if your receiver is not capable of decoding multi-channel audio signals.

*Note:*

*If your receiver cannot decode DTS, no sound output from DTS signals in any mode.*

#### **LPCM OUTPUT**

Select this if you have connected this unit to a PCM-compatible receiver via a digital terminal, such as the coaxial terminal. In this case, 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

Select this to play back discs recorded at the sampling rate of 48 kHz. All 96 kHz PCM data streams (if available) are converted to the sampling rate of 48 kHz.

#### 96KHz

Select this to play back discs recorded at the sampling rate of 96 kHz. If the 96 kHz disc is copy protected, the digital output is automatically converted to the sampling rate of 48 kHz.

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

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

# Setup Menu

## CD upsampling

Use this feature to convert your music CD to a higher sampling rate using sophisticated digital signal processing for better sound quality. If you activate the upsampling function, this unit automatically switches to the stereo mode.

- 1 In “AUDIO SETUP PAGE”, press ▲/▼ to highlight [CD UPSAMPLING], and then press ►.

### OFF

Select this to disable CD-upsampling.

### 88.2kHz (X2)

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

### 176.4kHz (X4)

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

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

Note:

- This setting is only valid for signals output at the analog jacks.

## Night mode

In the night mode, high volume output is softened and low volume output is brought upward to an audible level. It is useful when you watch your favorite action movie without disturbing others at night.

- 1 In “AUDIO SETUP PAGE”, press ▲/▼ to highlight [NIGHT MODE], and then press ►.

## ON

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

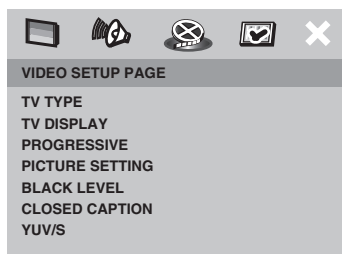
## OFF

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

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

## Video setup menu

- 1 Press **SETUP**.
- 2 Press ◀/▶ to select the “Video Setup” icon.
- 3 Press **ENTER/OK** to confirm your selection.



## TV type

Use this feature to select a color system that matches your TV. For details, see “Setting a TV type and display” on page 9.

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

## Setting the TV display

Set the aspect ratio of this unit to match your TV. The format you select must be available on the disc. Otherwise, the TV display setting will not affect the picture during playback.

- 1 In "VIDEO SETUP PAGE", press ▲/▼ to highlight [TV DISPLAY], and then press ►.
- 2 Press ▲/▼ to highlight one of the following options.

### 4:3 PAN SCAN

Select this if the aspect ratio of your TV is 4:3 and you want both sides of the picture to be trimmed or formatted to fit your TV screen.

### 4:3 LETTER BOX

Select this if the aspect ratio of your TV is 4:3. In this case, a wide picture with black bands on the upper and lower portions of the TV screen are displayed.

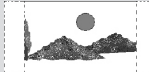
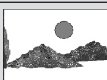


### 16:9

Select this if you have a widescreen TV.



- 3 Select an item, and then press **ENTER/OK** to confirm your selection.

## The relationship between the setting of this unit and the TV display

When the aspect ratio of your TV is 4:3:

| Setting        | Playback disc | TV display  |    |
|----------------|---------------|---|----|
| 4:3 PAN SCAN   | 16:9          |  | *1 |
|                | 4:3           |  |    |
| 4:3 LETTER BOX | 16:9          |  |    |
|                | 4:3           |  |    |

When the aspect ratio of your TV is 16:9 (widescreen):

| Setting | Playback disc | TV display  |    |
|---------|---------------|---|----|
| 16:9    | 16:9          |  |    |
|         | 4:3           |  | *2 |

\*1: If the disc is not assigned to playback with panscan, it is played with letterbox.

\*2: The side of the picture may be stretched depending on the TV. In this case, check the screen size and aspect ratio of your TV.

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

# Setup Menu

## Progressive

This feature is only valid if you have connected this unit to a progressive scan TV through the component video jacks (see “Component video jacks <A>” on page 7).

- 1 In “VIDEO SETUP PAGE”, press ▲/▼ to highlight [PROGRESSIVE], and then press ►.

### ON

Select this to enable the progressive scan function.

### OFF

Select this to disable the progressive scan function.

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

## Notes on activating progressive scan:

- Ensure that your TV is equipped with progressive scan.
- Connect using a component video cable.
- Ensure that “YUV/S” is set to “YUV” (see “Switching the YUV/S-video” on page 28).
- When the progressive scan is active, the VIDEO (CVBS) and S VIDEO jacks do not output video signals.
- If no picture is displayed, wait for 15 seconds for this unit to activate automatic recovery, or deactivate progressive scan manually as follows:
  - 1 Press **▲ (OPEN/CLOSE)** on the front panel to open the disc tray.
  - 2 Press **◀**.
  - 3 Press **ANGLE**.

