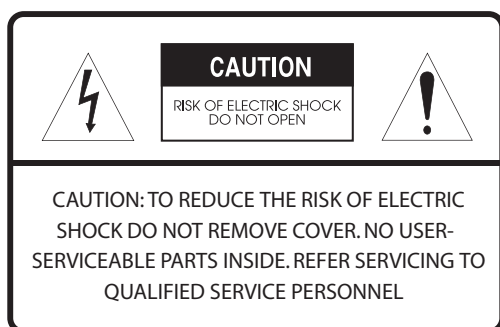


DV2150

User's Guide

Congratulations!

Congratulations on your purchase of this DV2150 DVD+VCR. We know you will enjoy this product for many years to come. In case service is required, please take a moment to write down your serial number located on the rear panel of the DVD+VCR: _____



This symbol 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 risk of fire or electric shock.



This symbol is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying this product.

CAUTION

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

WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO MOISTURE AND ENSURE THAT OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED AWAY FROM THE APPARATUS.

Macrovision Notice

U.S. Patent Nos. 4,631,603; 4,577,216; 4,819,098; 4,907,093; and 6,516,132.

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

FCC Notice

This equipment 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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment and receiver.
- Connect the equipment 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.

Laser Product Notice

- 1 CLASS 1 LASER PRODUCT
- 2 DANGER: Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- 3 CAUTION: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.

For DVD Players with 525p, but not 625p, progressive scan output

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 YOUR TV SET COMPATIBILITY WITH THIS MODEL 525p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

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Important Safety Instructions

- 1 Read Instructions** – All the safety and operating instructions should be read before the product is operated.
- 2 Retain Instructions** – The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings** – All warnings on the product and in the operating instructions should be adhered to.
- 4 Follow Instructions** – All operating and use instructions should be followed.
- 5 Cleaning** – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6 Attachments** – Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7 Water and Moisture** – Do not use this product near water – for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8 Accessories** – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- 9** A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- 10 Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered.



PORTABLE CART WARNING
(Symbol provided by RETAC)

The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

- 11 Power Sources** – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12 Grounding or Polarization** – This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 13 Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 14 Protective Attachment Plug** – The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
- 15 Outdoor Antenna Grounding** – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides informa-

Important Safety Instructions

tion with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- 21 Damage Requiring Service** – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- 16 Lightning** – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power lines surges.
- 17 Power Lines** – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 18 Overloading** – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 19 Object and Liquid Entry** – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 20 Servicing** – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

1 *Welcome*

This Chapter provides a basic introduction to the DVD+VCR, including an overview of the front panel, rear panel, and remote control.

Check to make sure the following are:



This DVD+VCR will record the following media:

Front Panel

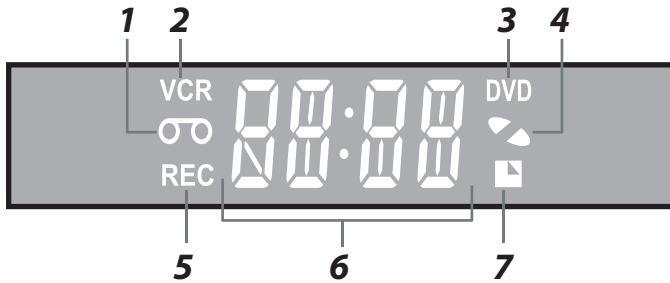


- | | |
|--------------------------------|--------------------------------|
| 1 POWER button | 8 Front Panel Display |
| 2 VCR deck | 9 DVD•VCR SELECT button |
| 3 DVD deck | 10 STOP ■ button |
| 4 AUDIO/VIDEO IN jacks | 11 REW◀◀ button |
| 5 VCR EJECT button | 12 PLAY ▶ / button |
| 6 RECORD ● button | 13 FF▶▶ button |
| 7 CHANNEL ▲ / ▼ buttons | 14 DVD EJECT button |

the POWER button on the remote control for 8 seconds. SAFE will flash on the front

Front Panel Display

Front panel display overview:



- | | |
|------------------------------------|-----------------------------------|
| 1 VHS tape loaded indicator | 5 Record indicator |
| 2 VCR mode indicator | 6 DVD+VCR status indicator |
| 3 DVD mode indicator | 7 Timer Record indicator |
| 4 Disc loaded indicator | |





2 *Connections*

This Chapter shows you how to connect the DVD+VCR to your TV and other home theater components.

- For basic connections, see pages 13-15.
- For advanced connections, see pages 16-19.

Antenna/Basic Cable Connections

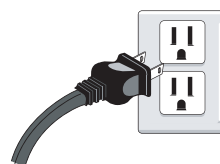
If you are using an antenna or basic cable TV service:

- 1** Connect the RF coaxial cable from the antenna or cable wall outlet to the rear
- 2** Connect the DVD+VCR to your TV; see page 15.

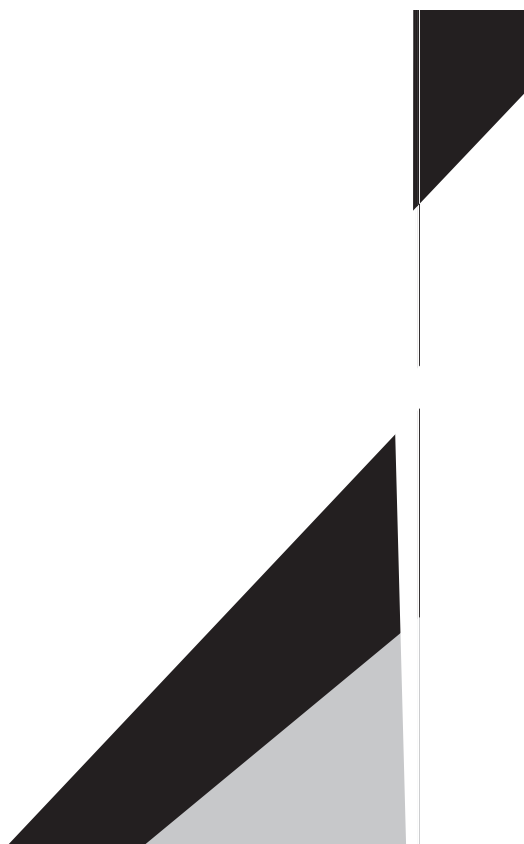


NOTE:

- Do not connect the AC power cord until all other connections have been made.
- The DVD+VCR receives broadcast channels 2-69 and cable TV channels 1-125.



