# Palsonic

## DVD/VCD COMBO

### INSTRUCTION MANUAL

## DVDV100

- The region code of this DVD/Video player for home use, is region "4" or ALL. If you insert a disc with another region code, it will not operate. Please only use a region code 4 or ALL disc.
- ⊘ is a "DO NOT" mark. If this mark is displayed when operating the product, please wait for a while, then try it again. If the " ⊘ DO NOT" mark continues to be displayed when pressing a button, it means the button does not function in the currently played disc.
- Select and press a product button on the REMOTE then use the product.
  • DVD operation: **[DVD]** button
  • Video operation: **[VCR]** button

DVD VIDEO  VHS PAL  COMPACT disc DIGITAL VIDEO  COMPACT disc DIGITAL AUDIO  MP3 DISC

# Contents

# Important Safeguards

**CAUTION**
RISK OF ELECTRIC SHOCK
DO NOT OPEN

**CAUTION**: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICEING TO QUALIFIED SERCIVE PRESONAL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user 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.

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

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

**IMPORTANT FOR LASER PRODUCTS**
- **LASER:** This Digital Video Disc Player employs a Laser System. To ensure proper use of this product please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorised service location - see service procedure.

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

  To prevent direct exposure to the laser beam, do not try to open the enclosure. Visible laser radiation when open and interlocks defeated.
  DO NOT STARE INTO THE BEAM.
- **DANGER:** Visible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

  **CLASS 1
  LASER PRODUCT**

CAUTION: Any changes or modification in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- **Make sure the unit should be placed at least 8cm apart from the other home appliances or the obstacles to get sufficient ventilation.**
- **This unit shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on this unit.**
- **Switching it of f does not disconnect it from the mains (stand-by). To disconnect it from the mains, you have to unplug it.**

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorised and does not contain any parts that can be repaired by the user.

**1   READ INSTRUCTIONS**
All the safety and operating instructions should be read before the unit is operated.

**2   RETAIN INSTRUCTIONS**
The safety and operating instructions should be retained for future reference.

**3   HEED WARNINGS**
All warnings on the unit and in the operating instructions should be adhered to.

**4   FOLLOW INSTRUCTIONS**
All operating and use instructions should be followed.

**5   CLEANING**
Unplug this unit 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 unless recommended by the unit's manufacturer as  they may cause hazards.

**7   WATER AND MOISTURE**
Do not use this unit near water- for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.

**8   ACCESSORIES**
Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious  injury  to a child or adult as well as serious damage to the unit. Use this unit only with a cart, stand , tripod, bracket,  or  table recommended by the manufacturer.

PORTABLE CART WARNING
(symbol provided by RETAC)

**8A**
A unit and cart combination should be moved  with care. Quick stops, excessive force, and uneven

surfaces may cause the product and cart combination to overturn.

**9   VENTILATION**
Slots and openings in the case are provided for ventilation to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered. These openings must not be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat radiator. This unit 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.

**10  POWER SOURCES**
This unit 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 dealer or local power company. For units intended to operate  from battery power, or other sources, refer to the operating instructions.

**11  GROUNDING OR POLARISATION**
This unit is equipped with a polarised 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 still fails to fit, contact your electrician to replace your obsolete outlet. To prevent electric shock, do not use this polarised plug with an extension cord, receptacle, or other outlet  unless the blades can be fully inserted without blade exposure. If you need an extension cord, use a polarised cord.

**12  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 unit.

**13  LIGHTNING**
For added protection for this unit 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 unit due to lightning and power line surges.

**14  DISC TRAY**
Keep your fingers well clear of the disc as it is closing. It may cause serious personal injury.

**15  OVERLOADING**
Do not overload wall outlets of extension cords as this can result in a risk of fire or electric shock.

**16  OBJECT AND LIQUID ENTRY**
Never push objects of any kind into this unit 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 unit.

**17  BURDEN**
Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.

**18  DISC**
Do not use a cracked, deformed or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

**19  SERVICING**
Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**20  DAMAGE REQUIRING SERVICE**
Unplug this unit 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 unit.
C. If the unit has been exposed to rain or water.
D. If the unit does not operate normally by following the operating instructions.   Adjust only those controls that are covered by the operating instructions. Improper  adjustment of other controls may result in damage and will often require extensive work by a qualified technician

to restore the unit to its normal operation.
E. If the unit has been dropped or the cabinet has been damaged.
F. When the unit exhibits a distinct change in performance-this indicates a need for service.

**21  REPLACEMENT PARTS**
When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of replacements specified by the unit manufacturer can prevent fire, electric shock, or other hazards.

**22  SAFETY CHECK**
Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks recommended by the manufacturer to determine that the unit is in safe operating condition.

**23  WALL OR CEILING MOUNTING**
The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

**24  HEAT**
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

# Advantages of This Product Are .....

- DVD, VCD, CD, CD-R (MP3), CD-RW, VHS.
- DVD one-touch record function.
- Watching DVD for recording broadcast.
- Integrated remote control (VCR, DVD).
- VISS function.
- Multiplex sound playback/record.
- High Sound Quality of 6 head Hi-Fi.
- Simple record function.
- MP3 file playback function (CD-R disc having records of MP3 files).
- GUI (Graphical User Interface) through. OSD (On Screen Display).
  By using the [DISPLAY] button on the remote control, information on the DVD/VCD/CD player and disc, can be displayed on the TV screen.
- Screensaver function (DVD).
- 3D sound (3D sound effect using 2 speakers)
- High bit / High sampling with 27MHz / 10bit video encoder.
- High bit / High sampling with 96MHz / 24bit Audio D/A Converter.
- Coaxial, Optical digital Audio output (PCM, Dolby Digital, DTS).
  You can enjoy high-level digital audio by connecting with amp embedded with Dolby Digital / DTS decoder.
- Built-in Dolby Digital decoder (DVD).
- Analog audio 2-channels output for DOWNMIX (x1).
- Composite video output (x1).
- Slow Forward / Reverse playback (DVD).
- Fast Forward / Reverse playback.
- Search of title, chapter, and time in DVD. disc, and search of time and track time in VCD and CD.

- Various TV aspect (DVD)
  4:3 for Pan and Scan, 4:3 for Letter Box, and 16:9 for Wide.
- Repeat playback (title, chapter, and part for DVD/ track, disc, and part for VCD/CD).
- Selective Play (DVD/VCD/CD).
  You can select and play the desired title / chapter of DVD and track of Video CD/CD in STOP mode.
- 4 languages OSD (On Screen Display) function (DVD).
  You can select and display OSD in 4 languages. (E/ RU/ CZ/ H).
- Parental Lock function (DVD).
  This function can prevent playback of software that may be unsuitable for children.
- Multi Audio function (DVD).
  The audio soundtrack can be heard in up to 12 languages. In the case of SVCD or VCD, it depends on the disc. (The number of audio languages depends on the software.)
- Multi Subtitle function (DVD)
  The subtitle can be seem in up to 12 languages. In the case of SVCD or VCD, it depends on the disc. (The number of audio languages depends on the software.)
- Multi Angle function (DVD).
  This function allows you to choose the viewing angle of scenes which were shot from a number of different angles. (The number of angles depends on the software.)
- Screen zoom function (DVD/VCD).

# Read Carefully before Using

*Cautions in use of DVD-Video player are described below. Please read carefully before using a DVD-Video player.*

√ **Installation place and handling**
- When you place this player near other devices, they may affect poorly together.
- When you place DVD-Video player and TV in the upper and lower sides, it may cause flickering of pictures or failure (tape is not ejected).
- When you place this player near strong magnetic materials, it may affect image or voice poorly or damage recording.
- Do not spill volatile liquids like insect spray over the player. Do not leave rubber or plastic products in contact with the player for a long time. They will cause deterioration or paint peel-off.

√ **Not in use**
- When the unit is not in use, be sure to remove the disc or tape and turn off the power.
- If you do not use the unit for a long period, remove batteries in remote control to prevent leakage.
- In case you don't use the unit for a long time, the unit may not function properly in the future. Turn on and use the player occasionally.

√ **Moving**
- Repack the unit as it was originally packed at the factory. Alternatively, pack this product with towel not to be damaged.
- Eject any videotape.

√ **Cleaning**
- Dust off dirt in cabinet or control panel part smoothly with a soft cloth.
- For heavy dirt, soak the cloth in a weak detergent solution, wring it well and wipe. Use a dry cloth to wipe it out.
- Follow instructions in using chemical cleaners.
- Do not use any type of solvent such as gasoline or benzene, as they may cause deterioration or paint peel-off.

√ **Checking**
- Video is a high precision device. To obtain a clear screen, we recommend regular inspection and maintenance every 1,000 hours of use by technical engineers.
- For checking, contact your dealer or your nearest service centre.

√ **Checking and Replacement of Antenna**
- Antenna is subject to change in its direction or damage by wind and rain. For clean screen,

contact and consult your nearest service centre about checking and replacement.

√ **In recording important screen**
- Be sure to record the screen and check whether recording is performed properly. We beg you to understand compensation of recording if recording is not performed by badness of used tape or video.

√ **Copyright**
- Do not use your recordings without permission of a copyrighter except personal usage.

√ **Tape and Disc Handling**
- Do not use any tape and disc below. Damage of video head or cut/coiling of tape may cause failure.
- Tape with mould
- Tape or disc stained with juice or attachments
- Tape having breakage connection
- Disassembled tape
- Disc with severe scratch
- Moisture condensation may occur in tape. Moisture condensation damages the tape. Please use the tape after the moisture condensation is disappeared.
- After use, store tape vertically in a case to prevent loose.
- Do not store the following places.
- High temperature and humidity
- Subject generation of mould
- Subject to direct sunlight
- Much dirt or dust
- Near strong magnetic materials such as speaker

√ **Instructions in using REMOTE**
- Operate remote control within 7m from the unit.
- Do not press 2 (two) buttons at the same time.
- Do not light up sending and receiving part of remote control.
- Do not keep in the place with much dust and humidity.



7m

30°or less  30°or less
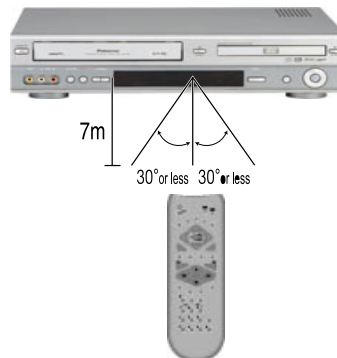
# Identification of Controls

## Main body (front panel)



① **POWER (STANDBY/ON) button**
Use to power the device on/off if AC power supply is connected.
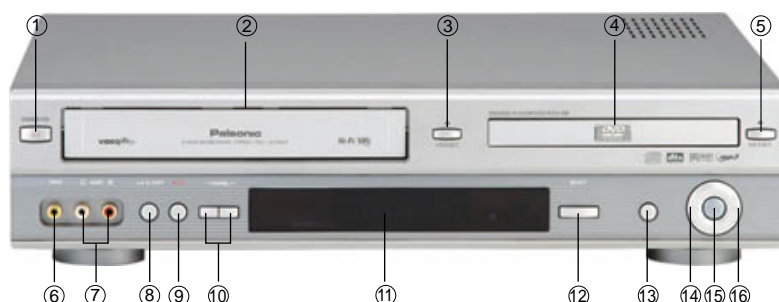
② **Place to insert videotape**

③ **EJECT button**

④ **Disc tray**

⑤ **OPEN/CLOSE Tray button**

⑥ **VIDEO INPUT jack**

⑦ **AUDIO INPUT jack**

⑧ **COPY button**
Use to copy contents of disc into a videotape.

⑨ **RECORD button**

⑩ **CHANNEL Up/Down button**

⑪ **Operation Display Window**
Display operation of device. For more information, see "Operation Display Window" as below.

⑫ **SELECT button**
Use to change DVD mode to VCR mode, and vice versa.

⑬ **STOP button**
Use to stop playing.

⑭ **REWIND button**
Use to rewind currently being played videotape or disc; or to playback back rapidly.

⑮ **Playback/PAUSE button**
Playback videotape or disc.
Press this button to pause a screen.

⑯ **FAST FORWARD button**
Use to wind currently being played videotape or disc; or to playback rapidly.

## Operation Display Window



| | |
|---|---|
| **VCR** | **VCR Operation** |
| ⌐ REC | **REC and TIMER REC display** |
| | **REC** Recording , TIMER Recording , |
| | ⌐ To be Timer-recorded, |
| | ☼ To be Timer-recorded state ERROR (No Tape or Tape without tab) |
| **COPY** | **Copying** Use to copy contents of disc into videotape. |
| **dts** | **dts Disc Indicator** |
| **T** | **Title** This is displayed in VCD and CD disc. |
| **C** | **Chapter** This is displayed in DVD disc. |

**Time, Counter and Current Operation**

| | |
|---|---|
| OPEN | Tray is opened |
| CLOSE | Tray is closed |
| LOAD | Disc is loaded |
| NODISC | There is no disc in tray |
| ERDISC | Disc has some error |
| MENU | Menu screen is displayed |
| SETUP | Setup menu is displayed |
| ON | Power is ON |
| OFF | Power is OFF |

**3D Sound Indicator**

**DVD Disc Operation**

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# Main body (Rear Panel)



① POWER CORD

It is a jack for supplying power to the unit.

Connect to outlet in a wall.

② DIGITAL OUTPUT (COAXIAL, OPTICAL) Jack

To enjoy sound quality of theatre level in home, connect this jack with amp or unit embedded

with digital audio decoder.

