Before attempting to connect, operate or adjust this product, please read these instructions completely.
## Contents

### Before Use
- Warning and Important Information .................................. 3
- Accessories ..................................................................... 3
- VHS Deck and Cassette Tape Information .......................... 4
- The Remote Control ......................................................... 4
- Disc Information ............................................................. 5
- Control Reference Guide .................................................. 6
  - Main Unit ...................................................................... 6
  - The Unit’s Display .......................................................... 6
  - Remote Control ............................................................... 7

### Getting Started
- Connections ................................................................. 8
  - Basic Connections .......................................................... 8
  - Audio/Video Output Sockets ............................................. 8
  - For Better Video from DVD .............................................. 8
  - To Enjoy Sound through Other Audio Equipment .............. 9
- Operating the TV ............................................................ 10
  - TV Maker Setting ............................................................ 10
- Tuning the TV to Your Unit ............................................... 11
  - To Change the RF Output Channel .................................... 11
- Setting Up for VHS and DVD Quick Setup ....................... 12
  - LANGUAGE .................................................................. 12
  - CLOCK SET ................................................................ 12

### VHS Operations
- Playback ...................................................................... 13
  - Adjusting the Playback Picture ........................................ 14
  - NTSC Playback ............................................................ 14
- Recording ..................................................................... 15
  - One-Touch Recording (OTR) ............................................. 16
  - Recording from an External Source ................................. 16
  - TAPE REFRESH .............................................................. 16
- Timer Recording ............................................................ 17
  - To Check and Cancel a Timer Programme ....................... 18
  - Timer Recording for the Same Programme on the Following Week (Intelligent Timer) ................................................. 18
- Search Functions .......................................................... 19
  - Jet Navigator ................................................................. 19
  - VHS Index Search System (VISS) .................................... 20
  - Easy Programme Playback ............................................. 20
- Settings Using the On-Screen Display ......................... 21
  - TUNER PRESET ............................................................ 21
  - OPTION .................................................................... 22
  - Various Indications in On-screen Display .......................... 23
  - Changing Audio .......................................................... 23

### DVD Operations
- Playing Discs—basic Play .......................................... 24
- Useful Functions .......................................................... 26
  - Starting Play from a Selected Item ................................. 26
  - Starting Play from a Selected Group ............................... 26
  - Quick Replay ............................................................... 26
  - Changing Play Speed ..................................................... 26
  - AV Enhancer ................................................................. 26
  - Picture Mode ................................................................. 26
  - Rotating Pictures .......................................................... 26
  - Manual Skip ................................................................ 27
  - Displaying Current Playback Condition (QUICK OSD) ...... 27
  - Advanced Disc Review .................................................. 27
  - Program/Random Playback ............................................. 27
- Using Navigation Menus ............................................. 28
  - Playing Data Disc .......................................................... 28
  - Playing HighMAT Discs .................................................. 29
  - Playing RAM/DVD-RW (DVD-VR) Disc .......................... 29
- To Enjoy Movies and Music More ............................... 30
  - Changing Soundtracks, Subtitles and Angles ................. 30
  - Advanced Surround ...................................................... 31
  - Repeat Play ................................................................. 31
  - Variable Zoom Function ............................................... 32
  - Progressive Out (Component) ....................................... 32
  - Digital Output ............................................................. 33
- Using On-Screen Menus ............................................. 34
  - Main Menu .................................................................. 34
  - Other Settings ............................................................. 34
- Changing Settings ...................................................... 36
  - Entering a Password (Ratings) ....................................... 36
  - SETUP Menu ............................................................... 37

### Editing
- Recording from DVD to VHS ....................................... 38
  - Manual Dubbing .......................................................... 38
  - DVD-RAM Dubbing ...................................................... 38

### Helpful Hints
- Before Requesting Service .......................................... 39
  - Error Messages .......................................................... 41
- Glossary ..................................................................... 42
- Specifications ............................................................. 43
Warning and Important Information

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully.

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR
PERFORMANCE OF PROCEDURES OTHER THAN THOSE
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS
RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF.
REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:
To reduce the risk of fire, electric shock or product
damage, do not expose this equipment to rain, moisture,
dripping or splashing and ensure that no objects filled with
liquids, such as vases, shall be placed on the equipment.

As this equipment gets hot during use, operate it in a well
ventilated place;
Do not install this equipment in a confined space such as a
book case or similar unit.

Important
Your attention is drawn to the fact that the recording of
pre-recorded tapes or discs or other published or broadcast
material may infringe copyright laws.

For your safety
• Do not remove outer cover.
• Touching internal parts of the unit is dangerous, and may
seriously damage it.
• To prevent electric shock, do not remove cover. There are no
user serviceable parts inside. Refer all servicing to qualified
service personnel.

Cautions before you operate this unit
Avoid:
• Using a cell phone near the equipment because doing so may
cause noise to adversely affect the picture and sound.
• Humidity and dust.
• Covering the ventilation holes with soft materials such as cloth or
paper.
• Extreme heat such as direct sunlight.
• Magnets or electromagnetic objects.
• Touching internal parts of the unit.
• Water or some other liquid.
• Lightning (disconnect the aerial plug from the unit during a
lightning storm).
• Anything heavy on the unit.
• Connecting or handling the equipment with wet hands.

Do:
• Wipe the unit with a clean and dry cloth.
• Install the unit in a horizontal position.
• Keep the unit, TV and other equipment switched off until you
have finished all connections.

Condensation may form in the following cases:
• The unit is brought from cold surroundings into a well-heated
room.
• The unit is suddenly brought from cool surroundings, such as an
air-conditioned room or car, to a place which is hot and humid.

Note:
• In any of the above-mentioned conditions, do not operate the unit
for at least 1 hour. This unit is not equipped with a dew sensor.

NV-VP33GC : Middle East model
NV-VP33GCS : Asia, Malaysia model

THIS UNIT IS INTENDED FOR USE IN TROPICAL
CLIMATES.

About descriptions in these Operating Instructions
• Pages to be referred to are indicated as (X.XX).

Accessories

Please check and identify the supplied accessories.

- 1 pc. Remote Control (EUR7720X90)
- 1 pc. RF Coaxial cable
- 2 pcs. "R6" size batteries
- 2 pcs. AC Main Lead (for NV-VP33GC)
- 1 pc. AC Main Lead (for NV-VP33GCS)
- 1 pc. Audio/Video cable
Surge Absorber
For further protection for this product, these models are equipped with new surge absorbing circuits which prevents damage due to power surges caused by lightning.
● This function may not be effective for surges by direct lightning.

Crystal View Control
The crystal view control function ensures the optimum picture quality so that you get the best picture automatically.

Longrun Head System
This longrun head system enables approximately 8,000 hours of recording/playback with high quality images. Newly developed head cylinder with narrower head windows and tapered cylinder design effectively protect heads from dust and prevents head clogging. Plus, “Alumina” Head Cleaner enhances the cleaning efficiency.
● Based on in-house tests with Panasonic video cassettes. Actual head life may vary according to conditions of use, tape type, temperature, humidity, etc.

Tapes
● You can use tapes with the VHS and S-VHS marks, but this unit is unable to make full use of the characteristics of S-VHS tapes.
● Break the tape’s tab to prevent accidental erasure. Cover the hole with a double layer of adhesive tape when you want to use the tape for recording again.

S-VHS Quasi Playback (SQPB)
It is possible to play back tapes recorded in the S-VHS system.
● Some picture noise may occur depending on the type of tape used.

The Remote Control

Installing the batteries
Insert the batteries with the polarity (+ and −) correctly aligned.

Use
Aim at the receiver window ( ), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.
● Keep the transmission window and the unit’s sensor free from dust.
● Operation can be affected by strong light sources, such as direct sunlight, and the glass doors on cabinets.

Notes:
The service life of the batteries is approximately 1 year. However, it varies considerably depending on the frequency of use.
● When the batteries are exhausted, remove them immediately and dispose them correctly.
● Do not mix old battery with new battery.
● Do not mix different battery types, i.e. Alkaline and Manganese.
● Do not use rechargeable batteries.
● Do not heat or short-circuit the batteries.
● When you do not use the remote control for a long time, take out the batteries and store them in a cool, dry place.
● Operation can be affected by strong light sources, such as direct sunlight, fluorescent light and the glass doors on cabinets.
Disc Information

Discs that can be played

<table>
<thead>
<tr>
<th>DVD-RAM</th>
<th>DVD-Video</th>
<th>DVD-R/DVD-RW (Video)</th>
<th>DVD-RW (VR)</th>
<th>+R (Video)/+RW (Video)</th>
<th>SVCD</th>
<th>Video CD</th>
<th>CD</th>
<th>CD-R/RW</th>
</tr>
</thead>
</table>

- Shown as "DVD-VR" on the display
- Conforming to IEC62107
- For Asia: "2" for Asia or "3" for the Middle East and "3" for Asia or "ALL"
- Examples: For the Middle East
- Examples: For Asia
- *Discs cannot be played*
  - DVD-ROM, DVD-Audio, CD-ROM, CDV, CD-G, Blu-ray, CVD, SACD, Divx Video Discs and Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6 GB and 5.2 GB DVD-RAM, and "Chaoji VCD" available on the market including CVD, DVD and SVCD that do not conform to IEC62107, etc.
  - (DVD-Audio/Video disc will play as DVD Video format, depending on disc compatibility.)
- *Region number supported by this player*
  - Region numbers are allocated to DVD players and software according to where they are sold.
  - The region number of the unit is "2" for the Middle East and "3" for Asia.
  - The unit will play DVD-Video marked with labels containing "2" for the Middle East and "3" for Asia or "ALL".
  - Examples: For the Middle East
- *Video systems*
  - This unit can play PAL and NTSC, but your TV must match the system used on the disc.
  - PAL discs cannot be correctly viewed on an NTSC television.
  - This unit can convert NTSC signals to PAL 60 for viewing on a PAL television (Video—NTSC Disc Output ⇒ 37).
  - Output is interlace (576i), when playing PAL discs.
- *Disc structure*
  - Disc structure and the labels given to the items on discs depend on the disc type.
  - *Track*: The smallest division on CDs and Video CDs, or a single MP3/WMA file.
  - *Chapter*: The smallest division on DVD-Video.
  - *Group*: Equivalent to folders or albums on data discs.
  - *Title*: The largest division on DVD-Video, usually an entire movie.
  - *Programme*: The division on DVD-RAM equivalent to a single recording.
  - *Picture*: A single JPEG file.
  - *Play list*: The largest grouping on a highMAT disc, or a group of scenes on DVD-RAM.
  - *Scene*: DVD-RAM programme sections specified and grouped into play lists on a DVD video recorder.
  - *Content*: Covers tracks and pictures on HighMAT discs.
- **HighMAT™ discs**
  - This unit is compatible with HighMAT™ discs containing MP3, WMA and/or JPEG files.

- **Handling precautions**
  - Do not handle the surface with a ball-point pen or other writing instrument.
  - Do not use recording sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
  - Do not attach labels or stickers to discs (do not use discs with exposed adhesive from tape or left over peeled-off stickers).
  - Do not use scratch-proof protectors or covers.
  - Do not use discs printed with label printers available on the market.
Control Reference Guide

Operations in these instructions are described mainly for the remote control, but you can do the operations on the main unit if the controls are the same.

Main Unit

- **Common section**
  - **Power button (⁄I)**
    - Press (⁄I) to switch this unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the main AC power.
  - **Infra-red Remote Control Receiver Window**
  - **Display**

- **VHS section**
  - **Tape Eject button (EJECT)**
  - **Cassette Compartment**
  - **AV2 IN (AUDIO/VIDEO) Sockets**
  - **Recording/One-Touch Recording button (REC/OTR)**
  - **Timer Recording button (TIMER REC)**
  - **Channel Down/Up buttons (✓CH)**

- **DVD section**
  - **Disc Tray**
  - **Disc Tray Open/Close button (OPEN/CLOSE)**
  - **DVD-RAM Dubbing button (DVD-RAM DUBBING)**
  - **STOP button**
  - **PLAY button**
  - **AV Enhancer button (AV ENHANCER)**

The Unit’s Display

- **Common section**
  - **Counter Display**
  - **Programme number**
  - **Contents number (HighMAT discs)**
  - **Group number (Data Disc)**
  - **Running Indicator**
  - **Lights up when the VHS or DVD section is active.**
  - **Flash when recording or timer recording is attempted with no cassette inserted.**
  - **Lights up when the disc is paused.**
  - **Lights up and running one by one when the cassette or disc is playing.**

- **Operation Status of VHS Section**
  - **Lights up when a cassette is inserted.**
  - **Flash when recording or timer recording is attempted with no cassette inserted.**

- **VHS Selector Indicator**
  - **Lights up when the VHS section is active.**

- **Recording Indicator**
  - **Lights up during recording, dubbing or timer recording standby.**

- **Recording Mode Indicator**

- **DVD section**
  - **Operation Status of DVD Section**
  - **Lights up when a disc is inserted.**

- **DVD Selector Indicator**
  - **Lights up when the DVD section is active.**

Note:
- **“” or “” indicator lights up all the time if a cassette or CD is inserted.**
Remote Control

[VHS] and [DVD] button

[VHS]
* Switch the remote control mode into VHS.

[DVD]
* Switch the remote control mode into DVD.