Cable Box/Satellite Receiver Connections



Basic TV Connections



Enhanced Video Options

If your TV has S-Video or Component Video inputs, you can enjoy superior picture quality (DVD playback only).

- 1** Connect an S-Video cable OR set of Component Video cables from the DVD+VCR to your TV as shown.
- 2** Select the S-Video or Component Video input on your TV to view the DVD+VCR.
 - If you use the S-Video Out or Component Video connection, you must set Video Out and Scan Mode in the DVD Setup menu; see page 28.



NOTE:

- Be sure to choose one of the audio connection options on page 17.
- The S-Video and Component Video connections are for DVD playback only!

Enhanced Audio Options

If you have a stereo system or digital audio receiver, you can enjoy superior sound quality.

- 1 Connect left/right audio cables from the DVD+VCR to your stereo system as shown.

OR

Connect a digital coaxial cable from the DVD+VCR to your digital audio receiver as shown.

- 2 Select the appropriate audio input on your stereo or receiver to hear the DVD+VCR.
 - If you used the coaxial connection, you must set Digital Out in the DVD Setup menu; see page 29.

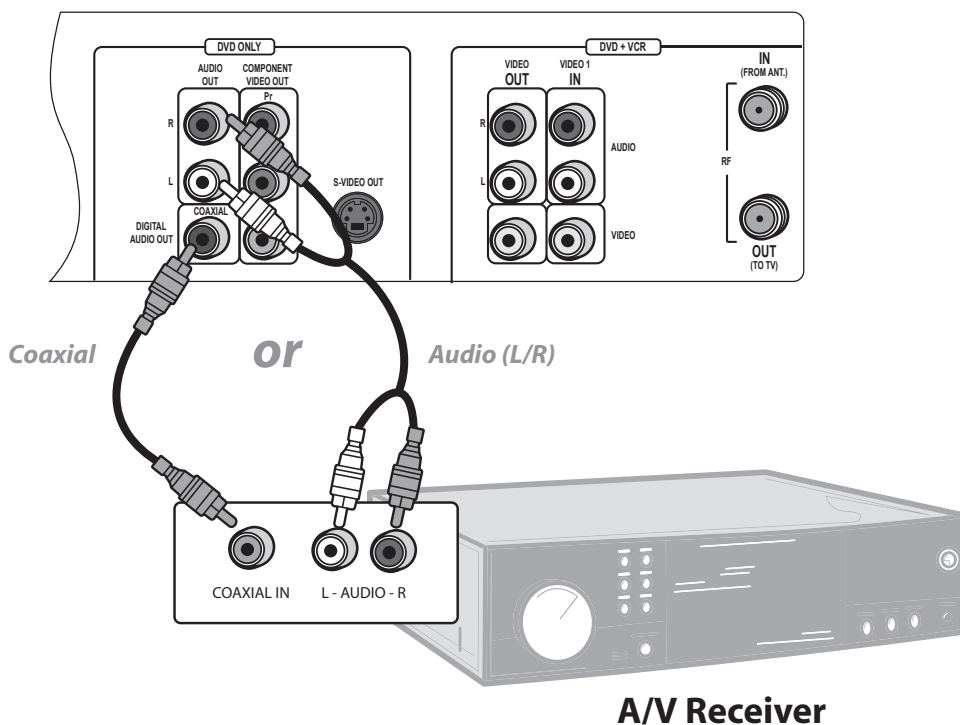
Stereo (Good)



Coaxial (Best)



DVD+VCR



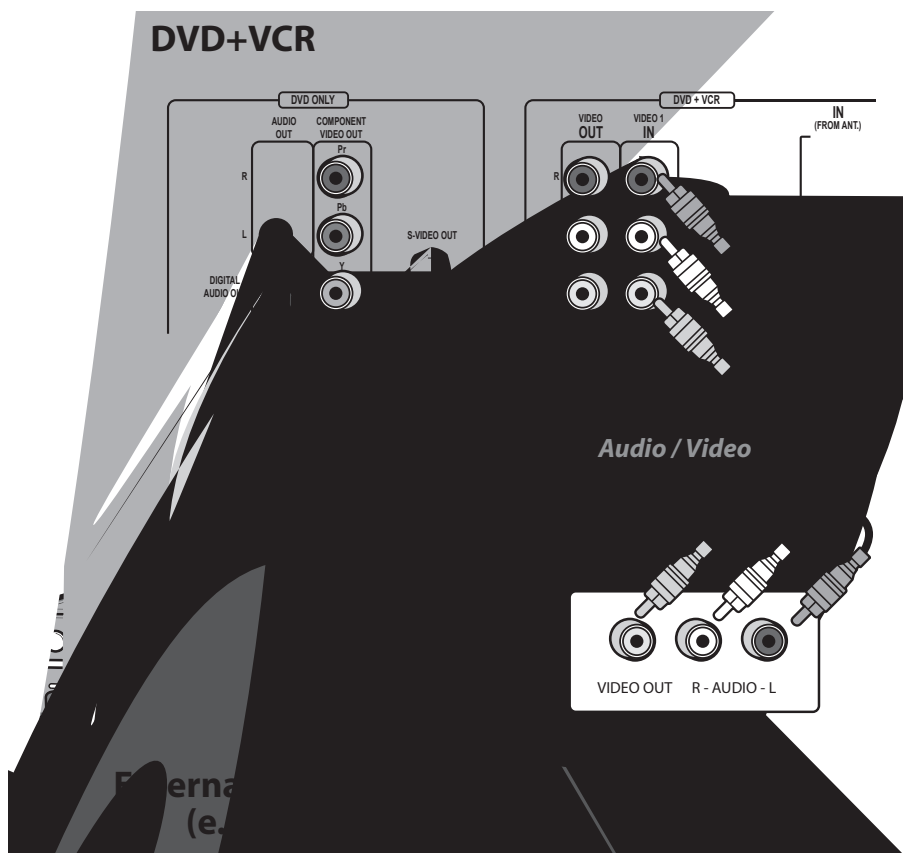
NOTE:

- If your receiver is equipped with a Dolby Digital and/or DTS decoder you can enjoy 5.1 surround sound playback while watching DVD movies.

Rear AV Connections

You can view and record from an external device, such as a VCR, connected to the rear AV inputs.

- 1 Connect standard audio/video cables from the outputs of the external device to the inputs of the DVD+VCR as shown.
- 2 Press TV VIEW until Video 1 appears on the screen.



NOTE:

- To record from the external device, see page 38.

10

Digital Audio/Video



**External AV Device
(e.g. Camcorder)**

3 *Setup*

This Chapter allows you to customize the DVD+VCR to meet your system requirements and personal preferences.

Key settings:

- To set the time and date, see page 22.
- To search for TV channels, see page 23.

VCR Setup Menu Overview

The VCR Setup menu allows you to set your preferences for the VCR deck. Choose from these categories:

- Clock Settings – see page 22
- Channel Settings – see page 23-24
- Other VCR Settings – see page 25

About VCR Menu Navigation

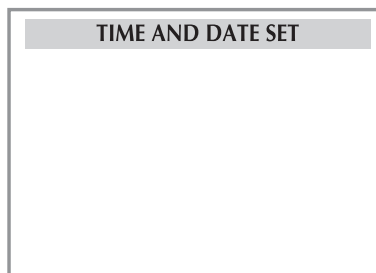
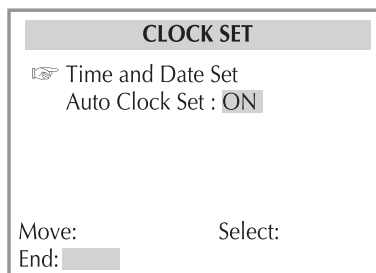
- Press VCR to switch to VCR mode.
- Press SETUP to display the VCR Setup menu.
- Use the ▲ ▼ keys to move up and down.
- Use the ◀ ▶ keys to move left and right.
- Press ENTER to make selections.
- Press SETUP again to go back and exit the Setup menu.



Time & Date Set

Allows you to set the date and time. This is necessary if you wish to record TV shows with the timer record feature.

- 1** Press VCR, then press SETUP.
- 2** Select Clock Set > Time and Date Set.
- 3** Set the time and date:
 - Use ◀ ▶ to move the cursor.
 - Use ▲ ▼ to change each setting.
- 4** When finished, press SETUP to exit.



Auto Clock Set

Automatically adjusts the clock for Daylight Saving Time. If you live in an area that does not use Daylight Saving Time, turn this feature off.

- 1** Press VCR, then press SETUP.
- 2** Select Clock Set > Auto Clock Set.
- 3** Choose from the following:
 - On** - Adjusts the DVD+VCR's clock automatically for Daylight Saving Time.
 - Off** - Ignores Daylight Saving Time.
- 4** When finished, press SETUP to exit.

Channel Settings

Auto Channel Search

Automatically searches for all available TV stations from antenna or cable TV. If you are using a cable box or satellite receiver, you do not need to run Auto Channel Search.

- 1** Press VCR, then press SETUP.
- 2** Select Channel Set > Auto Channel Search.
- 3** Choose from the following:
 - Cable TV** - Select if the DVD+VCR is connected to a cable TV source.
 - Antenna** - Select if the DVD+VCR is connected to an antenna.
 - Detect Automatically** - Select to have the DVD+VCR detect your signal source automatically.
- 4** The DVD+VCR searches for all available stations. This may take several minutes to complete.
- 5** When finished, the DVD+VCR tunes to the lowest channel found.



Add/Remove Channels

Allows you to manually add or remove channels.

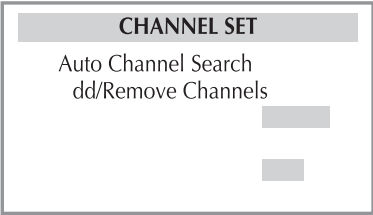
- 1** Press VCR, then press SETUP.
- 2** Select Channel Set > Add/Remove Channels.
- 3** Add or remove channels:
 - Use ▲ ▼ to select the desired channel.
 - Press ► to add or ◀ to remove the channel.
- 4** When finished, press SETUP to exit.

Channel Settings *(continued)*

Signal Type

Specifies whether the DVD+VCR is connected to an antenna or cable TV source.

- 1 Press VCR, then press SETUP.
- 2 Select Channel Set > Signal Type.
- 3 Choose from the following:
 - Antenna** - Select if the DVD+VCR is connected to an antenna.
 - Cable** - Select if the DVD+VCR is connected to a cable TV source.
- 4 When finished, press SETUP to exit.



Cable Box Setup

Allows you to specify the channel or input the DVD+VCR uses to view an external cable box or satellite receiver.