③ AUDIO OUTPUT Jack

④ COMPONENT OUTPUT Jack

⑤ A/V OUTPUT Jack

⑥ A/V INPUT Jack

⑦ Connection to ANTENNA Cable

⑧ Connection to TV

# Accessories

| Remote control | 2 Batteries | RF cable | Owner's Manual/ Warranty |
|---|---|---|---|
|  |  |  |  |

● To purchase accessories or not supplied parts additionally, contact your nearest dealer or service centre. But, owner's manual and warranty are not sold additionally.

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# Remote Control
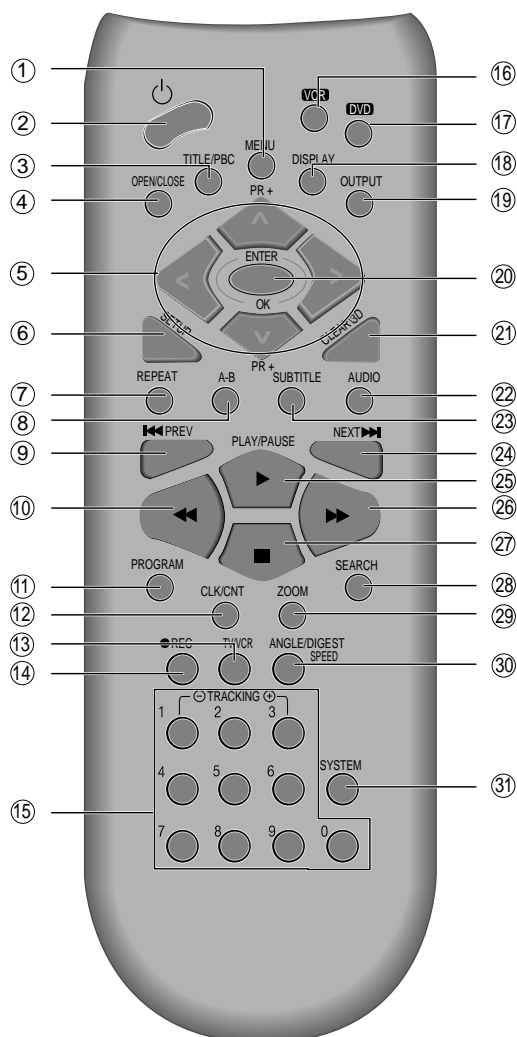
① [DVD] MENU button

② POWER button

③ [DVD] TITLE/PBC button

④ [DVD] OPEN/CLOSE button, [VCR] EJECT button

⑤ [DVD, VCR] MOVE/SELECT in OSD, [VCR] Channel Up/Down button

⑥ SETUP button

⑦ [DVD] REPEAT Playback button

⑧ [DVD] REPEAT a defined period from A to B button

⑨ [DVD] PREVIOUS button (move into a previous chapter or track)

⑩ REVERSE SEARCH button

⑪ [DVD, VCR] PROGRAM button

⑫ [DVD, VCR] CLOCK/COUNTER button

⑬ [DVD, VCR] TV/VCR button

⑭ [VCR] Record button

⑮ [DVD, VCR] NUMBER button , [VCR] TRACKING-/+ button

⑯ VCR SELECT button

⑰ DVD SELECT button

⑱ [DVD, VCR] OSD DISPLAY button

⑲ OUTPUT Selection button

⑳ ENTER/OK button

㉑ CLEAR/3D button

㉒ [DVD] AUDIO LANGUAGE Select, [VCR] AUDIO Select button

㉓ [DVD] SUBTITLE Select button

㉔ [DVD] NEXT button (Move into a next chapter or track), [VCR] Frame Advance button in pause mode

㉕ PLAY/PAUSE button

㉖ FORWARD SEARCH button

㉗ STOP button

㉘ [DVD] Chapter/Title/Time SEARCH button

㉙ [DVD] ZOOM button

㉚ [DVD] ANGLE, [VCD] DIGEST, [VCR] Record SPEED button

㉛ SYSTEM button (This button is not available for this set)

## Child Lock!!!

*Press the power [ ⏻ ] button of the remote for about 5 seconds. No buttons of front panel and remote can be operated now and Lock indicator ("L O C K") will be displayed on window display. To release child lock, press the power [ ⏻ ] button of the remote control for about 5 seconds.*

# Connecting up your player with RF lead

■ Before you start, unplug all the equipment from the mains supply.

## ▬▬(Option 1) - How to connect with RF lead



**OUTSIDE ANTENNA OR WALL ANTENNA OUTLET**

**REAR PANEL OF DVD-VIDEO**

DVD & VCR

OUT    IN
R
AUDIO
L
VIDEO

ANT.IN

ANT. OUT

**REAR PANEL OF TV**

INPUT 1  INPUT 2
R
AUDIO
L
VIDEO

ANT IN
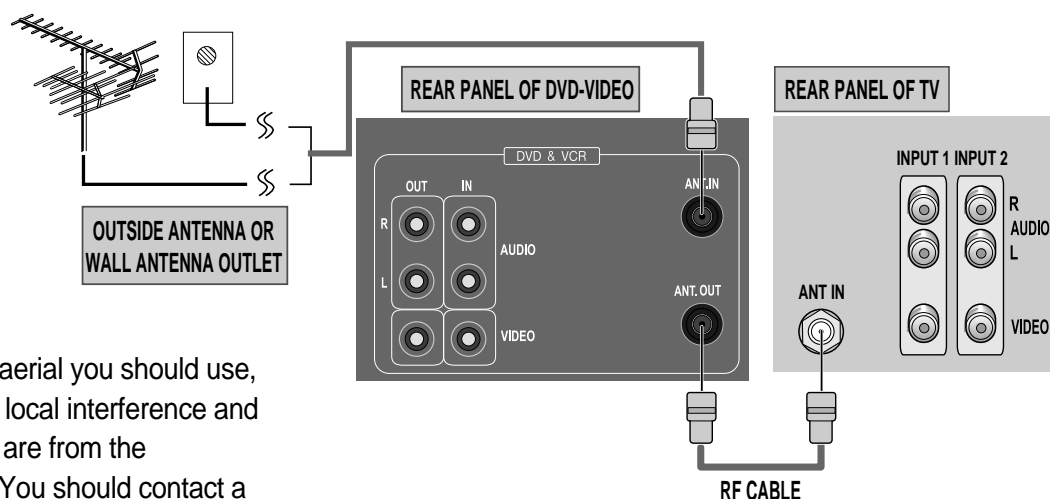
RF CABLE

**Aerial**

The type of aerial you should use, depends on local interference and how far you are from the transmitter. You should contact a local retailer if you have any questions about your aerial.

**1** Remove circular cable (RF cable) (surplus cable) plugged in "ANT.IN" jack in rear panel of TV. Connect the cable to "**ANT**" jack in rear panel of DVD-Video.

**2** Connect TV to DVD-Video. Connect "**TV**" jack in DVD-Video with "**ANT.IN**" jack in TV with RF cable.

In option (1) you need to tune your television to the player so you can see the picture from the player. When it is on the player generates a signal on UHF transmission channel 36, but this might change after tuning in the stations with 'AUTO-SEARCH' . See the 'Check it out' box on page 16. See your television manual for how to tune in a new channel.

## ▄▄▄▄ (Option 2) - How to Connect with Audio/Video jack



**REAR PANEL OF DVD-VCR**

**REAR PANEL OF TV**

OUTSIDE ANTENNA OR ALL ANTENNA OUTLET

DVD & VCR — OUT IN AUDIO VIDEO ANT.IN ANT.OUT

INPUT 1 INPUT 2 — R AUDIO L VIDEO — ANT IN

RF CABLE
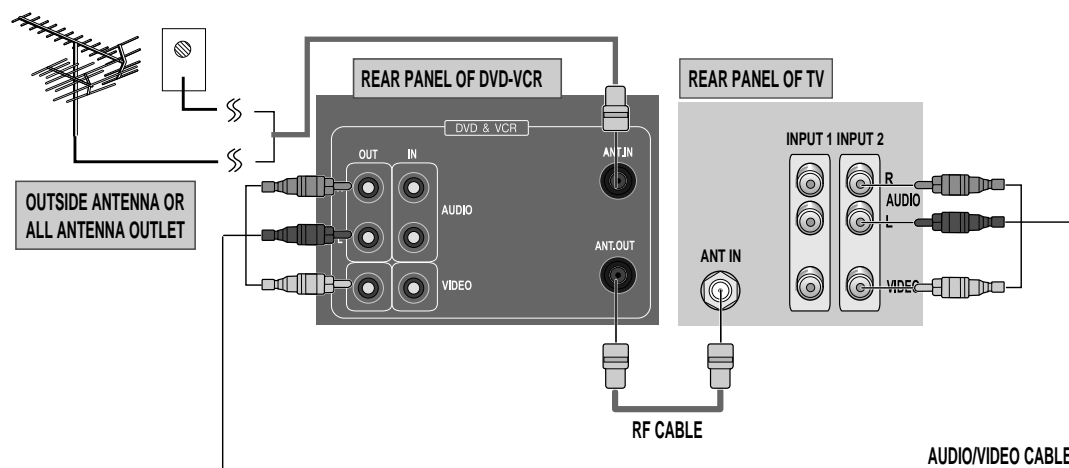
AUDIO/VIDEO CABLE

**3** (If there is **AUDIO/VIDEO INPUT** jack in TV)

Connect **VIDEO OUT** jack in DVD-Video to **VIDEO IN** jack in TV, and **AUDIO OUT** jack in DVD-Video to **AUDIO IN** jack in TV with connecting cable of Audio/Video jack.
Select VCR mode by pressing TV/INPUT button in TV, you can view more clear screen and sound than connection with RF cable only.

- VHF: 2~13 channels of TV
- UHF: 14~69 channels of TV
- CATV: Broadcasting is transmitted with cable from broadcasting station by contract with the station and consumers. It does not need any antenna.
- In/Out jack in Audio/Video terminal:
  - In: A jack used to receive signal required in this unit from other units.
  - Out: A jack used to send signal of this unit to other units.
- Connect with Audio/Video terminal, you can enjoy more clear video and audio.
  (Use OUTPUT button in this REMOTE to select video mode.)

# Connecting with Other VCR or Camcorder

## ▬▬ How to Connect with Jack in Front Panel

REAR PANEL OF VCR (CAMCORDER)

FRONT PANEL OF DVD-VIDEO

STANDBY/ON

VIDEO    (L) AUDIO (R)

OUT

VIDEO    AUDIO    Q.COPY    REC    CHANNEL +

REAR PANEL OF DVD-VIDEO

REAR PANEL OF TV

DVD & VCR

OUT    IN                    ANT.IN

AUDIO

INPUT 1  INPUT 2

R

AUDIO

L

ANT.OUT

ANT.IN

VIDEO

VIDEO
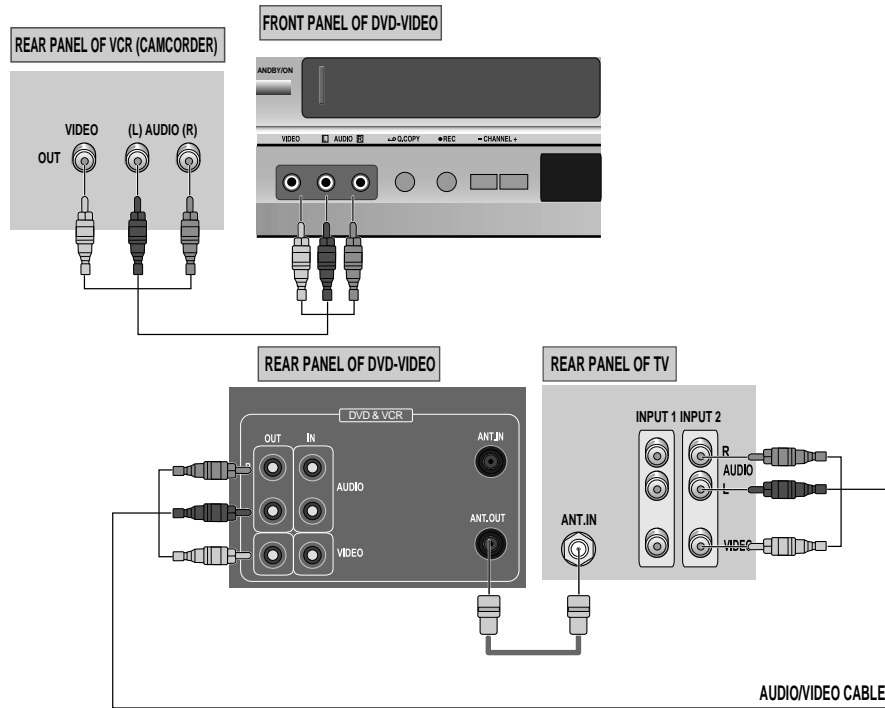
AUDIO/VIDEO CABLE

## ▬▬ How to Connect with Jack in Rear Panel

REAR PANEL OF PLAYBACK VCR (CAMCORDER)

REAR PANEL OF DVD-VIDEO

REAR PANEL OF TV

DVD & VCR

OUT    IN                    ANT.IN

AUDIO

VIDEO    (L) AUDIO (R)

OUT

INPUT 1  INPUT 2

R

AUDIO

L

ANT. OUT

ANT.IN

VIDEO

VIDEO

RF CABLE
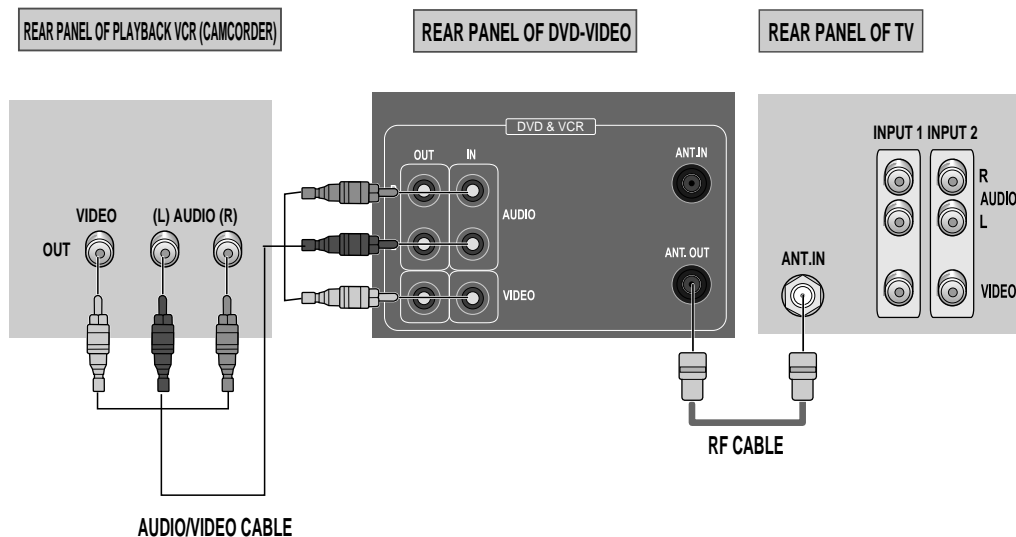
AUDIO/VIDEO CABLE

**1** Connect AUDIO/VIDEO OUT jack in Camcorder (or playback video) to AUDIO/VIDEO IN jack in rear panel (or front panel) of DVD-Video with connecting cable.

