Installation and Operating Guide | Warranty

Model Number | XBV613 | DVD Player + Video Cassette Recorder

zenith **Z**

For service/
support Call:
Toll Free Number
1-800-243-0000

DVD
VIDEO™

VHS

DOLBY
DIGITAL

dts®
DIGITAL OUT

Plays
Windows
Media™

zenith **Z**

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CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK
OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
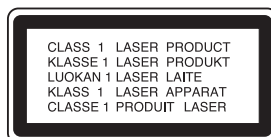
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION: Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating.
The openings should be never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction have been adhered to.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
CLASSE 1 PRODUIT LASER

CAUTION:
This product employs a Laser System.
To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Should the unit require maintenance, contact an authorized service center.
Performing controls, adjustments, or carrying out procedures other than those specified herein may result in hazardous radiation exposure.
To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION: The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

CAUTION:
VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

REGULATORY INFORMATION: FCC Part 15
This epuipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC COMPLIANCE: The responsible party for this product's compliance is:

Marketed and Distributed by LG Electronics U.S.A., Inc., 1000 Sylvan Avenue, Englewood Cliffs, NJ.
Phone: 1-201-816-2000.

CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;
That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

To disconnect power from the mains, pull out the mains cord plug. When installing the product, ensure that the plug is easily accessible.

2

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: **PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL. AND THOSE MARKED ON THE PRODUCT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.**

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

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

1. **Read these instructions. -** All these safety and operating instructions should be read before the product is operated.

2. **Keep these instructions. -** The safety, operating and use instructions should be retained for future reference.

3. **Heed all warnings. -** All warnings on the product and in the operating instructions should be adhered to.

4. **Follow all instructions. -** All operating and use instructions should be followed.

5. **Do not use this product near water. –** For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and other areas located near water.

6. **Clean only with dry cloth. –** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.

7. **Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. -** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over- heating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

8. **Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.**

9. **Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.**

10. **Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.**

11. **Only use attachments/accessories specified by the manufacturer.**

12. **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/product combination to avoid injury from tip-over.**

13. **Unplug this product during lightning storms or when unused for long periods of time.**

14. **Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.**

3

Contents

Introduction

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference.

This manual provides information on the operation and maintenance of your DVD+VCR. Should the unit require service, contact an authorized service location.

Moisture Condensation

Never operate the DVD+VCR immediately after moving it from a cold location to a warm location. Leave it for two or three hours without operating it. If you use the DVD+VCR in such a situation, it may damage discs/tapes and internal parts.

Symbol Used in this Manual

Note: Indicates special notes and operating features.

Tip: Indicates tips and hints for making the task easier.

A section whose title has one of the following symbols is applicable only to the disc represented by the symbol.

ALL   All discs listed below

DVD   DVD and finalized DVD±R/RW

ACD   Audio CDs

MP3   MP3 files

WMA   WMA files

DivX   DivX files

About the ⊘ Symbol Display

" ⊘ " may appear on your TV display during operation and indicates that the function is not permitted by this unit or the disc.

Notes on Discs

Handling Discs
Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never stick paper or tape on the disc.

Storing Discs
After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

Cleaning Discs
Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.
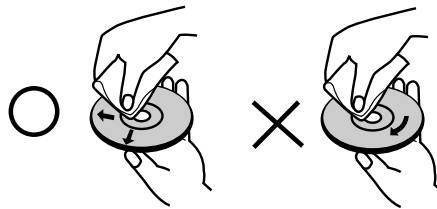
Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

About the Remote Control

Operation Range

Point the remote control at the remote sensor and press the buttons.

Distance: About 23 ft (7 m) from the front of the remote sensor.

Angle: About 30° in each direction of the front of the remote sensor.

Battery installation
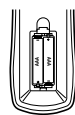
Detach the battery cover on the rear of the remote control, and insert two (R03/AAA) size batteries with ⊕ and ⊖ aligned correctly.

Caution: Do not mix old and new batteries and never mix different types of batteries such as standard, alkaline, etc.

Types of Playable Discs

	DVD (8 cm / 12 cm disc)
	Audio CD (8 cm / 12 cm disc)

In addition, this unit plays DVD±R/RW and CD-R/RW that contains audio titles, MP3, WMA, DivX and/or JPEG files.

RW COMPATIBLE This indicates a product feature that is capable of playing DVD-RW discs recorded with Video Recording format.

Notes:

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/RW) disc itself, some CD-R/RW (or DVD±R/RW) discs cannot be played on the unit.

- Only plays if DVD-RW is recorded in Video mode and has been finalized.

- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal) since they may result in malfunctions.

- This DVD+VCR requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) and these require certain pre-existing conditions (see above) to ensure compatible playback.

Customers should note that permission is required in order to download MP3 / WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

Regional code

This unit has a regional code printed on the rear of the unit. This unit can play only DVD discs labelled same as the rear of the unit or "ALL".

Notes on Regional Codes

- Most DVD discs have a globe with one or more numbers in it clearly visible on the cover. This number must match your DVD+VCR's regional code or the disc cannot play.

- If you try to play a DVD with a different region code from your player, the message "Check Regional Code" appears on the TV screen.

Notes on Copyrights:

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission.
This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs picture noise will appear. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Notice for Progressive Scan Use

CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p DVD+VCR, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

Selecting the Viewing Source

You must select one of your output sources (DVD or VCR) to view on the TV screen.

- If you want to view DVD deck output source:
  Press DVD until DVD indicator in the display window lights and output source of DVD deck is viewed on the TV screen.

- If you want to view VCR deck output source:
  Press VCR until VCR indicator in the display window lights and output source of VCR deck is viewed on the TV screen.

Notes:

- If you insert a disc while the DVD+VCR is in the VCR mode, the DVD+VCR will switch to DVD mode automatically.

- If you insert a cassette tape without prevention tab while the DVD+VCR is in the DVD mode, the DVD+VCR will switch to VCR mode automatically.

6

Front Panel
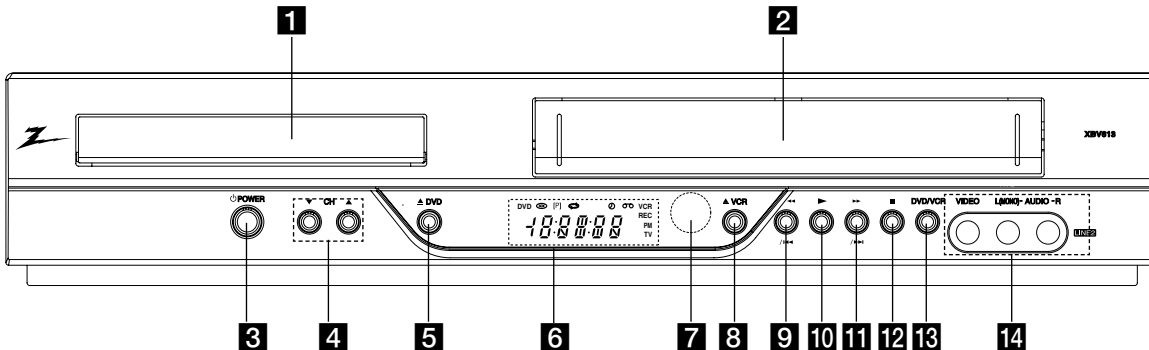
a **Disc Tray (DVD deck)**
Insert a disc here.

b **Cassette Compartment (VCR deck)**
Insert a video cassette here.

c ⏻ **POWER**
Switches the DVD+VCR ON and OFF.

d **CH (▼/▲)**
To scan up or down through memorized channels.

e ⏏ **DVD**
Opens or closes the disc tray.

f **Display Windows**

|	
DVD	The DVD deck is selected.
⊙	A disc is in the DVD deck. (Lights when a disc is in the DVD deck and Flashes when no disc.)
[P]	Indicates when the Progressive scan is active.
⟷	Indicates repeat mode.
⊘	DVD+VCR is in timer recording or a timer recording is programmed (VCR part only).
⊂⊃	A cassette is in the VCR deck.
VCR	The VCR deck is selected.
REC	DVD+VCR is Recording. (VCR part only)
PM	Indicates PM time. (AM is not displayed.)
TV	Lights when TV mode is active.
10:00:00	Indicates total playing time, elapsed time, remaining time or current deck status (Playback, Pause, etc).

g **Remote Sensor**
Point the DVD+VCR remote control here.

h ⏏ **VCR**
Ejects the tape in the VCR deck.

i ⏮/◀◀
- DVD: Skip to beginning of current chapter or track, press twice in quick successions to go to previous chapter or track. Press and hold button for about two seconds to search backward.
- VCR: Rewinds the tape during the stop mode or for fast reverse picture search.

j ▶
Starts playback of a disc or tape.

k ▶▶/⏭
DVD: Skip to next chapter or track. Press and hold for two seconds for a fast forward search.
VCR: Advances the tape during the STOP mode or for fast forward picture search.

l ■
Stops playback of the disc or tape.

m **DVD/VCR (output select)**
Select one of your output sources to view on the TV screen between DVD and VCR.

n **LINE2 (VIDEO/AUDIO (L/R))**
Connect to the audio/video output of an external source (Audio system, TV/Monitor, Another VCR).

Remote Control
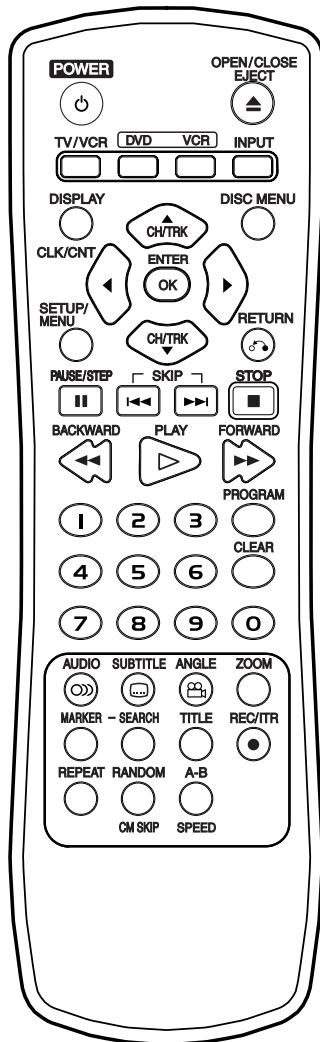
POWER   Switches DVD+VCR ON and OFF.

OPEN/CLOSE   Opens and closes the disc tray.

EJECT   Ejects the tape in the VCR deck.

TV/VCR   To view channels selected by the VCR tuner or by the TV tuner.

DVD   Select the DVD+VCR function mode to DVD.

VCR   Select the DVD+VCR function mode to VCR.

INPUT   Selects the VCR deck's source (Tuner, LINE 1, or LINE 2).

DISPLAY   Accesses On-Screen Display.

CLK/CNT   Switches between the clock, tape counter and tape remaining modes on the display.

DISC MENU   Accesses menu on a DVD disc.

SETUP/MENU   Accesses or removes DVD Setup menu and VCR menu.

◄ ► ▲ ▼   Selects menu options.

CH/TRK(▲/▼)   Selects VCR channels. Adjusts manually the tape's picture onscreen.

ENTER/OK   Confirms menu selections. Displays functions on the TV screen.

RETURN (♫)   Removes the setup menu.

PAUSE/STEP (II)   Pause playback or recording. Press repeatedly for frame-by-frame playback.

SKIP (I◄◄ / ►►I)   Go to next chapter or track. Returns to beginning of current chapter or track or go to previous chapter or track.

STOP (■)   Stops playback or recording.

BACKWARD / FORWARD (◄◄ / ►►)
   - DVD: Search backward or forward.
   - VCR: Rewinds/Advances the tape during the STOP mode, for fast backward/forward picture search.

PLAY (►)   Starts playback.

PROGRAM   Places a track on the program list.