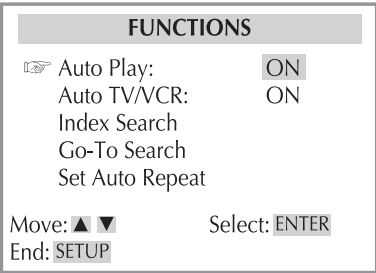
- 1 Press VCR, then press SETUP.
- 2 Select Channel Set > Cable Box Setup.
- 3 Set the channel or input number.

Other VCR Settings

Auto Play

Starts VCR playback automatically when you load a tape with its record safety tab removed.

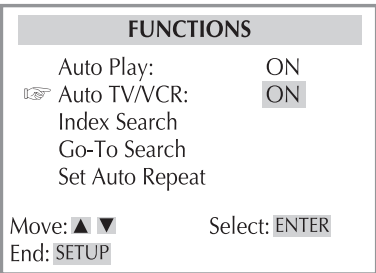
- 1 Press VCR, then press SETUP.
- 2 Select Functions > Auto Play.
- 3 Turn Auto Play on or off.
- 4 When finished, press SETUP to exit.



Auto TV/VCR

Controls whether the DVD+VCR switches to VCR mode automatically when turned on.

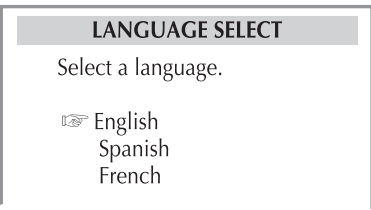
- 1 Press VCR, then press SETUP.
- 2 Select Functions > Auto TV/VCR.
- 3 Choose from the following:
 - On** - Select if you want the DVD+VCR to switch to VCR mode when it is turned on or a tape is inserted.
 - Off** - Select if you want the DVD+VCR to remain in TV mode when powered on.
- 4 When finished, press SETUP to exit.



Language Setting

Sets the default language for the VCR Setup menu.

- 1 Press VCR, then press SETUP.
- 2 Select Language Select.
- 3 Select your preferred language (English, Spanish, or French).
- 4 When finished, press SETUP to exit.



DVD Setup Menu Overview

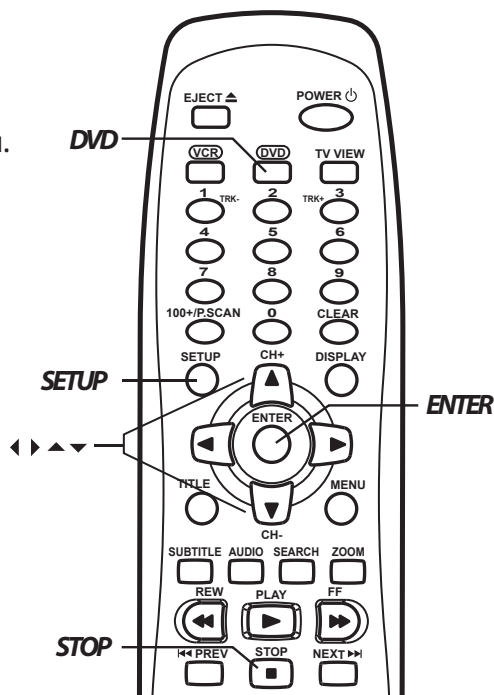
The DVD Setup menu allows you to set your preferences for the DVD deck. Choose from these categories:

- Language Settings – see page 27
- Video Settings – see pages 28
- Audio Settings – see page 29
- Other Settings – see page 30-31



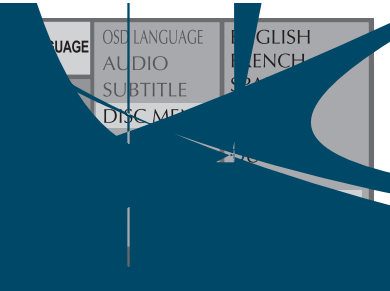
About DVD Menu Navigation

- Press DVD to switch to DVD mode.
- Press STOP ■ to make sure DVD playback is stopped.
- Press SETUP to display the DVD Setup menu.
- Use the ▲ ▼ keys to move up and down.
- Use the ◀ ▶ keys to move left and right.
- Press ENTER to make selections.
- Press SETUP again to exit the Setup menu.



NOTE:

- For VCR Setup, see page 21.



Video Settings

TV Aspect Ratio

Sets your preferred aspect ratio for DVD movies.

- 1** In DVD Stop mode, press SETUP.
- 2** Select Video > TV Aspect.
- 3** Choose from the following:
 - 4:3 PS** - Select if you have a standard TV and prefer to have widescreen movies cropped to fit the screen.
 - 4:3 LB** - Select if you have a standard TV and prefer to watch widescreen movies with black bars above and below the picture.
 - 16:9 Wide** - Select if you have a wide-screen TV.



Video Output

Enables the Component Video or Progressive Scan output to your TV.

- 1** In DVD Stop mode, press SETUP.
- 2** Select Video > Video Out.
- 3** Choose from the following:
 - S-Video** - Enables the S-Video output.
 - Component** - Enables the Component Video output.

Scan Mode

Sets the Component Video output to Interlace or Progressive Scan.

- 1** In DVD Stop mode, press SETUP.
- 2** Select Video > Scan Mode.
- 3** Choose from the following:
 - Progressive** - Select if your TV supports Progressive Scan.
 - Interlace** - Select if your TV supports standard Interlace Scan.



Audio Settings

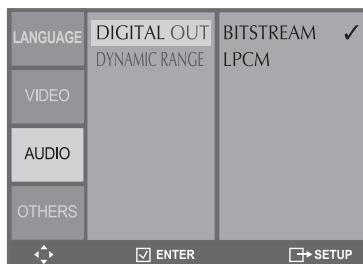
Digital Out

Sets the format of the digital audio signal from the rear panel Coaxial jack.