Before Use

Control Reference Guide

1. VHS/DVD Power button (V/H)..........................(→ 13, 24)
2. Audio button (AUDI) .....................................(→ 13, 30)
3. VHS Select button (V/H).................................(→ LEFT)
4. Numeric buttons (0–9, ←, →, ↑, ↓).................(→ 15, 25, 26)
5. Cancel/Reset button (CANCEL/RESET) ............(→ 18, 23)
6. Index Search, Skip buttons
   (→ 19, 20, 24)
7. Stop button (STOP).........................................(→ 13, 24)
8. Jet Navigator, Top Menu/Direct Navigator button
   (NAVI, TOP MENU, DIRECT NAVIGATOR)..........(→ 19, 28, 29)
9. Cursor, Enter buttons
   (↓, ↑, ←, →, ENTER).................................(→ 12, 21, 34, 36)
10. Functions/On-Screen Menu button
    (FUNCTIONS)........................................(→ 34)
11. Timer Programming and Check button, AV Enhancer
    (PROG/CHECK, AV ENHANCER).....................(→ 17, 18, 26)
12. Intelligent Timer button, Play Mode,
    (I-TIMER, PLAY MODE)..............................(→ 18, 27)
13. Timer Recording button (REC).........................(→ 17)
14. DVD-RAM Dubbing button
    (DUBBING)........................................(→ 38)
15. VHS Status, DVD Status button
    (VHS STATUS, DVD STATUS).........................(→ 23, 24)
16. Cinema Mode, Quick OSD button
    (CINEMA MODE, QUICK OSD).......................(→ 13, 27)
17. Quick Replay button (QUICK REPLAY)..............(→ 26)
18. Manual Skip button (MANUAL SKIP)................(→ 27)
19. Recording mode button (REC MODE)...............(→ 15)
20. Recording button (REC).................................(→ 15)
21. Program Play button, Play Speed
    (PROG, PLAY SPEED)................................(→ 20, 26)
22. Jet Rewind button, DVD Setup menu
    (→ 21, 22, 29)
23. Return button (RETURN)...............................(→ 12, 29, 34, 36)
24. Menu, Play List button
    (MENU, PLAY LIST)................................(→ 12, 21, 29)
25. Pause/Slow button
    (→ 13, 24)
26. Play button (PLAY)......................................(→ 13, 24)
27. Rewind/Fast-Forward, Slow/Search buttons
    (→ 13, 24)
28. Repeat, Input Select button
    (REPEAT, INPUT SELECT).........................(→ 31, 38)
29. Tracking/V-Lock and Channel Up/Down buttons
    (→ 14, 15)
30. DVD Select button (DVD)...............................(→ LEFT)
31. TV Operation buttons
    (→)
   TV Power button (POWER)
   TV Channel Up/Down buttons (CH)
   TV Volume Up/Down buttons (VOLUME)
32. Infra-red Transmitter

[121x384]≥
[121x394]
[127x384]≥
[127x414]
[127x439]
[127x455]
[153x621]
[153x648]
[153x665]
[153x681]
[153x712]
[159x511]
[159x522]
[159x540]
[191x631]
[194x583]
[194x614]
[199x546]
[199x768]
[201x746]
[204x678]
[219x692]
[225x598]
[225x746]
[227x637]
[227x737]
[237x550]
[238x546]
[244x676]
[246x676]
[250x692]
[251x698]
[253x631]
[253x635]
[255x635]
[255x688]
[258x635]
[279x545]
[279x546]
[284x522]
[284x530]
[284x545]
[284x555]
[284x575]
[295x573]
[295x621]
[295x637]
[295x648]
[295x666]
[295x681]
[295x720]
[295x744]
[295x779]
[295x809]
[303x501]
[303x530]
[303x549]
[379x525]
[379x535]
[379x545]
[379x575]
[379x595]
[379x615]
[379x625]
[379x667]
[379x687]
[379x707]
[379x747]
[379x748]
[379x767]
[379x787]
[379x807]
Connections

When the unit is turned on after connecting the aerial cable and the mains lead, Plug in Auto Tuning starts automatically.

Basic Connections
The following connections are required to record the video cassette and play back the video cassette/discs through the TV.

- Refer to the TV’s operating instructions.
- Turn the TV off and disconnect its AC mains lead.

Note:
The included AC mains lead are for use with this unit only. Do not use them with other equipment.

For NV-VP33GC
2 AC mains leads are supplied for this unit. Use one of the supplied AC mains leads of which the plug fits into your outlet.
3 pin mains plug is for Saudi Arabia.

Audio/Video Output Sockets

- Set the RF output channel of the unit to "---" (RF OFF) (→ 11).
- Connect Audio/Video cables directly to your TV. The video signals on DVDs and video tapes have copyright protection. The video may not be shown correctly if you connect through an A/V selector or other equipment.

For Better Video from DVD

Television COMPONENT VIDEO terminal (progressive out)
These terminals can be used for either interlace or progressive output and provide a clearer picture than the S VIDEO terminal. Connection using these terminals outputs the colour difference signals (Pr/Pr) and luminance signal (Y) separately in order to achieve high fidelity in reproducing colours.

- The description of the component video input terminals depends on the TV or monitor (e.g. Y/Pb/Pr, Y-B-Y/R-Y, Y/Cb/Cr).
- Connect to terminals of the same colour.

These connections are for the DVD section only.
Carry out the Basic Connections described above to view video from the VHS section.
When making this connection, ensure that you connect the Audio cables (not supplied) to the corresponding audio input terminals on the TV.
You may need to change the video-input mode on the TV to view video from the VHS and DVD sections. Read your TV’s operating instructions for details.
Connections

The output terminal common to VHS and DVD, and the one exclusively for DVD

For the VHS/DVD OUT terminal, VHS and DVD outputs can be switched or it can be automatically switched on to the output side that has started playing back. The DVD OUT terminal can only output the DVD signal.

Notes:
- When Video is switched to DVD or vice versa, the audio volume may suddenly increase or decrease. This is because when the audio output of this unit is connected to the TV, etc., the audio output of the DVD is generally lower.
- When you increase the volume level to play back DVD audio, reduce it when playback is finished.

To Enjoy Sound through Other Audio Equipment

You can enjoy the powerful movie theater and hall-like sound available with multiple channel audio found on DVDs by connecting an amplifier and speakers.

Digital connection

To enjoy multi-channel surround sound
Connect an amplifier with a built-in decoder or a decoder-amplifier combination.
Change the settings in the SETUP menu (33, 37).
You can only use DTS Digital Surround decoders that are compatible with DVD.
- Turn the Advanced Surround function "Off" (31).

To enjoy stereo or Dolby Pro Logic
Connect a digital amplifier or system component.
Change the settings in the SETUP menu (33, 37).

Analog connection

To enjoy stereo or Dolby Pro Logic
Connect an analog amplifier or system component.
Change the settings in the SETUP menu (33, 37).
The audio terminal of VHS/DVD OUT can also be connected.

Note:
- To purchase a coaxial digital cable (not supplied), check the terminal shape of the equipment to be connected beforehand.
Operating the TV

**TV OPERATION**

Turn on the TV.

1. TV Power button (Í)
   - Switch the TV from on to standby mode or vice versa. On some TVs with this button, it is only possible to turn it to standby mode (OFF). It is not possible to turn it on. In this case, try to turn the TV on with the following button:

2. TV Input Mode Selector button (AV)
   - To select desired AV input on the TV.

3. TV Volume Up/Down buttons (VOLUME)
   - To adjust the volume of the TV.

4. TV Channel Up/Down buttons (CH)
   - To select the desired programme position (TV station) on the TV.

---

**TV Maker Setting**

You can operate the TVs of the manufacturers listed below with the remote control after setting it.

1. Refer to the chart below for the code of your TV.

2. Aim the remote control at the TV.
   - While press [Í] (1), use the numeric buttons to enter the two-digit code.
   - Example: “1”; [0][1]

3. Check whether the TV can be operated properly.
   - Test by turning on the TV and changing channels. Repeat the procedure until you find the code that allows correct operation.
   - When a manufacturer has multiple codes in the following chart, try entering other codes if the TV operations cannot be performed properly, and then select the optimal code.

Notes:
- If you are using a Panasonic TV, this setting has already been made, you do not need to perform the above procedure. However, this remote control may not work on some Panasonic TVs.
- Some TV models cannot be operated by this remote control (including all TVs non-remote compatible).

<table>
<thead>
<tr>
<th>Brand</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panasonic/National</td>
<td>01-04</td>
</tr>
<tr>
<td>SONY</td>
<td>05</td>
</tr>
<tr>
<td>TOSHIBA</td>
<td>06</td>
</tr>
<tr>
<td>JVC</td>
<td>07</td>
</tr>
<tr>
<td>HITACHI</td>
<td>08</td>
</tr>
<tr>
<td>MITSUBISHI</td>
<td>09, 10</td>
</tr>
<tr>
<td>SHARP</td>
<td>11</td>
</tr>
<tr>
<td>PHILIPS, SAMSUNG</td>
<td>12</td>
</tr>
<tr>
<td>NEC</td>
<td>13</td>
</tr>
<tr>
<td>SANYO</td>
<td>14</td>
</tr>
<tr>
<td>GOLDSTAR/LG</td>
<td>15, 16</td>
</tr>
<tr>
<td>SAMSUNG</td>
<td>17, 18</td>
</tr>
<tr>
<td>SANYO</td>
<td>19</td>
</tr>
</tbody>
</table>
Tuning the TV to Your Unit

The unit supplies a signal to the TV via the RF coaxial cable on channel E21—E69. It is possible to view the unit’s picture on your TV in the same way that you watch TV broadcasts. The unit is fitted with its own tuner (just like a normal TV) and can be preset to receive up to 99 TV broadcast stations.

1. Press [VHS].

If you have connected the unit to the TV through the audio/video output sockets, you do not need to follow the procedure below. To view the pictures from the unit, set to the AV mode on the TV with [AV].

When the unit is turned on after connecting the aerial cable and the mains lead for the first time, tuning starts automatically.

2. Press [MENU] for 5 seconds or more.

You can change the RF output channel, for example, when interference occurs on the picture after tuning.

3. To cancel Auto Tuning halfway through.

Auto Tuning will stop halfway by turning the unit off, pressing [MENU], playback or power failure.

4. To restart Plug in Auto Tuning.

To change the RF output channel, for example, when interference occurs on the picture after tuning.

[1] Press [MENU] for 5 seconds or more.


Note:

- Even if the RF output channel has been changed, it is not necessary to perform Auto Tuning.

To Change the RF Output Channel

Example: “28” [CH][8]

[3] Retune your TV to the new RF channel for the unit.

[1] Press [VHS] to turn on this unit.

[2] Set the TV to an unused position for the unit viewing channel.

- Tune the TV until the display shown on the right appears. Refer also to the TV’s instructions regarding tuning.
- Set RF SELECT by pressing [ ] to select the colour TV system used by the TV set to be connected.

BG: PAL B.G./SECAM B.G.
I: PAL I
DK: PAL D/SECAM D.K.1


1) Keep both [CH] and [CH] on the unit pressed simultaneously for 3 seconds or more until the channel on the unit’s display changes to 1.

2) Disconnect the mains lead and then reconnect it.

3) Turn on the unit. Plug in Auto Tuning restarts.
Setting Up for VHS and DVD Quick Setup

Make basic settings for VHS. These settings are retained in memory until they are changed, even if the unit is turned off.

- Select the unit viewing channel (or the AV input) on the TV.
- Turn on the unit.
- Press [VHS].

Common procedures

1. Press [MENU].
2. Press [△ ▽] to select the menu.
3. Press [ENTER].

[1] Press [△ ▽ ] to select the desired language.


CLOCK SET

The clock operates for at least 3 years on its backup system in the event of power failure. After 3 years, clock back up can only be guaranteed for maximum of 1 hour.

[1] Set each item with [△ ▽ ▶].

- Press [△ ▽ ▶] to return to the previous item.
- At the set time (H:M) point:
  - When [△ ▽] is kept pressed, the indication changes in 30 minute steps.
  - There is no need to press [△ ▽ ▶] continuously.
  - This is a 24-hour clock.


Time Reset Function

If the clock is less than 2 minutes early or late, it can easily be reset to the proper time.

Example: Resetting the clock to 12:00:00
1) Display the “CLOCK SET” screen.
2) When the current clock display on the unit is between 11:58:00 and 12:01:59, press [MENU] as soon as it is 12:00:00. This will reset the time to 12:00:00.

Make basic settings for DVD. The QUICK SETUP screen assists you to make necessary settings such as Menu Language (→ 37) and TV Aspect (→ below).

- Select the unit viewing channel (or the AV input) on the TV.
- Turn on the unit.
- Press [DVD].

1. Press [SETUP].
2. Follow the messages and make the settings using [△ ▽ ▶ ] and [ENTER].

Diamond To change these settings later
Select “QUICK SETUP” in “Others” tab (→ 37).
Diamond To return to the previous screen
Press [RETURN].

Notes:
- The “QUICK SETUP” screen only appears by pressing [SETUP] when the unit is turned on for the first time. If the settings are not completed in “QUICK SETUP”, the “QUICK SETUP” screen will always appear whenever [SETUP] is pressed. To avoid reappearance of “QUICK SETUP” screen, or to abort the use of “QUICK SETUP”, select “NO” in the “Would you like to use QUICK SETUP?” screen.
- All settings will be default by selecting “Re-intilialise Setting” in the “Others” tab. To reset the DVD QUICK SETUP, follow the above steps 1 and 2.

TV Aspect

Select “4:3” (regular) or “16:9” (widescreen) to suit your TV.

- If you have a regular 4:3 TV, you can also select how video on some discs is shown.
- If you have a wide-screen TV (16:9), you can select how wide software is shown in the letterbox style on a 4:3 aspect TV.
- Widescreen software is shown in the 4:3 Pan & Scan (initial setting) style on a 4:3 aspect TV.
- Widescreen software is expanded to fill the screen of a 4:3 aspect TV (unless prohibited by the producer of the disc).
- If you have a wide-screen TV (16:9), you can select the style with the TV’s screen mode function.
## Playback

1. **Insert a recorded video cassette tape.**
2. **Press [PLAY].**
   - Play starts automatically if you insert a tape which its tab has been removed (Tapes ➔ 4).

### Controls
- **Pause**
  - Press this button during playback. Press [PLAY] or [REW] to restart.
- **Slow**
  - Press and hold for 2 seconds or more.
- **Fast-forward/Rewind** (while stopped)
  - Press these buttons in the stop mode. Press [STOP] to cancel.
- **Cue/Review** (during play)
  - During playback, tap or keep pressing these buttons. If you keep pressing these buttons, playback restarts by releasing them.
- **Jet Search**
  - During playback, tap these buttons twice. You can increase Cue/Review search speed.
- **Jet Rewind**
  - Press this button to obtain a higher speed Rewind. The "J. REW" indication appears on the TV screen (except when the remaining tape time indication appears).
- **Cinema Mode**
  - This function creates an impression that the image of the picture playback from the VCR will have the same impression as during watching movie in the Cinema. (➔ 14)
- **Eject**
  - Press this button to remove the video cassette.
  - Or, keep pressing [STOP] on the remote control for at least 3 seconds.

### Repeat Playback
At the end of the programme, the tape rewinds to the beginning of the programme and plays it again (if there is at least 5 seconds blank at the end of the programme). This repeats until you cancel it.

### Note:
- To adjust tracking control manually ([TRACKING/V-LOCK])
  - ➔ 14

---

1. **Select the unit viewing channel (or the AV input) on the TV.**
2. **Press [VHS] to turn on the unit.**
3. **Press [VHS].**
4. **Insert a recorded video cassette tape.**
5. **Press [1] PLAY.**
   - Play starts automatically if you insert a tape which its tab has been removed (Tapes ➔ 4).
6. **To restart play**
   - Press [PLAY].

---

Note:

- To adjust tracking control manually ([TRACKING/V-LOCK])
  - ➔ 14
Playback

Cinema mode

Press [CINEMA MODE].

- Each time you press the button, the indication changes in the following order:

  CINEMA OFF → CINEMA 1 → CINEMA 2

- CINEMA OFF: Normal mode (Initial Setting)
- CINEMA 1: Sharper images and enhances detail in dark scenes
- CINEMA 2: Clearer images and enhances detail in dark scenes

Notes:

- The Cinema mode works for playback picture only.
- During stop mode, the indication will show by pressing the [CINEMA MODE] button, but there will be no changes on the image.
- When the unit is off, an inserted video cassette can be played back by pressing [1 PLAY].
- You can eject tapes when the unit is in standby mode. It switches back to standby once it ejects the tape.
- When the tape reaches its end, this unit automatically rewinds it to the beginning.

Notes:

- Jet Search, cue, review or slow playback will be automatically released after 10 minutes, and for still playback, it will be released after 5 minutes.
- The tape counter does not appear during Jet Rewind.
- Depending on a cassette or the operating condition, Jet Rewind may not work or change the rewind speed somewhat.
- During playback function other than normal playback, horizontal noise bars may appear in the picture, the colour of the picture may be unstable, or the picture may be otherwise distorted.
- When you play back a tape recorded in the LP mode, the picture may be turned into monochrome. (15)
- When you play back a tape recorded in the EP mode, the picture and the sound may be unstable. However, these are not malfunctions. (15)
- During timer recording, OTR and fast-forwarding do not work.