CLEAR   Removes a mark on the Marker Search menu.

0-9   Selects numbered options in a menu.

AUDIO   Selects an audio language (DVD).

SUBTITLE   Selects a subtitle language.

ANGLE   Selects a DVD camera angle, if available.

ZOOM   Enlarges DVD video image.

MARKER   Marks any point during playback.

SEARCH   Displays Marker Search menu.

TITLE   Displays the disc's Title menu, if available.

REC/ITR (●)   Starts recording. Press repeatedly to set the recording time.

REPEAT   Repeat chapter, track, title or all.

RANDOM   Plays tracks in random order.

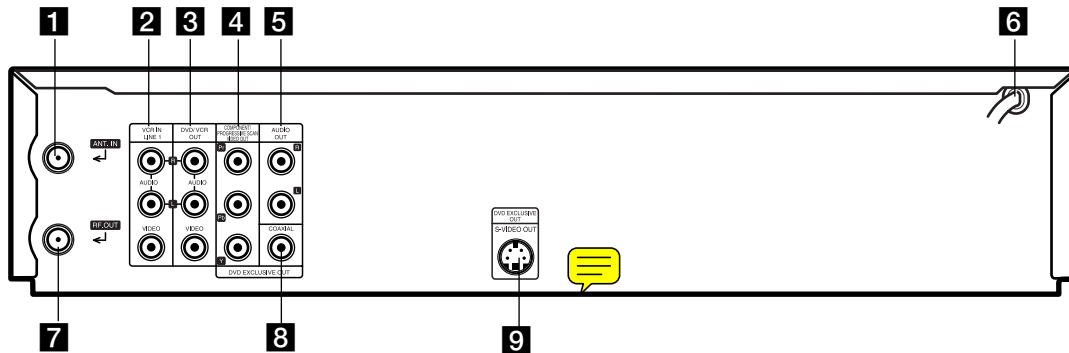**CM SKIP**   Fast forwards picture search through 30 seconds of recording.

A-B   Repeats sequence between two points (A and B).

SPEED   Selects recording speed.

Rear Panel

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

a **ANT.IN**
Connect the VHF/UHF/CATV antenna to this terminal.

b **VCR IN LINE 1 (VIDEO/AUDIO (Left/Right))**
Connect the audio/video output of an external source (Audio system, TV/Monitor, VCR, Camcorder).

c **DVD/VCR OUT (VIDEO/AUDIO (Left/Right))**
Connect to a TV with video and audio inputs.

d **COMPONENT/PROGRESSIVE SCAN VIDEO OUT (Y Pb Pr) (DVD OUT)**
Connect to a TV with Y Pb Pr inputs.

e **AUDIO OUT (Left/Right) (DVD OUT)**
Connect to a TV or other equipment with audio inputs.

f **AC Power Cord**
Plug into the power source.

g **RF. OUT**
Connect to a TV with RF coaxial inputs.

h **COAXIAL (DIGITAL AUDIO OUT jack) (DVD OUT)**
Connect to digital (coaxial) audio equipment.

i **S-VIDEO OUT (DVD OUT)**
Connect to a S-Video Input on TV.

Preparation

Depending on your TV and other equipment there are various ways you can connect the player. Please refer to the manuals of your TV, VCR, stereo system or other devices as necessary for additional connection information.

Notes:

·   The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. Position the units away from each other or turn off the unit after removing the disc.

·   Make sure the DVD+VCR is connected directly to the TV and tune the TV to the correct video input channel.

·   Do not connect the DVD+VCR's AUDIO OUT jack to the phono in jack (record deck) of your audio system. Do not connect the DVD+VCR via another VCR. The DVD image could be distorted by the copy protection system.
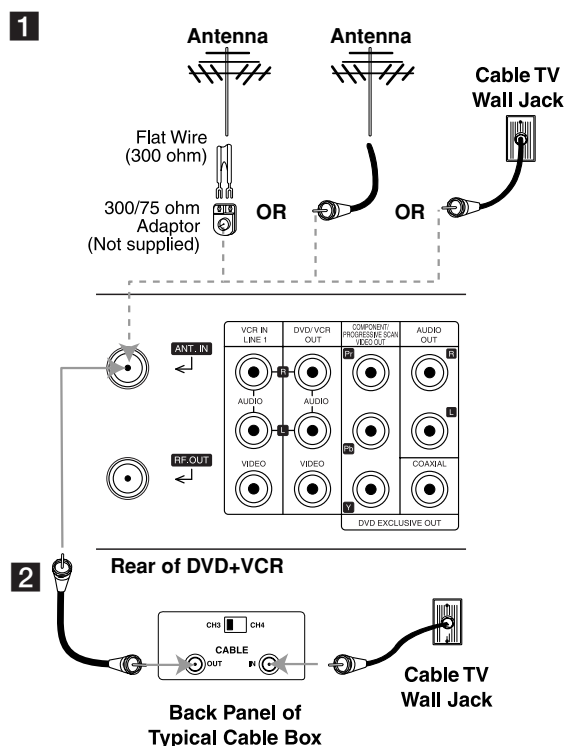
Connecting an Antenna or Cable TV

1 Antenna:

Disconnect the antenna from the rear of the TV and identify the antenna cable. If it is a round 75 ohm coaxial cable connect it directly to the jack marked ANT.IN on your DVD+VCR. If your antenna cable is flat connect it to a 300-ohm to 75-ohm antenna adaptor (not supplied) and slip the adaptor over the ANT.IN jack. Don't attempt to screw it into to the DVD+VCR.

2 Cable TV:

If your cable connection has no converter or descrambler, unscrew the cable from your TV and attach it to the ANT.IN jack on the DVD+VCR. If a converter is required connect a coaxial cable from the wall jack to the IN connector on the converter, and a coaxial cable from the OUT connector on the converter to the ANT.IN on your DVD+VCR. This cable hookup permits both TV and DVD+VCR operation.

Antenna   Antenna

Cable TV Wall Jack

Flat Wire (300 ohm)

300/75 ohm Adaptor (Not supplied)   OR   OR

ANT. IN
RF.OUT

VCR IN LINE 1 / DVD/ VCR OUT / COMPONENT/ PROGRESSIVE SCAN VIDEO OUT / AUDIO OUT

AUDIO   VIDEO   COAXIAL

DVD EXCLUSIVE OUT

Rear of DVD+VCR

2

CH3 ▮ CH4
CABLE
OUT   IN

Back Panel of Typical Cable Box

Cable TV Wall Jack

To view or record a CATV channel

1 Tune the TV to the DVD+VCR output channel (CH 3 or 4).

2 Set the DVD+VCR channel selector to the cable output channel. (Example: CH3)

3 Select a channel using the cable converter.

Notes:

· With this connection, you cannot record one program while viewing another.

· If you are using a cable box to tune channels, it is not necessary to do Auto Channel Set.

Basic TV Connections

Make one of the following connections, depending on the capabilities of your TV.

Rear of TV

ANTENNA INPUT   VIDEO INPUT   AUDIO INPUT

R   V   A1

Rear of DVD+VCR

ANT. IN
RF.OUT

VCR IN LINE 1 / DVD+VCR OUT / COMPONENT/ PROGRESSIVE SCAN VIDEO OUT / AUDIO OUT

AUDIO   AUDIO   COAXIAL

VIDEO   VIDEO

DVD EXCLUSIVE OUT

DVD EXCLUSIVE OUT
S-VIDEO OUT

C   A2   S

Pr Pb Y
COMPONENT/PROGRESSIVE SCAN VIDEO INPUT   AUDIO INPUT   S-VIDEO INPUT

Rear of TV
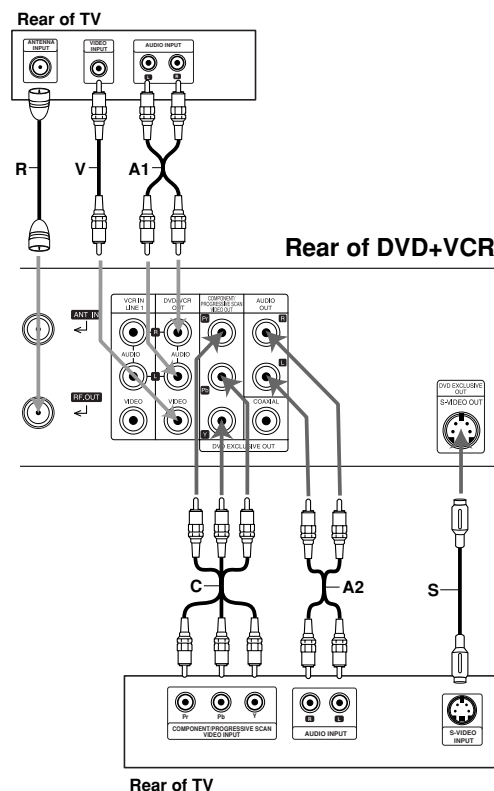
RF coaxial connection

Connect the RF.OUT jack on the DVD+VCR to the antenna in jack on the TV using the supplied 75-ohm Coaxial Cable **(R)**.

How to set the DVD+VCR's RF output channel

1. When the DVD+VCR is turned off, press and hold CH (▼/▲) on the front panel for more than five seconds. "RF03" or "RF04" appears in the display window.
2. Press CH (▼/▲) to change the RF output channel (RF03 or RF04). Tune the TV to this channel.
3. Turn off the DVD+VCR.

Audio/Video connection

1. Connect the DVD/VCR VIDEO OUT jack on the DVD+VCR to the video in jack on the TV using the video cable supplied **(V)**.
2. Connect the Left and Right DVD/VCR AUDIO OUT jacks on the DVD+VCR to the audio left/right in jacks on the TV **(A1)** using the supplied audio cables.

Note:

If you use this connection, set the TV's source selector to VIDEO.

Optional TV Connections

These connections support only DVD playback. The tuner and VCR still output through the RF.OUT **(R)** or DVD/VCR OUT **(A, V)** jacks.

S-Video connection

Connect the S-VIDEO OUT jack on the DVD+VCR to the S-Video in jack on the TV using the optional S-Video cable **(S)**.

Component Video / Progressive Scan connection

If your television is a high-definition or "digital ready" television, you may take advantage of the DVD+VCR's progressive scan output for higher video resolution.

Connect the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks on the DVD+VCR to the corresponding in jacks on the TV using an optional Y Pb Pr cable **(C)**.

Notes:

- Progressive scan does not work with the analog video connections (yellow VIDEO OUT jack and S-VIDEO OUT jack).
- When you use Component Video signal, set the Progressive Scan to "Off" on the setup menu.
- If your TV does not accept the Progressive Scan format, the picture will appear scrambled.

Audio connection

Connect the Left and Right AUDIO OUT jacks of the DVD+VCR to the audio left/right in jacks on the TV using the supplied audio cables **(A2)**.

Preparation

⑪

Connection to an Amplifier

You can only listen to DVD playback using COAXIAL **(X)** and AUDIO OUT **(A2)** connections. The tuner and VCR will still be heard through the RF.OUT **(R)** or DVD/VCR AUDIO OUT **(A1)** jack. (See page 10.)

Connecting to an amplifier equipped with two channel analog stereo or Dolby Pro Logic II/Pro Logic

Connect the Left and Right AUDIO OUT (or DVD/VCR AUDIO OUT) jacks on the DVD+VCR to the audio left and right in jacks on your amplifier, receiver, or stereo system using the audio cables **(A1, A2)** supplied.

Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2, or DTS)

1. Connect one of the DVD+VCR's DIGITAL AUDIO OUT jacks (COAXIAL **X**) to the corresponding in jack on your amplifier. Use an optional digital (COAXIAL **X**) audio cable.

2. You will need to activate the DVD+VCR's digital output. (See "AUDIO" on page 17).

Digital Multi-channel sound

A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your DVD+VCR (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.