- 1 In DVD Stop mode, press SETUP.
- 2 Select Audio > Digital Out.
- 3 Choose from the following:

Bitstream - Select if the DVD+VCR is connected to a 5.1 channel amplifier/receiver with a Dolby Digital or DTS decoder.

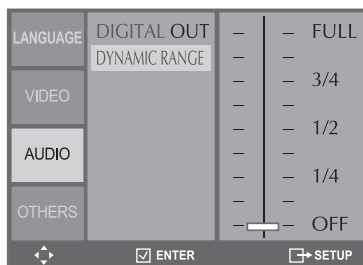
LPCM – Select if the DVD+VCR is connected to a 2-channel (stereo) digital amplifier.



Dynamic Range

Compresses the dynamic range of the audio output (the difference between the loudest and quietest passages) during DVD playback.

- 1 In DVD Stop mode, press SETUP.
- 2 Select Audio > Dynamic Range.
- 3 Use the ▲ ▼ buttons to move the Dynamic Range slider from OFF (no compression) to FULL (maximum compression).



Other DVD Settings

On-Screen Display

Enables the on-screen display (OSD), which provides feedback on the current status of the DVD+VCR.

- 1 In DVD Stop mode, press SETUP.
- 2 Select Others > OSD.
- 3 Turn On-Screen Displays on or off.

LANGUAGE	OSD	ON	✓
	SCREEN SAVER	OFF	
VIDEO	CAPTION		
	DEFAULTS		
AUDIO	PARENTAL		
	PASSWORD		
OTHERS	AUTO PLAY		

Screen Saver

Enables the built-in screensaver, which appears automatically if the DVD+VCR is left in Stop for longer than 5 minutes.

- 1 In DVD Stop mode, press SETUP.
- 2 Select Others > Screen Saver.
- 3 Turn the Screen Saver on or off.

Closed Captions

Enables closed captions, i.e., subtitles that appear while watching a movie.

- 1 In DVD Stop mode, press SETUP.
- 2 Select Others > Captions.
- 3 Turn Closed Captions on or off.

Restore Defaults

Restores the DVD+VCR to its original factory settings.

- 1 In DVD Stop mode, press SETUP.
- 2 Select Others > Defaults.
- 3 Select Reset and press ENTER.
 - The DVD+VCR will restore all menu settings (except Parental Control) to their original factory defaults.

Other DVD Settings *(continued)*

Parental Control

Blocks playback of rated DVDs based on their content. Not all discs are rated.

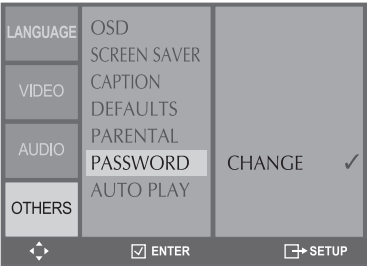
- 1 In DVD Stop mode, press SETUP.
- 2 Select Others > Parental.
- 3 Select the desired Parental Control rating from "1 Kids" to "8 Adult", then press ENTER.
- 4 Enter your password using the 0-9 keys, then press ENTER.
 - The factory default password is 3308. If you forget your password, this will always work.



Password

Changes the Parental Control password.

- 1 In DVD Stop mode, press SETUP.
- 2 Select Others > Password.
- 3 Enter your old password using the 0-9 keys.
- 4 Enter your new password.
- 5 Re-enter your new password and press ENTER.



AutoPlay

AutoPlay skips the ads and trailers and starts DVD playback automatically when you load a disc.

- 1 In DVD Stop mode, press SETUP.
- 2 Select Others > AutoPlay.
- 3 Turn AutoPlay on or off.



NOTE:

ads and trailers on most discs by pressing the AUTO PLAY button on the remote control after the disc has loaded.

or Warning screen is displayed.



4 *Operations*

This Chapter shows you how to use the most common features of the DVD+VCR, including playing tapes and discs, and recording TV shows.

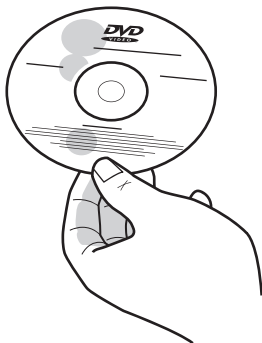
- For playback features, see pages 33-36.
- For recording features, see pages 37-40.

Basic DVD+VCR Playback

Playing a DVD

Follow these steps to play a DVD.

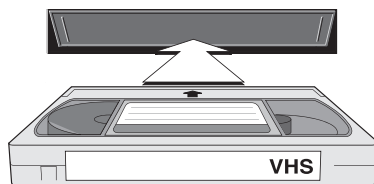
- 1 Press POWER to turn on the DVD+VCR.
- 2 Press DVD to control the DVD deck.
- 3 Load your DVD in the disc tray with the label side up.
 - Press EJECT to open and close the disc tray.
- 4 Press PLAY ► to start playback.
 - Many DVD discs play automatically when loaded.
 - If the DVD has a Disc Menu, or more than one Title, the Disc Menu may appear. If so, use ◀ ▶ ▲ ▼ to highlight options, and press ENTER to make selections.
- 5 Press PLAY ► to pause and resume playback.
- 6 Press STOP ■ to stop playback.
 - One press stops and holds playback. Two presses resets the disc to the beginning.
 - For special DVD playback options, see page 34.



Playing a Tape

Follow these steps to play a VHS tape.

- 1 Press POWER to turn on the DVD+VCR.
- 2 Press VCR to control the VCR deck.



- 3 Load your videotape in the VCR deck.
- 4 Press PLAY ► to start playback.
 - Many prerecorded tapes play automatically when loaded.
- 5 Press PLAY ► to pause and resume playback.
- 6 Press STOP ■ to stop playback.
 - For special VCR playback options, see page 35.