**2** Connect "ANT. IN" jack in TV to "TV" jack in DVD-Video with RF cable.

**3** To record contents of camcorder or playback video with DVD-Video, insert recording tape attached recording tab in DVD-Video.

## How to Copy (Edit) Tape with Other VCR or Camcorder

**1** Turn on DVD-Video.

**2** Press [OUTPUT] button of remote control and adjust DVD-Video to display "AV" or "AV.F" in TV screen.

**3** Press [PLAY] button in Camcorder or playback video.

**4** Press [REC] button in DVD-Video if you want to record contents of camcorder or playback video.

**5** Press [Pause] button in DVD-Video when unnecessary or undesired scene is displayed in recording.

**(Caution) Recording is released automatically after 5 minutes since pressing [PAUSE] button. Press [REC] button if you want to record again.**

## How to Playback Chapter Photographed by Camcorder

**1** Turn DVD-Video on.

**2** Press [OUTPUT] button of remote control and adjust DVD-Video to display "AV" or "AV.F" in TV screen.

**3** Insert tape in camcorder and playback it.

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# Connecting with Audio

## ◼ How to Connect with Stereo Unit such as Audio

| REAR PANEL OF STEREO UNIT | REAR PANEL OF DVD-VIDEO |
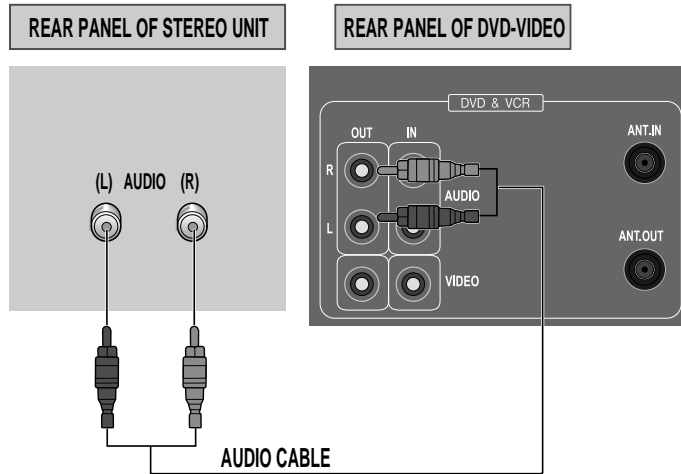


**1** Connect Audio jack. Connect AUDIO OUT in rear panel of DVD-Video to IN jack of stereo sound unit.

**2** For Input Select in stereo unit, Select "External Input" connected with DVD-Video.

**3** Playback DVD disc or Hi-Fi videotape, you can hear sound in speaker of stereo unit.

# Connecting to a television with Component jack and a Dolby Digital Amp.

■ Use in COMPONENT In jack attached in TV or amp supporting Dolby Digital.

## How to Connect

REAR PANEL OF DVD-VIDEO

DVD & VCR

AUDIO OUT    COMPONENT OUT
R              Y
OPTICAL
L              Pr
DIGITAL AUDIO OUT    COAXIAL    Pb

OUT    IN          ANT.IN

AUDIO

VIDEO          ANT. OUT

CONNECTING CABLE
(NOT SUPPLIED)

COAXIAL OPTICAL    (L) AUDIO (R)

S-VIDEO    Pr    Pb    Y

COMPONENT IN

DOLBY DIGITAL DECODER-AMPLIFIER

TV CONNECTIONS
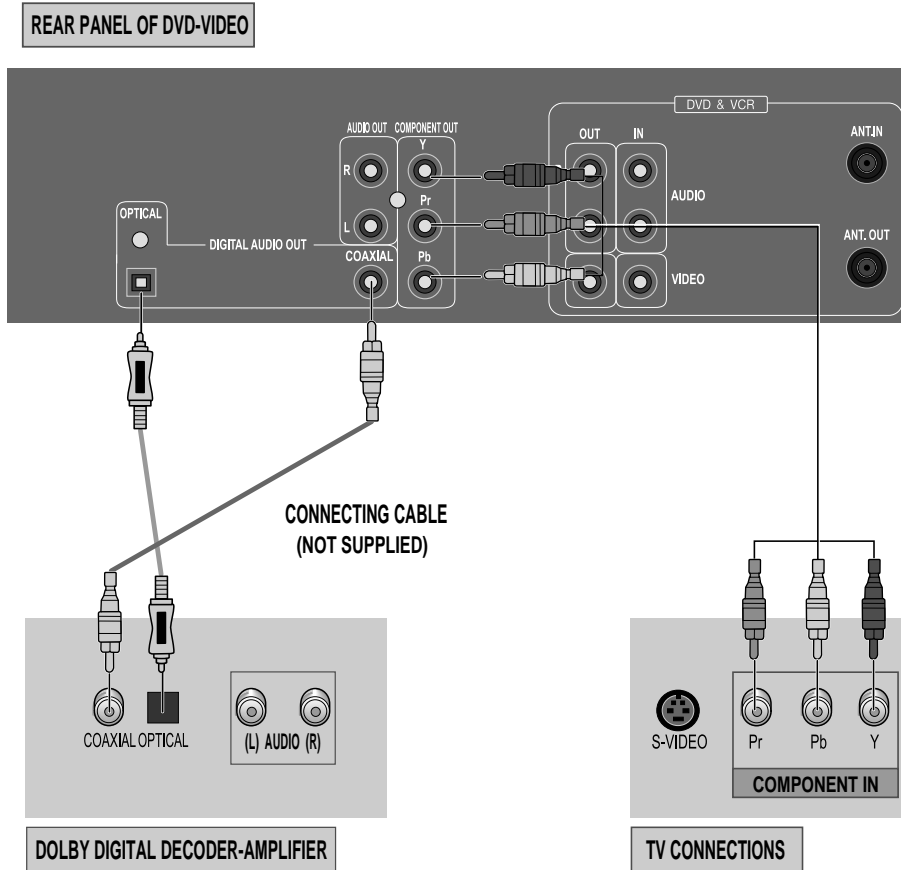
Manufactured under license from Dolby Laboratories.

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

# Initial Set-up and tuning

■ Switch the TV on.
■ You can also start "AUTO SEARCH" from the "PR PRESET" menu by pressing buttons [VCR], [SETUP], [ ], [OK] and [OK] again.
■ To tune in new stations (manual tuning) and to enter station names see page 24-25.

## ▬▬ Setting up the player

**CHECK IT!**

● If you don't see the menu picture below after you press the menu button it may be because you don't use a RCA cable and you need to tune the television to the player (see 'Connecting your player through RF lead' on page 10). Normally a new player outputs a signal via the RF lead on 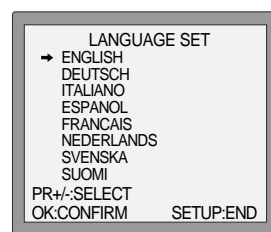transmission channel 36. Search for the menu picture with the channel tuning function of your TV set (see its user manual). Some televisions allow you to key in the transmission channel number in their tuning set-up menu.

● In case there will be interference problems with other transmission channels when the player outputs a signal on transmission channel 36, the AUTO SEARCH process usually recommends an alternative, as in step 3.

● There is a another way of setting RF output channel, if needed please see 'Connections and Assembling on page 31'. It does not apply to models which do not generate the RF output signal.

**1** Press ⏻ on the remote control and RF36 will be displayed on the front of your player.
Select a free channel on your TV and manual tune the channel until the blue screen as shown in step 2 appears. Refer to the TV manual for more details.

```
RF 36
```

**2** You should see this picture the first time you switch on the TV and player.

Select the wanted language with **PR+** or **PR-** button. Press **OK** to confirm.

```
         LANGUAGE SET
  ➜ ENGLISH
    DEUTSCH
    ITALIANO
    ESPANOL
    FRANCAIS
    NEDERLANDS
    SVENSKA
    SUOMI
  PR+/-:SELECT
  OK:CONFIRM       SETUP:END
```

**3** Then choose your country.

```
         COUNTRY SET

  ➜ AUSTRALIA
    NEW ZEALAND


  PR+/-:SELECT
  OK:CONFIRM       SETUP:END
```
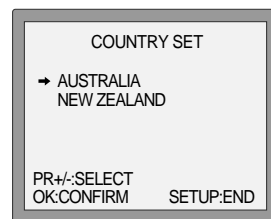
**4** **OK for "AUTO SEARCH!".**
"AUTO SEARCH" tunes in all the stations you can receive in your country and sorts them in an order common for your country.
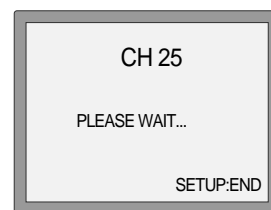
**In case of the auto search is not able to receive some CH's, you can receive the CH using the manual tuning. (See on page 24)**

```
         CH 25

     PLEASE WAIT...

                  SETUP:END
```

**5** If the clock has not been set, the clock setting screen will appear.

Please see "Setting time and date" on page 18.

```
        CLOCK SET

   TIME  - - : - -

   DATE  - - / - - /- - - -

0-9:SETUP (HOUR)
</>:CORRECT      SETUP:END
```

**6** If other stations are positioned on near the current RF OUTPUT CHANNEL, the guide message appears automatically.

The player recommends the optimal RF OUTPUT CHANNEL number automatically.

```
      RF OUTPUT SET


   CURRENT          CH 36
   RECOMMENDED      CH34
0-9:SELECT(21-69)
OK:CONFIRM       SETUP:END
```
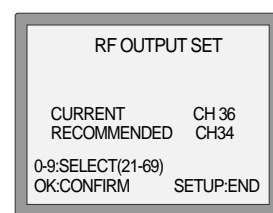
**7** Press the [OK] button to confirm the recommended RF output channel.

● If the signal from the player is coming into the TV through the RF lead, the picture will disappear when you press OK at step 8. You will need to re-tune your television to the new UHF transmission channel.
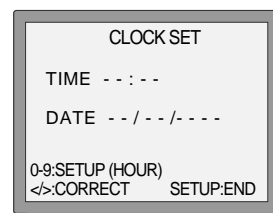
```


        IMPORTANT!
   PLEASE CHANGE THE TV
   CH TO 34.


```
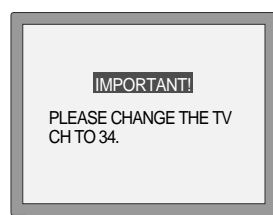
**8** Should you wish the stations to have the same numbers as those used on the TV, follow the instructions in "Sorting programme locations" on page 25.

Else ...
Press the SETUP button to exit the set-up menu and enjoy your player.

```
        MANUAL SET
 ➔ PR01 P-01    PR08 P-08
   PR02 P-02    PR09 P-09
   PR03 P-03    PR10 P-10
   PR04 P-04    PR11 P-11
   PR05 P-05    PR12 ----
   PR06 P-06    PR13 ----
   PR07 P-07    PR14 ----
PR+/-:SELECT
OK:CONFIRM      SETUP:END
```
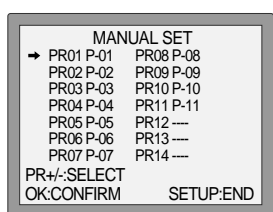
## Up [PR+], down [PR-], OK and 'confirm'

● Notice the on-screen prompts which the video recorder generates to tell you which button to press? In general the up and down 'navigation' buttons select or highlight something and the OK button confirms it.
● [PR+] and [PR-] are the same buttons as 'up' and 'down'.
● In the DVD section it is usually the left and right buttons which 'select'.

# Setting time and date

## Setting time and date

■ Press [VCR] button on the remote control to change into VCR Mode and follow the procedure
below.