Adjusting the Playback Picture

Manual tracking

The unit usually makes tracking adjustments, but you may need to do it manually, if noise appears on a tape recorded from other equipment.

During play, press [+TRACKING/V-LOCK] or [−TRACKING/V-LOCK].

Repeat until the noise disappears.

Vertical locking adjustment

Adjust the vertical to stop the picture jiggling while paused.

While paused, press [+TRACKING/V-LOCK] or [−TRACKING/V-LOCK].

Repeat until the jiggling stops.

Notes:
- This may not work with some TV models and tapes.
- You can also adjust the tracking and vertical with [CH] or [CH] on the unit.

NTSC Playback

Tapes recorded in the NTSC system can be played back via a PAL system TV.

- To record in the NTSC system, set "NTSC INPUT SELECT" (OPTION → 22).
- Select "on PAL TV" in "NTSC PB SELECT" to view the NTSC recording in colour (OPTION → 22).
- On some TVs, the playback picture may roll up or down. If your TV has V-HOLD control or equivalent function, use it to adjust the picture.

Note for only NTSC Playback on PAL system TV

This function is designed to allow only the playback of tapes recorded by NTSC signals on a PAL system TV. The NTSC signal is not completely converted to a PAL signal. For this reason, images playback by this function cannot be recorded correctly on other VHS.

Notes:
- This may not work with some TV models and tapes.
- You can also adjust the tracking and vertical with [CH] or [CH] on the unit.
- This function is designed to allow only the playback of tapes recorded by NTSC signals on a PAL system TV. The NTSC signal is not completely converted to a PAL signal. For this reason, images playback by this function cannot be recorded correctly on other VHS.

Note for only NTSC Playback on PAL system TV

This function is designed to allow only the playback of tapes recorded by NTSC signals on a PAL system TV. The NTSC signal is not completely converted to a PAL signal. For this reason, images playback by this function cannot be recorded correctly on other VHS.

Note for only NTSC Playback on PAL system TV

This function is designed to allow only the playback of tapes recorded by NTSC signals on a PAL system TV. The NTSC signal is not completely converted to a PAL signal. For this reason, images playback by this function cannot be recorded correctly on other VHS.

Note for only NTSC Playback on PAL system TV

This function is designed to allow only the playback of tapes recorded by NTSC signals on a PAL system TV. The NTSC signal is not completely converted to a PAL signal. For this reason, images playback by this function cannot be recorded correctly on other VHS.
Recording

1. Select the unit viewing channel (or the AV input) on the TV.
2. Press [VHS].
3. Check that the clock is set to the correct time. If it has not been set, refer to page 12.

1. Insert a video cassette tape with an intact erasure prevention tab.

2. Press [CH] or [CH] to select the TV station.
   - If you keep pressing these buttons, the channels change quickly.
   - You can also select the channel with the numeric buttons.
     Example: “5”; [5], “15”; [15]

3. Press [REC MODE] to select the recording mode.
   Each time you press the button: SP > LP > EP > SP


- To stop recording
  Press [STOP].
- To interrupt recording
  Press [H] during recording. Press it again to continue recording.

Recording mode

- **SP**: Provides standard recording time, optimum picture and sound quality.
- **LP**: Provides double recording time with slightly reduced picture and sound quality.
- **EP**: Provides triple recording time with slightly reduced picture and sound quality.

Notes:

- Even if the tape you use is labeled “S-VHS”, it is not possible to record in the S-VHS system with this unit. It records in normal VHS system.
- You cannot change channels while recording. You can change channels while in the pause mode.
- When you play back a tape recorded in the EP mode, the monaural sound may be unstable.
- When you start the recording in the EP mode, “EP” indication on the unit’s display flashes for about 8 seconds.

Using another device while recording

You can watch another TV programme or play discs while recording. The recording will not be affected.

- **TV**
  1. Press [CH] or [CH] to select the desired TV programme.

- **DVD**
  1. While recording, press [DVD].
  2. Insert the disc and press [PLAY] to start play. (+ 24)
Recording

One-Touch Recording (OTR)
You can start recording quickly and set a duration.

During recording, press [REC/OTR] on the unit repeatedly.
Select the desired recording duration.
Each time you press the button, the indication on the unit’s display changes as follows:
Counter display (normal recording mode) → OFF 30 (min.) →
OFF 60 (min.) → OFF 90 (min.) → OFF 120 (min.) →
OFF 180 (min.) → OFF 240 (min.)
Current time (normal recording mode)

≥ The unit will automatically switch off when OTR is completed.

To stop OTR at any time
Press [STOP] or [REC/OTR] (Q/VHS).

Notes:
≥ The OTR function works during normal recording only.
≥ When the tape reaches its end during OTR, the unit will turn itself off.

Recording from an External Source
You can record from other video sources (VHS, camera, etc.).
≥ Connect the other equipment to this unit as shown. If audio output
on the other equipment is monaural, use a stereo-monaural
conversion cable (not supplied).
≥ Insert a recorded cassette tape with an intact erasure prevention
tab.
≥ Set A1 or A2 with [INPUT SELECT] to select the audio/video
source required.

[1] Press [PLAY].
Find the recording start point.

[2] Press [II/Pause], then press [REC].
Put the unit in the recording standby mode.

[3] Start play on the other equipment.


≥ To stop recording
Press [STOP].

TAPE REFRESH
You can delete all contents in a cassette (the picture, sound and Jet
Navigator data).

For recording while “JET NAVIGATOR” is set to “ON”
Be sure to set “JET NAVIGATOR” to “ON” (OPTION 22).

For recording while “JET NAVIGATOR” is set to “OFF” or
recordings on another VHS
Be sure to set “JET NAVIGATOR” to “OFF” (OPTION 22).

[1] Insert a cassette that you want to delete
the cassette’s contents and press [MENU].

[2] Press [▲▼] to select the “TAPE REFRESH”, and
press [ENTER].

[3] Press [ENTER] for 2 seconds or more to
start the tape refresh function.
The tape refresh function starts.
≥ The tape is rewound to the
beginning, and it is fast-
forwarded while erasing
the tape.
≥ When the tape reaches
the end, this unit
automatically rewinds it to
the beginning.

Note:
≥ When a video cassette with a broken erasure prevention tab is
inserted, this function is not activated.
Timer Recording

Up to 16 timer programmes, including weekly and daily programmes, can be recorded for up to one month in advance by setting the timer.

- Select the unit viewing channel (or the AV input) on the TV.
- Insert a video cassette tape with an intact erasure prevention tab (→ 4).
- Check that the clock is set to the correct time. If it has not been set, refer to page 12.
- Press [VHS].

In case of 'JET NAVIGATOR' is set to ‘ON’ (→ 19):

1. Press [PROG/CHECK].

2. Press [◄►] to set the date on which the TV programme will be broadcast, and press [▼].
   - Current date (e.g. 17th)
   - The date before one month later (e.g. 16th)
   - Daily: SU-SA → MO-SA → MO-FR
   - Weekly: SU → ... → SA (SU=Sunday, MO=Monday, TU=Tuesday, WE=Wednesday, TH=Thursday, FR=Friday, SA=Saturday)

3. Press [◄►] to select the programme position of the desired TV station, and press [▼].
   - Select “A1” or “A2” when recording from an external source (→ 16).
   - You may also use [INPUT SELECT] and numeric buttons to select the channel position.

4. Press [◄►] to set the starting time, and press [▼].
   - When [◄►] is kept pressed, the indication changes in 30-minute steps.

5. Press [◄►] to set the ending time, and press [▼].
   - When [◄►] is kept pressed, the indication changes in 30-minute steps.

6. Press [◄►] to set the desired Rec Mode, and press [▼].
   - Recording Mode Auto Change function (→ right)
   - You may also use [REC MODE] to set the recording mode.

7. Press [◄►] to select the category. Then, select the desired category by pressing [▲▼◄►].

8. Press [ENTER] to revert to the previous display.

9. Press [TIMER] to switch this unit to the timer recording standby mode.

- When ‘JET NAVIGATOR’ is set to ‘ON’, for example, the ‘PROGRAMME IS COMPLETE. REMAINING PROGRAMME 49.’ message appears. (→ 19)
- When ‘JET NAVIGATOR’ is set to ‘OFF’, the ‘PROGRAMME IS COMPLETE.’ message appears. (→ 19)

These messages will not appear if timer recording is started immediately after [TIMER] is pressed.

To check the timer recording or the timer recording standby on the unit

The [TIMER REC] indicator on the unit turns on and the " " indicator lights up on the unit’s display while the unit is waiting for the timer recording or the timer recording is being activated.

When you want to play back or to activate other functions, you should cancel the timer recording. (→ below)

If you attempt to operate the unit without canceling the timer recording, the " " indicator blinks. (→ below)

To release the unit from timer recording standby

For example, if you want to record something else before the programme start time:

Press [TIMER] to make " " stop.

- Be sure to press [TIMER] before the programme start time to put the unit on recording standby.
  - The programme only works if " " is on.

Recording Mode Auto Change Function

If a timer recording is performed in SP mode, this function automatically changes the recording mode if the unit determines that the remaining tape time is insufficient to record the entire programme.

If the remaining tape time is still not sufficient even in LP/EP mode, the programme cannot be recorded to the end.

The recording mode will change as follows:

<table>
<thead>
<tr>
<th>PAL system: SP → LP</th>
<th>NTSC system: SP → EP</th>
</tr>
</thead>
<tbody>
<tr>
<td>This function cannot change the recording speed to the EP mode for PAL system.</td>
<td></td>
</tr>
</tbody>
</table>

- When using a 60-min. tape

Timer programming

<table>
<thead>
<tr>
<th>1st programme (30 min.)</th>
<th>2nd programme (60 min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video tape</td>
<td></td>
</tr>
<tr>
<td>30 min. at SP</td>
<td>15 min. at SP</td>
</tr>
<tr>
<td>45 min. at EP</td>
<td></td>
</tr>
</tbody>
</table>

- The tape length must be set correctly (→ 22).
- Sometimes tapes may not work correctly.
- If the recording speed changes during a timer recording, some picture distortion will occur at that point.
Timer Recording

To Check and Cancel a Timer Programme

   - The Timer Programme List screen appears.

   - Every time you press [PROG/CHECK], the cursor shifts below. You can also select the programme by pressing [▲ ▼].
   - When 'JET NAVIGATOR' is set to 'ON', press [▼] (cursor) to display the category. Press [▼] (cursor) again to make the previous display appear.


Notes:
- If timer recording is not completed (due to insufficient tape or cancellation by the user), the programmed timer recording data will be cancelled from the memory by 4 A.M. two days later. However, if the timer recording function is activated at that time, the programmed timer recording data will not be cancelled.
- After you cancel the programmed timer recording data, the current recording mode during the stop mode is displayed.
- During timer recording, if you turn off the power, running indicator, play indicator or recording mode disappears from the unit’s display.
- During recording, timer recording or dubbing, the "O" indicator lights up even while DVD section is activated.
- During timer recording or timer recording standby, the "O" indicator lights up even while DVD section is activate.

Timer Recording for the Same Programme on the Following Week (Intelligent Timer)

When you wish to set the timer recording for programmes which will be recorded within 1 week and you have had the programmes before, you can record them soon with i-TIMER function without entering day and time by buttons.
- This unit must be turned on, or in timer recording standby mode.
- Confirm that the TV is on and this unit viewing channel is selected.
- Insert a video cassette with an intact erasure prevention tab.

[1] Press [I-TIMER] to display the menu for Intelligent Timer on the TV screen.
   - The list of the timer programmes which are recorded before appears.

[2] Press [▲ ▼] to select the timer programme which you want to record on the following week.

   - The Timer Programme List screen appears.

[4] Press [▼ TIMER] to switch this unit to the timer recording standby mode.

To cancel a i-Timer Programme
1) Press [I-TIMER] and then press [▲ ▼] to select the programme which you want to delete.
2) Press [CANCEL/RESET] to cancel.
3) Press [MENU] to exit the on-screen display.

Notes:
- Up to 16 i-Timer Programmes can be memorized.
- When i-Timer Programmes are increased to more than 16, the oldest one is deleted.
- The message "TIMER PROGRAMMES ARE FULL" appears when timer programmes are full and [I-TIMER] is pressed.
Search Functions

- Select the unit viewing channel (or the AV input) on the TV.
- Press [VHS].

Jet Navigator

This unit can display a list of the recorded programmes on the inserted video cassette on the TV screen. You can then select the desired programme, and this unit will quickly reach its beginning and start playback.

To save Jet Navigator data

- The tape length of the inserted cassette must be set correctly. (➔ 22)
- The unit must not be in the timer recording standby mode.
- A programme of at least 15 minutes must be recorded on the tape.

1) Press [MENU] to display the VHS MENU.
2) Press [A ● V] to select “OPTION” and then press [ENTER].
3) Press [A ● V] to select “JET NAVIGATOR” and then select “ON” with [◄ ►].
4) Record programmes (➔ 15 – 18).

The unit makes the list as you record.

Notes:
- The Jet Navigator programme list displays up to 14 programmes. If you have already stored 14 programmes on a tape and then store another one, the oldest item is replaced.
- Signals approximately 10 seconds before and after the current tape position are checked. During checking, “CHECKING JET NAVIGATOR DATA.” is displayed on the TV screen.
- Checking cannot be performed properly where there are no signals, such as unrecorded portions of the tape. In this case, press [NAVI] at a portion of the tape where a programme has been recorded on this unit. When a signal can still not be found, the message “CAN NOT FIND JET NAVIGATOR DATA.” appears on the TV.
- The Jet Navigator list is stored in each tape. Up to 20 tapes and 50 programmes can be registered.
- “PROGRAMME IS COMPLETE. REMAINING PROGRAMME 0. DELETE JET NAVIGATOR DATA.” appears when you try to store more than 50 programmes. The new item is added and the oldest item is deleted.
- “REMAINING CASSETTE 0. FOR JET NAVIGATOR.” appears when you try to store items for more than 20 tapes. Programmes recorded without deleting data as instructed are not registered in the list.
- The list does not appear when playing tapes recorded on other equipment.
- When recording over the same location on a tape, it may not work correctly.

To cancel the Jet Navigator list
Press [MENU].

To delete the Jet Navigator data of a video cassette tape
Press [CANCEL/RESET] for more than 5 seconds while the Jet Navigator list appears. “– –” appears on the list.

To delete all the Jet Navigator data stored in the unit’s memory (➔ 22)

To demonstrate the Jet Navigator function
Press [NAVI] for more than 5 seconds without inserting a tape.

Time Stamp Function

When playback starts after searching with Jet Navigator function or index search function (➔ 20), recorded programming data (called Time Stamp) appears on the TV screen for approx. 5 seconds.

Note:
- Time Stamp does not appear if the beginning of the Jet Navigator data is not recorded 10 minutes before and after the current tape position even when index signals are recorded.
Search Functions

Set the category
You can find what kind of programmes are recorded with the character and the icon indications.
1) While the Jet Navigator list appears, press [NAVI] and then press [1] (cursor).
2) Press [342 1] to select the desired category.
3) Press [ENTER].