Caution:
Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.

Notes:

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will pro-duce a strong, distorted sound or no sound at all.

- Six Channel Digital Surround Sound via digital connec-tion can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.

- To see the audio format of the current DVD in the on-screen display, press AUDIO.

Rear of DVD+VCR

A1   A2   X

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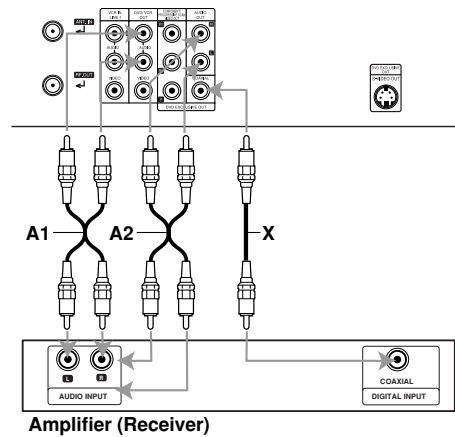
Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

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

Accessory Audio/Video (A/V) Connections to DVD+VCR

Connect the VCR IN LINE 1 or LINE 2 jacks on the DVD+VCR to the audio/video out jacks on your accessory component, using the optional audio/video cables. (Refer to page 23 for "Recording from External Components".)

Accessory Component:
VCR, Camcorder,
Video Camera,
Satellite Receiver,
Laser Disc Player

Jack panel of Accessory

OR

Rear of DVD+VCR   **Front of DVD+VCR**
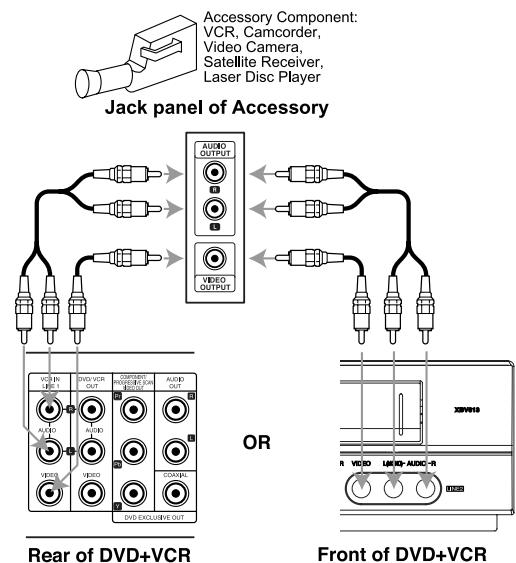
Initial Settings - VCR

By using the VCR Setup menu, you can make various adjustments to items such as clock setting, and timer recordings.

Your DVD+VCR allows remote control adjustment of several features.

General Operation

1. Press VCR on the remote control.
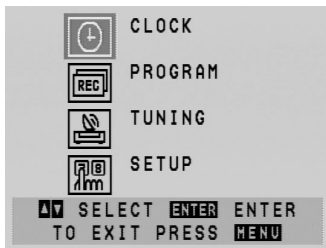
2. Press MENU and the MAIN menu will appear.

```
┌──┐  CLOCK
│⊙ │
├──┤  PROGRAM
│REC│
├──┤  TUNING
│ ↘ │
├──┤  SETUP
│▦ │
└──┘
▲▼ SELECT ENTER ENTER
  TO EXIT PRESS MENU
```

3. Use ▲ / ▼ to select the desired menu, then press ENTER/OK.

4. Use ▲ / ▼ to choose a desired option on the seleted Menu. Then use ◄ / ► to choose a desired setting.

5. Press MENU when finished.

Note:

Menus remain on-screen for 3 minutes.

CLOCK

The DVD+VCR gives you two ways to set the time and date: the Auto Clock Feature or Manually.

Auto Clock Set

```
┌──┐  MONTH : JANUARY
│⊙ │   DAY   :  1 SUN
└──┘   YEAR  : 2006
       TIME  : 12:00 AM
   AUTO CLOCK SET:    OFF
   DAYLIGHT SAVINGS:AUTO
   TIME ZONE:        AUTO

   ▲▼ SELECT  ◄► ADJUST
    TO EXIT PRESS MENU
```

- **AUTO CLOCK SET**
  The Auto Clock Set feature is set to ON at the factory. In the ON setting, the DVD+VCR looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time.
  - Use ◄ / ► to choose ON or OFF.

- **DAYLIGHT SAVINGS**
  You can turn Daylight Savings On or Off manually. If you choose "AUTO", the DVD+VCR sets the clock using the DST information broadcast in the signal (channel).
  - Use ◄ / ► to choose AUTO, ON or OFF.

- **TIME ZONE**
  You can set your local Time Zone manually. If you choose "AUTO", the DVD+VCR sets the clock using the first Coordinated Universal Time information it finds in a broadcast signal.
  - Use ◄ / ► to choose the correct time zone (AUTO, EASTERN, CENTRAL, MOUNTAIN, PACIFIC, ALASKA or HAWAII).

Notes:

- The Auto Clock feature enables the DVD+VCR to set up the clock while the DVD+VCR is turned off.

- There are cases where the TV station does not send or sends wrong date and/or time information and the DVD+VCR sets the incorrect time. **If this happens we recommend that you set the clock manually.**

Manual Clock Set

Use ▲ / ▼ / ◄ / ► to enter the necessary information.

- MONTH : Choose the month.
- DAY : Choose the date.
  The day of the week will display automatically.
- YEAR : Choose the year.
- TIME : Choose the time.
  Press and hold ◄ / ► to advance clock continuously.

Notes:

- If setting the clock manually, "AUTO CLOCK SET" must set to "OFF". If it is set to "ON", an incorrect date and/or time will be entered again when the DVD+VCR is turned off.

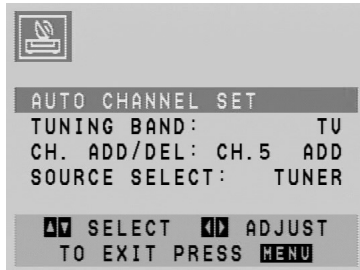- The clock uses the 12-hour system. Be sure to set AM and PM correctly.

PROGRAM

The Timer Recording function allows you to record up to 8 programs within a period of one year. (See pages 21-22).

TUNING

This DVD+VCR is equipped with a frequency synthe-sized tuner capable of receiving up to 181 channels. These include VHF channels 2-13, UHF channels 14-69 and CATV channels 1-125.

Auto Channel Programming

```
┌──────────────────────────────┐
│ [icon]                       │
│                              │
│ AUTO CHANNEL SET             │
│ TUNING BAND:            TV   │
│ CH. ADD/DEL: CH.5    ADD     │
│ SOURCE SELECT:      TUNER    │
│                              │
│  ▲▼ SELECT  ◀▶ ADJUST        │
│    TO EXIT PRESS MENU        │
└──────────────────────────────┘
```

1. Choose the SOURCE SELECT option, then use ◀ / ▶ to select TUNER.
   Use ◀ / ▶ to switch among TUNER, LINE1, and LINE2.

2. Choose the AUTO CHANNEL SET option, then use ◀ / ▶ to find channels.

   • The tuner will automatically cycle through all available channels (TV/CATV) in the area and place them in the tuner's memory.
   • After the AUTO CHANNEL SET is complete, the TUNING menu will hide and return to the TV screen automatically.

3. Make sure the TUNING BAND is set appropriately (TV or CATV).

   • TV : If you are using a standard antenna to receive channels.
   • CATV : If you are using basic cable to receive channels.

To Add or Erase Channels

This feature allows you to add or erase channels from memory manually.

1. Choose the CH. ADD/DEL option, then use ◀ / ▶ to select a channel to add or erase.

2. Use ENTER/OK to add or erase the channel. Repeat steps 1 and 2 to add or erase other channels.

3. Press MENU to return to the TV screen.

SETUP

```
┌──────────────────────────────┐
│ [icon]                       │
│ FUNCTION OSD :          ON   │
│ AUDIO MODE:          HI-FI   │
│ BROADCAST TYPE:     STEREO   │
│ AUDIO OUTPUT:       STEREO   │
│                              │
│  ▲▼ SELECT  ◀▶ ADJUST        │
│    TO EXIT PRESS MENU        │
└──────────────────────────────┘
```

FUNCTION OSD

The on-screen display can be turned on or off.

AUDIO MODE

The DVD+VCR has two separate audio playback systems, the high quality VHS Hi-Fi system and standard NORMAL mono system. The same audio is generally recorded on both systems. The VHS Hi-Fi system plays on separate (left and right) channels, and the NORMAL system plays monaural sound. The normal track is always played so the cassette can be played on a DVD+VCR that does not have VHS Hi-Fi.

BROADCAST TYPE (STEREO/SAP/MONO)

Multichannel Television Sound (MTS) carries stereo and/or Second Audio Program (SAP) bilingual signals. Set this display to the desired position when both MTS stereo and SAP signals are received. When only one of the MTS signal is received, the DVD+VCR automatically selects the corresponding receiving mode (Stereo or SAP) regardless of the selected position. For normal operation, the display should be in the STEREO position. The DVD+VCR will then record a STEREO program when available, and record a mono program IF the program is NOT IN STEREO. For weak STEREO and/or SAP broadcasts, changing the display to mono may give clearer sound.

AUDIO OUTPUT (STEREO/LEFT/RIGHT)

Used during playback [when AUDIO MODE (HI-FI/NORMAL) is in HI-FI position] for selecting the audio output signals from the AUDIO OUT terminals (L ch and R ch), and RF.OUT. This display setting should normally be left in the stereo position, so that when a stereo tape is played, the stereo sound will be heard through the left and right channels. If a mono tape is played and the audio output is set to stereo, the same mono sound will be heard from both left and right channels.

Displaying Disc Information on-screen - DVD

You can display various information about the disc loaded on-screen.

1. Press DISPLAY to show various playback information.
   The items displayed differ depending on the disc type or playing status.

◉◄	1 / 3 ►
🎞	1 / 12
⏱	0:20:09
🎧	1 ENG ◻◻D 3/2.1CH
⧉ABC	1 ENG
🎬	1 / 1
◉	3D SUR

2. You can select an item by pressing ▲ / ▼ and change or select the setting by pressing ◄ / ►.

   - Title (Track) – Current title (or track) number/total number of titles (or tracks)
   - Chapter – Current chapter number/total number of chapters
   - Time – Elapsed playing time
   - Audio – Selected audio language or channel
   - Subtitle – Selected subtitle
   - Angle – Selected angle/total number of angles
   - Sound – Selected sound mode

Note:
If no button is pressed for a few seconds, the on-screen display disappears.

Initial Settings - DVD

By using the DVD Setup menu, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup menu, among other things. For details on each Setup menu item, see pages 16 to 18.

To display and exit the Menu:
Press SETUP/MENU to display the menu. A second press of SETUP/MENU will take you back to initial screen.

**To go to the next level:**
Press ► on the remote control.

To go back to the previous level:
Press ◄ on the remote control.

General Operation

1. Press DVD on the remote control.

2. Press SETUP/MENU. The Setup menu appears.

3. Use ▲ / ▼ to select the desired option then press ► to move to the second level. The screen shows the current setting for the selected item, as well as alternate setting(s).

4. Use ▲ / ▼ to select the second desired option then press ► to move to the third level.

5. Use ▲ / ▼ to select the desired setting then press ENTER/OK to confirm your selection. Some items require additional steps.

6. Press SETUP/MENU or PLAY (►) to exit the Setup menu.

Preparation

⑮
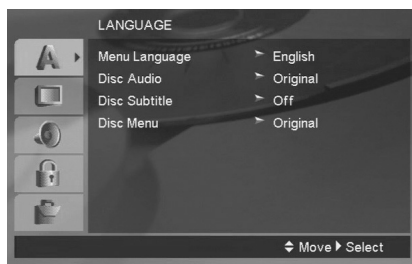
LANGUAGE

Menu Language

Select a language for the VCR and DVD's setup menu and information display.