**1** Call the player's "SETUP",
choose "VCR SETUP", then "CLOCK SET".

```
        CLOCK SET

  TIME  - - : - -

  DATE  - - / - - /- - - -

0-9:SETUP (HOUR)
</>:CORRECT        SETUP:END
```

**2** Move to the position you want to change and type in the
new values.
Wait a few seconds after typing a one-digit number.

Store with [OK] button and exit with [SETUP] button.

```
        CLOCK SET

  TIME  06:05

  DATE  13/07/2003(SUN)

0-9:SETUP (HOUR)
</>:CORRECT
OK:CONFIRM        SETUP:END
```

# OSD ON & OFF

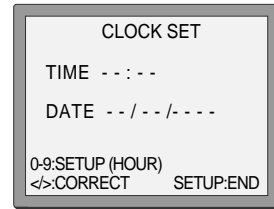## OSD (On Screen Display) ON & OFF

This player is set to "OSD (On Screen Display) ON" mode before shipping and you can change it
to OFF mode.

**1** Call the player's "SETUP".

```
          SETUP

➜ TIMER PROGRAM
  PR PRESET
  VCR SETUP
  TAPE CONTROL

PR+/-:SELECT
OK:CONFIRM        SETUP:END
```
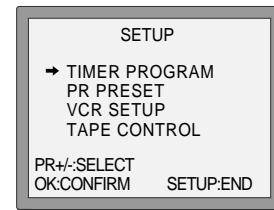
**2** Choose "VCR SETUP".
And press the [OK] button.

```
        VCR SETUP
  CLOCK SET
  LANGUAGE SET
  RF OUTPUT SET
➜ OSD ON/OFF

PR+/-:SELECT
OK:CONFIRM        SETUP:END
```
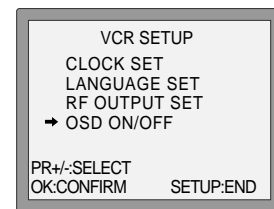
**3** Select "OSD ON/OFF".
If you want OSD OFF mode, select it and press [OK] button to
confirm.
Then OSD characters are not displayed in the normal picture.

```
        OSD ON/OFF

➜ ON
  OFF


PR+/-:SELECT
OK:CONFIRM        SETUP:END
```
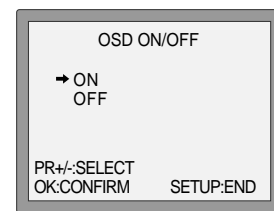
# Output Select

## To Select DVD

**Press [DVD] button.**
If DVD mode is correctly selected, DVD on the operation display
window is lit. Then, REMOTE button works as DVD function.  Press the
[DVD] button, then the mode of DVD-Video Player becomes to the
OPERATION mode.

## To Select VCR

**Press [VCR] button.**
If VCR mode is correctly selected, VCR on the operation display window
is lit and DVD goes out. Then, REMOTE button works as VCR function.
Press the [VCR] button, then it becomes to the VCR OPERATION mode.

## To Select Watch Modes or External Input

**Press [OUTPUT] button.**
Whenever you press [OUTPUT] button, DVD, VCR PLAYBACK, BROADCASTING RECEPTION and
EXTERNAL INPUT is selected in order and the DISPLAY of DVD and VCR will be changed accordingly.

# DVD Playback

**1** **Press [ ⏻ ] button to power on.**
Press [DVD] button of REMOTE to change into DVD mode.

**2** **Press [OPEN/CLOSE] button to open the disc tray.**
Place a disc firmly on the disc tray, making its label look upward.

**3** **Insert the disc and press [OPEN/CLOSE] button to close the tray.**
The disc tray is closed and after checking the disc's condition, Playback or Stop function starts to operate.

**4** **To playback it, press [PLAY/PAUSE] button.**
● **In the case of DVD,**
   DVD menus and titles are displayed on TV screen.
● **In the case of S-VCD and VCD2.0**
   the menus are displayed on TV screen and it is converted into PBC (Playback Back Control) mode.
● **In the case of CD, VCD1.1 and MP3,**
   the disc plays in order of its track numbers.

**5** **To stop it, press [ ■ ] button.**
For pause, press [PLAY/PAUSE] button in playback mode.
If you press this button once more, it starts playback again.

**6** **Press [OPEN/CLOSE] button to remove the disc.**

---

**Various Playback Methods**

■ **If you want fast forward (or reverse) playback**, press [ ▶▶ ] or [ ◀◀ ] button in Playback mode. You can watch fast playing (reverse ) screen.
  \* This reverse playback can be unavailable for certain DVD. Unavailable for MP3.

■ **If you want slow (or reverse) playback**, press [ ▶▶ ] or [ ◀◀ ] button in Pause mode.  You can watch the desired screen in the slow forward (reverse) playback.
  \* For the case of Video CD, this reverse slow playback function is unavailable. The ⊘ mark will appear.

■ **If you want still picture**, press [PAUSE] button  in Playback mode.  You can watch the desired screen in Pause status.

# VCR Playback

*1* **Press [ ⏻ ] button to power on.**
Press [VCR] button of remote control to change into VCR mode.

*2* **Insert the desired tape.**

*3* **If you want to playback it, press [PLAY/PAUSE] button.**
When the operational status is flickering or poor, adjust it with [TRACKING +/-] button.

*4* **To stop it, press [ ■ ] button.**
For pause, press [PLAY/PAUSE] button in playback mode.
If you press this button once more, it starts playback again.

*5* **Press [EJECT] button in the front part or [OPEN/CLOSE] button on remote control to remove the tape.**

---

**Various Playback Methods**

■ **If you want fast forward (or reverse) playback**, press [ ▶▶ ] or [ ◀◀ ] button in Playback mode. You can watch fast playing (rewinding) screen.

■ **If you want Still picture**, press [PLAY/PAUSE] in Playback mode. You can watch the desired screen in pause status.

■ **If you want slow-motion playback**, press [▶▶] button in Pause mode. You can watch the desired screen in the slow forward playback.

*NOTE: VCR doesn't have Slow Reverse Playback function.*

■ **If you want to watch a series of screens one by one**, (FRAME ADVANCE) press [NEXT ▶▶I] button in Pause mode. Each time you press this button, the picture advances one frame.

*If the product, which has a auto-detector, detects a contaminated head(s), it shows the conditions to notice the contamination on screen.*

*\* In case of the notice on screen, please rub the heads with a head-cleaner followed by "How to use a head-cleaner".*

**To Adjust Display**
This product includes automatic Tracking function and enables users to enjoy clear picture without an additional operation. Provided that the following problems can be solved by the manual adjustment, which improves display quality. (During automatic display adjustment, "Adjusting Display" are displayed on TV screen.)
**- If the screen is poor in Playback mode,**
**- If noises occur in the upper or lower part of screen in slow playback mode,**
**- If paused picture vibrates up and down.**
Use [TRACKING +/-] buttons of remote control to adjust the display suitable for watching.

# Recording

## To Record With VCR

**1** **Press [ ⏻ ] button to power on.**
● Press [VCR] button of remote control to change into VCR mode.

**2** **Insert a recordable tape.**
Insert a tape with recording tab.

**3** **With [CHANNEL], [NUMBER] and [OUTPUT] buttons, select the desired broadcasting channel or external input unit to record.**

**4** **Select the desired speed (SP or LP) with [SPEED] button.**

**5** **Press [REC] button.**
Then, it starts recording.

**6** **If you want to pause recording, press [PAUSE] button.**
After pressing [PAUSE] button, if the pause status continues for five minutes, the recording is released automatically.

**7** **To exit recording, press [STOP] button.**

## To Enjoy Another TV Channel or DVD during recording

**1** **If you want to watch another TV channel during recording with video, press [TV/VCR] button.**

It is available of changing into and watching another TV channel.

**2** **If you want to playback DVD during recording with video, insert a DVD disc.**

Place the desired DVD disc on DVD tray, press [DVD] button to convert OUTPUT into DVD mode and press [PLAY] button. Then, you can watch DVD.

## ▬▬ To Copy From DVD To Videotape

*To copy just with buttons of remote control, after playing DVD, press [VCR] button and then [REC] button.*

**1** **Insert the desired DVD disc.**
When it is a DVD disc with copy protect function, you can't copy it.
Insert a recordable tape.

**2** **Press [QUICK COPY] button on the front panel.**
DVD plays and VCR starts recording.

**3** **To exit copy, press [VCR] button and then [ ■ ] button.**
If not, DVD plays again and video continues to copy.

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 authorised by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

## ▬▬ One Touch timer Recording (OTR)

■ When your urgent business happens suddenly in watching TV or you want to record the current TV program for the desired time, follow the procedures below.

**1** **First, follow the steps 1 to 4 in "Recording With VCR".**

**2** **Press [REC] button as much as you want. See the "Recording Times Table" below.**

| | |
|---|---|
| Once | continuous recording until you press STOP button |
| Twice | recording for 30 mins from current time |
| 3 (times) | recording for 1 hour |
| 9 | recording for 4 hours |
| 10 | returning to the status of Once Press |

**3** **To stop Recording mode, press [STOP] button more than 5 seconds.**
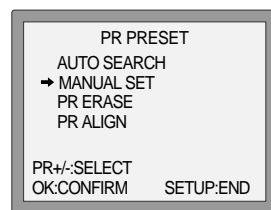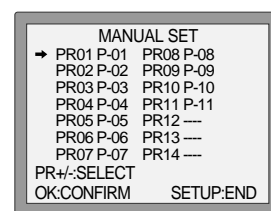
**Basic Operation**

# Tuning in New Stations

■ The TV and player are switched on.
■ On the television, select the channel for viewing the VCR-DVD player.
■ Press the [VCR] button to assume control of the VCR part.
■ The up [PR+], down [PR-], left [<] and right [>] navigation buttons are illustrated on page 16, 'Initial Set-up and tuning'.
■ "AV/AV-F" should not be selected with the OUTPUT button on the player.

## Tuning

**1** To complete the set-up of your video recorder when the auto search has not stored all of the channels or when you wish to store a new channel.
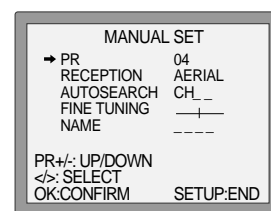Press [SETUP] and select "PR PRESET", then press [OK].

```
           PR PRESET
    AUTO SEARCH
  ➜ MANUAL SET
    PR ERASE
    PR ALIGN

  PR+/-:SELECT
  OK:CONFIRM      SETUP:END
```

**2** Select "MANUAL SET" and press [OK].
Choose any unused location number "----" or "P-xx"...

It's simplest to use the same location number on both the TV and video.

```
            MANUAL SET
  ➜ PR01 P-01   PR08 P-08
    PR02 P-02   PR09 P-09
    PR03 P-03   PR10 P-10
    PR04 P-04   PR11 P-11
    PR05 P-05   PR12 ----
    PR06 P-06   PR13 ----
    PR07 P-07   PR14 ----
  PR+/-:SELECT
  OK:CONFIRM      SETUP:END
```

**3** Press [OK] to confirm and display the 'manual set' menu.

```
            MANUAL SET
  ➜ PR             04
    RECEPTION      AERIAL
    AUTOSEARCH     CH_ _
    FINE TUNING    —+—
    NAME           _ _ _ _

  PR+/-: UP/DOWN
  </>: SELECT
  OK:CONFIRM      SETUP:END
```
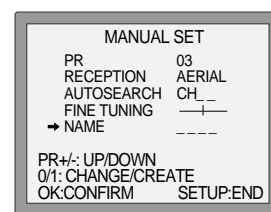
**4** Set the station you want:
● The programme location number;
● The broadcast system you want (Aerial (CH) or Cable (CC)),
● You can directly enter the real channel number with the [0 to 9] buttons, or search by pressing [< / >],
● The fine tuning you can adjust,
● Change or create the station name.

```
            MANUAL SET
    PR             03
    RECEPTION      AERIAL
  ➜ AUTOSEARCH     CH 03
    FINE TUNING    —+—
    NAME           _ _ _ _

  PR+/-: UP/DOWN
  </>: SELECT
  OK:CONFIRM      SETUP:END
```
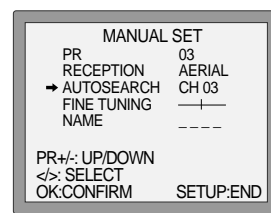
**5** Once you see the station you want, store it.

Tune in further stations (from step 3 onwards) or exit tuning mode.

```
            MANUAL SET
    PR             03
    RECEPTION      AERIAL
    AUTOSEARCH     CH_ _
    FINE TUNING    —+—
  ➜ NAME           _ _ _ _

  PR+/-: UP/DOWN
  0/1: CHANGE/CREATE
  OK:CONFIRM      SETUP:END
```

# Station names

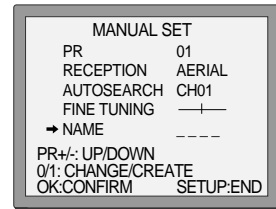■ If your player is showing no station name or is showing a station name incorrectly, you can correct this.

*1* Call this menu (just see the previous page), if it isn't displayed.

Select NAME position.
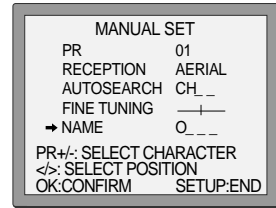Press the [0] button to change the given name.
Or press the [1] button to create the station name.