VHS Index Search System (VISS)
This unit automatically adds special index signals on the tape when recording starts. You can find the desired programme quickly with these signals.

During stop or playback,
Press [■►] (backward) or [►■] (forward).
• Each press increases the number of skip.

To cancel the Index Search or to stop playback
Press [STOP].

Notes:
• Up to 20 index signals can be searched for from both directions.
• When you press either one of the button too many times, you can control the number of skips by pressing the opposite button.
• The figure on the display decreases by 1 each time an index signal is located.
• This feature may not work correctly if the marks are too close together. Make recordings of at least 5 minutes.
• Index signals are recorded in the following cases
  • When a recording is started by pressing [●REC].
  • When [●REC] on the remote control is pressed during recording.
  • When timer recording is activated.

Easy Programme Playback
You can find a timer-recorded programme with One-touch operation and play it back easily.
• Set timer recording for the programme you wish to view.

Press [PROG PLAY].
• As soon as the timer-recorded programme is found, playback starts automatically.

To cancel the Easy Programme Playback
Press [STOP].

Notes:
• The unit memorizes the position at which timer recording is set to the standby mode by pressing [●TIMER] as the start point of Easy Programme Playback.
• When there is no programmed timer recording data, the message “CANT FIND PROG PLAY DATA.” appears on the TV.
• If you take out the cassette after a timer recording has finished, this function does not work.

Set the category

Easy Programme Playback

To cancel the Easy Programme Playback

Notes:
Settings Using the On-Screen Display

Change the settings to suit your preferences and to suit the unit to the environment in which it is being used. These settings are retained in memory until they are changed, even if the unit is turned off.

- Select the unit viewing channel (or the AV input) on the TV.
- Press [VHS].

**Common procedures**

1. Press [MENU].
2. Press [▲ ▼] to select the menu.
3. Press [ENTER].

- ◇ For CLOCK SET (► 12)
- ◇ For LANGUAGE (► 12)

**TUNER PRESET**

The unit tunes automatically when you plug it in and turn it on for the first time (► 11), but you can start the process again if necessary.

- Select any programme position except “A1”, “A2” or “dc”.

**Auto Tuning**

Auto tuning searches for TV stations from VHF minimum to UHF maximum and memorizes every tuned programme position. Other programme positions are skipped (Channel plan below).

1. Press [▲ ▼] to select “AUTO TUNE”.
2. Press [◄ ►] to start Auto Tuning.
   - It may take up to 5 minutes or more to complete.
   - When Auto Tuning is completed, the on-screen display disappears and programme position 1 is selected.

- ◇ To stop halfway through
  Press [MENU].
- ◇ If the unit is not correctly tuned by Auto Tuning
  Follow the procedure on the right (Manual Tuning).

**Channel plan**

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>VHF</th>
<th>UHF</th>
<th>CATV</th>
</tr>
</thead>
<tbody>
<tr>
<td>B G</td>
<td>C.C.R Standard (B.G.H)</td>
<td>E2-E12</td>
<td>E21-E69</td>
</tr>
<tr>
<td>I</td>
<td>Hong Kong Special Administrative Region of China, UK (I)</td>
<td>–</td>
<td>E21-E69</td>
</tr>
<tr>
<td>D K</td>
<td>East Europe (D.K.K)</td>
<td>R1-R12</td>
<td>E21-E69</td>
</tr>
<tr>
<td>China (D)</td>
<td>–</td>
<td>C1-C12</td>
<td>C13-C57</td>
</tr>
</tbody>
</table>

**Manual Tuning**

1. Press [▲ ▼] to select “CH” and select the channel with [◄ ►].
2. Press [▲ ▼] to select “CLEAR” and select “OFF” with [◄ ►].
   - To select a blank programme, select “ON”. If you select “ON”, proceed to step 6. Select the channel again, select “OFF”.
   
   - Repeat steps 1 to 2 for another unoccupied programme positions to skip during the selection of the programme positions.

3. Press [▲ ▼] to select “AUDIO SYSTEM” then select the broadcasting system with [◄ ►].
   - BG: PAL B.G.H/SECAM B.G
   - I: PAL I
   - DK: PAL/D/SECAM D.K.K

4. Press [▲ ▼] to select “COLOUR SYSTEM” then select “AUTO” with [◄ ►].
   - The unit automatically distinguishes between PAL and SECAM broadcasts.
   - If the picture lacks of colour when “AUTO” is selected, select “MESECAM” or “PAL”.

5. Select “SEARCH” with [▲ ▼] then press [◄ ►] to start the Manual Tuning.
   - If the desired TV station has not been tuned, press [◄ ►] again.
   - Press [MENU] and repeat steps 1 to 5 for each programme position you want to tune to a station.
   - You can also set the programme position directly by entering the number with the numeric buttons [◄ ►] below.

**Direct Tuning**

After you select “SEARCH”, press the numeric buttons to select the programme position.

- For other channels that require tuning, repeat steps above.


**Fine Tuning**

1. Press [▲ ▼] to select “CH” and select the channel with [◄ ►].
2. Select “FINE” with [▲ ▼] then press [◄ ►] to obtain the best tuning condition.
   - Press [ENTER] to return the tuning to its former state.
Settings Using the On-Screen Display


---

**SYSTEM**
Set the Colour TV System.

[1] Select "AUTO" with [△ ▼].
- The VHS automatically distinguishes between PAL, SECAM/MESECAM and NTSC signals. If the picture lacks of colour during AV external recording, playback or recording from DVD to VHS, set to "PAL", "MESECAM" or "NTSC".
- When you want to record or play back in black and white, set to "B/W".


---

**OPTION**
Press [△ ▼] to select the item and press [◄ ►] to change the setting.

---

⚠️ To exit the settings screen
Press [MENU] twice.
Settings Using the On-Screen Display

Various Indications in On-screen Display

To see these displays, set the OSD item in the “OPTION” menu to “AUTO” (→ 22).

Press [VHS STATUS].

The time and operation details appear on the screen for about 5 seconds.

Notes:
≥ These displays do not appear when paused or during slow play.
≥ The on-screen display may be distorted depending on the playback tape or the input signal.

Changing Audio

To change the audio, press [AUDIO].

The audio changes as follows:
When playing a tape: LR → L → R → Normal audio track → LR
While watching the TV: LR → L → R → Normal → LR
● You cannot change the audio while you use “dc” channel (→ 38).

Various Indications in On-screen Display:

1. Channel display
2. L and R indicators
   The Left (L) and Right (R) indicators show which sound mode is selected as follows:
   - Stereo: Both the L and R indicators appear.
   - L: The L indicator appears.
   - R: The R indicator appears.
   - Normal: Neither the L nor R indicator appears.
3. Operation status display
   Shows the time and tape counter
   Pressing [VHS STATUS] once makes the on-screen display appears. After that, press the button repeatedly to change the display as follows:
   - Present time → Tape counter → Remaining tape time → Present time
   During Index Search: “S 01” to “S 20” is displayed. (→ 20)
   During Jet Rewind: “J.REW” is displayed. (→ 13)
   ● Press [CANCEL/RESET] to reset the tape counter (elapsed time) to “0:00:00”.
   ● The remaining time is approximate. It will be incorrect if you set the wrong tape time in the “TAPE SELECT” item in the “OPTION” menu and if the tape is of poor quality.
4. Cassette-in indicator
   Shows whether you have loaded a cassette.
5. Colour system indicator (→ 22)
   Shows selected colour TV system except “AUTO”.
6. Recording mode indicator (→ 15)
7. Cinema mode indicator (→ 13, 14)

Changing Audio:

To change the audio, press [AUDIO].

The audio changes as follows:
When playing a tape: LR → L → R → Normal audio track → LR
While watching the TV: LR → L → R → Normal → LR
● You cannot change the audio while you use “dc” channel (→ 38).
Playing Discs—basic Play

1. Press [OPEN/CLOSE] to open the disc tray.

2. Place the disc with the label facing upward.

3. Press [PLAY].

- The disc tray closes and play begins. It is normal for sound and pictures to take time to start.
- Press [OPEN/CLOSE] to open the disc tray.

- Press [OPEN/CLOSE] to close the disc tray.

4. Press [STOP].

- When “ ” in the unit’s display flashes, the Resume function is active. The unit memorizes the position you press [STOP].

- Resume function

- Press [PLAY] once to start from this position.

- Press [STOP] again to clear it.

5. Press these buttons to skip chapters, tracks or programmes.

- Each press increases/decreases the number of skips.

- After skipping, the unit returns to the previous state, play or pause.

- If the marker is memorized, the marker position is accessed.

- When you skip groups

- Press [ ] (backward) or [ ] (forward).

6. Press this button during play.

- Press [ ] (backward) or [ ] (forward).

- Press [ ] to stop.

7. Press these buttons while paused.

- Each press shows the next or previous frame.

- Press and hold to change in succession.

- For forward only, pressing [ ] repeatedly also shows frame by frame.

8. Change the unit’s display

- Counter display

- Disc information.

9. Press this button during play.

- The disc tray comes out with this button.

- You can eject a disc even if the power is turned off.

To restart play

Press [PLAY].
Playing Discs-basica Play

Notes:
- If "×" appears on the TV, the operation is prohibited by the unit or disc.
- When the unit is first turned on and there is a disc loaded, it may start playing automatically.
- When the whole disc has finished playing, the unit automatically stops. Some discs show a menu screen.
- When "Press PLAY to resume play" is displayed, this position is memorized even after turning off the unit. (Power off resume)
- The disc keeps rotating when showing a still picture (pausing).
- Pressing [◄◄][◄◄] or [►►][►►] may take you to a menu screen depending on the disc or the portion played (e.g. Video CDs).
- You cannot move backwards during slow-motion and frame-by-frame.
- Each press or hold [◄◄] or [►►] accelerates the search or the slow-motion speed in 5 steps.
- Slow-motion and frame-by-frame only work on moving pictures.

When a menu screen appears on the TV

Press the numeric buttons to select the desired item.
Example: "03": [3] "10": [a10][a1][b10]
- You can also use [▲▼◄◄] to select items. Press [ENTER] to confirm your selection.

- To revert to the menu screen
  Press [MENU (PLAY LIST)].
- To show the top menu
  Press [TOP MENU].

Notes:
- Many Video CDs with playback control display a menu on the TV when played back.
- The operation may differ depending on the disc. Read the disc's instructions for further details about operation.
- Discs continue to rotate while menus are displayed.
  Press [◄◄STOP] when you have finished viewing to preserve the unit's motor and your TV screen.
Useful Functions

Starting Play from a Selected Item

Press the numeric buttons.  
Example:  "10": [0][10][1][0][0]

Press the numeric buttons then press [ENTER] or [PLAY].  
Example:  "125"; [1][2][5][5][ENTER] or [PLAY]

If the Video CD has playback control
1) Press [STOP] to clear "PBC".
2) Press the numeric buttons.

Notes:
- To return to the "PBC", press [STOP] and then press [MENU] (PLAY LIST).
- This works only when stopped in some discs.
- This may not work depending on the disc or the play status.

Starting Play from a Selected Group

A folder on WMA/MP3 and JPEG discs is treated as a group.

1) Press [FUNCTIONS] and press [▲▼] to select "Group".
2) Press [▲▼] (cursor) and then press [▲▼] to select the item and press [ENTER].

Quick Replay

During play, press [QUICK REPLAY] to skip back a few seconds.

Note:
- This may not work on some parts of a disc or some kind of discs.

Changing Play Speed

1) Press [PLAY SPEED] and press [▲▼] to select "Normal", "Fast" or "Slow" or press [◄►] to adjust.

2) Press [ENTER].
- From × 0.6 to × 1.4 (in 0.1 units)
- After you change the speed:
  - Digital output switches to PCM-2ch.
  - Sampling frequency of 96 kHz is converted to 48 kHz.
- To return to normal play  
  Press [◄►PLAY].

AV Enhancer

By just pressing this one button the disc type is automatically determined and the best audio and video settings which are indicated below are configured.

Press [AV ENHANCER] to select "On".

Off:  Enables AV Enhancer.  The user settings are valid.
Audio settings:  Advanced Surround (► 31)  
Dialogue Enhancer (► 35)  
Sound Enhancement (► 35)  
Video settings:  Picture Mode (► below)

On:  Effects are automatically applied to audio, video, and photographs according to the disc being played back.  The user settings are invalid.

Picture Mode

This function does not work when AV Enhancer is turned "On".

1) Press [FUNCTIONS] and press [▲▼] to select "Other Settings".
2) Press [◄►] (cursor) and then press [▲▼] to select "Picture Menu" and press [ENTER].
3) Select "Picture Mode" and press [▲▼] to select desired picture mode.
4) Press [ENTER].
5) Press [RETURN] to exit.

Normal:  Normal mode (Initial Setting).
Dialogue Enhancer:  Mellow images and enhances detail in dark scenes.
Sound Enhancement:  Sharpens images and enhances detail in dark scenes.
Animation:  Suits the image quality for animation.
Dynamic:  You can enjoy dynamic images with emphasized contrast.

Rotating Pictures

1) Press [FUNCTIONS] and press [▲▼] to select "Rotate Picture".
2) Press [◄►] (cursor) and then press [▲▼] to select "Right" or "Left".
3) Press [ENTER].
4) Press [RETURN] to exit.
Manual Skip


Play starts from approximately 30 seconds later. Convenient when you want to skip commercials etc.

During play

Press [MANUAL SKIP].

- It is not possible to skip the program if the start of the next program is within about 30 seconds of the point you skipped from.

Displaying Current Playback Condition (QUICK OSD)

Press [QUICK OSD].
The current playback condition screen is displayed.

e.g. [OSD] Current playback number Elapsed play time

Title 1 Chapter 4 Time: 0:41:23

Press [QUICK OSD] twice to return to the playback screen.

Common procedures

While stopped, press [PLAY MODE].

Each time you press the button:

Press [PLAY] when you find a title/program to play.

Program/Random Playback

Common procedures

While stopped, press [PLAY MODE].

Program Playback → Random Playback → Off (Normal play)

Program Playback

You can select up to 32 items to play in the order you choose.

[1] Press the numeric buttons to select a group, title, chapter or track.

Example: "10": [1]→[0]→[0]

[MP3] [WMA]

"125": [1]→[2]→[0]→[0]→[ENT]

- Repeat this step to programme other items.


- You may also select "Play" with [►] (cursor) and press [ENTER] to start playing.
- Some items will not be played even if you programmed them.

When you use the cursor buttons to select the item

1) Press [ENTER] and [►] to select an item.
2) Press [ENTER] to register.
   - Select "ALL" to enter all the items in the selected disc, title or group.
   - Select "Clear all" to clear all the items

To change and cancel a programme

1) Press [◄] to select an item and press [ENTER].
2) Carry out step 1 to change an item, or press [CANCEL/RESET] to cancel.
   - You can also select "Clear" with [◄] and press [ENTER] to cancel.

To clear the whole programme

Select "Clear all" with [◄] and press [ENTER].