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-1200, LPX-510 and the plasma monitor PDM-4220.

## Picture settings

This unit comes with three predefined sets of picture color settings and one personal setting that you can define yourself.

- 1 In “VIDEO SETUP PAGE”, press ▲/▼ to highlight [PICTURE SETTING], and then press ►.

### STANDARD

Select this for the standard picture setting.

### BRIGHT

Select this to make the TV picture brighter.

### SOFT

Select this to make the TV picture softer.

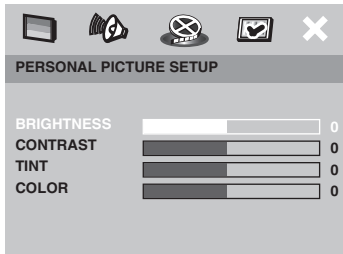
### PERSONAL

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

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

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

- 3 If you selected [PERSONAL] in step 1, proceed to steps 4–7:  
 → The “PERSONAL PICTURE SETUP” menu appears.



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

### **BRIGHTNESS**

Increase the value to brighten the picture or vice versa. Zero (0) is the average brightness setting value.

### **CONTRAST**

Increase the value to sharpen the picture or vice versa. Zero (0) is the average contrast setting value.

### **TINT**

Increase the value to darken the picture or vice versa. Zero (0) is the average tint setting value.

### **COLOR**

Increase the value to enhance the color in your picture or vice versa. Zero (0) is the average color setting value.

- 5 Press ◀/▶ to adjust the setting that best suits your personal preference.  
 6 Repeat steps 4–5 to adjust other color features.  
 7 Press **ENTER/OK** to confirm your selection.

## Selecting the black level

If you set the TV type to NTSC, set the black level shift to ON to improve the color contrast during playback. The black level setting has no effect if the TV type is set to PAL.

- 1 In “VIDEO SETUP PAGE”, press ▲/▼ to highlight [BLACK LEVEL], and then press ▶.

### **ON**

Select this to enhance the black level.

### **OFF**

Select this for standard black level setting.

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

## Closed caption

Closed captions are data hidden in the video signals of specific discs and are invisible without the use of a special decoder. The difference between subtitles and captions is that subtitles are intended for hearing persons and captions are for the hearing impaired. Subtitles rarely show all of the audio. For example, captions show sound effects (e.g., “phone ringing” and “footsteps”), while subtitles do not. Before you select this function, please ensure that the disc contains closed caption information and your TV set also supports this function.

- 1 In “VIDEO SETUP PAGE”, press ▲/▼ to highlight [CLOSED CAPTION], and then press ▶.

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

# Setup Menu

## ON

Select this to enable the closed caption function.

## OFF

Select this to disable the closed caption function.

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

## Switching the YUV/S-video

Use this feature to toggle the video signal output between YUV (Y PB PR) and S-video.

- 1 In “VIDEO SETUP PAGE”, press **▲/▼** to highlight [YUV/S], and then press **▶**.

## YUV

Select this for the component video connection.

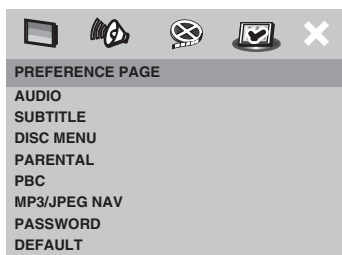
## S-VIDEO

Select this for the S-video connection.

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

## Preference setup menu

- 1 Press **STOP (■)** twice to stop playback (if necessary), and then press **SETUP**.
- 2 Press **◀/▶** to select the “Preference Setup” icon.
- 3 Press **ENTER/OK** to confirm your selection.



## Audio, subtitle and disc menu

These menus contain various language options for the audio, subtitles and disc menus recorded on the DVD. For details, see “Setting the audio, subtitle and disc menu languages” on page 11.

## Restricting playback with 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 playback of certain discs that are not suitable for your children or play certain discs in alternative scenes.

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



- 1 In "PREFERENCE PAGE", press ▲/▼ to highlight [PARENTAL], and 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        |
| PASSWORD        | 7 NC 17    |
| DEFAULT         | 8 ADULT    |

- 2 Press ▲/▼ to highlight a rating level for the inserted disc, and then press **ENTER/OK** to confirm your selection.
  - To disable parental controls and have all discs play, select [8 ADULT].
- 3 Use the **numeric buttons (0-9)** to enter the six-digit password (see "Changing the password" on page 30).
  - DVDs that are rated above the level you selected do not play unless you enter the six-digit password.