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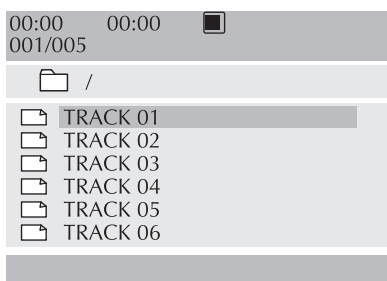


Other Disc Playback

Audio CD/MP3 CD Playback

To play an Audio CD or MP3 files on CD-R/RW:

- 1 Load the Audio CD or CD-R/RW in the disc tray.
 - Audio CDs begin playback automatically.

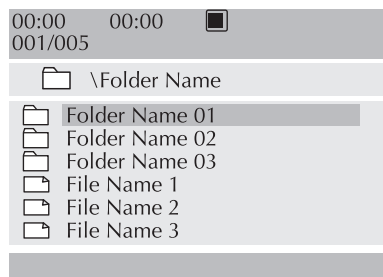


- 2 Press PREV◀◀/ NEXT▶▶ to browse the tracks.
- 3 Press PLAY ▶ to start and pause playback.
- 4 Press STOP ■ to stop playback.
- 5 Use the ▲ ▼ or 0-9 keys to select a specific audio track, then press ENTER.
 - Playback will start from the selected track.

JPEG CD Playback

To play JPEG files on CD-R/RW:

- 1 Load the CD-R/RW in the disc tray.
 - The following screen appears:



- 2 Press PLAY ▶ to start the slideshow.
- 3 Press PREV◀◀/ NEXT▶▶ to browse the pictures.
- 4 Press STOP ■ to stop the slideshow.

MP3 File Requirements

- Bit Rates must be 64~256 kbps
- Maximum of 32 folders per disc
- Maximum of 4 levels deep
- Variable bit rate (VBR) files may sound distorted during playback
- File names should be 8 characters or less, and must end in *.MP3
- Some CD-RW discs may not play back correctly
- CD-R discs should be written with ISO 9660 formatting using the 'disc at once' method

NOTE:

- REPEAT and A-B REPEAT work with Audio and MP3 CDs.

Basic Recording

Recording from TV

Follow these steps to record a TV show to a VHS tape.

- 1** Press POWER to turn on the DVD+VCR.
- 2** Press VCR to control the VCR deck.
- 3** Insert a recordable tape (a tape with the record safety tab intact).

- 4** Use the remote control to select the satellite channel you want to record. Press the **CH** button on the remote control to select the channel.

5

Special Recording Options

Recording from a Camcorder or other Device

Follow these steps to record from a camcorder or other external device.

- 1 Connect your external device to the front panel or rear panel inputs; see pages 18-19.
- 2 Press TV VIEW repeatedly to select:
Video 1 - If the device is connected to the rear Audio/Video Inputs.
Video 2 - If the device is connected to the front Audio/Video Inputs.
- 3 Insert a recordable VHS tape.
- 4 Press VCR to control the VCR deck.
- 5 Press SPEED to select the desired recording quality (SP or SLP).
- 6 Cue the external device and start playback at the beginning of the scene you wish to record.
- 7 Press REC ● on the DVD+VCR to start recording.
 - To pause recording, press PLAY.
 - To resume recording, press PLAY or REC ●.
 - To view the status of your recording, press DISPLAY.
 - To add recording time in fixed increments, see One-Touch Recording at right.
- 8 When finished, press STOP ■ to stop recording.

One-Touch Recording

- 1 Press REC ● repeatedly to add recording time in 30-minute or 1-hour increments (up to 9 hours with a T-180 tape in SLP mode).
- 2 Recording will stop automatically when the selected Record Length has elapsed.
- 3 To cancel One-Touch Recording, press REC ● repeatedly until "Record Length" disappears from the on-screen display.

Copying DVD to VHS

- 1 Insert your DVD.
 - You cannot record copy-protected DVD discs.
- 2 Insert a recordable VHS tape.
- 3 Press DVD to control the DVD deck.
- 4 Press PLAY to play the DVD.
- 5 Press REC ● to start recording.
- 6 When finished, press STOP ■ to stop recording.

Watch & Record Options

- To watch a DVD while a VHS recording is in progress, press the DVD button and then press PLAY.
- To watch another channel while a VHS recording is in progress, press TV/VCR then select the desired channel on your TV (Antenna or Basic Cable TV connections only).

NOTE:

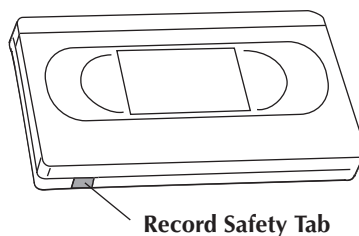
- You cannot copy from DVD to VHS in Progressive Scan mode. To switch to Interlace Scan mode, press and hold P.SCAN for 5 seconds.

Timer Recording

Setting a Timer Recording

Follow these steps to program a timer recording. Before you begin, make sure the Time and Date are set correctly (see page 22), and that your tape has enough available space to record the desired program.

- 1** Insert a recordable tape (a tape with the record safety tab intact).
- 2** Press VCR to control the VCR deck.
- 3** Press PROG. to display the Timer Record menu.
 - You can also press SETUP and select Timer Recordings > Make a New Program.
- 4** Press ▲ ▼ and ENTER to set how often to record:
 - One Time** - Record once.
 - Daily** - Record at the same time every day.
 - Weekdays** - Record at the same time Monday through Friday.
 - Weekly** - Record once a week on the selected day and time.
- 5** Use the CH+/- or 0-9 buttons to select the channel you want to record and press ►.
 - If you are using a cable box/satellite receiver, set the DVD+VCR to the receiver's output channel and select the channel to record on the cable box/receiver.
 - If you are recording from an external source, press TV VIEW to select the rear (Video1) or front (Video2) input.