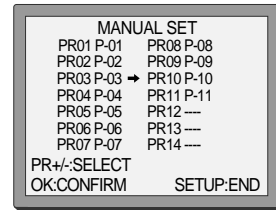```
        MANUAL SET
PR              01
RECEPTION    AERIAL
AUTOSEARCH   CH01
FINE TUNING    —|—
➡ NAME         _ _ _ _
PR+/-: UP/DOWN
0/1: CHANGE/CREATE
OK:CONFIRM      SETUP:END
```

*2* Either select the name from the stored list or you create the station name and enter a 4-digit name.
Change the letters with the [PR +/Đ] buttons, move to the next letter with the [< / >] buttons.

```
        MANUAL SET
PR              01
RECEPTION    AERIAL
AUTOSEARCH   CH_ _
FINE TUNING    —|—
➡ NAME         O_ _ _
PR+/-: SELECT CHARACTER
</>: SELECT POSITION
OK:CONFIRM      SETUP:END
```

*3* Store and exit.

```
        MANUAL SET
PR01 P-01     PR08 P-08
PR02 P-02     PR09 P-09
PR03 P-03  ➡ PR10 P-10
PR04 P-04     PR11 P-11
PR05 P-05     PR12 ----
PR06 P-06     PR13 ----
PR07 P-07     PR14 ----
PR+/-:SELECT
OK:CONFIRM      SETUP:END
```

# Sorting programme locations

If the location numbers used for programmes stored in your TV and player are different, you can change them on the player. To do this, move the stations to the right numbers, until they are arranged the way you want.

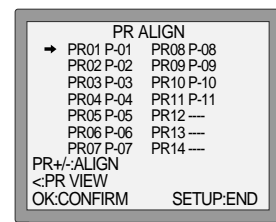*1* Call the player's "SETUP", choose "PR PRESET" then "PR ALIGN".

*2* Select the programme to swap.

Confirm by pressing OK button.
Move the station to the desired location number.
Confirm by pressing OK button.

```
         PR ALIGN
➡ PR01 P-01    PR08 P-08
  PR02 P-02    PR09 P-09
  PR03 P-03    PR10 P-10
  PR04 P-04    PR11 P-11
  PR05 P-05    PR12 ----
  PR06 P-06    PR13 ----
  PR07 P-07    PR14 ----
PR+/-:ALIGN
<:PR VIEW
OK:CONFIRM      SETUP:END
```

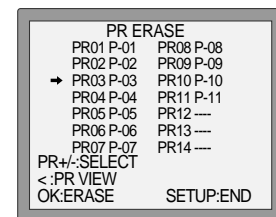# Clearing programme locations

*1* Call the player's "SETUP", choose "PR PRESET" then "PR ERASE".

*2* Select the station (location number) you want to clear.

Review the picture by pressing [<] button.

Clear by pressing OK button.

```
         PR ERASE
  PR01 P-01    PR08 P-08
  PR02 P-02    PR09 P-09
➡ PR03 P-03    PR10 P-10
  PR04 P-04    PR11 P-11
  PR05 P-05    PR12 ----
  PR06 P-06    PR13 ----
  PR07 P-07    PR14 ----
PR+/-:SELECT
< :PR VIEW
OK:ERASE        SETUP:END
```
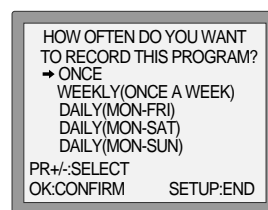
**VCR Operation**

# Timer Recording

- For timer recordings, clock, date, and stations must be set correctly.
- Load a cassette with its safety tab in place and with sufficient free space for the recording.
- Press the [VCR] button to assume control of the VCR part.
- The up [PR+], down [PR-], left [<] and right [>] buttons are illustrated on page 16, 'Initial Set-up and tuning'.

## Normal timer recording

**1**  Press [SETUP] and select "TIMER PROGRAM". Press [OK].
Decide if you want to record "ONCE", "WEEKLY" or "DAILY"...

... and confirm with [OK]

```
HOW OFTEN DO YOU WANT
TO RECORD THIS PROGRAM?
 ➜ ONCE
    WEEKLY(ONCE A WEEK)
    DAILY(MON-FRI)
    DAILY(MON-SAT)
    DAILY(MON-SUN)
PR+/-:SELECT
OK:CONFIRM        SETUP:END
```
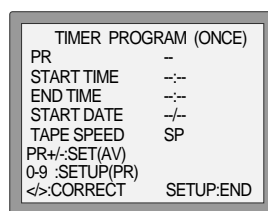
**2**  Type in one after the other:
The programme location number;
- The time the broadcast starts,
- The time the broadcast ends,
- The day of the broadcast, if it is not today.
- Select LP if you wish to make a very long recording .

```
   TIMER  PROGRAM  (ONCE)
PR                    –
START TIME          –:–
END TIME            –:–
START DATE          –/–
TAPE SPEED          SP
PR+/-:SET(AV)
0-9 :SETUP(PR)
</>:CORRECT         SETUP:END
```
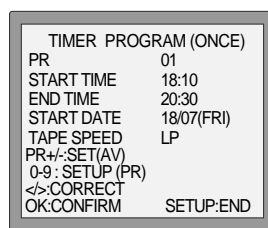
**3**  If you wish to make changes:
Move to the position you want to change using the  [< / >] buttons. Change the setting using the [PR+/- ] or [number] buttons.
If all setting are ok, press [< or  >], till you see "OK : CONFIRM" in the bottom line.
Confirm.

```
   TIMER  PROGRAM  (ONCE)
PR                   01
START TIME          18:10
END TIME            20:30
START DATE          18/07(FRI)
TAPE SPEED          LP
PR+/-:SET(AV)
 0-9 : SETUP (PR)
</>:CORRECT
OK:CONFIRM         SETUP:END
```

**Switch your player off.**    `20:00`

- Wait a few seconds after typing a one-digit-number.
- If you have made a mistake, move to the position you want to change using the [< / >] buttons and change the setting.
- If programme timings overlap, the machine will give a warning message. If you don't adjust the times, the machine will record the first programme completely then continue with the second one.
- If there is no sufficient free space for the recording on the cassette the video switches automatically to "LP" for double recording capacity.
- The recorder will eject cassettes which have the safety tab removed.

## Timer Review - changing and erasing

*1*

Call the player's "SETUP",
choose "TIMER PROGRAM".

```
        TIMER  PROGRAM
   PR   START  END  DATE
 → 03   21:20  22:20 19/07
   01   18:10  20:30 18/07
   --   --:--  --:-- --/--
   --   --:--  --:-- --/--
   --   --:--  --:-- --/--
   --   --:--  --:-- --/--
   --   --:--  --:-- --/--
   --   --:--  --:-- --/--
 PR+/-:SELECT
 OK:CONFIRM      SETUP:END
```

*2*

Select the programming to change or erase.
If you want to erase this programming press
button [0], confirm with OK.
If you wish to make changes:
Move to the position you want to change using the
[< , >] buttons.
Change the settings using the [PR +/-] or
[number]  buttons.
If all settings are ok, press [< or >], until you see
"OK: CONFIRM" in the bottom line.
Confirm changes with [OK]. Exit the menus.

```
    TIMER  PROGRAM (ONCE)
 PR              03
 START TIME      21:20
 END TIME        22:20
 START DATE      19/07(SAT)
 TAPE SPEED      SP

  0 :ERASE
 </>:CORRECT   SETUP:END
```

**VCR Operation**

# More Functions

■ The counter counts in real time from the point you load the cassette. This does not have to be its beginning! The counter does not count unrecorded parts of the tape.

■ If you rewind beyond the zero position, the counter counts in negative values (e.g. -0:01:15).

## Clock / counter display

Each time you press [DISPLAY] button,

1x: Time and date+current status  →  Time and date.

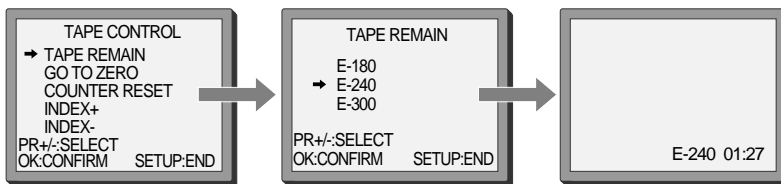2x: Counter+current status  →  counter.

3x: Disappear.

But if you press [CLK/CNT] button, clock and counter on display window will change each other.

```
STOP  SP        PR01   ARD
                   STEREO ON




14:00 13/07      E180  00:48
```

● If didn't wind tape (PLAY, FF, REW,...), it doesn't appear the tape remain time.

● "E180 00:48" in the picture opposite means an E-180 cassette is loaded and remaining play or record time is 48 minutes.

## Remaining time and cassette length

```
    TAPE CONTROL
➜ TAPE REMAIN
   GO TO ZERO
   COUNTER RESET
   INDEX+
   INDEX-
PR+/-:SELECT
OK:CONFIRM    SETUP:END
```
```
    TAPE REMAIN

    E-180
➜  E-240
    E-300

PR+/-:SELECT
OK:CONFIRM    SETUP:END
```
```




           E-240  01:27
```

● Remaining time display is only possible when the cassette is loaded.

When you want the player to show the time remaining from the current player tape position (to find out if there is sufficient space for a recording, for example).
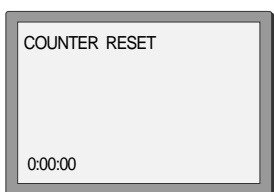
To ensure the remaining time shown is accurate, select the length of cassette currently loaded by selecting this function until you reach the correct length.

## Accessing counter zero position

The player will wind to the position 0:00:00 and stop.

```
REW  SP
GO TO ZERO




0:02:13
```
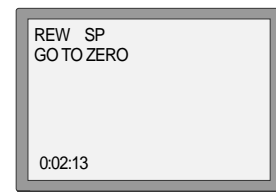
## Resetting the counter to zero

```
COUNTER  RESET




0:00:00
```

Reset the counter.

## and ...

**Dimmer** : Your player dims its display when switched to stand-by mode.
**Auto power off** : Your player switches to stand-by when no tape is played and no station is received for more than 5 minutes.

## AUTO REPEAT

If you press the [PLAY] button for 5 secs during stop or still mode, it goes Auto repeat mode. This player plays repeatedly the tape from the beginning to end parts.

To release this mode, press the [ ⏻ ] button or mode operation button. (PLAY, FF, REW or STOP)

## SETUP languages

Call the player's "SETUP", choose "VCR SETUP", then "LANGUAGE SET".

Select your language.
Confirm.

```
        LANGUAGE SET
  ➜ ENGLISH
    DEUTSCH
    ITALIANO
    ESPANOL
    FRANCAIS
    NEDERLANDS
    SVENSKA
    SUOMI
PR+/-:SELECT
OK:CONFIRM        SETUP:END
```

## Child lock

Press the [ ⏻ ] button for about 5 seconds.
No buttons of front panel can be operated now and LOCK INDICATOR ("LOCK")
will be displayed on window display. Keep your remote control in a safe place.
To release child lock, press any button of the remote control.

## Cassettes
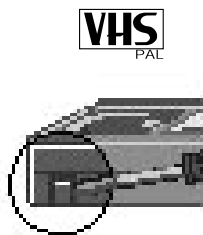


Use only good quality tape cassettes with the VHS logo.
● Keep cassettes away from excessive moisture or dust, magnetic and electrical fields (loud speakers and computer monitors, for example).
● Always wind the tape to the beginning when you have finished. Store with the full spool at the bottom and with the cassette in its cover.
You can protect your precious recordings from being wiped by breaking out the safety tab on the side of the cassette (some cassettes have a slide). Should you wish to re-use the tape after removing the tab, cover the hole with adhesive tape.

VCR Operation

■ The player machine records the complete sound signal transmitted by the TV station.
■ On the mono VCR, you will hear the normal mono sound.

# The Hi-Fi system

In addition to the normal mono sound track of VHS video recorders, your player machine is equipped with a high-quality Hi-Fi sound system.

This means you can enjoy
● films with excellent stereo sound
● films of full-length concerts in high quality stereo
● films with impressive Surround Sound using additional Surround equipment
● films with two dialogue modes (dual, bilingual), usually the original sound track and dubbed sound track
● VHS cassettes with Hi-Fi stereo sound and VHS cassette with normal sound

# What you can listen to

During Stop, the player displays what the current station is broadcasting. When you switch to another station or the current station changes the sound mode, your player displays the programme and sound mode on screen (if not, press AUDIO).
● "STEREO" = stereo
   "BIL I / BIL II" =bilingual
    nothing= monaural sound



STOP  SP        PR10 EURO
                STEREO ON

During Playback, the player displays what is recorded on the cassette (if not, press AUDIO).
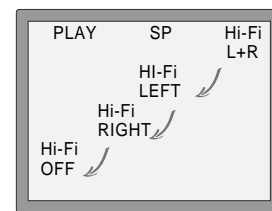¥ "Hi-Fi" = stereo/bilingual
    nothing = monaural sound



PLAY      SP        Hi-Fi
                    L+R

# Choice of sound output

During a stereo performance  (playback-"Hi-Fi"/ broadcast - "STEREO"):
Hi-Fi stereo  →  left audio channel only  →  right channel only  →  the normal mono sound track of a Hi-Fi cassette



PLAY        SP        Hi-Fi
                      L+R
             HI-Fi
             LEFT
          Hi-Fi
          RIGHT
     Hi-Fi
     OFF

● During broadcasting a bilingual performance : Main language (original sound track)  →  sub-language (dubbed)  →  both main language and sub-language.

● For mono performances , there is no choice available.



STOP SP      PR10 EURO
                      BIL
                        I
            BIL
             II
       BIL
       I+II
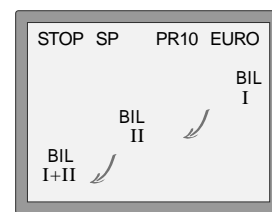
# Connections and Assembling

■ If you are using a RCA cable, select the AV input on the TV to see the picture from the player.
■ If you are not using a RCA cable, select the button number on the TV reserved for the VCR-DVD player.

## Connecting TV via aerial cable (if you are not using a RCA cable)

If you are not using a RCA cable, your player can transmit pictures and sound to the TV via the coax aerial cable. Just tune the TV to the player's transmitting channel (factory set to UHF channel 36). Tune the TV carefully to ensure the best pictures and sound.

*1*
Once you have carried out the steps in "Connecting up the player" , switch on your TV.
Press the [OK] button of the player's remote control longer than 5 seconds to call the player's test picture.
Tune the TV to the test picture using the channel pre-set functions of your TV as described in its manual.
When you have found the test picture, store it under the button number on your TV for player input.
Press the [OK] button of the player's remote control again longer than 5 seconds to release the test picture.
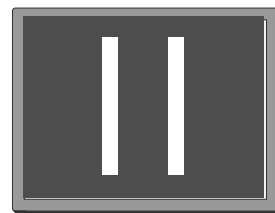
*2*
● If the quality of the test picture transmitted to the TV is poor due to interference caused by a station transmitting on channel 36, you can tune the player to a different transmitting channel. Find a free channel between 21 and 69 on your TV.

Call the player's "SETUP" choose "VCR SETUP" then "RF OUTPUT SET".

Type in the free channel.

Store and exit.