**Notes:**

- VCD, SVCD, and CD have no level indication, so the parental control function has no effect with these types of discs. This also 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 turn on or off PBC. This feature is available only on Video CD 2.0 with the playback control (PBC) feature. For details, see "Playback control (PBC)" on page 17.

## **MP3/JPEG menu**

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

- 1 In "PREFERENCE PAGE", press ▲/▼ to highlight [MP3/JPEG NAV], and then press ►.

### **WITH MENU**

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

### **WITHOUT MENU**

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

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

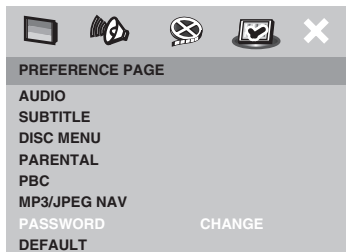
**TIPS:** To return to the previous menu, press ◀. To exit from the menu, press **SETUP**.

# Setup Menu

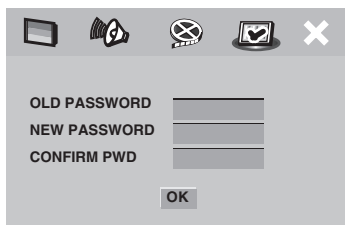
## Changing the password

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], and then press ► to select [CHANGE].



- 2 Press **ENTER/OK** to enter the “Password Change Page”.



- 3 Use the **numeric buttons (0-9)** to enter your old six-digit password.
  - When doing this for the first time, enter “000 000”.
  - If you forgot your old six-digit password, enter “000 000”.
- 4 Enter the new six-digit password.
- 5 Enter the new six-digit password again to confirm the password.  
→ The new six-digit password is now valid.
- 6 Press **ENTER/OK** to confirm your new password.

## Resetting the system

Setting the DEFAULT function resets all options and your personal settings to the initial factory settings, except your password for PARENTAL and DISC LOCK.

- 1 In “PREFERENCE PAGE”, press ▲/▼ to highlight [DEFAULT], and then press ► to select [RESET].
- 2 Press **ENTER/OK** to confirm your selection.  
→ All settings are reset to the initial factory settings.

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

These codes 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 Slav; 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 Code

These codes 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   |
|---|--|
| <b>No power</b>   | <ul style="list-style-type: none"> <li>- Check if the AC power cord is properly connected.</li> <li>- Press STANDBY/ON on the front panel of this unit to turn on the power.</li> </ul>  |
| <b>No picture</b>   | <ul style="list-style-type: none"> <li>- Refer to the manual supplied with your TV for correct Video In channel selection. Change the TV channel until you see the DVD screen.</li> <li>- Check if the TV is turned on.</li> <li>- Make sure the video signal output setting of this unit matches the video connection (see "Switching the YUV/S-video" on page 28).</li> <li>- If you do not use progressive scan connections (using the component video (Y Pb Pr) jacks of this unit) and no picture is displayed on the TV, follow the steps below to turn off the progressive scan;               <ol style="list-style-type: none"> <li>1. Press ▲ (OPEN/CLOSE) on the front panel to open the disc tray.</li> <li>2. Press ◀ on the remote control.</li> <li>3. Press ANGLE on the remote control to deactivate progressive scan. This unit is set to Component/Interlaced video.</li> </ol> </li> </ul> |
| <b>Distorted picture</b>  | <ul style="list-style-type: none"> <li>- Occasionally, a small amount of picture distortion may appear depending on the disc being played back. This is not a malfunction.</li> </ul>  |
| <b>Completely distorted picture or black/white picture with DVD</b>   | <ul style="list-style-type: none"> <li>- Make sure the disc is compatible with this unit (see "Notes on discs" on page 2).</li> <li>- Ensure that the TV type of this unit is set to match that of the disc and your TV (see "Setting a color system for your TV" on page 9).</li> </ul>   |
| <b>The screen size looks unnatural, or the caption is displayed only partially on the TV monitor or is not displayed at all</b> | <ul style="list-style-type: none"> <li>- Make sure the TV setting of this unit matches the screen size of your TV (see "Setting the TV display" on page 25).</li> <li>- Change the screen size and the aspect ratio of your TV.</li> </ul>   |
| <b>No sound or distorted sound</b>  | <ul style="list-style-type: none"> <li>- Adjust the volume.</li> <li>- Check that the speakers are connected correctly.</li> </ul>   |