Disc Audio / Subtitle / Menu

Select the language you prefer for the audio track (disc audio), subtitles, and the disc menu.

Original: Refers to the original language in which the disc was recorded.

Other: To select another language, press number buttons then ENTER/OK to enter the corresponding 4-digit number according to the language code list in the reference chapter (see page 33). If you enter the wrong language code, press CLEAR.

Off (for Disc Subtitle) : Turn off Subtitle.

DISPLAY

TV Aspect

4:3 : Select when a standard 4:3 TV is connected.

16:9 : Select when a 16:9 wide TV is connected.

Display Mode

Display Mode setting works only when the TV Aspect mode is set to "4:3".

Letterbox: Displays a wide picture with bands on the upper and lower portions of the screen.

Panscan: Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

Progressive Scan

Progressive Scan Video provides the highest quality pictures with less flickering.
If you are using the Component Video jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to On.

To turn on progressive scan:

Connect component/progressive out of this unit to the input of your monitor/television, set your television or monitor to component/progressive Input.
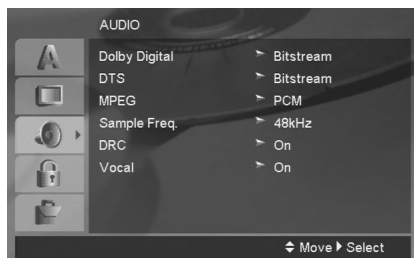
1. Select "Progressive Scan" on the DISPLAY menu then press ▶.

2. Select "On" using the ▲ / ▼ buttons.

3. Pressing ENTER/OK will set this unit to progressive scan mode.

Note:

If you set Progressive Scan to ON in error, you must reset the DVD+VCR. Press STOP (■) and hold it for more then five seconds before releasing it. The video output will be restored to the standard setting, and a
picture will once again be visible on a conventional analog TV or monitor.

AUDIO

Each DVD disc has a variety of audio output options. Set this unit's AUDIO options according to the type of audio system you use.

```
AUDIO
Dolby Digital        ➤ Bitstream
DTS                  ➤ Bitstream
MPEG                 ➤ PCM
Sample Freq.         ➤ 48kHz
DRC                  ➤ On
Vocal                ➤ On

                        ⬍ Move ▶ Select
```

Dolby Digital / DTS / MPEG

Bitstream: Select "Bitstream" if you connect the DVD+VCR's DIGITAL AUDIO OUT jack to an amplifier or other equipment with a Dolby Digital, DTS or MPEG decoder.

PCM (for Dolby Digital / MPEG): Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to two-channel PCM audio.

Off (for DTS): If you select "Off", the DTS signal is not output through the DIGITAL AUDIO OUT jack.

Sample Freq. (Frequency)

If your receiver or amplifier is NOT capable of handling 96 kHz signals, select 48 kHz. When this choice is made, this unit automatically converts any 96 kHz signals to 48 kHz so your system can decode them.

If your receiver or amplifier is capable of handling 96 kHz signals, select 96 kHz. When this choice is made, this unit passes each type of signal through without any further processing.

Check the documentation for your amplifier to verify its capabilities.
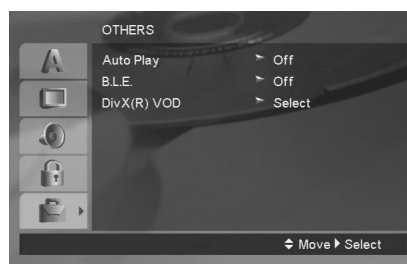
DRC (Dynamic Range Control)

With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). This allows you to listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect.

Vocal

Set to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc mix into normal stereo sound.

OTHERS

```
OTHERS
Auto Play            ➤ Off
B.L.E.               ➤ Off
DivX(R) VOD          ➤ Select

                        ⬍ Move ▶ Select
```

Auto Play

You can set up the DVD+VCR so a DVD disc automatically starts playing whenever the DVD is inserted.
If Auto Play mode is set to On, this DVD player will search for title that has the longest playback time and then play back the title automatically.

On: Auto Play function is active.

Off: Auto Play function is not active.

Note:
The Auto Play function may not work for some DVDs.

B.L.E. (Black Level Expansion)

To select the black level of playback pictures. Set your preference and monitor's ability.

On: Expanded grey scale. (0 IRE cut off)

**Off:** Standard grey scale. (7.5 IRE cut off)

DivX(R) VOD

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

1. Select "DivX(R) VOD" option then press ▶.
2. Press ENTER/OK while "Select" is selected and the registration code will appear.
   Use the registration code to purchase or rent the videos from DivX® VOD service at www.divx.com/vod. Follow the instructions and download the video onto a disc for playback on this unit.
3. Press ENTER/OK to exit.

Note:
All the downloaded videos from DivX® VOD can only be played back on this unit.

Preparation

⑰

LOCK (Parental Control)
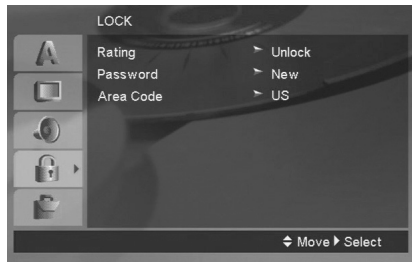
Rating

Some movies contain scenes that may not be suitable for children to view. Many of these discs contain parental control information that applies to the complete disc or to certain scenes on the disc. Movies and scenes are rated from 1 to 8, depending on the area. DVD video discs may or may not respond to the parental control setting if the Area code of the disc is set wrongly. Some discs offer more suitable scenes as an alternative. Ratings are area dependent.

The parental control feature allows you to block access to scenes below the rating you input, thereby preventing your children from being able to view material you believe is unsuitable.

1. Select "Rating" on the LOCK menu then press ▶.

2. To access the Rating, Password and Area Code features, you must input the 4-digit security code you created.

   If you have not yet entered a security code you are prompted to do so. Input a 4-digit code and press ENTER/OK. Enter it again and press ENTER/OK to verify. If you make a mistake before pressing ENTER/OK, press CLEAR.

3. Select a rating from 1 to 8 using the ▲ / ▼ buttons.

   1-8: Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.

   Unlock : If you select unlock, parental control is not active and the disc plays in full.

Note:
If you set a rating for the player, all disc scenes with the same rating or lower are played. Higher rated scenes are not played unless an alternate scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback stops. You must enter the 4-digit password or change the rating level in order to play the disc.

4. Press ENTER/OK to confirm your rating selection, then press SETUP/MENU to exit the menu.
5. Press OPEN/CLOSE (▲) to activate parental control.

Password (Security Code)

You can enter or change password.

1. Select "Password" on the LOCK menu then press ▶.

2. Follow step 2 as shown left column (Rating). To change the password, select the "Change", press ENTER/OK and input the new 4-digit code then press ENTER/OK. Input it again to verify.

3. Press SETUP/MENU to exit the menu.

If you forget your Security Code

If you forget your security code you can clear it using the following steps:

1. Press SETUP/MENU to display the Setup menu.

2. Input the 6-digit number "210499" and the security code is cleared.

3. Enter a new code as described above.

Area Code

Enter the Area Code whose standards were used to rate the DVD video disc, based on the list in the reference chapter (see page 33).

1. Select "Area Code" on the LOCK menu then press ▶.

2. Follow step 2 as shown left (Rating).

3. Select the first character using ▲ / ▼ buttons.

4. Press ▶ and select the second character using ▲ / ▼ buttons.

5. Press ENTER/OK to confirm your area code selection.

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Operations - VCR

This chapter describes how to operate the VCR and DVD.

VCR Tape Playback

Press the **VCR** button to select the device to be operated.

Basic Instructions

1. Turn on the TV.

2. Tune the TV to the DVD+VCR output channel (CH 3 or 4) or if a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO.

3. Insert a pre-recorded video cassette.
   The ⊙⊙ indicator lights and the DVD+VCR powers on automatically.

4. If the ⊘ (TIMER) indicator in the display window is lit, press POWER (⏻) once.

5. If a tape without a safety tab is inserted the unit starts playback automatically.
   If not, press PLAY (▶).

6. Press STOP **(■)** to stop playback. If the tape reaches the end before you press STOP **(■)** the DVD+VCR automatically stops, rewinds and ejects the tape.

Note:
It is not necessary to select the tape speed for playback because it is automatically selected by the DVD+VCR. Also, during playback the TV/VCR selector switches to VCR mode automatically.

Auto Tracking

Automatic tracking adjusts the picture to remove snow or streaks and beings when:

- A tape is played for the first time.
- The tape speed (SP, LP, SLP) changes.
- Streaks or snow appear due to scratches on the tape.

Manual Tracking

To manually adjust the tracking use the CH/TRK (▲/▼) buttons on the remote control or CH (▲/▼) on the front panel during playback.

Notes:

- Vertical jitter requires a very fine adjustment.
- Tracking is automatically reset to normal when the tape is ejected or the power cord is unplugged for more than 3 seconds.

Search

This function lets you visually search for a tape section in either direction: forward and reverse. During the high-speed picture search modes, the audio is muted and horizontal lines (noise bars) appear. Also, a short time is needed to stabilize the tape speed when re-entering the PLAY mode so slight interference may be observed during this time.
To search:

1. Press BACKWARD (◄◄) or FORWARD (►►) during playback.

2. To return to playback, press PLAY (▶).

Note:
After 3 minutes in SEARCH mode the DVD+VCR returns to PLAY mode to protect the tape and video heads.

Still Picture and Frame-by-Frame Playback

1. Press PAUSE/STEP (❚❚) during playback.
   A still picture appears on the TV screen and the audio is muted.

2. If the still picture vibrates vertically, stabilize it by using CH/TRK (▲/▼) on the remote control.

3. Press PAUSE/STEP (❚❚) repeatedly to advance the video picture one frame at a time.

4. To return to playback, press PLAY (▶).

Note:
After 5 minutes in STILL mode the DVD+VCR stops to protect the tape and video heads.

Operation

⑲

Slow Motion

1. While in still mode, press FORWARD (▶▶). The tape is played at a speed 1/19 times slower than the normal speed.

2. Use CH/TRK (▲/▼) on the Remote Control if necessary to adjust the tracking.

3. To return to the normal speed, press PLAY (▶).

Notes:
- During slow motion, audio is muted and horizontal lines (noise bars) may appear on the TV screen.This is normal.
- After 3 minutes in SLOW MOTION mode the DVD+VCR goes back to PLAY mode to protect the tape and video heads.

CM SKIP (Commercial Skip)

This feature is useful for skipping commercials or short program segments.

1. Press CM SKIP in playback mode.
   The DVD+VCR performs a fast forward picture search through 30 seconds of recording.

2. Press CM SKIP again to extend the search time by an addition 30 seconds. The maximum search time is 3 minutes.

3. When the search is complete, the DVD+VCR goes into playback mode automatically.

VHS Hi-Fi Stereo/ MTS Broadcast

This DVD+VCR is equipped with the VHS Hi-Fi audio sound system for recording and playback. The information below gives a brief description of Hi-Fi audio and how to record and play a tape in the Hi-Fi audio mode.
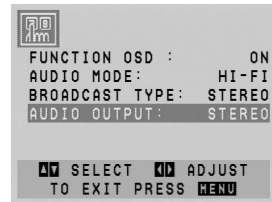
Hi-Fi Stereo Audio Sound

A stereo TV with AUDIO/VIDEO input jacks or a stereo audio system is required for true stereo playback. To experience the full and rich stereo sound available with Hi-Fi recorded tapes, we recommend the connection of this unit to a home stereo audio system.