```
          RF OUTPUT SET

      CH            36

0-9:SELECT (21-69)
</> :SELECT (BG/DK)
OK:CONFIRM     SETUP:END
```
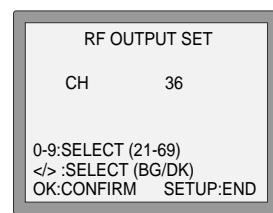
● If the quality of the test picture transmitted to the TV is poor, fine-tuning on the TV may help (refer to the TV manual).
● Without a RCA cable, you will not get stereo sound from a TV capable of stereo sound.

# ▬▬ Assembling

Should you wish to assemble your own film, from camcorder footage for example, use the assembly technique for smooth edit points:

---

- Move the tape to the position at which the new scene is to be added using the play functions.

  VCR

- Wind back slightly before the edit point and put the machine into pause using the [PAUSE] button (do not press STOP!).

  ⬤⬤

- Now go directly into record.

  ⊡

For the best results, the source cassette from which you are recording should already be playing back when you start recording.

# Playing a desired scene

## To skip scenes in a disc

DVD

VCD

VCD2.0

CD

MP3

**To move to next chapter (or track), press [ ▶▶I NEXT] button.**
The current chapter (or track) moves to the next chapter (or track).

**Press [ I◀◀ PREV] button.**
The current scene moves to the previous chapter (or track) or first scene of current chapter (or track).

## Directly moving to a desired title (DVD)

■ Some movie discs may contain multiple titles. If the disc has a movie title menu recorded on it, the [TITLE] button can be used to select the movie title. Details of operation may differ depending on the disc used.
  * Selecting a title may not be available on certain DVD discs.

DVD

**1** **Press the [TITLE] button.**
A list of the titles on the disc is displayed. Pressing the [TITLE] button again to resume play from the scene when the [TITLE] button was first pressed.

**2** **Press the [ENTER] button or [PLAY] button after pressing the [< > ∧ ∨ ] button to select the desired title.**

The selected title now starts playing.

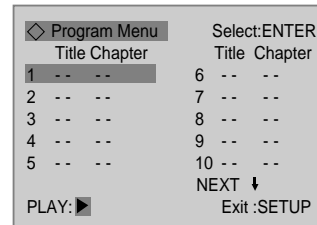## Playing a programmed order

■ Available only in STOP.

DVD

VCD

CD

**1** **While STOP, press [PROGRAM] button.**
While the right figure is appearing, please input desired Title (T) and Chapter (C) number with NUMBER buttons.
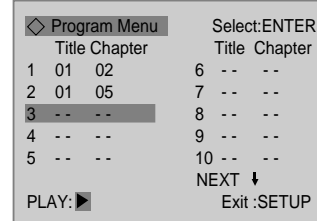  * In case of VCD and CD, please input TRACK Number.

```
◇ Program Menu      Select:ENTER
   Title Chapter        Title Chapter
1  - -   - -          6  - -   - -
2  - -   - -          7  - -   - -
3  - -   - -          8  - -   - -
4  - -   - -          9  - -   - -
5  - -   - -         10  - -   - -
                       NEXT ↓
PLAY: ▶               Exit :SETUP
```

**2** **After completing setting, press [PLAY] button.**
Then, titles and chapters (track) are played in the above-programmed order.
  * To exit from Program mode, press the STOP button.