Timer Recording *(continued)*

- 6 Use ▲ ▼ to select the source of the program (Antenna or Cable), then press ►.
- 7 Use the ▲ ▼ (or 0-9) buttons to set the date, start time, and end time, pressing ► after each.
- 8 Use ▲ ▼ to set the Tape Speed to SP, SLP or AUTO, then press ►.
 - AUTO will start recording in SP and automatically switch to SLP if there is not enough room on the tape to complete the recording.
- 9 When finished, press SETUP to save the Timer Recording.
 - The  indicator is displayed on the front panel display.
- 10 Power off the DVD+VCR.
 - At the scheduled time, the Timer Recording will begin.
 - If the DVD+VCR is not ready (e.g., a recordable tape is not inserted or the tape is currently playing), an error message will appear on screen.

PROGRAM1 (ONE TIME)	
Channel	104 Cable
Start Date	06 / 04
Start Time	10 : 10 AM
End Time	11 : 10 AM
Tape Speed	SP
Move: ◀ ▶	Input: ▲ ▼
Video: TVview	End: SETUP

NOTE:

- To edit or cancel a timer recording, press SETUP then select *Timer Recordings > Review/Cancel Programs*. Press ENTER to edit, or press CLEAR to cancel the selected recording.

5 *Help*

This Chapter shows you how to get help, including troubleshooting, customer support, and warranty information.

Customer Support

The Troubleshooting section below will help you solve common issues with your DVD+VCR. If you don't find the answers you need here, you can contact our Customer Service Department as follows:

Phone (800) 736-7679
E-Mail customersupport@govideo.com
Web www.govideo.com

Troubleshooting

SYMPTOM	CAUSE	SOLUTION
No power.	The power cord is disconnected.	Plug the power cord securely into the wall outlet.
No picture.	The TV is not set to receive DVD+VCR signal output.	Select the appropriate video input on the TV so the picture from the DVD+VCR appears on the TV screen.
	The video cable is not connected securely.	Connect the video cable securely.
	The TV power is turned off.	Turn on the TV.
	Unit is in Progressive Scan mode.	Press and hold the PSCAN button for 5 seconds while in Stop mode to switch to Interlace Scan mode.
No sound.	The equipment connected with the audio cable is not set to receive DVD+VCR signal output.	Select the correct input mode on 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 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 cables are damaged.	Replace with new ones.
	Audio settings are incorrect in the DVD+VCR menu system.	Check the Digital Out setting; see page 29.
DVD+VCR does not start playback.	No disc/tape is inserted.	Insert a disc or tape. Check that the disc/tape indicator on the front panel display is lit.
	An unplayable disc is inserted.	Insert a playable disc. Check the disc type, color system, and regional code.
	The disc is placed upside down or is not placed within the guide.	Place the disc with the playback side down inside the guide.
	The disc is dirty.	Clean the disc.
	The Parental Control is set.	Cancel the Parental Control function or change the rating level.

Troubleshooting *(continued)*

SYMPTOM	CAUSE	SOLUTION
Picture from external input is distorted	The video signal from the external device is copy-protected.	Connect the device directly to your TV.
Some channels are skipped over when using CH ▲ ▼	The skipped channels were deleted with the Add/Remove feature.	See "Add/Remove Channels" on page 23.
Picture or sound of broadcasting channel is weak or missing.	Antenna or cables are loose.	Tighten connections or replace cable.
	Wrong TV Signal is selected in the DVD+VCR Setup menu.	See "Signal Type" on page 24.
Camcorder image via AV input to DVD+VCR is not shown on TV screen.	Camcorder is off.	Turn camcorder on and operate properly.
	DVD+VCR's input is not set to Video 1 or Video 2.	Press TV VIEW to select the correct input.
Cannot record or did not record successfully.	The source you are trying to record is copy-protected.	You cannot record the source.
	When setting the recording channel, the channel is tuned to the TV's own tuner.	Select the channel on the DVD+VCR's built-in TV tuner.
Timer Recording does not work.	DVD+VCR is not set to the correct time.	Set date and time; see page 22.
	Timer has been programmed incorrectly. TIMER indicator light does not appear after programming timer.	Reprogram Timer; see page 39.
Stereo Audio Recording and/or Playback not present.	TV is not Stereo-compatible.	No solution.
	Broadcast program is not in stereo format.	No solution.
	DVD+VCR AV Out jacks are not connected to TV AV In jacks.	Make AV connections. Stereo is available only via AV output from DVD+VCR.
	DVD+VCR Audio/Video Out is not selected for viewing at the TV.	Select AUX or AV source as TV input.
Remote control does not work properly.	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 23 ft (7 m).
	There is an obstacle in the path of the remote control and the DVD+VCR.	Remove the obstacle.
	The batteries in the remote control are dead.	Replace the batteries with new ones.
	The remote is in the incorrect mode.	Press DVD for DVD control. Press VCR for VCR control.
Disc Menu, Angle, Subtitle and/or Audio functions do not work.	Not all discs include these features.	No solution.
Poor quality VHS playback.	The VCR heads are dirty.	Use a head cleaner to clean the VCR heads.

Product Care & Handling

Placement and handling

- The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc.
- 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. They will leave marks on the surface.

When Not in Use

- When the unit is not in use, be sure to remove the disc or tape and turn off the power.
- If you do not use the unit for a long period of time, remove the remote control batteries to prevent leakage.

Moving

- The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packaged at the factory.
- Remember to eject any videotape or disc.

Cleaning

- 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, benzene, or thinner, as these might damage the surface of the unit.