1. Set the AUDIO MODE option to HI-FI on the VCR SETUP menu .

```
FUNCTION OSD :        ON
AUDIO MODE:        HI-FI
BROADCAST TYPE:   STEREO
AUDIO OUTPUT:     STEREO

    ▲▼ SELECT  ◀▶ ADJUST
      TO EXIT PRESS MENU
```

2. Set the AUDIO OUTPUT option to STEREO so that the left channel sound (L) is heard from the left speaker and the right channel sound (R) is heard from the right speaker.

```
FUNCTION OSD :        ON
AUDIO MODE:        HI-FI
BROADCAST TYPE:   STEREO
AUDIO OUTPUT:     STEREO

    ▲▼ SELECT  ◀▶ ADJUST
      TO EXIT PRESS MENU
```

The other options are (LEFT) POSITION, which results in the left channel sound (L) being heard from both speakers or (RIGHT) POSITION, which results in the right channel sound (R) being heard from both speakers.

3. Insert a cassette and press PLAY (▶).

MTS (Multi-Channel TV Sound)

This DVD+VCR can decode MTS stereo and bilingual (SAP) off-the-air broadcast sound signals. It also decodes stereo TV sound from local cable companies as long as they operate on assigned cable frequencies and use the EIA-recommended MTS stereo/bilingual TV sound system.

Multichannel TV Sound Indicator (MTS)
When you press ENTER/OK one or both of the indicators appears on the TV Screen.

STEREO
The DVD+VCR can record in stereo onto the VHS Hi-Fi audio tracks when the BROADCAST TYPE option is in the STEREO position. The DVD+VCR can also record mono audio onto the mono audio track.

SAP
Some stations transmit a Second Audio Program, which is used for a second language or additional information.

STEREO/SAP
Use the BROADCAST TYPE option to select the desired recording mode (STEREO or SAP).

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VCR Tape Recording

Basic Instructions

1. Turn on the DVD+VCR and TV.

2. Tune the TV to the DVD+VCR output channel (CH 3 or 4) or if a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO.

3. Insert a video cassette with the safety tab intact.

4. Select the desired channel using CH/TRK (▲/▼).

5. If you are recording from another source via audio/video input jacks (at the rear or front panel), select LINE1 or LINE2 using INPUT.

6. Set the desired recording speed (SP or SLP) by pressing SPEED. This DVD+VCR is not designed to record in LP mode.

7. Set the MTS mode (STEREO or SAP). Set the BROADCAST TYPE option to SAP if applicable.

8. Press REC/ITR (●) and recording starts. The REC indicator appears in the display window. If a cassette with no safety tab is loaded, the cassette is ejected.

9. Press STOP (■) to stop recording. If the tape reaches the end before STOP (■) is pressed, the DVD+VCR stops, rewinds and ejects the tape.

Tip:
Use PAUSE/STEP (II) for best results when making changes while recording. For example, if you want to change channels while recording, first press PAUSE/STEP (II) to put the unit in pause mode, select the desired channel on the DVD+VCR, and then press PAUSE/STEP (II) again to resume recording.

Note:
During the VCR recording mode, you cannot change to the DVD mode.

To pause the recording

1. Press PAUSE/STEP (II) to pause the tape during recording. The REC indicator flashes in the display window.

2. When you want to continue recording, press PAUSE/STEP (II) or press REC/ITR (●).
After 5 minutes in PAUSE mode, the DVD+VCR stops automatically to protect the tape and the video heads.

To record one TV program while watching another

1. Press TV/VCR to select the TV mode during recording. The TV indicator appears.

2. Using the TV, select the channel to be viewed.

Timer Recording

For unattended recording, you must input the channels to be recorded and the starting and ending times.

Things to know before starting
If you try to set the program timer before setting the clock, "PLEASE SET THE CLOCK" appears for a moment and then CLOCK menu appears on the TV screen. Set the time and date before proceeding.

1. Turn on the DVD+VCR and the TV.

2. Be sure the TV is set to the DVD+VCR output channel (3 or 4).

3. Make sure the TUNING BAND in the TUNING menu is set appropriately (TV or CATV).

4. Press MENU and the MAIN menu appears.

5. Use ▲ / ▼ to choose the PROGRAM menu and press ENTER/OK.
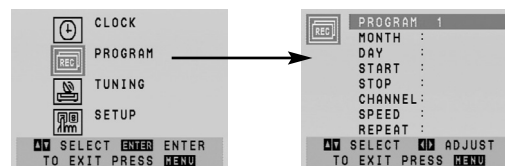
If eight programs are already entered, the FULLY PROGRAMMED message appears for a moment and then PROGRAM 1 appears on the TV screen.

6. Use the ▲ / ▼ buttons to switch between the program options, and the ◄ / ► buttons to input the program information:

Input the month, day, start and stop times of the program you want to record.

Operation

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CHANNEL: Select a TV channel, LINE1 or LINE2.
If you have CABLE TV and use a cable box (converter) you must set the channel to match the cable box output channel (usually CH 3 or 4). Change channels on the cable box instead of with the DVD+VCR. If you use a cable converter, you can program multiple recordings only on the converter box output channel. This is because the converter determines what channel you view through your DVD+VCR.

SPEED: AUTO mode determines how much tape is left and switches the speed from SP to SLP if it is necessary to complete recording the program. If this occurs there could be some picture and sound distortion at the point where the speed changes.

REPEAT: To record up to 8 programs on a certain day of every week select WEEKLY. To record up to 8 programs at the same time Monday through Friday select DAILY. Otherwise select ONCE.

7. Press MENU and the program is memorized by the DVD+VCR.

8. Additional programs may be entered by repeating steps 1-7.

9. Ensure you insert a tape with the record safety tab intact before the first programmed time.

10. Press STOP (■) to end timer recording.

Notes:

·   If you make a mistake or want to change a setting, use ▲ to select the option and correct it using ◄ / ►.

·   If the program preset time is past, the "PAST TIME PROGRAMMED" message appears on the TV screen. Return to the incorrect program and program it with the correct time.

·   If you enter a past date, the timer recording will be performed on that date of the next year.

·   If the power fails or the DVD+VCR is unplugged the clock and timer settings are kept in memory for only 3 seconds. Otherwise you must reset the clock and timer.

·   If the tape indicator is blinking, no tape is loaded.

·   When you are playing DVD at programmed Recording time, the DVD+VCR automatically change to VCR mode and start recording.

·   The DVD+VCR will automatically power off when Timer Recording ends.

Checking or Erasing the Timer Program

Programming can be checked whenever the DVD+VCR is turned on.

1. Press MENU and the MAIN menu appears.

2. Use ▲ / ▼ to choose the PROGRAM menu and press ENTER/OK.
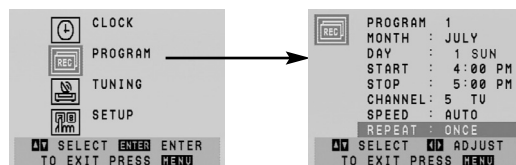
3. Use ◄ / ► to select a program you want to check or erase. To erase the program, press CLEAR.

4. Press MENU to return to the TV screen.

Program Priority

If the recording start and end times of preset programs overlap on the same day (see the example), the second program is not recorded until the first is finished.
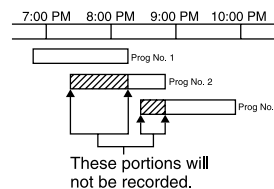
In this example, the first part of program numbers 2 and 3 are not recorded.

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Instant Timer Recording

With this feature you can record for a preset length without using the program timer.

1. Turn on DVD+VCR and the TV.

2. Be sure the TV is tuned to the DVD+VCR output channel (CH 3 or 4). If a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO.

3. Insert a video cassette with the safety tab intact.

4. Select the desired channel using CH/TRK **(▲/▼)** or the number buttons (0-9). The channel number appears on the TV screen. If you are recording from another source via audio/video input jacks (at the rear or front panel), select LINE1 (rear jacks) or LINE2 (front jacks) by using INPUT.

5. Set the desired recording speed (SP or SLP) using SPEED. The tape speed appears on the TV screen.

6. Press REC/ITR **(●)** twice. The menu appears on the TV screen, recording starts, and the ⌚ (TIMER) indicator lights.

```
INSTANT TIMER RECORD

CHANNEL      2
SPEED        SP

START        NOW
LENGTH       0H30M
```

7. Press REC/ITR **(●)** repeatedly to select the recording time length. Each time you press this button the recording time increases 30 minutes (up to 9 hours). At the end of the recording, the DVD+VCR will stop recording and shut off.

    If you set the time to 0H00M, the DVD+VCR goes into the normal recording mode. Press STOP (■) to stop the recording.

Note:
During Instant Timer Recording, you cannot change the channel on the DVD+VCR.

Checking the Recording Time

Press REC/ITR (●) once to check the recording time. The recalled setting automatically returns to the TV screen after 6 seconds.

Extending the Recording Time

The recording time can be extended anytime by pressing REC/ITR (●). Subsequent presses result in advancing the recording time by 30-minute increments.

Note:
If you press PAUSE/STEP (❚❚) during instant timer recording, the instant timer recording is cancelled.

Recording from External Components

You can record from an external component, such as a camcorder or VCR, connected to any of the DVD+VCR's external inputs.

1. Make sure that the component you want to record from is connected properly to the DVD+VCR. See page 12.

2. Press INPUT repeatedly to select the external input to record from.
    *   LINE1 (L1): Audio/Video Input mounted on back panel.
    *   LINE2 (L2): Audio/Video Input mounted on front panel.

3. Load a recordable tape.

4. Set a recording mode (SP or SLP) as necessary by pressing SPEED repeatedly.

5. Play the tape or disc in the external component. If you have a TV attached to your DVD+VCR, you can see the video palying.

6. Press REC/ITR (●) once to start recording. The REC indicator lights in the display window.

7. Press STOP (■) to stop recording.

Notes:
*   Before recording, confirm the recording start position.

*   If your source is copy-protected using CopyGuard, you will not be able to record it using this unit. See Copyright on page 6 for more details.

*   To record for a fixed length of time, see Instant Timer Recording.

Operation

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Copying from DVD to VCR

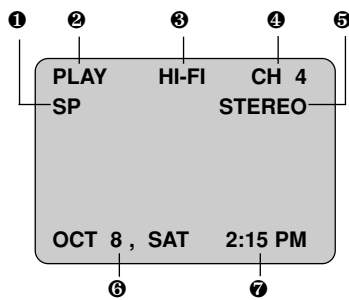You can copy the contents of a DVD to a VHS tape.

1. Insert the disc you wish to copy into the DVD deck and close the disc tray.

2. Insert a blank VHS video tape into the VCR deck.

3. Find the place on the DVD from which you want to start dubbing using the PLAY, FF, REW and PAUSE functions.
   For best results, pause playback at the point from which you want to record.

4. Press the ● REC/ITR. The DVD goes into PLAY mode and the VCR goes into RECORD mode. If the DVD disc menu appears, you may need to press PLAY (▶) manually to begin copying.

5. When the DVD is finished playing, press STOP (■) to end copying.

Notes:

• If the DVD you are attempting to copy is copy protected, you will not be able to copy the disc. It is not permitted to copy Macrovision encoded DVDs (or Discs). "Lock" is displayed in the display window.

• You must stop the copy process manually when the DVD movie ends, or the unit may replay and record over and over again.

• When you stop the DVD playback during copying, the recording on VCR is stopped automatically.

On-Screen Display - VCR

Some of these functions will be displayed every time the DVD+VCR is operated.