Random Playback

The unit plays chapters in one DVD title or all tracks in a Video CD and audio CD at random.

[1] Press [◄] to select a group or a title.


Notes:
- These functions does not work during HighMAT disc play. To disable "HighMAT" change setting to "Play as Data Disc" (Other Menu → 35).
- [DVD] Some items cannot be selected.
- [DVD] [MP3] [WMA] Times are not displayed while programming.
- When program/random play ends, the unit stops and the screen reverts to the play mode display.
- The programme is cleared when you turn the unit off, open the disc tray.
Using Navigation Menus

Playing Data Disc

- Select the unit viewing channel (or the AV input) on the TV.
- Press [DVD].

Using Playback Menu (except JPEG files on DVD-ROM)

While the menu screen is displayed
1) Press [A] to select “All”, “Audio”, or “Picture” and press [ENTER].
   - To display/exit the screen
   - Press [TOP MENU].

Using Navigation Menus

1) Press [MENU] (PLAY LIST).

2) Press [A Y] to select the group or audio/picture content and press [ENTER].
   - To enjoy listening to WMA/MP3 contents while showing a JPEG image on the screen.
   - Select a JPEG file first, and then select audio contents.
   - (The opposite order is not effective.)
   - To exit the menu
   - Press [FUNCTIONS RETURN] to display the sub menu

Using the submenu

1) While the Navigation Menu screen is displayed, press [FUNCTIONS].
2) Press [A Y] to select the submenu and press [ENTER].
   - Multi-: Groups and contents
   - List: Contents only
   - Tree: Groups only
   - Thumb.: Thumbnail images
   - Next group: To the next group
   - Previous group: To the previous group
   - All: WMA/MP3 and JPEG files
   - Audio: WMA/MP3 only
   - Picture: JPEG files only
   - Help display: To switch between guide messages and the elapsed play time indicator
   - Find: To search by content or group title (below)

Searching by a content or group title

Place the cursor on the group title to search a group, or place the cursor on the content title to search content.

Find

While the submenu screen is displayed
1) Select “Find”.
2) Press [A Y] to select a character and press [ENTER].
   - Repeat to enter another character.
   - Lower case is also searched.
   - Press [A] or [Y] to skip between A, E, I, O and U.
   - Press [B] to erase a character.

- You can remove “*” to search for the titles starting with that character.
- You can enter numbers with the numeric buttons.
3) Press [ENTER] to select “Find” and press [ENTER].
   - The search results screen appears.
4) Press [A Y] to select the content or group and press [ENTER].

Notes:

- MP3
  - This unit is not compatible with ID3 tags (→ 42).
  - If you play MP3 track that includes still picture data, it will take some time before the music starts playing and the elapsed time will not be displayed during this time. Even after the track starts, the correct play time will not be displayed.
  - MP3 files must have the extension “.MP3” or “.mp3”.
  - JPEG
  - You cannot play WMA files that are copy-protected.
  - WMA files must have the extension “.WMA” or “.wma”.

Using the submenu

- MP3: WMA: JPEG
  - Use a digital camera that meets the DCF (Design rule for Camera File system) standard. Some digital cameras have functions that are not supported by the DCF standard like automatic picture rotation which may render a picture un-viewable.
  - Do not alter the files in any way or save them under a different name.
  - JPEG files must have the extension “.JPG”, “.jpg”, “.JPEG”, or “.jpeg”.
  - This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (i.e. TIFF) or play the associated sound.
  - MP3: WMA: JPEG
  - Formats that can be used are ISO9660 level 1 and level 2 (except extended format).
  - Finalize the disc after recording. A disc that is not finalized may not be played back.
  - This unit is compatible with multi-session (→ 42) but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
  - This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (i.e. TIFF) or play the associated sound.

Notes:

- MP3
  - This unit is not compatible with ID3 tags (→ 42).
  - If you play MP3 track that includes still picture data, it will take some time before the music starts playing and the elapsed time will not be displayed during this time. Even after the track starts, the correct play time will not be displayed.
  - MP3 files must have the extension “.MP3” or “.mp3”.

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

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WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

Naming folders and files

At the time of recording, prefix folder and file names with 3-digit numbers in the order you want to play them.

- Depending on how you create files, they may not play in the order you numbered them or may not play at all.
Using Navigation Menus

Playing HighMAT Discs
A menu appears when you insert the disc.
While the menu is displayed, select the item following the on-screen instructions.
1) Menu: Takes you to the next menu which shows play lists or another menu.
2) Play list: Play starts
   ◇ To change the menu background
      Press [FUNCTIONS]. (The background changes to the one recorded on the disc.)
   ◇ To display the menu
      Press [TOP MENU].
   ◇ To exit the menu
      Press [STOP].

Selecting from the lists
1) During play, press [MENU] (PLAY LIST).
2) Press [◄] then [▲▼] to switch between the play list, group and content lists.
3) Press [►] (cursor) then [▲▼] to select an item and press [ENTER].
   ◇ To exit the list screen
      Press [MENU] (PLAY LIST) or [RETURN].

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Playing RAM/DVD-RW (DVD-VR) Disc

Direct Navigator
You can use the programme list to search for a desired programme to play.

1) Press [DIRECT NAVIGATOR].
   ◇ Titles appear only if you have entered them.
   ◇ You cannot change program and disc titles.

2) Press [▲▼] to select the programme.
   ◇ The programme selected is played in the background.
   ◇ You can also use the numeric buttons.
      Example: “03”; [3]
      “10”; [10]; [1]; [0]
   ◇ Press [►] (cursor) to show the contents of the programme.

3) Press [ENTER] to start play.
   ◇ To clear the programme list
      Press [RETURN], [ENTER] or [DIRECT NAVIGATOR].

Notes:
   ◇ The Direct Navigator programme list displays up to 99 programmes.
   ◇ Titles appear only if they have been entered.
   ◇ You cannot change programme and disc titles.

Playing a play list
You can play a play list (+5) created on other equipment such as a DVD video recorder.

1) Press [PLAY LIST].

2) Press [▲▼] to select the play list.
   ◇ You can also select play lists with the numeric buttons.
      Example: “03”; [3]
      “10”; [10]; [1]; [0]

3) Press [ENTER] to start play.
   ◇ To clear the play list screen
      Press [PLAY LIST] or [RETURN].

Note:
   ◇ Up to 99 play lists can be displayed.
To Enjoy Movies and Music More

- Select the unit viewing channel (or the AV input) on the TV.
- Press [FUNCTIONS]

Changing Soundtracks, Subtitles and Angles

Some discs have multiple, subtitle languages and camera angles and etc. and you can change them during play.
- DVD/V CD (SVCD only) Soundtrack and subtitle numbers may change even if corresponding soundtracks are not recorded.

Soundtracks  DVD/V  RAM  DVD-RW (VR)  VCD
During play, press [AUDIO].
  DVD/V : The number changes each time you press the button.
  RAM DVD  DVD-RW (VR) : Each time you press the button, the indication changes.
  LR → L → R → LR
- You can also use this button to turn on and off the vocals on karaoke discs. Read the disc’s instructions for details.
- Play restarts from the beginning of the soundtrack when playing DVD-RAM soundtracks that are accompanied by still pictures.
- Refer to 1 (→ 35) for audio signal type details.

Subtitles  DVD/V  RAM  DVD-RW (VR)  VCD (SVCD only)
During play, press [SUBTITLE].
  DVD/V VCD : You can change the subtitle language and turn the subtitles on and off.
  RAM DVD-RW (VR) : You can turn the subtitles on and off.

[1] Press [FUNCTIONS] and press [▲▼] to select “Subtitle”.
[3] Press [▲▼] to select the desired language and press [ENTER].

To clear the subtitles
1) Press [FUNCTIONS] then select “Subtitle”.
2) Press [▲▼] (cursor) [DVD/V VCD] and select “Off” with pressing [▲▼].
3) Press [ENTER].

DVD/V  Changing the position and brightness of the subtitles

During play,
1) Press [FUNCTIONS] and press [▲▼] to select “Other Settings”.
2) Press [▲▼] (cursor) then [▲▼] to select “Subtitle Position” or “Subtitle Brightness” and press [▲▼] (cursor).
3) Press [▲▼] to select “Subtitle Position” or “Subtitle Brightness” and press [▲▼] (cursor).
4) Press [▲▼] to adjust the position or brightness.
  ● Adjust position between 0 and –60 in 2 unit steps.
  ● For brightness, select “Auto” so the brightness adjusts automatically against the background, or level between 0 and –7.
5) Press [ENTER].

To clear/display the subtitles
1) Press [FUNCTIONS] then select “Subtitle”.
2) Press [▲▼] (cursor) [DVD/V VCD] and select “Off” or “On” with pressing [▲▼].
3) Press [ENTER].

Angles  DVD/V

During play,
1) Press [FUNCTIONS] and press [▲▼] to select “Angle”.
2) Press [▲▼] (cursor) to select the desired angle.

To exit the menu
Press [RETURN].
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**Advanced Surround**

**DVD-V [RAM] DVD-RW [VR] [VCD] [CD] [MP3] [WMA]**

You can enjoy a surround-like effect if you are using 2 front speakers (SP) or headphones (HP). The effect broadens when playing discs with surround effects and sound seems to come from speakers either side of you.

- To enjoy HP-mode, connect the unit to an equipment that has a headphone socket.

During play,

1. Press [FUNCTIONS] and press [34] to select "Other Settings".
2. Press [1] (cursor) then [34] to select "Audio Menu" and press [ENTER].
4. Press [34] to select the desired effect.
5. Press [ENTER].

- **Off**: Cancel (Initial Setting)
- **HP2**: Enhanced effect
- **SP1**: Natural effect
- **HP1**: Natural effect ↔ **SP2**: Enhanced effect

**Effective listening using the front speakers only**

- If "SP1" or "SP2" is selected, only the front speakers sound.
- To activate, then turn off the surround effects on other equipment.
- This function will not work, or will have less effect with some discs.
- Turn this function off if it causes distortion.

**Repeat Play**

**DVD-V [RAM] DVD-RW [VR] [VCD] [CD] [MP3] [WMA]**

When the elapsed play time/remaining play time is displayed.

**JPEG**

During play,

Press [REPEAT] and press [34] to select.

- **RAM DVD-RW [VR]**
  - Off ↔ Program ↔ All
  - While playing a play list
  - Off ↔ Scene ↔ Playlist
- **DVD-V**
  - Off ↔ Chapter ↔ Title
  - During program and random play, it is displayed "All".
- **CD**
  - Off ↔ Track ↔ All
- **MP3 [WMA]**
  - Off ↔ Content ↔ Group
  - Off ↔ Group

Notes:

- You can also repeat play of content and group on HighMAT discs.
- This may not work on some discs.
- If a DVD has 2 or more titles, it is not allowed to repeat the whole disc.
- This does not work during menu play of a Video CD with playback control.
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Variable Zoom Function

During play,

[1] Press [FUNCTIONS] and press [▲▼] to select “Other Settings”.

[2] Press [►] (cursor) then [▲▼] to select “Display Menu” and press [ENTER].


[4] Press [▲▼] to select the present aspect ratio and press [ENTER].

Auto ↔ 4:3 Standard ↔ European Vista ↔ 16:9 Standard

Cinemascope2 ↔ Cinemascope1 ↔ American Vista

Variety of screen sizes

4:3 Standard (4:3)

Cinemascope1 (2.35:1)

Cinemascope2 (2.05:1)

16:9 Standard (16:9)

American Vista (1.85:1)

European Vista (1.66:1)

■ Manual Zoom

During play,

[1] Press [FUNCTIONS] and press [▲▼] to select “Other Settings”.

[2] Press [►] (cursor) then [▲▼] to select “Display Menu” and press [ENTER].


The ratio changes in 0.01 units between 1.00 and 1.60 and in 0.02 units between 1.60 and 2.00.

Notes:
- The ratio automatically will return to 1.00 when you open the disc tray, change the source or turn off the unit.
- Refer to the disc’s instructions and “Variety of screen sizes” (→ above) for the aspect ratio of the picture.

Progressive Out (Component)

You can enjoy higher image quality than that output from the conventional video output terminal or S Video terminal (interlace and progressive output → 42).

- Connect to the component video input on a progressive compatible TV (→ 8). Video will not be displayed correctly if connected to an incompatible TV.

During play,

[1] Press [FUNCTIONS] and press [▲▼] to select “Other Settings”.

[2] Press [►] (cursor) then [▲▼] to select “Display Menu” and press [ENTER].


[5] Press [◄►] to select “Yes” and then press [ENTER].


To exit the menu
Press [RETURN]

Notes:
- All Panasonic TVs that have progressive input are compatible. Consult the manufacturer if you have another brand of TV.
- The VHS video may not be progressive-output.
- The TV will be disrupted for a moment but this is normal.
- Output from this unit is interlaced scanning if you have connected to the TV through VIDEO OUT or S VIDEO OUT terminals, regardless of the settings.
- When progressive output is on, closed captions will not be displayed.
To Enjoy Movies and Music More

**Digital Output**

When you have connected equipment through this unit’s COAXIAL DIGITAL AUDIO terminal († 9), change the settings for “PCM Digital Output”, “Dolby Digital”, “DTS Digital Surround” and “MPEG” († 37). You can enjoy the powerful movie theater and hall-like sound.

1. Press [SETUP].
2. Press [▲▼] to select “Audio”.
3. Press [▶] (cursor) then [▲▼] to select the item (→ below), and press [ENTER].
4. Press [▲▼] to select the item and press [ENTER].
5. Press [SETUP] to end the settings.

**PCM Digital Output**

Check the digital input limitations of the equipment you connect using COAXIAL terminal and select the maximum sampling frequency of PCM digital output.

- **Up to 48 kHz** (Initial setting): When connected to equipment compatible with 44.1 kHz or 48 kHz
- **Up to 96 kHz**: When connected to equipment compatible with 88.2 kHz or 96 kHz

**Notes:**
- Signals from copy-protected discs are converted to 48 kHz or 44.1 kHz.
- Some equipment cannot handle sampling frequencies of 88.2 kHz, even if they can handle 96 kHz. Read your equipment’s operating instructions for details.

**Dolby Digital, DTS Digital Surround and MPEG**†

**Bitstream** (Initial setting for Dolby Digital and DTS Digital Surround): Select if the equipment you connected can decode the signal.

**PCM** (Initial setting for MPEG †):  Select if the equipment you connected cannot decode the signal.

† MPEG: for NV-VP33GC only

**IMPORTANT**

Select “Bitstream” when the equipment can decode the bitstream (digital form of multi-channel data). Otherwise, select “PCM”.

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Manufactured under license from Digital Theater Systems, Inc. U.S. Pat. No’s. 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 and other U.S. and world-wide patents issued and pending. “DTS” and “DTS 2.0+Digital Out” are trademarks of Digital Theater Systems, Inc. Copyright 1996, 2003 Digital Theater Systems, Inc. All rights reserved.
Using On-Screen Menus

On-Screen Menus are menus that contain information about the disc or unit. These menus allow you to operate the unit by changing this information.

- Select the unit viewing channel (or the AV input) on the TV.
- Press [DVD].