```
◇ Program Menu      Select:ENTER
   Title Chapter        Title Chapter
1  01   02           6  - -   - -
2  01   05           7  - -   - -
3  - -   - -          8  - -   - -
4  - -   - -          9  - -   - -
5  - -   - -         10  - -   - -
                       NEXT ↓
PLAY: ▶               Exit :SETUP
```

*Playing a desired scene*

# Repeating a defined period

DVD

VCD

CD

MP3

Each time you press [REPEAT] button in playback mode, repeat playback starts as below.

- DVD : Rep. Chapter  -->  Rep. Title  -->  Rep. Off

- VCD : Rep. One  -->  Rep. Disc  -->  Rep. Off

- CD : Rep. One  -->  Rep. Disc  -->  Rep. Random  -->  Rep. Off

- MP3 : Rep. One  -->  Rep. Dir  -->  Rep. Disc  -->  Rep. Random  -->  Rep. Off

- Rep. Chapter : Current chapter will be repeatedly playback.
- Rep. Title : Current title will be repeatedly playback.
- Rep. One : Current track will be repeatedly playback.
- Rep. Disc : Current disc will be repeatedly playback.
- Rep. Random : Tracks in the disc will be playback in random order.
- Rep. Dir : Current directory in MP3 disc will be repeatedly playback.
- Rep. Off : Repeat playback will be cancelled.

# Repeating a defined period from A to B (DVD, VCD, CD)

■ You may repeat a defined period from A to B.

DVD

VCD

CD

*A MP3 disc may not be repeated from A to B.*

*1* **At the point where you want to start the repeat playback, press [A-B] button.**
The right figure appears and repeat playback start position (A) is set.

Rep. A-

*2* **At the point where you want to end the repeat playback, press [A-B] button again.**

The repeat playback end position (B) is set and a defined period from A to B is playback repeatedly.

Rep. A-B

*3* **To exit from repeat playback mode, press [A-B] button.**
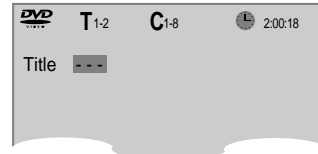It enters into Normal Playback mode.

Rep. Off

## Searching DVD with a title number, a chapter number or a time

DVD

*1* **If you want to search with a title number, press [SEARCH] button one time.**
It shows total title numbers, chapter numbers and times.
Please enter the new title number to be searched using the [NUMBER] buttons.

DVD  T1-2  C1-8  2:00:18
Title  - - -

*2* **If you want to search with a chapter number, press [SEARCH] button twice.**
Please enter the new chapter number to be searched using the [NUMBER] buttons.

DVD  T1-2  C1-8  2:00:18
Chapter  - - -
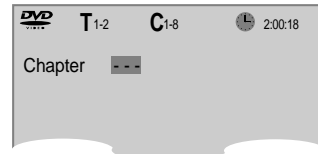
*3* **If you want to search with a time, press [SEARCH] button three times.**
Please enter the new time to be searched using the [NUMBER] buttons.
**In completing entering, please press [ENTER] button.**
PLAY starts from the selected position.

DVD  T1-2  C1-8  2:00:18
Time - - : - - : - -
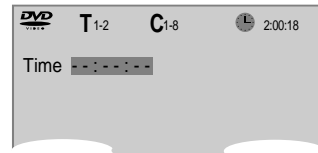
## Searching VCD and CD with a time or track time

■ Details of operation may differ depending on the disc used.

VCD

CD

*1* **If you want to search with a time, press [SEARCH] button one time.**
In case of PBC OFF, the screen like the right figure appears.
Please enter the new time to be searched using the [NUMBER] button.

*If it is PBC ON, above search screen doesn't appear.*

VCD  T1-2  LR  OFF  00:45/30:35
Time  - - -

*2* **If you want to search with a track time, press [SEARCH] button twice.**
In case of PBC OFF, the screen like the right figure appears.
It shows current track's time.
Please enter the new track time to be searched using the [NUMBER] button.

*If it is PBC OFF, only the track's time appears.*

VCD  T1-2  LR  OFF  00:45/30:35
Track Time  - - -

*3* **In completing entering, please press [ENTER].**
PLAY starts from the selected position.

**DVD Operation**

# Confirming the current PLAY mode on screen

## ▬▬ Confirming the current DVD disc mode

**DVD**

**1** **While in playing, press [DISPLAY] button.**
It shows the disc type, current title, current chapter and time elapsed.

| DVD | T 1-2 | C 1-8 | 2:00:18 |

**2** **Press [DISPLAY] button again.**
It shows the DVD disc logo, subtitle selected, audio selected, Dolby Digital logo, repeat playback mode and current angle.

**To exit from Display mode, press [DISPLAY] button again.**

## ▬▬ Confirming the current VCD, CD disc mode

**VCD**

**CD**

**1** **While in playing, press [DISPLAY] button.**
It shows the disc logo, current track, subtitle selected, audio selected, repeat playback mode, time elapsed and equaliser bar.

*In case of CD, subtitle and equaliser bar indicator will not appear.*

| VCD | T 1-2 | 1 | LR | OFF | 00:45/30:35 |

## ▬▬ Confirming the current MP3 disc mode

**MP3**

**1** **While in playing**
It shows the MP3 File information in disc, the directory, MP3 File name and directory list.
With [ < > ∧ ∨ ] buttons, you can move the cursor to directory or number of MP3 Music File. To go to desired directory or to playback MP3 File, press [ENTER] button.
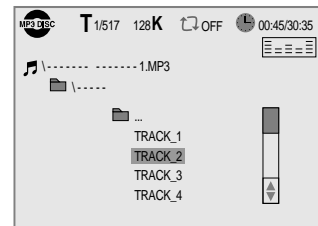
*The information of MP3 File means the disc type, current track, the amount of MP3 File, repeat playback mode, time elapsed and equaliser bar.*

| MP3 DISC | T 1/517 | 128 K | OFF | 00:45/30:35 |

DIR_1
DIR_2
DIR_3
DIR_4
DIR_5
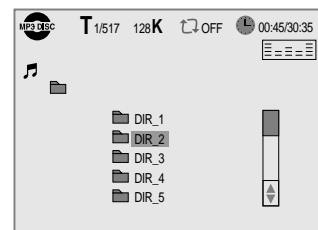
**2** **At the desired directory position, press [ENTER] button.**
It shows the track list.

| MP3 DISC | T 1/517 | 128 K | OFF | 00:45/30:35 |

\-------- --------1.MP3
\-----
...
TRACK_1
TRACK_2
TRACK_3
TRACK_4

# Selecting an AUDIO language, SUBTITLE language and 3D AUDIO

## Selecting an audio language

■ The user may select an audio language and subtitle language if a disc includes Multi-language.

DVD

*A certain disc may not support audio select or subtitle select.*

**Keep pressing [AUDIO] button till the user's preferred language appears.**

If DVD disc includes audio information, every time the user presses [AUDIO] button, English (ENG), French (FRE), Spanish (SPA) and others appear one by one.

DVD ■ ENG/3 ◄ ENG2CH/3 □□DI ↻ OFF 🎥1/1

## Selecting a subtitle language

DVD

**Keep pressing [SUBTITLE] button till the user's preferred language appears.**

If a DVD disc includes subtitle information, every time the user presses [SUBTITLE] button, English (ENG), French (FRE), Spanish (SPA) and others appear one by one.

DVD ■ ENG/3 ◄ ENG2CH/3 □□DI ↻ OFF 🎥1/1

## Selecting 3D Audio

DVD

VCD

CD

*This 3D function is operational only when the Audio Output is set to the Analog or SPDIF/PCM.*

■ Sound Fields and Graphics Equaliser can be set.

**Please press [3D] button.**

If the right figure appears, move the cursor with [ < > ∧ ∨ ] buttons.
The user may select a "Sound fields" among Standard, Theater, Amphitheater, Live, Concert, Church, Wide, Hall or Stadium.
Also, select a "Graphics equaliser" among Standard, Classic, Rock, Jazz, Pop or User.

*\* When setting graphics equaliser, sound fields changes to "Standard" automatically.*

| Sound fields | Standard |
|---|---|
| Graphics equaliser | Standard |
| | +8dB |
| | - 8dB |

37
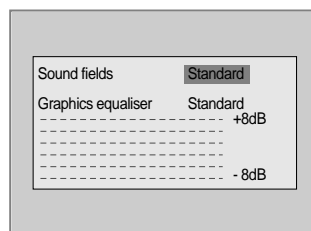
# Selecting ZOOM and Multi Angle

## Using a zoom function

■ The user can enlarge the current screen about 1.3 or 2 times.

DVD

VCD

*For the case of VCD, only 2 times Zoom is available.*

**Keep pressing [ZOOM] button till the preferred zoom appears.**
Every time the user presses [ZOOM] button, a zoom magnification changes 1.3 times (X1.3) → 2 times (X2) → OFF → 1.3 times (X1.3) → ... one by one. A base point to be enlarged is centre and the point can be changed with the operation of [ < > ∧ ∨ ] button.





## Different Angle

■ If a disc includes multi angle information, the user can watch a screen in multi angles. The function is limited to a DVD disc supporting multi angle information.

DVD

**Keep pressing [ANGLE] button till the preferred angle appears.**
Every time the user presses [ANGLE] button, an angle degrees changes in a consecutive order.

DVD ■ENG/3 ◀ENG2CH/3 ■■ ↻OFF 🎥1/2

# About MP3 discs

## Playing a disc containing MP3 files

This unit will play MP3 files recorded on CD-R and CD-RW discs.

MP3

*1* Turn on your television and select the channel assigned to this DVD player.

*2* Press the DVD open [OPEN/CLOSE] button, the disc tray opens.

*3* Put a disc containing MP3 files on the disc tray with the label side up.

*4* Press the DVD open [OPEN/CLOSE] button, the disc tray closes.

*5* The unit will take a short while to load the disc and display the directory structure.

*6* Press the [ < > ∧ ∨ ] navigation buttons of the remote control to select the folder, then press the [ENTER] button to confirm.

*7* Press the [ < > ∧ ∨ ] navigation buttons of the remote control to select the file you want to listen to, then press the [ENTER] button and this selected file is located and played back.

*8* After starting playback, the track list is on-screen. You can move the highlight onto the folder name above the track list and change folder with the [PREV] button. Press the [SEARCH] button twice in stop mode to get back to folder tree view.

### ■ Play and Pause

Press the [PLAY/PAUSE] button to switch between play and pause.

### ■ Search for a track

The [SEARCH] button works on MP3 discs.

### ■ To stop playback

Press the [STOP ■ ] button.

### ■ To skip to the next or previous file

- Press the [ ▶▶I NEXT] button of the remote control briefly while playing, to skip ahead to the beginning of the next file. Each time you press the button consecutively, the beginning of the next file is located and played back.

- Press the [ I◀◀ PREV (Previous)] button of the remote control briefly while playing, to skip back to the beginning of the previous file. Each time you press the button consecutively, the beginning of the previous file is located and played back.

*The ability of this unit to read MP3 discs is dependent on the followings:*

- *The Bit Rate must be within 64-256 kbps.*
- *The total number of files on the disc should not exceed 200.*
- *The maximum number of directories should not exceed 32.*
- *The maximum depth level of directories should not exceed 4.*
- *File names should be named using 8 or fewer letters and/or numbers, and must incorporate the "MP3" file extension. EXAMPLE:********. MP3 where each *is a letter or number.*
- *Use only letters and/ or numbers in file names. If you use special characters, the file and/ or folder names may not be displayed correctly on the on-screen display.*
- *When recording on CD-R discs, use 74-minute (650M) discs. Do NOT use 80 -minute (700M) discs.*
- *The CD-R or CD-RW discs should be written using the "disc at once" method.*

# Displaying menus in a disc

## To display menus in a disc

■ If a disc includes menus, the user may use them.

`DVD`

`VCD2.0`

**1** **Press [MENU] button.**
- In case of a DVD disc, it shows menus in the disc. Also they are different according to discs.
- If it is a VCD2.0, select PBC ON mode by pressing [TITLE/PBC] button.
  
  *\* CD and VCD1.1 do not support the function.*

**2** **If it is a DVD disc**, move a cursor to a relative item with arrow buttons of [ < > ∧ ∨ ] button and select one with [ENTER] button or [PLAY] button.

**If it is a VCD 2.0 disc**, it shows menus in the disc by pressing [ENTER] button.

# Language Setup

■ A user can set OSD language, Audio, Subtitle and Disc Menu.

**1** **While STOP or RESUME STOP, press [SETUP] button.**

| Language | Video | Audio | Others |
|---|---|---|---|
| OSD Language | | English | |
| Audio | | English | |
| Subtitle | | English | |
| Disc Menu | | English | |

*⇔ : ◄ ► ▲ ▼   ☑ : ENTER   ⊟ : SETUP*

*"OSD" means "On Screen Display".*

**2** **Selecting a OSD language.**
Please select a language to be displayed on DVD screen.

**3** **Selecting Audio language.**
Set it as the preferred audio language. In case the audio language is set and recorded in the DISC, it is automatically played in the set language in every playing. For example, English is set and recorded as audio language in the DISC, it is played in English.

**4** **Selecting Subtitle language.**
Please set it as the preferred language. In case the subtitle language is set and recorded in the DISC, it is automatically played in the set language in every playing. For example, English is set and recorded as subtitle language in the DISC, it is played in English.

*In case a disc does not include setting languages information, the selected language does not appear.*

**5** **Selecting Disc Menu language.**
Please set it as the preferred DISC MENU language. In case the DISC MENU language is set and recorded in the DISC, it is automatically played in the set language in every playing. For example, English is set and recorded as a DISC MENU language in the DISC, it is played in English.

# Video Setup

■ A user can set up a connected TV condition and screen.

**1** While STOP or RESUME STOP, press [SETUP] button.

| Language | **Video** | **Audio** | **Others** |
|---|---|---|---|

TV Aspect     4:3 LB

✛ : ◄ ► ▲ ▼    ☑ : ENTER    ⬜ : SETUP

**2** **Selecting TV Aspect.**
If a user selects "4:3 PS", the user can watch only a centre of the original scene of "16:9". If a user selects "4:3 LB", the user can watch the original scene of "16:9", but the top and bottom of the screen look black colour.

If a disc size is originally recorded in 4:3, a user cannot watch it in a wide screen though a user sets a size as "16:9 Wide".

# Audio Setup

■ A user may select audio menu according to a user's speaker set.

**1** While STOP or Resume STOP, press [SETUP] button.

| Language | Video | **Audio** | **Others** |
|---|---|---|---|

Digital Output     Bitstream
Dynamic Range     Off

✛ : ◄ ► ▲ ▼    ☑ : ENTER    ⬜ : SETUP

**2** **Select a Digital Output.**
You can set following 2 values of digital output;

- **Bitstream:** The same signal as audio signal recorded in disc goes to digital audio output terminal.
- **LPCM:** Decoded audio signal goes to digital output terminal.

**3** **Select a Dynamic Range.**
Set "Off" to view a program in the dynamic range as recorded in disc. If you hear loud sound softer and soft sound louder, set "Full".

| Language | Video | **Audio** | **Others** |
|---|---|---|---|

Digital Output     Bitstream
Dynamic Range     Off
              Full

✛ : ◄ ► ▲ ▼    ☑ : ENTER    ⬜ : SETUP

**DVD Operation**
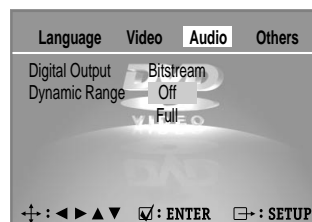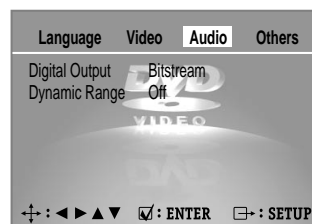
# Others Setup

**1** While STOP or RESUME STOP, press [SETUP] button.

| Language | Video | Audio | **Others** |
|---|---|---|---|
| OSD | | On | |
| Screensaver | | On | |
| Defaults | | Reset | |
| Parental | | Off | |

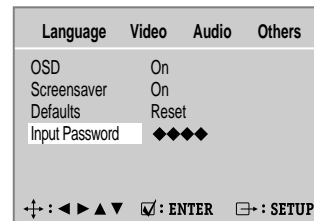✛ : ◄ ► ▲ ▼   ☑ : ENTER   ⊟ : SETUP

**2** **Select character display window.**
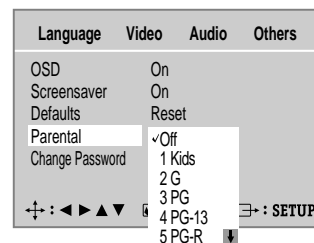Select "On" to make OSD (On Screen Display) language displayed in screen.

**3** **Select screensaver.**
If bright scenes continue to be displayed in screen, TV can be damaged. Set the screensaver to "On", the screensaver functions automatically and DVD logo moves continuously if the resume stop, stop, open status is maintained for about 5 minutes.

**4** **Select defaults.**
If you select defaults, every function set returns to FACTORY Defaults except Parental.

**5** **Entering a password.**
Input password display appears.
Enter a user's password by pressing 4 [Digit] buttons.

| Language | Video | Audio | Others |
|---|---|---|---|
| OSD | | On | |
| Screensaver | | On | |
| Defaults | | Reset | |
| Input Password | | ◆◆◆◆ | |

✛ : ◄ ► ▲ ▼   ☑ : ENTER   ⊟ : SETUP

*"Parental Lock" activates only if you set a password and the unit goes into Lock status. When the disc has no parental function even if the disc for adult only, Parental Lock doesn't activate.*

**6** **Select Parental.**
**Press [ENTER] button to set the selected item .**
It consists of 8 levels of parental control, violence, sexual scene, strong sexual scene and others to protect children from watching those scenes.

| Language | Video | Audio | Others |
|---|---|---|---|
| OSD | | On | |
| Screensaver | | On | |
| Defaults | | Reset | |
| Parental | | ✓Off | |
| Change Password | | 1 Kids | |
| | | 2 G | |
| | | 3 PG | |
| | | 4 PG-13 | |
| | | 5 PG-R | |

✛ : ◄ ► ▲ ▼   ☑   ⊟ : SETUP

**7** **Changing a password.**
For the change of a user's password, please move to "Change Password" and enter new password.

| Language | Video | Audio | Others |
|---|---|---|---|
| OSD | | On | |
| Screensaver | | On | |
| Defaults | | Reset | |
| Parental | | 8 Unlock | |
| Change Password | | ◆◆◆◆ | |

✛ : ◄ ► ▲ ▼   ☑ : ENTER   ⊟ : SETUP

*The initial password is 3308. In case you forget newly-input password, you can use 3308 as a password.*

# About DVD

## ▄▄ Playable Disc

● DVD, Video CD (Version 1.1, 2.0), S-VCD and Audio CD

| Disc type | Playable | Restriction |
|-----------|----------|-------------|
| DVD | Possible | Region number 4 or Region number All |
| Video CD | Possible | Version 1.0/1.1/2.0, SVCD/CVD |
| CD | Possible | PCM or DTS |