❶ ❷   ❸   ❹   ❺

```
┌──────────────────────────┐
│  PLAY    HI-FI    CH 4    │
│  SP              STEREO   │
│                          │
│                          │
│                          │
│  OCT 8 , SAT   2:15 PM    │
└──────────────────────────┘
```
              ❻   ❼

❶ TAPE SPEED DISPLAY

❷ FUNCTION DISPLAY

❸ HI-FI DISPLAY

❹ CHANNEL DISPLAY

❺ STEREO/SAP DISPLAY
   (MONO is not displayed)

❻ DATE DISPLAY

❼ CLOCK/ COUNT/ REMAIN DISPLAY

Each press of the ENTER/OK changes the TV screen in the following sequence.
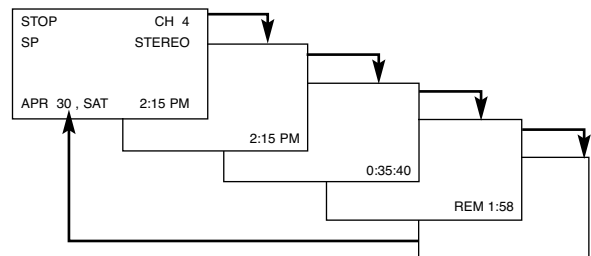
Real-Time Counter
If a tape with contents recorded on it is inserted into the VCR, the real-time counter shows length of the tape running in hours, minutes, and seconds. Press CLK/CNT to select the real-time counter display.
Every press of CLK/CNT changes the TV screen as illustrated below.

Counter Memory
This feature is useful if there is a section of tape you want to view immediately after recording or if you want to return to the same point several times.

1. Begin recording or playing a tape.

2. Press CLK/CNT until the real-time counter is displayed on the TV screen.

3. At the point that you want to locate later, reset the real-time counter to "0:00:00" by pressing CLEAR.

4. Continue to play or record.

5. Press STOP **(■)** when recording or playback finishes.

6. Press BACKWARD **(◄◄)**. The tape automatically stops when the tape counter returns to about "0:00:00".

Tape Remaining
This function displays the amount of time remaining on the tape during recording or playback. Press CLK/CNT repeatedly until the REM indicator displays on the TV screen during recording or playback.
The remaining tape length may not be displayed correctly depending on the condition of the tape and the kind of the tape (T-140, T-160, or T-210 etc.).

Notes:

• The function displays can be seen displayed on the TV screen for 5 seconds.

• The clock (or tape counter, tape remaining) mode will be displayed until you press ENTER/OK.

• The tape counter and the remaining tape length indicator appear only when a cassette is inserted. Also, the remaining tape length indicator appears after any tape operation.

Additional VCR Information

- During manual recording, timer recording, Instant Timer Recording, playback, or fast forward modes, the DVD+VCR automatically starts rewinding the tape at the end of the tape. The cassette stops at the beginning of the tape and is ejected.

- After you have finished using the DVD+VCR, rewind, eject, and remove the cassette. Place the cassette in its protective sleeve to protect it from dust. It is not necessary to rewind the cassette before removing it, but if you do, it is ready to play or record the next time you use it.

- Be sure the DVD+VCR channel selector is on the correct channel you wish to record. The channel that is being recorded can always be checked by setting the television on the DVD+VCR channel (CH 3 or 4) and pressing the TV/VCR to turn the DVD+VCR's TV indicator off.

- Do not attempt to hook up more than one television set to the DVD+VCR for either recording or playback.

VCR Auto Play System

This DVD+VCR features automatic playback.

When you load a tape with the safety tab removed the following occurs:

- The Output Source is changed to VCR mode automatically.

- The power turns on automatically and playback begins.

- At the end of the tape, the DVD+VCR stops, then rewinds.

- The tape is ejected after rewinding and the turns itself off automatically.
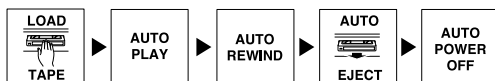
Note:

Auto power off does not function during regular DVD play mode. (DVD+VCR power stays on.)

S-VHS Quasi Playback (SQPB)

- This DVD+VCR can play back S-VHS recorded tapes, however, it cannot make recordings using S-VHS format tapes.

- SQPB is an abbreviation for S-VHS Quasi Playback.

Easy Information

If the Extended Data Service (XDS) signals are provided along with normal TV signal in your area or during playback of a tape recorded with Extended Data Service (XDS) signals, the station ID, program title, and program details are shown on the TV screen. When viewing a channel with Extended Data Service (XDS) signals, press ENTER/OK and the station ID will appear on the TV screen. Press ENTER/OK again and the program details will appear on the TV screen. When viewing a tape recorded with Extended Data Service (XDS) signals, press ENTER/OK twice and the program title and program details will appear on the TV screen.

Program Details

LENGTH: Indicates the run length of a program.
TIME REMAINING: Indicates the remaining time of a program.
RATING: Indicates the rating of the current program (N/A, G, PG, PG-13, R, NC-17, X and Not Rated). The rating N/A means that the motion picture ratings are not applicable to this program.

```
                                        CH  4
SP           WABC          STEREO



   "Home video"
   APR  30 , SAT          2:15 PM
```
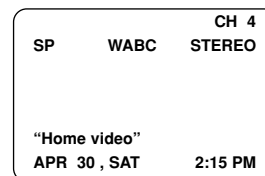
**Easy Information Screen
(Station ID)**

```
        PROGRAM DETAILS
   "Home video"


            LENGTH   01:00
   TIME REMAINING   00:26
            RATING   N/A
```
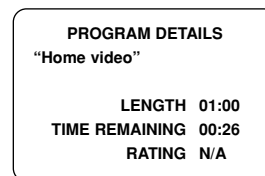
**Easy Information Screen
(Program details)**

Operations - DVD

Playback Setup

- Turn the TV on and select the video input source connected to this unit.
- Audio System: Turn the Audio System on and select the input source connected to this unit.

1. Press OPEN/CLOSE (▲) to open the disc tray.

2. Load your chosen disc in the tray with the playback side down.

3. Press OPEN/CLOSE (▲) to close the tray.
    Playback starts automatically. If playback does not start, press PLAY ▶.
    In some cases, the disc menu might appear instead.

Note:
If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see "Rating", on page 17).

General features

Buttons	Operations	Discs
▲ (OPEN / CLOSE)	Opens or closes the disc tray.	
II (PAUSE)	During playback, press II to pause playback.	**ALL**
	Press II repeatedly to play Frame-by-Frame.	**ALL**
SKIP (I◄◄ / ►►I)	During playback, press SKIP (I◄◄ or ►►I) to go to the next chapter/track or to return to the beginning of the current chapter/track.	**DVD** **DivX** **ALL**
	Press SKIP I◄◄ twice briefly to step back to the previous chapter/track.	
BACKWORD /FORWARD(◄◄ / ►►)	During playback, press BACKWARD/FORWARD (◄◄ or ►►) repeatedly to select the required scan speed. DVD, DivX disc; 4 steps MP3, Audio CD ; 3 steps	**DVD** **DivX** **ACD** **MP3**
	While the playback is paused, press FORWARD ►► repeatedly to play in slow motion (4 steps, forward only).	**DVD** **DivX**
REPEAT	During playback, press REPEAT repeatedly to select a desired repeat mode. DVD Video discs: Chapter/Title/Off Audio CD, DivX/MP3/WMA discs: Track/All/Off **Note:** If you press SKIP (►►I) once during Repeat Chapter playback, the repeat playback cancels.	**ALL**
A-B	During playback, each press of A-B button to select point A and point B and repeats a sequence from point A (Starting point) to point B (End point). **Note:** The A-B repeat function is available only in the current track.	**DVD** **DivX** **ACD**

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Buttons	Operations	Discs
ZOOM	During playback or pause mode, press ZOOM to enlarge the video image (4 steps). You can move through the zoomed picture using ◄ ► ▲ ▼ buttons. Press CLEAR to exit. *Note:* Zoom may not work on some DVDs.	**DVD** **DIVX**
RANDOM	During playback or in stop mode, press RANDOM for random playback.	**ACD** **MP3** **WMA**
TITLE	If the current DVD title has a menu, the title menu appears on the screen. Otherwise, the disc menu may appears.	**DVD**
DISC MENU	The disc menu appears on the screen.	**DVD**
📷 (ANGLE)	During playback of DVD disc contains scenes recorded different camera angles, press ANGLE repeatedly to select a desired angle. *Tip:* The Camera Angle icon is displayed on the TV screen when alternate angles are available.	**DVD**
💬 (SUBTITLE)	During playback, press SUBTITLE repeatedly to select a desired subtitle language.	**DVD** **DivX**
🔊 (AUDIO)	During playback, press AUDIO repeatedly to hear a different audio language or audio track.	**DVD** **DivX**

Additional features

3D Surround
To produce a 3D surround effect that simulates multi-channel audio from two stereo speakers (instead of the five+ speakers normally required for multi-channel audio from a home theater system).

DVD **DivX**

1. Press DISPLAY during playback.

2. Use ▲ or ▼ to select the sound option. The sound option will be highlighted.

3. Use ◄ or ► to select "3D SUR". To turn off the 3D Surround effect, select "Normal".

ACD

1. Press AUDIO during playback. "3D SUR" appears on the menu screen.

2. To return to normal playback, press AUDIO repeatedly until "3D SUR" disappears from the menu screen.

Time Search **DVD** **DivX**

To start playing at any chosen time on the disc:

1. Press DISPLAY during playback.

2. Press ▲ / ▼ to select the time clock icon and "--:--:--" appears.

3. Input the required start time in hours, minutes, and seconds from left to right. If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then input the correct numbers.

4. Press ENTER/OK to confirm. Playback starts from the selected time.

Operation

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Marker Search DVD DivX

To enter a Marker

You can start playback from up to nine memorized points. To enter a marker, press MARKER at the desired point on the disc. The Marker icon appears on the TV screen briefly. Repeat to enter up to nine markers.

To Recall or Clear a Marked Scene

1. During disc playback, press SEARCH. The marker search menu appears on the screen.

2. Within 10 seconds, press ◄ / ► to select a marker number that you want to recall or clear.

3. Press ENTER/OK and playback starts from the marked scene. Or, Press CLEAR and the marker number is erased from the list.

4. You can play any marker by inputting its number on the marker search menu.

Last Scene Memory DVD ACD

This player memorizes last scene from the last disc that is viewed. The last scene remains in memory even if you remove the disc from the player or switch off the player. If you load a disc that has the scene memorized, the scene is automatically recalled.

Note:
This player does not memorize the scene of a disc if you switch off the player before commencing to play the disc.

Screen Saver

The screen saver appears when you leave the DVD+VCR in Stop mode for about five minutes.

Playing an Audio CD or MP3/WMA file

This unit can play Audio CDs or MP3/WMA files recorded media.

MP3/ WMA/ Audio CD
Once you insert an MP3/WMA files recorded media or Audio CD, a menu appears on the TV screen. Press ▲ / ▼ to select a track/file then press PLAY or ENTER/OK and playback starts. You can use variable playback functions. Refer to page 26-28.
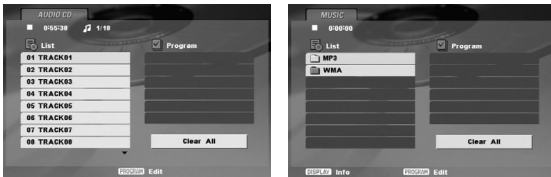
ID3 TAG
• When playing a file containing information such as track titles, you can see the information by pressing DISPLAY. [Song, Artist, Album, Comment, Genre]

• If there is no information, "No ID3 TAG" appear on the menu screen.

Tips:
• If you are in a file list on the "MUSIC" menu and want to return to the Folder list, use the ▲ / ▼ to highlight ⬆ and press ENTER/OK.

• Press DISC MENU to move to the next page.

• On a CD with MP3/WMA and JPEG you can switch MP3/WMA and JPEG. Press TITLE and MUSIC or PHOTO word on top of the menu is highlighted.