Common procedures


2. Select the menu.
   - A: Select
   - B: Go to the next menu
   - C: Register
   - D: Return to the previous menu

3. Make the settings.
   - A: Select
   - B: Register


To cancel the menus
Press [FUNCTIONS] or [RETURN].

Main Menu

Program Group Title Chapter Track Playlist Content

To start from a specific item.

Time

*Except +R/-RW

To skip incrementally or decrementally (Time Slip for play only)
1. Press [ENTER] twice to show Time Slip indicator.
2. Press [A] to select the time and press [ENTER].
   - Press and hold [A] to change faster.
   - To start from a specific time* (Time Search)
   - To change remaining/elapsed time display

Audio

To display the current bitrate or sampling frequency

Thumbnail

To show thumbnail images

Subtitle

*On +R/-RW, a subtitle number may be shown for subtitles that are not displayed.

Marker (VR)

To recall a marker recorded on DVD-Video recorders

Angle

*30

Rotate Picture

*360

Slideshow

To turn on/off slideshow
To change the slideshow timing (0–30 sec)

Other Settings

Play Menu

Play Speed (→26)
AV Enhancer (→26)

Repeat (→31)

A-B Repeat
- Except +R/-RW
- (When the elapsed play time is displayed)
- Repeat a section between points A and B within an item.
- [ENTER] (start point) → [ENTER] (end point) → [ENTER] (cancel)
- The end of an item becomes point B when it is reached.
- Some subtitles recorded around point A or B may not appear.
- A-B repeat is canceled when you press [QUICK REPLAY].

Marker (→ below)
- [RAM] DVD-RW(VR) : 999 positions
- [VCD] CD MP3 WMA JPEG : 5 positions

Advanced Disc Review
Reviewing title to play Advanced Disc Review (→27, 37)

Marker

To mark up to 5 positions to play again
- [ENTER] (The unit is now ready to accept markers.)
- To mark another position: [A] → [ENTER]
- To recall a marker: [A] → [ENTER]
- To erase a marker: [A] → [CANCEL/RESET]

Notes:
- If places have been marked (e.g. with a DVD video recorder), they are displayed.
- This feature doesn’t work during program and random play.

Notes:
- If places have been marked (e.g. with a DVD video recorder), they are displayed.
- This feature doesn’t work during program and random play.
- Markers added with this unit clear when you turn the unit off, change the source, or open the disc tray.
Using On-Screen Menus

**Picture Menu**

- **Picture Mode** (*26*)
- **Video Output Mode** (*32*)
  - 480i/576i: Interface video
  - 480p/576p: Progressive video

**Transfer Mode**
If you have chosen “480p/576p” (*31*) above, select the method of conversion for progressive output to suit the type of material.

- **Auto 1** (normal): For viewing film material (the same as Auto 1, but able to convert 30-frame-per-second progressive video)
- **Video**: For video material

**Audio Menu**

- **Advanced Surround** (*31*)
- **Dialogue Enhancer**[
  - DVD-V
  - RAM
  - DVD-RW
  - VR
  - VCD
  - (Display only)
]

- **Sound Enhancement**
  Enhances audio output to produce a warm hall-like sound.
  - **On**: On
  - **Off**: Off

**Display Menu**

- **Information**
  - **On**: On (JPEG, Off, Date, Details)
  - **Subtitle position/brightness**[
    - DVD-V
    - RAM
    - DVD-RW
    - VR
    - VCD
  ]

**Other Menu**

- **Setup** (*37*)
- **Play as DVD-VR**
  While stopped, select “Play as Data Disc” to play JPEG files on DVD-RAM.
- **Play as HighMAT**
  or
  **Play as Data Disc**
  Play a HighMAT disc without using the HighMAT function.

**Audio attributes**[
  - DVD-V
  - RAM
  - DVD-RW
  - VR
  - (Display only)
]

- **Audio/Subtitle language**
  - **ENG**: English
  - **FRA**: French
  - **DEU**: German
  - **ITA**: Italian
  - **ESP**: Spanish
  - **NLD**: Dutch
  - **SVE**: Swedish
  - **NOR**: Norwegian
  - **DAN**: Danish
  - **POR**: Portuguese
  - **RUS**: Russian
  - **JPN**: Japanese
  - **CHI**: Chinese
  - **ENG**: English
  - **FRA**: French
  - **DEU**: German
  - **ITA**: Italian
  - **ESP**: Spanish
  - **NLD**: Dutch
  - **SVE**: Swedish
  - **NOR**: Norwegian
  - **DAN**: Danish
  - **POR**: Portuguese
  - **RUS**: Russian
  - **JPN**: Japanese
  - **CHI**: Chinese
  - **KOR**: Korean
  - **MAL**: Malay
  - **VIE**: Vietnamese
  - **THA**: Thai
  - **¢**: Others

---

**Bit Rate Display**
When you select “On”:
During play: Shows the average bit rate (approximate values) of the video being played.
While paused: Shows the data volume of the frame and type of picture (I/P/B)

- **GUI See-through**
  - **Off**: Off
  - **On**: On
  - **Auto**: Auto

- **GUI Brightness**
  Adjust the brightness of the on-screen displays.
### Changing Settings

Change the settings to suit your preferences and to suit the unit to the environment where it is being used. These settings are retained in memory until they are changed, even if the unit is turned off. See the next page for menu and option details.

- Select the unit viewing channel (or the AV input) on the TV.
- Press [DVD].

#### Common procedures

1. Press [SETUP].

2. Press [△▼] to select the menu’s tab.
   The screen changes to display the menu.

3. Press [◄] (cursor) then [△▼] to select the item and press [ENTER].

4. Press [△▼] to select the option and press [ENTER].
   The screen now shows the menu again.

- To return to the previous screen: Press [RETURN].
- To exit the SETUP menu: Press [SETUP].

#### Note:
- Screens other than those described here may appear. In this case, follow the instructions shown on the screen.

### Entering a Password (Ratings)

#### DVD-V

The password screen is shown when you select levels 0 to 7 (☞37).

1. Input a 4-digit password with the numeric buttons.
   - If you enter a wrong number, press [CANCEL/RESET] to erase it.

2. Press [ENTER].
   - The lock symbol is closed to show the rating is locked.
   - "The Player is locked. Remember the passwords." is displayed on TV screen.

3. Press [ENTER] after confirming the 4 digits.

Now, when you insert a DVD-Video that exceeds the ratings limit you set, a message appears on the TV. Follow the on-screen instructions.

### Language code list

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abkhazian</td>
<td>6666</td>
</tr>
<tr>
<td>Arabic</td>
<td>6582</td>
</tr>
<tr>
<td>Armenian</td>
<td>7289</td>
</tr>
<tr>
<td>Azerbaijani</td>
<td>6690</td>
</tr>
<tr>
<td>Basque</td>
<td>6985</td>
</tr>
<tr>
<td>Bengali/Bangla</td>
<td>6678</td>
</tr>
<tr>
<td>Bulgarian</td>
<td>6671</td>
</tr>
<tr>
<td>Burman</td>
<td>7789</td>
</tr>
<tr>
<td>Byelorussian</td>
<td>6669</td>
</tr>
<tr>
<td>Cambodian</td>
<td>7577</td>
</tr>
<tr>
<td>Catalan</td>
<td>6765</td>
</tr>
<tr>
<td>Chinese</td>
<td>9072</td>
</tr>
<tr>
<td>Corsican</td>
<td>6778</td>
</tr>
<tr>
<td>Czech</td>
<td>6783</td>
</tr>
<tr>
<td>Danish</td>
<td>6865</td>
</tr>
<tr>
<td>Dutch</td>
<td>7876</td>
</tr>
<tr>
<td>English</td>
<td>6865</td>
</tr>
<tr>
<td>Estonian</td>
<td>6984</td>
</tr>
<tr>
<td>English</td>
<td>6983</td>
</tr>
<tr>
<td>Esperanto</td>
<td>6979</td>
</tr>
<tr>
<td>Persian</td>
<td>7759</td>
</tr>
<tr>
<td>Farsi</td>
<td>7074</td>
</tr>
<tr>
<td>Filipino</td>
<td>7073</td>
</tr>
<tr>
<td>Finnish</td>
<td>6981</td>
</tr>
<tr>
<td>French</td>
<td>7028</td>
</tr>
<tr>
<td>Galician</td>
<td>7176</td>
</tr>
<tr>
<td>Galician</td>
<td>6672</td>
</tr>
<tr>
<td>Galician</td>
<td>6622</td>
</tr>
<tr>
<td>Geogrian</td>
<td>7565</td>
</tr>
<tr>
<td>Georgian</td>
<td>6685</td>
</tr>
<tr>
<td>Greek</td>
<td>6976</td>
</tr>
<tr>
<td>Greek</td>
<td>6765</td>
</tr>
<tr>
<td>Greenlandic</td>
<td>7576</td>
</tr>
<tr>
<td>Gujarati</td>
<td>7185</td>
</tr>
<tr>
<td>Hausa</td>
<td>7265</td>
</tr>
<tr>
<td>Hebrew</td>
<td>7273</td>
</tr>
<tr>
<td>Hungarian</td>
<td>7285</td>
</tr>
<tr>
<td>Icelandic</td>
<td>7383</td>
</tr>
<tr>
<td>Indonesian</td>
<td>7378</td>
</tr>
<tr>
<td>Interlingua</td>
<td>7365</td>
</tr>
<tr>
<td>Irish</td>
<td>7165</td>
</tr>
<tr>
<td>Italian</td>
<td>7381</td>
</tr>
<tr>
<td>Japanese</td>
<td>7465</td>
</tr>
<tr>
<td>Kannada</td>
<td>7578</td>
</tr>
<tr>
<td>Korean</td>
<td>7579</td>
</tr>
<tr>
<td>Kurdish</td>
<td>7585</td>
</tr>
<tr>
<td>Latvian</td>
<td>7665</td>
</tr>
<tr>
<td>Lithuanian</td>
<td>7684</td>
</tr>
<tr>
<td>Macedonian</td>
<td>7775</td>
</tr>
<tr>
<td>Malagasy</td>
<td>7771</td>
</tr>
<tr>
<td>Malay</td>
<td>7783</td>
</tr>
<tr>
<td>Maldives</td>
<td>7776</td>
</tr>
<tr>
<td>Malayalam</td>
<td>7766</td>
</tr>
<tr>
<td>Mongolian</td>
<td>7778</td>
</tr>
<tr>
<td>Norwegian</td>
<td>7857</td>
</tr>
<tr>
<td>Orya</td>
<td>7382</td>
</tr>
<tr>
<td>Persian</td>
<td>7055</td>
</tr>
<tr>
<td>Polish</td>
<td>8076</td>
</tr>
<tr>
<td>Portuguese</td>
<td>8476</td>
</tr>
<tr>
<td>Portuguese</td>
<td>8083</td>
</tr>
<tr>
<td>Quechua</td>
<td>8185</td>
</tr>
<tr>
<td>Russian</td>
<td>8285</td>
</tr>
<tr>
<td>Serbian</td>
<td>8368</td>
</tr>
<tr>
<td>Serbian</td>
<td>8386</td>
</tr>
<tr>
<td>Slovak</td>
<td>8375</td>
</tr>
<tr>
<td>Slovenian</td>
<td>8376</td>
</tr>
<tr>
<td>Somali</td>
<td>8373</td>
</tr>
<tr>
<td>Spanish</td>
<td>6983</td>
</tr>
<tr>
<td>Spanish</td>
<td>7665</td>
</tr>
<tr>
<td>Swahili</td>
<td>8377</td>
</tr>
<tr>
<td>Swedish</td>
<td>8386</td>
</tr>
<tr>
<td>Swahili</td>
<td>8367</td>
</tr>
<tr>
<td>Swedish</td>
<td>8386</td>
</tr>
<tr>
<td>Tajik</td>
<td>8471</td>
</tr>
<tr>
<td>Telugu</td>
<td>8459</td>
</tr>
<tr>
<td>Thai</td>
<td>8472</td>
</tr>
<tr>
<td>Turkish</td>
<td>8482</td>
</tr>
<tr>
<td>Turkish</td>
<td>8471</td>
</tr>
<tr>
<td>Uzbek</td>
<td>8590</td>
</tr>
<tr>
<td>Ukrainian</td>
<td>8575</td>
</tr>
<tr>
<td>Urdu</td>
<td>8582</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>8573</td>
</tr>
<tr>
<td>Volapük</td>
<td>8679</td>
</tr>
<tr>
<td>Wolof</td>
<td>8779</td>
</tr>
<tr>
<td>Yiddish</td>
<td>7473</td>
</tr>
<tr>
<td>Zulu</td>
<td>9085</td>
</tr>
</tbody>
</table>

If the selected language is not recorded on the disc or a language has been predetermined on the disc, the language most prioritized on the disc is used for play.
## SETUP Menu

<table>
<thead>
<tr>
<th>Menus</th>
<th>Items</th>
<th>Options (Underlined items are the initial setting.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc</td>
<td>Audio</td>
<td>• English</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Original: The original language of each disc will be</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Other: Input a code number with the numeric buttons</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(&lt; 36).</td>
</tr>
<tr>
<td></td>
<td>Subtitle</td>
<td>• Automatic: If the language selected for “Audio” is not</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• English</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Other: Input a code number with the numeric buttons</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(&lt; 36).</td>
</tr>
<tr>
<td></td>
<td>Menus</td>
<td>• English</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Other: Input a code number with the numeric buttons</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(&lt; 36).</td>
</tr>
<tr>
<td></td>
<td>Language options</td>
<td>French, German, Italian, Spanish, Portuguese, Russian</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(For NV-VP33GCS only) Chinese</td>
</tr>
<tr>
<td></td>
<td>Advanced Disc Review</td>
<td>• Intro Mode: Reviews each title/program.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Interval Mode: Reviews not only each title/program</td>
</tr>
<tr>
<td></td>
<td></td>
<td>but also each 10 minutes interval within a title/program.</td>
</tr>
<tr>
<td></td>
<td>Ratings (&lt; 36)</td>
<td>Set a ratings level to limit DVD-Video play.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• The password screen is shown if you choose levels 0 to 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or if you choose “Ratings” when levels 0 to 7 have been</td>
</tr>
<tr>
<td></td>
<td></td>
<td>selected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Select “Level 0” to prevent play of discs that do not have</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ratings levels recorded on them.</td>
</tr>
<tr>
<td></td>
<td>TV Aspect (&lt; 12)</td>
<td>4:3 Pan&amp;Scan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4:3 Letterbox</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16:9</td>
</tr>
<tr>
<td></td>
<td>Time Delay</td>
<td>Ons</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20ms</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40ms</td>
</tr>
<tr>
<td></td>
<td></td>
<td>60ms</td>
</tr>
<tr>
<td></td>
<td></td>
<td>80ms</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100ms</td>
</tr>
<tr>
<td></td>
<td>NTSC Disc Output</td>
<td>PAL60: When connected to a PAL television</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTSC: When connected to an NTSC television</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(For NV-VP33GCS. “NTSC” is the factory preset.)</td>
</tr>
<tr>
<td></td>
<td>Audio</td>
<td>PCM Digital Output (&lt; 33)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Up to 48 kHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Up to 96 kHz</td>
</tr>
<tr>
<td></td>
<td>Dolby Digital (&lt; 33)</td>
<td>Bitstream</td>
</tr>
<tr>
<td></td>
<td>DTS Digital Surround (&lt; 33)</td>
<td>Bitstream</td>
</tr>
<tr>
<td></td>
<td>Dynamic Range Compression (Dolby Digital only)</td>
<td>Off</td>
</tr>
<tr>
<td></td>
<td></td>
<td>On: For clear dialog when listening at low volume.</td>
</tr>
<tr>
<td></td>
<td>Display</td>
<td>Menu Language</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(For NV-VP33GCS only) English</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(For NV-VP33GCS only) French</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(For NV-VP33GCS only) Deutsch</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(For NV-VP33GCS only) Italian</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(For NV-VP33GCS only) Portuguese</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(For NV-VP33GCS only) Russian</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(For NV-VP33GCS only) Nederlands</td>
</tr>
<tr>
<td></td>
<td>On-Screen Messages</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>QUICK SETUP (&lt; 12)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Re-initialize Setting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>
Recording from DVD to VHS

You can record the contents of the disc onto a video cassette.