| CD-G | Possible | Only Audio playback |
| CD-ROM | Possible | MP3 File |
| CD-R | Possible | Video-CD/CD/CD-ROM (MP3 File) |
| CD-RW | Possible | Video-CD/CD/CD-ROM (MP3 File) |
| DVD-R | Possible | DVD Video |
| DVD-ROM | Impossible | |
| DVD-RAM | Impossible | |
| DVD+RW | Impossible | |
| Photo CD | Impossible | |

### REGION MANAGEMENT INFORMATION

This unit is designed and manufactured to respond to the Region Management information that is recorded on a DVD disc. The region number of this player is "4". If the region number described on the DVD discs does not correspond to the Region number of this player, the player will not play this disc. This player will play DVD discs made for "ALL" regions. Therefore, this player will play DVD discs marked with labels containing the region number "4" or "ALL".



(Region 4)                    (Region ALL)

## ▄▄ Terms related with DVD

**DVD**     A DVD (abbreviation of Digital Versatile Disc or Digital Video Disc) can include 135 minutes of video information. And for audio, it can hold up to 4 kinds of languages and 12 kinds of subtitle languages. By using MPEG-2 video compression and digital 3D surround sound, DVD realises high-defined screen and quality sound like a movie theatre.

**CDDA**    A CDDA (abbreviation of Compact disc digital audio) is a music disc that is currently used.

**MP3**     Audio compression format that enables audio files to be stored and transferred on a computer with a relatively small file size. It enables you to enjoy CD quality music. (Short for MPEG-1 Layer 3)

**PBC**     This is recorded on a Video CD 2.0, Video CD 3.0, SVCD and CVD. The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor. It stands for Playback Control.

*About DVD*

| | |
|---|---|
| **CHAPTER** | It means the information recorded in a DVD. A title in a DVD is divided into many tracks, of which a track is called as a chapter. A certain scene of a screen can be quickly searched with the chapter number. |
| **TITLE** | It means the information recorded in a DVD. A DVD can be divided into may titles. |
| **TRACK** | It means the information recorded in a video CD and audio CD. A disc consists of many a track, for which a user can search a certain position. |
| **dts** | Digital Theatre System is a 5.1 -channel surround sound system, which is widely used in movie theatres around the world. It enables the bit rate to be increased to provide good sound quality. "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc. |
| **Multi Angle** | Some DVD discs contain the various scenes that have been simultaneously shot from a number of different angles. |
| **PCM** | Linear PCM is a signal-recording format used in a CD, while CD is recorded in 44.1kHz/16bit, a DVD is recorded in 48KHz/16bit up to 96KHz/24bit. |
| **Dolby Digital** | Dolby Digital enables the delivery of mono through 5.1-channel audio at data rates from 32 kbps to 640 kbps, thus offering flexibility and economical performance as well as uncompromised sound quality. |
| **Bitstream** | Digital audio data that is decoded into an analog signal for subsequent output to speakers. |
| **Lt/Rt** | It indicates L/R of Dolby Digital 2CH Downmix output. |
| **Downmix** | DOWNMIX is reproducing the proper audio when audio format recorded on a disc differs from the output audio channel configuration. For example, with just one stereo speaker system you can hear full 5.1 channel audio. |

## ▬▬ Handling Disc

- To keep a disc clean condition, please do not touch a side containing play information.
- Do not attach a bit of paper or sticky tape on it.
- Do not expose a disc to a direct sunlight or electric heating systems.
- After using it, please keep a disc in a case.
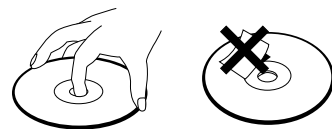
## ▬▬ Cleaning Disc

- Before using it, please rub it from centre toward outside with clean clothes.
- Do not use any type of solvent such as thinner, benzol (benzene), commercial cleaning goods or antistatic sprays.

# Basic information about VCR and Videotape

## Terms related with VCR

**AFT**        Automatic fine tuning, a circuit that automatically adjusts TV reception to optimum condition.

**CABLE**      Cable television.

**Index Search** A feature of this VCR that automatically records an index each time recording begins. It helps you locate a particular segment of the tape quickly and easily.

**LP**         Long Play, an intermediate tape recording speed that combines most of the picture/audio quality obtainable at the standard recording speed with some of the tape economy of Extended Play (EP).

**OSD**       On-screen display of information pertinent to the features of the VCR.

**OTR**       One-touch recording, a feature that allows you to record the program you're watching by pressing the REC key. Each press of the key increases the recording time by 30 minutes, up to four hours.

**RF**         Radio frequency, the composite audio/video signal supplied to a TV receiver (or other video component) by an antenna or cable system.

**Safety tab**   The plastic tab at the back of a video tape cassette which, when removed, prevents accidental erasure of a recording.

**SP**        Standard play, the recording speed to use when the best picture quality is of prime importance (and when total recording time is not).

## What is dew condensation symptom?

- If a VCR is moved from a cool place to a warm and damp place or a place facing a direct cool wind from air-conditioner... and others, temperature varies sharply, which makes dew on head drums of VCR.

**If dew condensation occurs,**

1  First, turn it on for one or two hours before using it.
2  Do not use it because it may develop troubles of a VCR or videotape.

## How to use a head cleaner

- In case of a old or contaminated videotape, screen may not be clean from the contamination of VCR heads. Please remove contaminants using a head-cleaner like below order.
1  Insert a head-cleaner into VCR
2  Press "PLAY" for 5 seconds, and then press "FF" for about 10 seconds.

PLAY (5secs)   ⟶   FF (10secs)

3  Eject a head-cleaner from VCR
- If the screen is not clean yet, please repeat the above 2 or 3 times more.
- A head-cleaner is not for sale. Please ask it for the nearest agent.
- In case a user ask the removal of contaminants of us, the user should pay extra charges.

# Before doubting about troubles (VCR)

| Symptom | Checks |
|---|---|
| • "Power On" does not work.<br><br>• It does not work even in "Power On". | ➤ Please check whether a power plug is inserted in an electric outlet.<br><br>➤ Please check whether a videotape is inserted in.<br>➤ Try to insert a plug again. |
| • A videotape is not inputted in. | ➤ Please check whether a power plug is inserted in an electric outlet.<br>➤ Please check whether a videotape is in.<br>➤ Please check whether a videotape is inserted in a right direction (a side of transparent window should be on the upside)<br>➤ Have you inputted a videotape again just after the tape was ejected? Please try it again after fully ejecting it.<br>➤ When a videotape forces to be ejected, the tape may not be inputted. In the case, please pull out an outlet, and then push the tape smoothly. |
| • On inputting a videotape, the tape is re-ejected. | ➤ That's why a safe mode to protect a videotape is operated automatically. Please pull out the tape and input it again. |
| • A videotape is not ejected. | ➤ In case the product is used for a long time, a videotape may not be ejected for a film inside may be stretched. In the case, please pull out a power plug for about 10mins and then press "EJECT" button. |
| • A channel on video and a play screen does not appear. | ➤ Please check your antenna's connection.<br>➤ TV channel should be fixed on video channel.<br>➤ Please check your antenna's signal whether it may be weak. In case of its weakness, please use a frequency amplifier connected with the device.<br>➤ Press "TV/VCR" and then let "VCR" is displayed on the display panel. |
| • Noise (screen noise) appears on screen. | ➤ While in no use of VCR, was it turned on?<br>➤ While in recording a program, do you watch another channel?<br>➤ Select TV by pressing [TV/VCR] button on remote control. |
| • Noise appears on screen after recording. | ➤ While in playing a videotape, there may happen some noise or blot in the part of the beginning of a videotape or resuming "PAUSE", which are not breakdown. |
| • While in playing, noise appears. | ➤ Please press "TRACKING" for better screen. Videotape may be poor. Try to change it to another one. |
| • Sound and screen are irregular.<br>• Sound comes out but screen does not appear.<br>• Screen is irregular and stripes appears.<br>• "Screen Error" message is displayed in a screen. | ➤ Please use a head-cleaner to clean VCR heads. VCR heads may be contaminated. |
| • While recording and playing, the top of screen extremely waves. | ➤ Since VCR Play signals are not stable like a TV signals, screen may be unstable or curved while in playing. To fix the problem, please horizontal adjustment. |
| • A screen is not clear. | ➤ In case videotape is the one recorded by other products or old one, stripe may appear on the screen.<br>➤ Try to adjust the screen by [TRACKING+/-] button<br>➤ Try to use a head-cleaner. |
| • A screen at pause is trembling or slow screen is not clear. | ➤ Try to use a head-cleaner.<br>➤ Try to adjust the screen by [TRACKING+/-] button. |

| Symptom | Checks |
|---|---|
| • Recording a TV program is impossible. | ➤ For recording, you should use videotape with a tab.<br>➤ Please check whether a channel is fixed on video. If not, you have to turn it into "TV" by pressing "OUTPUT" button.<br>➤ Please check whether the timer recording info is right.<br>➤ Are RF cables inputted antenna connection terminal correctly?<br>➤ Does a CH number selected in display section appear?<br>➤ Please check a tab on a tape whether it is broken or not. (If it was broken, please scotch-tape it) |
| • Recording a TV program is impossible. | ➤ Check whether a tape attached with a recording tap is inserted.<br>➤ Check whether the screen is displayed in VCR Only Channel. Press [OUTPUT] button in this remote controller to adjust in "General Broadcast" condition.<br>➤ Is the rounded line (RF cable) connected in "ANT.IN" terminal?<br>➤ Is the selected channel number shown in Display?<br>➤ Is a tab of cassette tape broken? (Please cover a tab hole with cellophane adhesive tape (Scotch tape).) |
| • Once pressing "REC", a videotape is ejected automatically. | ➤ Please check whether the clock is right.<br>➤ Does the display on your video show " ⏏ " (Ready to timer recording)? Please make it out.<br>➤ Please check whether the timer recording info is right.<br>➤ Please check a tab on a tape whether it is broke or not. (If it was broken, please scotch-tape it) |
| • Timer recording of Cable TV does not work. | ➤ Was a cable data output code connected correctly?<br>➤ Were a converter manufacturer setup and output channel right?<br>➤ Did you enter a password? (Please cancel it.)<br>➤ Did you turn off your player? (Please turn it on.) |
| • In spite of pressing "CHANNEL", a channel can not be set. | ➤ You may not memorise channels.<br>➤ Please check your channel setting or press a number button. |
| • While duplicating, screen is not clean and distorted. | ➤ Some tapes or discs distributed in the market for lending is set to prevent copy in manufacturing. These tapes cannot be duplicated in a good condition. |
| • Remote control does not work. | ➤ Battery may be weak or exhausted.<br>➤ A receiver of remote control may be different with a sender. |
| • Buttons on remote control do not work. | ➤ In case a videotape is positioned in the beginning, "VISS REW" and "REW" do not work.<br>➤ In case a videotape is positioned in the end, "FF", "VISS FF", "PLAY" and "REC" do not work.<br>➤ Please check whether another button is pressed. |
| • VISS index search does not work. | ➤ Are you playing a tape that is not recorded in this recorder? (Try to record it with the recorder.)<br>➤ You may start recording it in "REC-PAUSE". Please start recording it from stop condition. |
| • Cable broadcasting can not be selected. | ➤ Please select "CABLE" not "NETWORK" from the "CHANNEL SETTING". |

**The Others**

# Before doubting about troubles (DVD)

| Symptom | Checks |
|---|---|
| • **The recorder does not play.** | ➤ If a DVD is from overseas, it may not be played. Please check a DVD's region code whether it has the relative region code 4 or All.<br>➤ Please check whether a DVD is inserted in a right direction.<br>➤ If it is a CD-ROM for PC or DVD-ROM, it does not work. |
| • **No sound comes through.** | ➤ Play mode may be "SLOW" or "PAUSE" (In abnormal speed play, no sound comes through)<br>➤ Did you connect the parts in right way?<br>➤ Please check the operative condition of TV or amplifier.<br>➤ From SETUP, please check 'AUDIO' items. |
| • **A disc is playing but screen does not appear or poor screen appears.** | ➤ Did you turn on your TV sets?<br>➤ Did you connect the parts in right way?<br>➤ The play may be in "PAUSE".<br>➤ A disc may have some contaminants or be damaged.<br>➤ A disc may be bad one. |
| • **Sound is irregular** | ➤ Please check the connection with Dolby Digital amplifier.<br>➤ Please check the plugs are connected with one another tightly.<br>➤ Some contaminants may be remained in connection terminal. |
| • **REMOTE does not work.** | ➤ Please check the degree of remote control, distance or any interruption.<br>➤ Battery may be weak or exhausted.<br>➤ When you operate DVD, use it by pressing [DVD] button. |
| • **Dolby Digital sound does not work** | ➤ Dolby Digital sound can be worked in the Dolby Digital amplifier only.<br>➤ Please check "Dolby Digital" mark on your DVD.<br>➤ In case of playing it through digital output, while pressing "STOP", please check whether "Digital Output" is "Bitstream" by pressing "SETUP".<br>➤ Please check the connection is correct. |
| • **"AUDIO" or "SUBTITLE" button does not work.** | ➤ If a DVD does not include language information, it does not support the function. |
| • **"ANGLE" button does not work while a DVD is playing.** | ➤ "ANGLE" is supported only in a DVD contains multi angle scenes. Also a user can confirm the support with the "ANGLE" mark on screen. |
| • **"MENU" does not appear while a DVD is playing.** | ➤ Please check the degree of remote control, distance or any interruption.<br>➤ Please check a battery in remote control whether it is exhausted or not.<br>➤ A DVD may not contain menu information. |
| • **The file name of MP3 (CD-R) appears with strange letters.** | ➤ The file name of MP3 recognise only the Alphabet (A~Z, a~z), numbers (0~9) and a special symbol on keyboard (~, !, @, #, $ ....) and 10 letters can be displayed in maximum.<br>➤ The letters except above case will be displayed like "----". |
| • **Any MP3 (CD-R) file isn't displayed.** | ➤ If the surface of disk is injured, the file display and playback can be impossible. |

# Specifications

| | |
|---|---|
| Power | 230V~, 50/60Hz |
| Consumed electricity | 24W |
| Weight | 5.7kg |
| Dimension (W x H x D) | 430mm x 91mm x 355.5mm |
| Operative temperature | +5$^0$C~40$^0$C |
| Installation condition | Horizontal / Relative humidity under 80% |
| Signal type | PAL COLOUR |
| Antenna Input/output | U/V-mixed: 75$\Omega$ unbalanced |
| VIDEO input | 1.0Vp-p (unbalanced, RCA JACK) |
| AUDIO input | -8.8dBm, RCA JACK |
| VIDEO output (common use of DVD and VCR) | VIDEO output terminal, 1.0 Vp-p unbalanced, RCA JACK |
| VIDEO output (DVD only) | COMPONENT output (75$\Omega$ In load Y: 1.0Vp-p, Pb: 0.7Vp-p, Pr: 0.7Vp-p) |
| AUDIO output (common use of DVD and VCR) | Audio output terminal (2 kinds): -8.8dBm(VCR), 2Vrms(DVD), RCA JACK |
| AUDIO output (DVD only) | Analogue AUDIO output : 2.0Vrms<br>Digital audio output (OPTICAL, COAXIAL) |
| Playable tape | Very high dense tapes with VHS marks |
| Playable disc | DVD, VIDEO-CD, CD (12mm), CD (8mm), MP3, CD-R, CD-RW |
| Tape speed | SP: 23.39mm/s, LP: 11.70mm/s |
| Playtime | SP: 3hrs, LP: 6hrs (use of E180 tape) |
| Clock display | 24 hrs |
| Time Recording | 8 programs a year |
| Persistence in power failure | 1min |
| VIDEO S/N (VCR) | Over 43dB (Standard recording) |
| Resolution — VCR | Over 240 lines (Standard recording) |
| Resolution — DVD | Over 500 lines (Playback DVD) |
| AUDIO (VCR) | Over 65dB |
| AUDIO (DVD) | 90dB |
| AUDIO dynamic range | 90dB |

## ▬ DVD Audio output standards

| Output | Disc type | | |
|---|---|---|---|
| | DVD | VIDEO-CD | CD |
| Analogue Audio output | 48/96KHz sampling | 44.1KHz sampling | 44.1KHz sampling |
| Digital Audio output | 48KHz sampling | 44.1KHz sampling | 44.1KHz sampling |
| Optical digital audio output | 48KHz sampling | 44.1KHz sampling | 44.1KHz sampling |

P/N:97P95600D0-N3