MP3 / WMA disc compatibility with this player is limited as follows:
• Sampling frequency: within 8 - 48 kHz (MP3), within 32 - 48kHz (WMA)
• Bit rate: within 32 - 320kbps (MP3), 32 - 320kbps (WMA)
• The player cannot read an MP3/WMA file that has a file extension other than ".mp3" / ".wma".
• CD-R physical format should be ISO 9660
• If you record MP3 / WMA files using software that cannot create a file system (eg. Direct-CD) it is impossible to playback MP3 / WMA files. We recommend that you use Easy-CD Creator, which creates an ISO 9660 file system.
• File names should have a maximum of 8 letters and must incorporate an .mp3 or .wma extension.
• They should not contain special letters such as / ? * : " < > l etc.
• The total number of files in a folder should be less than 1190 files.

Programmed Playback

The program function enables you to store your favorite tracks from any disc in the player memory. A program can contain 30 tracks.

1. Insert an Audio CD or MP3/WMA files recorded media. AUDIO CD or MUSIC menu appears.

2. During STOP mode, press PROGRAM and the ⓔ mark will appear

Note:
Press PROGRAM again to exit the program edit mode, then the ⓔ mark will disappear.

3. Select a track on the "List", then press ENTER/OK to place the selected track on the "Program" list. Repeat to place additional tracks on the list.

4. Select the track you want to start playing on the "Program" list.

5. Press PLAY or ENTER/OK to start. Playback begins in the order in which you programmed the tracks. Playback stops after all of the tracks on the "Program" list have played once.

6. To resume normal playback from programmed playback, select a track on the list and then press PLAY.

Repeat Programmed Tracks

Press REPEAT to select a desired repeat mode.

• Track: repeats the current track
• All: repeats all the tracks on programmed list.
• Off(No display): does not play repeatedly.

Note:
If you press ►►I once during Repeat Track playback, the repeat playback cancels.

Erasing a Track from "Program" List

1. During STOP mode, press PROGRAM and the ⓔ mark will appear

2. Use ▲ ▼ ◄ ► to select the track that you wish to erase from the Program list.

3. Press CLEAR. Repeat step 1~3 to erase additional tracks on the list.

Erasing the Complete Program List

1. During STOP mode, press PROGRAM and the ⓔ mark will appear

2. Use ▲ ▼ ◄ ► to select "Clear All", then press ENTER/OK.

Note:
The programs are also cleared when the power is off or the disc is removed.

Viewing a JPEG Disc

Using this DVD+VCR you can view discs with JPEG files.

1. Insert a disc and close the tray. The PHOTO menu appears on the TV screen.

2. Press ▲ / ▼ to select a folder, and press ENTER/OK. A list of files in the folder appears. If you are in a file list and want to return to the previous Folder list, use the ▲ / ▼ buttons on the remote to highlight 🔼 and press ENTER/OK.

3. If you want to view a particular file, press ▲ / ▼ to highlight a file and press ENTER/OK or PLAY (▶). The selected file will appear for viewing.
While viewing a file, you can press STOP to move to the previous menu (PHOTO menu).

Tips:

- Information and user guidance regarding the current image is displayed in the lower part of the screen. You can toggle this bar on and off using RETURN (↩).

- There are three Slide Speed options 🔃 :
>>> (Fast), >> (Normal) and > (Slow)
Use ▲ ▼ ◄ ► to highlight the Speed. Then, use ◄ / ► to select the option you want to use then press ENTER/OK.

- On a disc with MP3/WMA and JPEG you can switch MP3/WMA and JPEG. Press TITLE and MUSIC or PHOTO word on top of the menu is highlighted.

Slide Show   JPEG

Use ▲ ▼ ◄ ► to highlight the 🎞 (Slide Show) then press ENTER/OK.

Still Picture   JPEG

1. Press PAUSE/STEP (II) during slide show. The player will now go into PAUSE mode.

2. To return to the slide show, press PLAY (▶) or press PAUSE/STEP (II) a gain.

Moving to another File   JPEG

Press SKIP (▶▶I or I◄◄) or cursor (◄ or ►) once while viewing a picture to advance to the next or previous file.

Zoom   JPEG

Use zoom to enlarge the photo image. (see page 27)

To rotate picture   JPEG

Press ▲ / ▼ during showing a picture to rotate the picture clockwise or counter clockwise.

JPEG disc compatibility with this player is limited as follows:

- Depending upon the size and number of JPEG files, it could take a long time for the DVD+VCR to read the disc's contents. If you don't see an on-screen display after several minutes, some of the files may be too large — reduce the resolution of the JPEG files to less than 5760 (Horizontal) x 3840 (Vertical) pixels and burn another disc.

- The total number of files in a folder should be less than 1190 files.

- Some discs may be incompatible due to a different recording format or the condition of disc.

- Ensure that all the selected files have the ".jpg" extensions when copying into the CD layout.

- If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" file.

- File names without ".jpg" extension will not be able to be read by this DVD+VCR. Even though the files are shown as JPEG image files in Windows Explorer.

Playing a DivX Movie file

Using this DVD+VCR, you can play DivX file.

1. Insert a DivX file recorded media. The MOVIE menu appears on the TV screen.

MOVIE
■ 0:00:00
List
📁 FOLDER 01
📁 FOLDER 02
📁 FOLDER 03
File 01
File 01
File 02
File 03
File 04
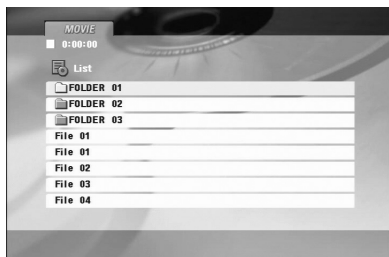
2. Press ▲ / ▼ to select a folder, and press ENTER. A list of files in the folder appears.

3. If you want to view a particular file, press ▲ / ▼ to highlight a file and press ENTER/OK or PLAY. You can use variable playback functions. Refer to page 26-28.

4. Press STOP to stop the playback. The Movie menu appears

Tips:

・ If you are in a file list and want to return to the previous Folder list, use the ▲ / ▼ buttons on the remote to highlight ⤴ and press ENTER/OK.

・ Press DISC MENU to move to the next page.

・ On a CD with MP3/WMA, JPEG and MOVIE file, you can switch MUSIC, PHOTO and MOVIE menu. Press TITLE and MUSIC, PHOTO and MOVIE word on top of the menu is highlighted.

・ The disc subtitle may not be displayed properly, if a DivX subtitle is downloaded through the internet.

・ If the Disc Subtitle setup menu does not have the DivX subtitile language you are going to play, the subtitle may not be displayed properly.

Notice for displaying the DivX subtitle

If the subtitle does not display properly during playback, press and hold SUBTITLE about 3 seconds then press ◄ / ► to select another language code until the subtitle is displayed properly.

DivX disc compatibility with this player is limited as follows:

・ Available resolution size of the DivX file is under 720x576 (W x H) pixel.

・ The file name of the DivX subtitle is available by 56 characters.

・ If there is impossible code to express in the DivX file, it may be displayed as " _ " mark on the display.

・ **If the number of the screen frame is over 30 per 1 second, this unit may not operate normally.**

・ **If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.**

・ **If the file is recorded with GMC, the unit supports only 1-point of the record level.**
   * GMC?
   GMC is the acronym for Global Motion Compensation. It is an encoding tool specified in MPEG4 standard. Some MPEG4 encoders, like DivX or Xvid, have this option.
   There are different levels of GMC encoding, usually called 1-point, 2-point, or 3-point GMC.

Playable DivX file

.avi, .mpg, .mpeg

Playable Subtitle format

SubRip(*.srt/*.txt)
SAMI(*.smi)
SubStation Alpha(*.ssa/*.txt)
MicroDVD(*.sub/*.txt)
SubViewer 1.0(*.sub)
SubViewer 2.0(*.sub/*.txt) /
TMPlayer(*.txt)

Playable Codec format

"DIVX3.xx", "DIVX4.xx", "DIVX5.xx", "XVID", "MP43", "3IVX".

Playable Audio format

"Dolby Digital", "DTS", "PCM", "MP3", "WMA".
・ Sampling frequency: within 8 - 48 kHz (MP3), within 32 - 48kHz (WMA)
・ Bit rate: within 8 - 320kbps (MP3), 32 - 320kbps (WMA)
・ Not all the WMA Audio format is compatible with this unit.

Operation

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Playing a DVD VR format Disc

This unit will play DVD-R/RW discs recorded using the DVD-Video format that have been finalized using a DVD-recorder.

• This unit will play DVD-RW discs recorded using the Video Recording (VR) format.

1. Insert a disc and close the tray, It start playing automatically.
2. The DVD-VR menu appears on the TV screen when you press DISC MENU buttons while playing.

3. Press ▲ / ▼ to select a track then press PLAY or ENTER and playback starts.

4. Press DISC MENU to move to the list menu.

Notes:
• Unfinalized DVD-R/RW discs cannot be played in this player.
• Some DVD-VR disc are made with CPRM data by DVD RECORDER. Player does not support these kinds of discs.

What is 'CPRM'?
CPRM is a copy protection system (with scramble system) only allowing the recording of 'copy once' broadcast programs. CPRM stands for Content Protection for Recordable Media.
This player is CPRM compatible, which means that you can record copy-once broadcast programs, but you cannot then make a copy of those recordings. CPRM recordings can only be made on DVD-RW discs formatted in VR mode, and CPRM recordings can only be played on players that are specifically compatible with CPRM.

Maintenance and Service

Refer to the information in this chapter before contacting a service technician.

Handling the Unit

When shipping the unit

Please save the original shipping carton and packing materials. If you need to ship the unit, for maximum protection, re-pack the unit as it was originally packed at the factory.

Keeping the exterior surfaces clean

• Do not use volatile liquids such as insecticide spray near the unit.

• Do not leave rubber or plastic products in contact with the unit for a long period of time. since they leave marks on the surface.

Cleaning the unit

To clean the player, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution.

Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

Maintaining the Unit

The DVD+VCR is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality could be diminished.

Depending on the operating environment, regular inspection and maintenance are recommended after every 1,000 hours of use.

For details, please contact your nearest authorized service center.

Reference

Language Codes List

Use this list to input your desired language for the following initial settings:
Disc Audio, Disc Subtitle, Disc Menu.

Language	Code	Language	Code	Language	Code	Language	Code
Abkhazian	6566	Fiji	7074	Lingala	7678	Singhalese	8373
Afar	6565	Finnish	7073	Lithuanian	7684	Slovak	8375
Afrikaans	6570	French	7082	Macedonian	7775	Slovenian	8376
Albanian	8381	Frisian	7089	Malagasy	7771	Somali	8379
Ameharic	6577	Galician	7176	Malay	7783	Spanish	6983
Arabic	6582	Georgian	7565	Malayalam	7776	Sudanese	8385
Armenian	7289	German	6869	Maltese	7784	Swahili	8387
Assamese	6583	Greek	6976	Maori	7773	Swedish	8386
Aymara	6588	Greenlandic	7576	Marathi	7782	Tagalog	8476
Azerbaijani	6590	Guarani	7178	Moldavian	7779	Tajik	8471
Bashkir	6665	Gujarati	7185	Mongolian	7778	Tamil	8465
Basque	6985	Hausa	7265	Nauru	7865	Tatar	8484
Bengali; Bangla	6678	Hebrew	7387	Nepali	7869	Telugu	8469
Bhutani	6890	Hindi	7273	Norwegian	7879	Thai	8472
Bihari	6672	Hungarian	7285	Oriya	7982	Tibetan	6679
Breton	6682	Icelandic	7383	Panjabi	8065	Tigrinya	8473
Bulgarian	6671	Indonesian	7378	Pashto, Pushto	8083	Tonga	8479
Burmese	7789	Interlingua	7365	Persian	7065	Turkish	8482
Byelorussian	6669	Irish	7165	Polish	8076	Turkmen	8475
Cambodian	7577	Italian	7384	Portuguese	8084	Twi	8487
Catalan	6765	Japanese	7465	Quechua	8185	Ukrainian	8575
Chinese	9072	Javanese	7487	Rhaeto-Romance	8277	Urdu	8582
Corsican	6779	Kannada	7578	Rumanian	8279	Uzbek	8590
Croatian	7282	Kashmiri	7583	Russian	8285	Vietnamese	8673
Czech	6783	Kazakh	7575	Samoan	8377	Volapük	8679
Danish	6865	Kirghiz	7589	Sanskrit	8365	Welsh	6789
Dutch	7876	Korean	7579	Scots Gaelic	7168	Wolof	8779
English	6978	Kurdish	7585	Serbian	8382	Xhosa	8872
Esperanto	6979	Laothian	7679	Serbo-Croatian	8372	Yiddish	7473
Estonian	6984	Latin	7665	Shona	8378	Yoruba	8979
Faroese	7079	Latvian, Lettish	7686	Sindhi	8368	Zulu	9085

Area Codes List

Choose a area code from this list.