1. Select the unit viewing channel (or the AV input) on the TV.
2. Insert a video cassette with an intact erasure prevention tab.
3. Press [VHS].
4. Select the desired recording mode (→ 15).
5. Press [DVD].

Only discs not copy protected can be used.

1. Press [VHS], then press [INPUT SELECT] repeatedly.

Select “dc” channel.

Recording is allowed only when the VHS input channel is set to “dc” (→ below).

2. Press [DVD], then press [D PLAY].

Start playing the disc and find the playing start point.

3. Press [IEEE].

Start playing the video cassette and find the recording start point.

4. Press [IEEE], then press [REC].

Put the unit in the recording standby mode.

5. Press [IEEE].

VHS recording and disc play start at the same time.

6. Press [IEEE].

DVD-RAM Dubbing

You can copy programmes on a DVD-RAM disc to a video cassette with One-touch operation.

1. Insert the disc containing the programme to be copied (→ 24).
2. This function allows DVD-RAM discs recorded by Panasonic DVD recorders to be dubbed.

Select “dc” channel.

Recording is allowed only when the VHS input channel is set to “dc” (→ below).

Notes:

1. You can select the audio channel to be recorded on the Normal audio track when dubbing a bilingual DVD (→ 22).
2. If a copy protected disc is inserted, “COPYING OF THIS MATERIAL IS NOT ALLOWED.” is displayed on the TV screen. If you proceed with the recording, the video recorded will be distorted.
3. To stop recording

Press [STOP].

When “ ” and “ ” is flashing

Check the settings again.

Notes:

1. In this function, the index signal is automatically added on the tape for each of the programmes. You can find the desired programme with these index signals (→ 20).
2. This function does not work during timer recording standby mode.
3. When the dubbing starts, “On-Screen Messages” in the SETUP menu is automatically set to “Off”. The “dc” channel is automatically selected (→ below).
4. If you press [DVD-RAM DUBBING] again, the dubbing starts at the stop position memorized (Resume function → 24). “ ” in the unit’s display flashes.

“dc” channel

1. When the disc is played with the “dc” channel set, the TV screen displays the disc video.
Before Requesting Service

Before requesting service, check the following points once again.

### General

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power.</td>
<td>Connect the AC mains lead securely to mains supply.</td>
</tr>
<tr>
<td>No response when buttons pressed.</td>
<td>Some operations may be prohibited by the disc.</td>
</tr>
<tr>
<td></td>
<td>The unit may not be operating properly due to lightning, static electricity or some other external factor.</td>
</tr>
<tr>
<td>Reset procedure:</td>
<td>Press [VHS/DVD] to switch the unit to the standby mode and then back to ON.</td>
</tr>
<tr>
<td></td>
<td>Alternatively, press [DVD] to switch the unit to the standby mode, disconnect the AC mains lead, and wait for 1 minute. Reconnect the AC mains lead.</td>
</tr>
<tr>
<td>No operations can be performed with the remote control.</td>
<td>Check the batteries are installed correctly.</td>
</tr>
<tr>
<td></td>
<td>The batteries are depleted: Replace them with new ones.</td>
</tr>
<tr>
<td></td>
<td>Point the remote control at the remote control sensor and operate.</td>
</tr>
<tr>
<td>Cannot select alternative languages.</td>
<td>This function depends on software availability.</td>
</tr>
<tr>
<td></td>
<td>Try selecting from the disc’s menu if one is available.</td>
</tr>
<tr>
<td>The SETUP menu cannot be accessed.</td>
<td>Press [DVD].</td>
</tr>
<tr>
<td>Cannot operate the unit.</td>
<td>Cancel all program and random play.</td>
</tr>
<tr>
<td>Cannot operate the TV.</td>
<td>Press [VHS] or [DVD] properly.</td>
</tr>
<tr>
<td></td>
<td>The unit is in timer recording standby (<em>&quot;</em> is ON on the unit’s display).</td>
</tr>
<tr>
<td></td>
<td>Check the TV maker setting.</td>
</tr>
<tr>
<td>TV reception gets worst after connecting the unit.</td>
<td>This can occur because the signals are being divided between the unit and the TV.</td>
</tr>
<tr>
<td></td>
<td>It can be solved by using a signal booster, available from audio-visual suppliers. Consult your dealer if reception does not improve.</td>
</tr>
<tr>
<td>The tape counter isn’t changing.</td>
<td>The tape counter does not change while playing unrecorded parts.</td>
</tr>
<tr>
<td></td>
<td>The tape is dirty or damaged. Consult your dealer if this is the case.</td>
</tr>
<tr>
<td>No on-screen display.</td>
<td>Go to “OPTION” in the VHS menu, and select “AUTO” for “OSD”.</td>
</tr>
<tr>
<td></td>
<td>Go to “Display” in the SETUP menu, and select “On” for “On-Screen Messages”.</td>
</tr>
<tr>
<td>The menu is displayed in a different language.</td>
<td>Go to “LANGUAGE” in the VHS menu, and select the desired language for menus.</td>
</tr>
<tr>
<td></td>
<td>Go to “Disc” in the SETUP menu, and select the preferred language for “Menus”.</td>
</tr>
</tbody>
</table>

### Sound

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No sound.</td>
<td>Check the connections.</td>
</tr>
<tr>
<td></td>
<td>Check the volume on the equipment you have connected.</td>
</tr>
<tr>
<td></td>
<td>Ensure that the input settings on the other equipment are correct.</td>
</tr>
<tr>
<td></td>
<td>Turn Advanced Surround off if it causes distortion.</td>
</tr>
<tr>
<td></td>
<td>Output from this unit will be in stereo (2 channels) when Advanced Surround is on.</td>
</tr>
<tr>
<td></td>
<td>Turn Advanced Surround off if you are using three or more speakers.</td>
</tr>
<tr>
<td></td>
<td>Press [PLAY] to restore normal play after changing the speed.</td>
</tr>
<tr>
<td>Piercing noise comes from the speakers.</td>
<td>If you have connected this unit to other equipment through the COAXIAL DIGITAL AUDIO terminal, ensure you have selected the correct settings for “Dolby Digital”, “DTS Digital Surround” and “MPEG” in the SETUP menu’s “Audio” menu.</td>
</tr>
<tr>
<td>There is noise when playing a video tape.</td>
<td>Adjust the tracking.</td>
</tr>
<tr>
<td></td>
<td>The tape is old or damaged.</td>
</tr>
<tr>
<td>Effects do not work.</td>
<td>Dialogue Enhancer and Advanced Surround do not work when the unit is outputting bitstream signals.</td>
</tr>
<tr>
<td></td>
<td>Advanced Surround does not work if you have changed the play speed.</td>
</tr>
</tbody>
</table>

### Recording

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The picture is recorded with noise or a blank screen.</td>
<td>Check the antenna connection to the unit.</td>
</tr>
<tr>
<td></td>
<td>Check your normal TV picture. If there is no picture, check your antenna.</td>
</tr>
<tr>
<td></td>
<td>The unit is not correctly tuned. Retune the unit.</td>
</tr>
<tr>
<td></td>
<td>A1 or A2 has been selected. Select the required TV programme.</td>
</tr>
<tr>
<td></td>
<td>The playback picture is distorted when recorded in the EP mode using MESECAM system.</td>
</tr>
<tr>
<td></td>
<td>We recommend PAL system for recording in the EP mode.</td>
</tr>
<tr>
<td>Timer recording doesn’t record a programme correctly.</td>
<td>Check the clock and calendar.</td>
</tr>
<tr>
<td></td>
<td>Set the channel and start/finish times correctly.</td>
</tr>
<tr>
<td></td>
<td>Be sure to press [TIMER] after programming to put the unit in timer recording standby.</td>
</tr>
<tr>
<td></td>
<td>Programme times may be overlapped.</td>
</tr>
<tr>
<td>“**” flashes when I try to start recording. Cannot record.</td>
<td>If the erasure prevention tab has been removed, cover the hole with adhesive tape.</td>
</tr>
</tbody>
</table>

Helpful Hints

- Before Requesting Service

  - Before requesting service, check the following points once again.
  - General
    - No power: Connect the AC mains lead securely to mains supply.
    - No response when buttons pressed: Some operations may be prohibited by the disc.
    - The unit may not be operating properly due to lightning, static electricity or some other external factor.
    - Reset procedure: Press [VHS/DVD] to switch the unit to the standby mode and then back to ON.
    - Alternatively, press [DVD] to switch the unit to the standby mode, disconnect the AC mains lead, and wait for 1 minute. Reconnect the AC mains lead.
    - No operations can be performed with the remote control: Check the batteries are installed correctly.
    - The batteries are depleted: Replace them with new ones.
    - Point the remote control at the remote control sensor and operate.
    - Cannot select alternative languages: This function depends on software availability.
    - Try selecting from the disc’s menu if one is available.
    - The SETUP menu cannot be accessed: Press [DVD].
    - Cannot operate the unit: Press [VHS] or [DVD] properly.
    - Cannot operate the TV: The unit is in timer recording standby (*"* is ON on the unit’s display).
    - TV reception gets worst after connecting the unit: This can occur because the signals are being divided between the unit and the TV.
    - The tape counter isn’t changing: The tape counter does not change while playing unrecorded parts.
    - The tape is dirty or damaged: Consult your dealer if this is the case.
    - No on-screen display: Go to “OPTION” in the VHS menu, and select “AUTO” for “OSD”.
    - Go to “Display” in the SETUP menu, and select “On” for “On-Screen Messages”.
    - The menu is displayed in a different language: Go to “LANGUAGE” in the VHS menu, and select the desired language for menus.
    - Go to “Disc” in the SETUP menu, and select the preferred language for “Menus”.
  - Sound
    - No sound: Check the connections.
    - Distorted sound: Check the volume on the equipment you have connected.
    - Ensure that the input settings on the other equipment are correct.
    - Turn Advanced Surround off if it causes distortion.
    - Output from this unit will be in stereo (2 channels) when Advanced Surround is on. Turn Advanced Surround off if you are using three or more speakers.
    - Press [PLAY] to restore normal play after changing the speed.
    - Piercing noise comes from the speakers: If you have connected this unit to other equipment through the COAXIAL DIGITAL AUDIO terminal, ensure you have selected the correct settings for “Dolby Digital”, “DTS Digital Surround” and “MPEG” in the SETUP menu’s “Audio” menu.
    - There is noise when playing a video tape: Adjust the tracking.
    - The tape is old or damaged.
    - Effects do not work: Dialogue Enhancer and Advanced Surround do not work when the unit is outputting bitstream signals.
    - Advanced Surround does not work if you have changed the play speed.
  - Recording
    - The picture is recorded with noise or a blank screen: Check the antenna connection to the unit.
    - Check your normal TV picture. If there is no picture, check your antenna.
    - The unit is not correctly tuned. Retune the unit.
    - A1 or A2 has been selected. Select the required TV programme.
    - The playback picture is distorted when recorded in the EP mode using MESECAM system.
    - We recommend PAL system for recording in the EP mode.
    - Timer recording doesn’t record a programme correctly: Check the clock and calendar.
    - Set the channel and start/finish times correctly.
    - Be sure to press [TIMER] after programming to put the unit in timer recording standby.
    - Programme times may be overlapped.
    - “**” flashes when I try to start recording. Cannot record: If the erasure prevention tab has been removed, cover the hole with adhesive tape.
## Before Requesting Service

### Disc play

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play doesn’t start (or stops immediately) when you press [PLAY]</td>
<td>• Condensation has formed: Wait 1 to 2 hours for it to evaporate.</td>
</tr>
<tr>
<td></td>
<td>• This unit cannot play discs other than those listed in these operating instructions.</td>
</tr>
<tr>
<td></td>
<td>• This unit cannot play DVD-Video with a region number other than “2, 3”、“ALL” or multiple</td>
</tr>
<tr>
<td></td>
<td>region numbers including “2, 3”.</td>
</tr>
<tr>
<td></td>
<td>• The disc may be dirty and may require cleaning.</td>
</tr>
<tr>
<td></td>
<td>• Ensure that the disc is installed with the label of the side to be played facing upwards.</td>
</tr>
<tr>
<td></td>
<td>• Check that the DVD-ROM has something recorded on it.</td>
</tr>
<tr>
<td>No menu play.</td>
<td>• This function depends on software availability.</td>
</tr>
<tr>
<td>No subtitles.</td>
<td>• This function depends on software availability.</td>
</tr>
<tr>
<td></td>
<td>• Subtitles are cleared from the TV. Display the subtitles.</td>
</tr>
<tr>
<td></td>
<td>• Subtitle’s position is wrong. Adjust the position.</td>
</tr>
<tr>
<td>Soundtrack and/or subtitle language is not the one selected with the</td>
<td>• This function depends on software availability.</td>
</tr>
<tr>
<td>SETUP menu.</td>
<td></td>
</tr>
<tr>
<td>Cannot change angle.</td>
<td>• This function depends on software availability. Even if a disc has a number of angles</td>
</tr>
<tr>
<td></td>
<td>recorded, these angles may be recorded for specific scenes only.</td>
</tr>
<tr>
<td>Folders deeper than the eighth layer on a data CD are not displayed</td>
<td>• Folders deeper than the eighth layer are displayed as if there were in the eighth layer.</td>
</tr>
<tr>
<td>correctly.</td>
<td></td>
</tr>
<tr>
<td>You have forgotten your ratings password.</td>
<td>• While stopped and “DVD” is the source, press and hold [◄◄REW] (VHS), [►PLAY] (DVD) and</td>
</tr>
<tr>
<td>Reset all the settings to Factory Preset.</td>
<td>[◄OPEN/CLOSE] on the unit for about 3 seconds until “Initialised” disappears from the TV.</td>
</tr>
<tr>
<td></td>
<td>Turn the unit off and on again. All settings will return to the default values.</td>
</tr>
</tbody>
</table>