# Troubleshooting

| Problem  | Solution  |
|--|---|
| <b>No audio at digital output</b>  | <ul style="list-style-type: none"><li>– Check the digital connections.</li><li>– If you are playing a DTS source, check that your receiver can decode DTS and "DIGITAL OUTPUT" is set to "ALL" (see page 23).</li><li>– If you are playing an MPEG-2 source, check that your receiver can decode MPEG-2. Otherwise, make sure "DIGITAL OUTPUT" is set to "PCM ONLY" (see page 23).</li><li>– Check if the audio format of the selected audio language matches your receiver capabilities.</li></ul> |
| <b>Disc does not play</b>  | <ul style="list-style-type: none"><li>– The DVD+R/RW, DVD-R/RW, CD-R/RW must be finalized.</li><li>– Ensure the disc label is facing up.</li><li>– Check if the disc is defective by trying another disc.</li><li>– If you have recorded a picture CD or MP3 CD yourself, ensure that your disc contains at least 10 pictures or 5 MP3 tracks.</li><li>– Region code is incorrect (see "Region codes" on page 2).</li></ul>   |
| <b>Picture freezes momentarily during playback</b>                           | <ul style="list-style-type: none"><li>– Check the disc for fingerprints/scratches and clean it with a soft cloth wiping from center to edge.</li></ul>  |
| <b>This unit does not respond to the remote control</b>                      | <ul style="list-style-type: none"><li>– Aim the remote control directly at the remote control sensor on the front panel of this unit.</li><li>– Reduce the distance of the remote control from this unit.</li><li>– Replace the batteries in the remote control.</li><li>– Reinsert the batteries with their polarities (+/- signs) as indicated.</li></ul>   |
| <b>Buttons do not work</b>   | <ul style="list-style-type: none"><li>– To completely reset this unit, unplug the AC cord from the AC outlet for 5-10 seconds.</li></ul>  |
| <b>This unit does not respond to some operating commands during playback</b> | <ul style="list-style-type: none"><li>– Operations may not be permitted by the disc. Refer to the instructions of the disc jacket.</li></ul>  |
| <b>This unit cannot read CDs/DVDs</b>  | <ul style="list-style-type: none"><li>– Use a commonly available CD/DVD lens cleaner to clean the lens before sending this unit for repair.</li></ul>   |
| <b>Menu items cannot be selected</b>   | <ul style="list-style-type: none"><li>– Press STOP (■) twice on the remote control before selecting Setup Menu.</li><li>– Depending on the disc availability, some menu items cannot be selected.</li></ul>   |
| <b>Unable to turn on or off a progressive scan</b>                           | <ul style="list-style-type: none"><li>– Check that the video signal output is switch to "YUV" (see "Switching the YUV/S-video" on page 28).</li></ul>   |

**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 this unit 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 this unit 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 output jacks. These jacks send audio through multiple channels, instead of just two channels as analog does.

**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.

**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 level of the software 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.

# Glossary

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**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 only plays 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.

**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 this unit that sends video to a TV.



## PLAYBACK SYSTEM

DVD-Video  
 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<br>C: 0.3 Vpp into 75 ohm           |
| Component video output | Y: 1 Vpp into 75 ohm<br>Pb/Cb Pr/Cr: 0.7 Vpp into 75 ohm |
| Black Level Shift      | On/Off   |

## AUDIO FORMAT

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

## AUDIO PERFORMANCE

|                              |  |
|------------------------------|--|
| DA Converter                 | 24 bit   |
| Signal-Noise (1 kHz)         | 115 dB   |
| Dynamic range (1 kHz)        | 100 dB   |
| DVD                          | fs 96 kHz      2 Hz - 44 kHz<br>fs 48 kHz      2 Hz - 22 kHz |
| SVCD                         | fs 48 kHz      2 Hz - 22 kHz<br>fs 44.1 kHz    2 Hz - 20 kHz |
| CD/VCD                       | fs 44.1 kHz    2 Hz - 20 kHz                                 |
| Distortion and Noise (1 kHz) | 0.0035%  |

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

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

## CONNECTIONS

|                    |   |
|--------------------|---|
| 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<br>IEC60958 for CDDA/LPCM<br>IEC61937 for MPEG 1/2, Dolby Digital and DTS |

## CABINET

|                        |                   |
|------------------------|-------------------|
| Dimensions (w x d x h) | 435 x 425 x 75 mm |
| Weight                 | Approx. 5.5 Kg    |

## POWER SUPPLY

|                     |             |              |
|---------------------|-------------|--------------|
| Power inlet         | U.S.A model | 120 V, 60 Hz |
| Power usage         |             | Approx. 15 W |
| Power usage standby |             | < 1 W        |

*Specifications are subject to change without prior notice.*



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