Maintenance

- This is a high precision video device. For optimal performance, we recommend regular inspection and maintenance every 1,000 hours by qualified service personnel. Contact your dealer or nearest service center.

Antenna Orientation

- Antennas are subject to changes in direction or damage due to wind and rain. For best results, contact your nearest service center about proper orientation and/or replacement.

Copyright

- It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission.

Tape and Disc Handling

- To prevent damage to the unit, do not use moldy, stained, scratched or otherwise damaged tapes or discs.
- Condensation may be present on your videotape. Allow the tape to dry completely before using it.
- After playing, store discs and tapes in their cases to prevent damage.
- Do not expose discs or tapes to high temperatures, humidity, mold, direct sunlight, dirt, dust or strong magnetic materials.

Using the Remote Control

- Operate remote control within 23 ft. (7m) of the unit.
- Do not press two buttons at the same time.
- Do not store in a dusty or humid location.

Technical Specifications

Specifications

Power Supply	AC 120V, 60Hz
Power Consumption	24W (supplementary 4W)
Weight	9.9 lbs (4.5kg)
Dimensions (WxHxD)	17.1" x 3.7" x 10.0" (435mm x 93mm x 255mm)
Operating Temp.	41°F~95°F (5°C~35°C)
Operating Humidity	< 80% RH
Channel Coverage	VHF: 2-13 CH / UHF: 14-69 CH / Cable: 1-125
Signal Type	NTSC COLOR
Antenna In/Out	U/V-mixed: 75Ω unbalanced
VIDEO Input	1.0 Vp-p unbalanced, RCA JACK
AUDIO Input	-8.8dBm, RCA JACK
VHF Output	3 or 4 CH
VIDEO Output	
• DVD/VCR	VIDEO output terminal, 1.0 Vp-p unbalanced, RCA JACK
• DVD	S-VIDEO output (75Ω In load Y: 1.0Vp-p, C:0.286Vp-p) COMPONENT output (75Ω In load Y: 1.0Vp-p, Pb:0.7Vp-p, Pr:0.7Vp-p)
AUDIO Output	
• DVD/VCR	Audio output terminal (2 kinds): -8.8dBm(VCR), 2.0Vrms(DVD), RCA JACK
• DVD	Analogue AUDIO output (2 CH): 2.0Vrms Digital audio output (COAXIAL)
Playable Tapes	Very high dense tapes with VHS marks
Playable Discs	DVD, VIDEO-CD, CD (12mm), CD (8mm), MP3, CD-R, CD-RW
Tape Speed	SP: 33.35mm/s, SLP: 11.12mm/s
Playtime	SP: 2hrs, SLP: 6hrs (use of T-120 tape)
Clock display	12 hrs AM/PM
Timer Recording	8 programs a year
VIDEO S/N (VCR)	Over 45dB (Standard recording)
Resolution	
• VCR	Over 220 lines (Standard recording)
• DVD	Over 500 lines (DVD Disc PLAY)
AUDIO	
• VCR	Over 69dB (Hi-Fi), over 40dB (Mono)
• DVD	90dB
Dynamic Range	90dB

Code	Language
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Ameharic
6582	Arabic
6583	Assamese
6588	Aymara
6590	Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengali;Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
78	English

• Specifications and product design are subject to change without notice.

Warranty

GoVideo Limited Warranty

Who Provides the Limited Warranty

During the warranty period, the GoVideo Warranty Administrator will honor service for 90 days labor, 1 year parts from the original date of consumer purchase. See below for Commercial, Industrial or Educational use coverage. Remote controls are warrantied for 90 days from the date of purchase.

Who is Protected

This warranty protects the original consumer owner of this GoVideo product.

What is Covered and How Long

This warranty covers internal operating parts and service/labor to repair or replace covered parts in this GoVideo product for 90 days labor, 1 year parts, from the date of purchase, defined as follows: (1) Original Consumer Retail Purchase; (2) First Rental Purchase Agreement; or (3) First Lease Purchase Agreement (the "Warranty Period"). Labor and replacement parts supplied during the Warranty Period are covered only for the remaining portion of the original Warranty Period. The GoVideo Warranty Administrator shall have no liability for service under this warranty if non-OEM (Original Equipment Manufacturer) replacement parts are used in the repair of your GoVideo product.

What the Owner Must Do If Service is Required

Please contact our customer service department at 1-800-736-7679 to repair or replace your product, at GoVideo's option, if it proves to be defective in material or workmanship under normal use, during the warranty period listed above, effective from the date of original consumer purchase of the product. Repaired or replacement units are warrantied for the remaining period of the original warranty. Please retain dated sales receipt. Within the warranty period, the customer pays for inbound shipping charges and GoVideo pays return shipping charges.

Other Warranty Coverage

Commercial, Industrial or Educational use has the same warranty coverage as stated in this warranty.

90 days labor
1 year parts

What are the Exceptions

This warranty does not cover: (1) Normal maintenance service, such as cleaning. (2) Damage from misuse, abuse neglect or accident, natural disasters or Acts of God. (3) Cabinetry, decorative parts, A/C adapters, knobs or buttons. (4) The foreign country use of this product. (5) GoVideo product which has been electronically or mechanically modified in any way or incorporated into other products. (6) Installation and setup service adjustments. (7) Owner instruction. Your Owner's Guide provides information regarding operating instructions and user controls. For additional information, contact your authorized GoVideo dealer.

GoVideo is not responsible for any shipping, handling or insurance charges.

This Exclusive Limited Warranty excludes all incidental and consequential damages. Some states do not allow the exclusion of incidental and consequential damages, so the above exclusion may not apply to you.

ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY PERIOD. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This Exclusive Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

GoVideo Warranty Administrator

7835 East McClain Drive
Scottsdale, Arizona 85260-1732
customersupport@govideo.com
1-800-736-7679

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