### Picture

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture.</td>
<td>• Check the connection.</td>
</tr>
<tr>
<td></td>
<td>• Make sure the TV is on.</td>
</tr>
<tr>
<td></td>
<td>• Ensure the video exclusive channel (or AV input) is selected.</td>
</tr>
<tr>
<td></td>
<td>• Adjust the channel on the TV. (Also refer to the instructions for the TV.)</td>
</tr>
<tr>
<td>The picture shown on the TV is not normal. (The sides of the picture</td>
<td>• Go to “Video” in the SETUP menu, and change “TV Aspect” to suit your TV.</td>
</tr>
<tr>
<td>are cut off, the picture is stretched horizontally, or black bands</td>
<td>• Turn off the zooming feature of your TV if you are using Variable Zoom.</td>
</tr>
<tr>
<td>appear at the top and bottom of the screen.)</td>
<td>• Ensure that the unit is connected directly to the TV, and is not connected through an A/V</td>
</tr>
<tr>
<td></td>
<td>selector or other equipment.</td>
</tr>
<tr>
<td></td>
<td>• Connect to the component video input terminals on a 480p compatible TV (Video will not</td>
</tr>
<tr>
<td></td>
<td>be displayed correctly if connected to an incompatible TV).</td>
</tr>
<tr>
<td>The picture on the TV disappears or stripes appear on the screen.</td>
<td>• Mobile telephone chargers can cause some disturbance.</td>
</tr>
<tr>
<td></td>
<td>• The TV antenna cable is too close to the unit. Separate the antenna cable of the TV from</td>
</tr>
<tr>
<td></td>
<td>the unit.</td>
</tr>
<tr>
<td>The SETUP menu and other screens shown on the TV are displayed</td>
<td>• The unit and TV are using different video systems. Use a multi-system or PAL TV.</td>
</tr>
<tr>
<td>incorrectly.</td>
<td></td>
</tr>
</tbody>
</table>

### VHS picture

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The picture is noisy or is in black and white.</td>
<td>• Adjust the tracking.</td>
</tr>
<tr>
<td>Horizontal bars or lines run down the screen.</td>
<td>• The TV has not been tuned to the unit. Tune the TV to the unit.</td>
</tr>
<tr>
<td></td>
<td>• Make sure the TV’s input setting is correct.</td>
</tr>
<tr>
<td></td>
<td>• The video heads are dirty: clean them with a head-cleaning cassette.</td>
</tr>
<tr>
<td></td>
<td>• The video heads are worn: consult your dealer.</td>
</tr>
<tr>
<td></td>
<td>• The tape is old or damaged.</td>
</tr>
<tr>
<td></td>
<td>• You cannot correctly play tapes recorded with other systems.</td>
</tr>
<tr>
<td></td>
<td>• Go to “OPTION” and change “NTSC PB SELECT” to suit the recording.</td>
</tr>
<tr>
<td>The blue back appears during play.</td>
<td>• You are playing a blank or poor quality part of the tape.</td>
</tr>
<tr>
<td></td>
<td>• You can damage the unit if you play dirty or damaged tapes and this can cause the blue</td>
</tr>
<tr>
<td></td>
<td>back to appear. Consult your dealer.</td>
</tr>
<tr>
<td>The picture jiggles.</td>
<td>• Adjust the vertical hold.</td>
</tr>
<tr>
<td></td>
<td>• Adjust the TVs vertical hold. Refer to your TV’s operating instructions.</td>
</tr>
</tbody>
</table>
**Before Requesting Service**

### Disc picture

<table>
<thead>
<tr>
<th>Condition</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture distorted.</td>
<td>Some distortion is normal during search.</td>
</tr>
<tr>
<td>Picture quality is poor.</td>
<td>Check the settings in the On-Screen Menu “Picture Menu”.</td>
</tr>
<tr>
<td>Menus not displayed correctly.</td>
<td>Change the zoom ratio to “×1.00”.</td>
</tr>
<tr>
<td></td>
<td>Set the subtitle position to 0.</td>
</tr>
<tr>
<td></td>
<td>Go to “Video” in the SETUP menu, and change “TV Aspect” to suit your TV.</td>
</tr>
</tbody>
</table>

### Editing

<table>
<thead>
<tr>
<th>Condition</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black bands appear in the</td>
<td>Move the other equipment away from the TV as it may be picking up interference.</td>
</tr>
<tr>
<td>recording.</td>
<td></td>
</tr>
<tr>
<td>Recording video or audio from</td>
<td>The connections were done incorrectly. Check the connections to the other</td>
</tr>
<tr>
<td>external equipment is not</td>
<td>equipment.</td>
</tr>
<tr>
<td>possible.</td>
<td>The external input channel “A1” or “A2”, to which the player is connected is</td>
</tr>
<tr>
<td></td>
<td>not selected.</td>
</tr>
<tr>
<td></td>
<td>Press [INPUT SELECT] to select “A1” or “A2”.</td>
</tr>
<tr>
<td>A video was dubbed, but the</td>
<td>Copy-protected material was dubbed.</td>
</tr>
<tr>
<td>video is distorted or the colours</td>
<td>Copy-protected materials cannot be recorded normally. Must commercially</td>
</tr>
<tr>
<td>are abnormal.</td>
<td>available videotapes and DVD discs (including rental soft tapes/DVDs) are</td>
</tr>
<tr>
<td></td>
<td>copy-protected so that illegal dubbing is impossible.</td>
</tr>
<tr>
<td>The audio level on the DVD</td>
<td>Some discs may reproduce different audio levels.</td>
</tr>
<tr>
<td>section is not corresponding to</td>
<td>If the audio in particular parts, such as speech, is set to a low or high</td>
</tr>
<tr>
<td>that on the VHS section after</td>
<td>level, it may be recorded on a video cassette at a high or low level,</td>
</tr>
<tr>
<td>editing.</td>
<td>respectively.</td>
</tr>
</tbody>
</table>

### Error Messages

**On-screen display**

- **PLEASE PUT IN A VIDEO CASSETTE.**
  - [REC] or [TIMER] has been pressed without a video cassette inserted. Insert a video cassette with an intact erasure prevention tab.  
  - Reset procedure: Press [ ] to switch the unit to the standby mode and then back to ON. Alternatively, press [ ] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it. If the service numbers fail to clear, note them and contact a qualified service person.  
  - You haven’t inserted a disc; insert one.  
  - You haven’t inserted the disc correctly; insert it correctly.
- **PLEASE STOP THE TAPE.**
  - TUNER PRESET has been selected during playback. Stop the tape.
- **PLEASE USE A CASSETTE WITH TAB.**
  - [REC] or [TIMER] has been pressed without a video cassette with an intact erasure prevention tab. Use a video cassette with an intact erasure prevention tab.
- **NO TIMER RECORDING HAS BEEN SET.**
  - [TIMER] has been pressed with no timer programmes. Set timer recording.
- **Cannot display group xx, picture xx**
  - You are trying to display incompatible pictures.

**Self-diagnostic Indications on the unit’s display**

- **H** stands for a number.
  - An error has occurred. The number following “H” or “F” depends on the status of the unit. Reset procedure: Press [ ] to switch the unit to the standby mode and then back to ON. Alternatively, press [ ] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it. If the service numbers fail to clear, note them and contact a qualified service person.
- **no DISC**
  - You haven’t inserted a disc; insert one.
  - You haven’t inserted the disc correctly; insert it correctly.
- **no PLAY**
  - You inserted a disc the unit cannot play.
  - Disc is dirty. Wipe it clean.
  - You inserted a DVD-R which is not finalized.
  - You inserted a blank DVD-RAM.
  - A disc whose playback is restricted in the SETUP menu is inserted. Change the “Ratings” setting.
Glossary

Audio channel for DVD (ch)
Sound is divided into channels based on the sound’s role.
- Front speakers—1 left channel and 1 right channel
- Center speaker—1 channel
- Surround speakers—1 left channel and 1 right channel
- Subwoofer—1 channel >0.1 (the ratio of bass to the total amount of sound output)

The following are indicated on the On-Screen Menu Icons.
Example:

<table>
<thead>
<tr>
<th>Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/2.1 ch</td>
</tr>
<tr>
<td>(1)</td>
</tr>
<tr>
<td>(2)</td>
</tr>
<tr>
<td>(3)</td>
</tr>
<tr>
<td>(2)</td>
</tr>
<tr>
<td>(3)</td>
</tr>
</tbody>
</table>

ID3 tag
MP3 file that has an area in which the character-based information referred to as ID3 tag, is stored. The information of the track, such as the title, artist name, etc. can be stored here. The information can be displayed on players supporting the ID3 tag when a track is played back. However, this unit cannot because it does not support the ID3 tag.

Interface and progressive output
NTSC, the video signal standard, has 480 interlaced (i) scan lines, whereas progressive scanning uses twice the number of scan lines. This is called 480p.

I/P/B
The DVD recording system shares the data commonly used by screens and uses screen-independent data individually for each screen to store the data on the disc efficiently.
- I-picture (Intra coded picture): A frame recorded independently as reference for commonly used data.
- P-picture (Predictive coded picture): This picture is calculated based on past I- or P-pictures.
- B-picture (Bidirectionally-predictive coded picture): This picture is calculated by comparing past and future I- and P-pictures so it has the lowest volume of information.

Linear PCM (Pulse Code Modulation)
These are uncompressed digital signals, similar to those found on CDs.

Multi-session
- This means recording data onto a CD-R/CD-RW disc several times. “Read-in/Programme area/Read-out” of the data on a disc makes one session.
- If data, such as music, is added onto a pre-recorded CD-R/RW disc, a new session will be added. Such a disc is referred to as a multisession disc.

Playback control (PBC)
- If a Video CD has playback control, you can select scenes and information with menus.
- In this manual, playing back of the contents of a Video CD using the menu screen is referred to as “Menu play” for Video CD.

Bitstream
Digitized and compressed audio signal
It is decoded by decoders into multi-channel audio signals, such as 5.1 channels.

Decoder
A device restores the coded audio signals on DVDs to normal. This is called decoding.

Dolby Digital
This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals are also compatible with 5.1-channel audio. A large amount of audio information can be recorded on one disc using this method.

Dolby Pro Logic
A surround system where a 4-channel audio track is recorded as 2 channels and then is restored to 4 channels for play.

DTS (Digital Theater Systems)
This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

Film and video
DVD-Videos are recorded using either film or video. Usually, film is recorded at 24 frames per second, the rate movies are filmed at, while video is recorded at 30 frames per second.

Frame and field
Frames are the still pictures that go together to make a moving picture. A frame is made up of 2 fields.

- Frame
- Field
- Field

- A frame still is made up of two alternating fields, so the picture may appear blurred, but overall quality is high.
- A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.
Specifications

NV-VP33GC
NV-VP33GCS

Power Supply: AC 110 V to 240 V 50/60 Hz
Power Consumption: 22 W

VHS SECTION

Video Recording System:
- 2 rotary heads, helical scanning system

Video Heads:
- 4 heads

Audio Heads:
- 2 heads (Hi-Fi)

Video Heads:
- 4 heads

Audio Heads:
- 2 heads (Hi-Fi)

Tape Speed:
- PAL SP: 23.39 mm/s LP: 11.7 mm/s EP: 7.8 mm/s
- NTSC SP: 33.3 mm/s EP: 11.1 mm/s

Tape Format: VHS tape

Recording/Playback Time:
- PAL SP: 240 min with NV-E240
- PAL LP: 480 min with NV-E240
- PAL EP: 720 min with NV-E240

FF/REW Time:
- Approx. 60 s with NV-E180 (FF/REW)
- Approx. 43 s with NV-E180 (JET REW)

VIDEO

Television System:
- CCIR: 625 lines, 50 fields, PAL colour signal
- EIA: 525 lines, 60 fields, NTSC colour signal

Modulate System:
- Luminance: FM azimuth recording
- Colour signal: converted subcarrier phase shift recording

Input Level:
- VIDEO IN (PHONO): 1.0 Vp-p, 75 ohm
- RF modulate

Output Level:
- VIDEO OUT (PHONO): 1.0 Vp-p, 75 ohm
- RF modulate

UHF Channel: E21 ch to E69 ch, 75 ohm

AUDIO

Input Level:
- AUDIO IN (PHONO): –6 dBV, more than 47 kohm
- AUDIO OUT (PHONO): –6 dBV, less than 1 kohm

Output Level:
- AUDIO OUT (PHONO): 2 Vrms, (1 kHz, 0 dB, 10 kohm)

Audio Track:
- 1 track (normal-mono only), 2 channels (Hi-Fi sound-stereo)

Video Horizontal Resolution:
- Colour: more than 240 lines/SP
- Audio: more than 65 dB/Hi-Fi

Signal-to-Noise Ratio:
- Audio: more than 90 dB/Hi-Fi audio track

Dynamic Range:
- Audio: more than 90 dB/Hi-Fi audio track

Audio Frequency Response:
- 20 Hz to 20 kHz/Hi-Fi

Wow and Flutter:
- 0.005% Wrms/Hi-Fi

DISC SECTION

Playable Discs [8 cm or 12 cm]:
- DVD-Video, DVD-RAM (DVD-VR formatted discs), JPEG formatted discs), DVD-R, DVD-RW (DVD-Video compatible),
- CD-R/RW (Video compatible), CD-Audio (CD-DA), Video CD,
- SVCD, MP3, WMA, JPEG, HighMAT formatted discs

MP3/WMA:
- Maximum number of tracks and groups recognizable: 4000 tracks and 400 groups,
- Compatible compression rate: between 32 kbps and 320 kbps/MP3, between 48 kbps and 320 kbps/WMA

JPEG:
- Exif Ver 2.1 JPEG Baseline files, Maximum number of pictures and groups recognizable: 4000 pictures and 400 groups, Picture resolution: between 320×240 and 6144×4096 pixels (sub sampling is 4:2:2 or 4:2:0)

HighMAT:
- Level 2 (Audio and image)

VIDEO

Signal System:
- PAL/NTSC

Output Level:
- Composite video: 1.0 Vp-p, 75 ohm
- S VIDEO: Y output level: 1.0 Vp-p, 75 ohm
- NTSC C output level: 0.300 Vp-p, 75 ohm
- COMPONENT VIDEO (NTSC; 480p/480i, PAL; 576p/576i):
  - Y output level: 1.0 Vp-p, 75 ohm
  - PB/CB output level: 0.7 Vp-p, 75 ohm
  - PR/CR output level: 0.7 Vp-p, 75 ohm

AUDIO

Output Level:
- AUDIO OUT (PHONO): 2 Vrms, (1 kHz, 0 dB, 10 kohm)

Audio Performance:
- Frequency response:
  - DVD (linear audio): 4 Hz to 22 kHz (48 kHz sampling)
  - DVD (linear audio): 4 Hz to 44 kHz (96 kHz sampling)
  - CD audio: 4 Hz to 20 kHz

- Signal-to-Noise ratio:
  - CD audio: 115 dB (DVD OUT ONLY)
  - Total harmonic distortion:
    - DVD (linear audio): 0.0035% (DVD OUT ONLY)

Digital Audio Out:
- Output: Coaxial digital output

Pickup:
- Wave Length: 662 nm/785 nm
- Laser Power: CLASS 2/CLASS 1

GENERAL

Operating Temperature: 5°C to 35°C
Operating Humidity: 35% to 80%
Mass: 4.0 kg
Dimensions: 430 mm (W)×89 mm (H)×266 mm (D)

Note:
- Mass and dimensions shown are approximate.
- Specifications are subject to change without notice.

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