Area	Code	Area	Code	Area	Code	Area	Code
Afghanistan	AF	Ethiopia	ET	Malaysia	MY	Saudi Arabia	SA
Argentina	AR	Fiji	FJ	Maldives	MV	Senegal	SN
Australia	AU	Finland	FI	Mexico	MX	Singapore	SG
Austria	AT	France	FR	Monaco	MC	Slovak Republic	SK
Belgium	BE	Germany	DE	Mongolia	MN	Slovenia	SI
Bhutan	BT	Great Britain	GB	Morocco	MA	South Africa	ZA
Bolivia	BO	Greece	GR	Nepal	NP	South Korea	KR
Brazil	BR	Greenland	GL	Netherlands	NL	Spain	ES
Cambodia	KH	Islands	HM	Netherlands Antilles	AN	Sri Lanka	LK
Canada	CA	Hong Kong	HK	New Zealand	NZ	Sweden	SE
Chile	CL	Hungary	HU	Nigeria	NG	Switzerland	CH
China	CN	India	IN	Norway	NO	Taiwan	TW
Colombia	CO	Indonesia	ID	Oman	OM	Thailand	TH
Congo	CG	Israel	IL	Pakistan	PK	Turkey	TR
Costa Rica	CR	Italy	IT	Panama	PA	Uganda	UG
Croatia	HR	Jamaica	JM	Paraguay	PY	Ukraine	UA
Czech Republic	CZ	Japan	JP	Philippines	PH	United States	US
Denmark	DK	Kenya	KE	Poland	PL	Uruguay	UY
Ecuador	EC	Kuwait	KW	Portugal	PT	Uzbekistan	UZ
Egypt	EG	Libya	LY	Romania	RO	Vietnam	VN
El Salvador	SV	Luxembourg	LU	Russian Federation	RU	Zimbabwe	ZW

Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

Symptom	Cause	Correction
No power.	• The power cord is disconnected.	• Plug the power cord into the wall out-let securely.
The power is on, but the DVD+VCR does not work.	• DVD or VCR button is not switched properly.	• Refer to page 6.
	• No disc is inserted. • No tape is inserted.	• Insert a disc or tape. (Check that the disc or tape indicator in the display window is lit.)
No picture.	• The TV is not set to receive DVD+VCR signal output.	• Select the appropriate video input mode on the TV so the picture from the DVD+VCR player appears on the TV screen.
	• The video cable is not connected securely.	• Connect the video cable into the jacks securely.
	• Wrong connection.	• Check the connection.
No sound.	• The equipment connected with the audio cable is not set to receive DVD+VCR signal output.	• Select the correct input mode of the audio receiver so you can listen to the sound from the DVD+VCR.
	• The audio cables are not connected securely.	• Connect the audio cable into the jacks securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The AUDIO options are set to the wrong position.	• Set the AUDIO options to the correct position.
The playback picture is poor.	• The disc is dirty.	• Clean the disc.
	• The TV channels are not tuned in properly.	• Check tuning, carry out tuning again.
	• Tape heads are dirty.	• Clean video heads.
	• Tape is a rental or was recorded on another VCR.	• Use CH/TRK (▲/▼) for manual track-ing adjustment while tape is playing.
	• This unit can only output 525p Progressive scan picture.	• Make sure that your TV can support 525p Progressive scan picture or set Progressive scan to off.
The "PROGRESSIVE SCAN MODE" message remains to be displayed.	• DVD+VCR was turned off while setting the Progressive scan mode. • The Progressive Scan is set to "On" on the setup menu but is connected to a standard(analog) television with compo-nent video input.	• Keep pressing the STOP button for more than 5 seconds.

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Symptom	Cause	Correction
The DVD+VCR does not start playback.	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type and Regional code.)
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	• The disc is dirty.	• Clean the disc.
	• The Rating level is set.	• Cancel the Rating function or change the rating level.
Video tape cannot be inserted.	• Is the cassette compartment empty?	• Eject the tape in.
No Hi-Fi sound	• Audio mode is not set properly.	• Select STEREO by repeatedly pressing AUDIO on the remote control.
The remote control does not work properly.	• There is an obstacle in the path of the remote control and this unit.	• Remove the obstacle.
	• The batteries in the remote control are exhausted.	• Replace the batteries with new ones.
	• The remote control is not pointed at the remote sensor of the DVD+VCR.	• Point the remote control at the remote sensor of the DVD+VCR.
	• The remote control is too far from the DVD+VCR.	• Operate the remote control within 23ft (7m).
	• This remote control use the same buttons for VCR and DVD functions (ex.PLAY).	• When using a VCR, first press the VCR button. When using a DVD, first press the DVD button.
Camcorder image is not shown.	• Camcorder is off.	• Turn camcorder on and operate properly.
Camcorder image via AV input to DVD+VCR is not shown on TV screen.	• DVD+VCR SOURCE SELECT is not set to LINE1 or LINE2.	• Press INPUT to select LINE input channel (LINE1 or LINE2).
Timer recording is not possible.	• Clock in DVD+VCR is not set to correct time.	• Set clock to correct time.
	• Timer has been programmed incorrectly.	• Reprogram Timer.
	• ⏱ indicator light does not appear after programming timer.	• Reprogram Timer and turn DVD+VCR off to enable timer.

Reference

Specifications

General

Power requirements	120V, 60 Hz
Power consumption	16 W
Dimensions (approx.)	16.9" X 3.1" X 10.4" (430 X 78.5 X 265 mm) (w x h x d)
Weight (approx.)	9.24 lbs (4.2 kg)
Operating temperature	5°C to 40°C (41°F to 104°F)
Operating humidity	5 % to 90 %
Signal system	NTSC

Inputs

ANTENNA IN	75 ohms (VHF/UHF/CATV)
VHS VIDEO IN(LINE1, 2)	1 V (p-p) 75 ohms, sync negative, RCA jack x 2
VHS AUDIO IN(LINE1, 2)	-6.0 dBm more than 47 ohms, RCA jack (L, R) x 2

Outputs

VIDEO OUT	1 V (p-p) 75 ohms, sync negative
S-VIDEO OUT	(Y) 1.0 V (p-p), 75 ohms, negative sync, Mini DIN 4-pin x 1
	(C) 0.286 V (p-p) 75 ohms
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 ohms, negative sync, RCA jack x 1
(PROGRESSIVE SCAN)	(Pb)/(Pr) 0.7 V (p-p), 75 ohms, RCA jack x 2
Audio output (digital audio)	0.5 V (p-p), 75 ohms, RCA jack x 1
Audio output (analog audio)	2.0 Vrms (1 KHz, 0 dB), 600 ohms, RCA jack (L, R) x 1
RF OUT	Channel 3 or 4 (Adjustable)

VCR Specifications

Head system	Four head helical scan azimuth system
Timer	12-hour display type with AM, PM
Tape speed	SP: 33.35 mm/sec, LP: 16.67 mm/sec, SLP: 11.12 mm/sec
Tape width	12.7 mm
Maximum recording time	SP: 2 HOURS (T-120), SLP: 6 HOURS (T-120)/8 HOURS (T-160)
Rewind time	About 3 minutes (T-120)
Channel coverage	VHF: 2-13, UHF: 14-69, CATV: 1-125 (4A, A-W, W+1 - W+84, A-5 - A-1)
Frequency range	20 Hz to 20 kHz
Signal-to-noise ratio	More than 43 dB
Dynamic range	More than 88 dB
Channel separation	More than 60 dB

DVD Specifications

Laser system	Semiconductor laser, wavelength 650 nm
Frequency response	DVD (PCM 96 kHz): 8 Hz to 44 kHz,
	DVD (PCM 48 kHz): 8 Hz to 22 kHz
	CD: 8 Hz to 20 kHz
Signal-to-noise ratio	More than 100 dB (ANALOG OUT jacks only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 95 dB (DVD/CD)

Accessories:

Video cable x 1, Audio cable (L/R) x 1, RF 75-ohm Coaxial Cable x 1, Remote control x 1, Batteries (R03/AAA) x 2

• Design and specifications are subject to change without prior notice.

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ZENITH
LIMITED WARRANTY-USA

Zenith will repair or replace your product, at Zenith's option, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Installation") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

WARRANTY PERIOD:	HOW SERVICE IS HANDLED:
LABOR: 90 DAYS from the Date of Purchase. **PARTS: ONE YEAR** from the Date of Purchase. **Replacement Units** is warranted for the remaining period of the original warranty.	**This is an Exchange Product. Call 1-800-243-0000** for instructions on getting the defective unit replaced. **Please retain dated sales receipt and your box** to return the unit to LG for repair or replacement. Shipping charges both ways will be paid by Zenith during the first 90 days of the Warranty Period. During the remainder of the Warranty Period (91-365 days), you pay in-bound shipping charges and Zenith pays return shipping charges. Visit our website at **http://www.zenithservice.com**

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. ZENITH WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS, IN CONNECTION WITH THE PRODUCT. SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITA-TIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

THIS LIMITED WARRANTY DOES NOT APPLY TO:
- Damages or operating problems that result from shipping, installation, adjustment of user controls, calibration, maintenance or failure to maintain, or separate system components; and
- Damages or operating problems that result from normal wear and tear, misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, signal reception or input, software not licensed directly by LG, software errors that do not disable functionality, operating and software protocols adopted after the date of manufacture or for outside the US, institutional or commercial use, or other causes not arising out of defect in material or workmanship.

The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

CUSTOMER INTER-ACTIVE CENTER NUMBERS:

For Warranty Service, Where to buy, Product Assistance, or Customer Assistance	**Call 1-800-243-0000** (24 hours a day, 365 days per year) and select an appropriate option from the menu.
	Or visit our website at http://www.zenithservice.com
	To contact us by mail: LG Customer Interactive Center, PO Box 240007 201 James Record Road, Huntsville, AL 35824 Attn: CIC

FOR WARRANTY SERVICE:

You must call 1-800-243-0000 (24 hours a day, 365 days per year) and select an appropriate option from the menu to confirm the product is defective and to obtain a Return Authorization (RA). If the defect has occurred during the first 90 days of the Warranty Period, Zenith will send you a return-shipping label. After you obtain an RA for return, please box your unit with a legible copy of the sales receipt and enough packing material to ensure undamaged delivery of your product. When you receive the label, place it on the box and call the 800# in the instructions for pick-up. When your unit is received, Zenith will repair or replace your unit in accordance with this Limited Warranty.

ADVANCE SHIPMENT. If a replacement unit is available and you want second day delivery, our service representative will ask for your credit card number. Zenith requires a reserved deposit by credit card as surety for such advance shipment. Your credit card will not be charged if you return the defective unit in 10 business days. For advance shipment, the return label will come with the replacement unit sent to you. Please follow boxing and shipping instructions above.

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