ilo
technologies

DVDR05
DVD Recorder & Player
with Progressive Scan Video Playback

DVD RECORDER

DVD VIDEO | DOLBY DIGITAL | Plays Windows Media™ | JPG | RW DVD+ReWritable

Operation Guide
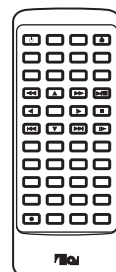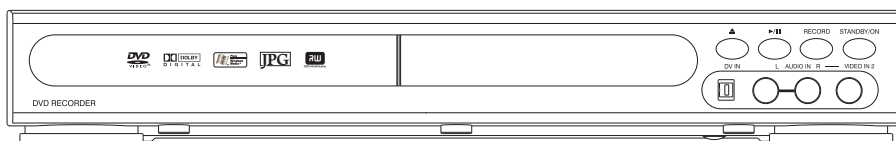
DVD VIDEO | DOLBY DIGITAL | Plays Windows Media™ | JPG | RW DVD+ReWritable

Limited Warranty

1. WHAT DOES THIS WARRANTY COVER? This warranty covers any defects or malfunctions in your new iLO DVDR05 recorder unit.

2. HOW LONG IS THE PERIOD OF COVERAGE? This warranty is valid for service as follows: One (1) year no charge for labor and up to one (1) year for parts from the date of purchase.

3. WHAT WILL iLO DO?

LABOR: If the product is determined to be defective within one (1) year of the date of purchase, iLO will repair or replace it at no charge. After the one (1) year has expired, you will be responsible for any labor charges.

PARTS: If service is being performed by an iLO technician, the cost of parts is covered for up to one (1) year from the date of purchase. iLO will not repair or replace defective parts unless the work is performed by an iLO technician.

Proof of purchase that is evidence in the form of a bill of sale or a receipted invoice must be provided at the time service is requested in order to receive warranty service.

4. WHAT DOES THIS WARRANTY _NOT_ COVER? Any damage or problem that results from misuse, abuse, or an act of God (such as flood) are not covered. This warranty does not permit recovery of consequential or incidental damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

5. HOW DO YOU GET SERVICE? You must be issued a Return Merchandise Authorization (RMA) number by iLO's Customer Service Center. To receive an RMA, contact customer service at 1-800-939-0605 or email customer service at help@iloservice.com. Upon receipt of an RMA number, you must send the product back, postage prepaid to:

> iLO Service Center
> 48350 Fremont Blvd.
> Fremont, CA 94538
> RMA #

The RMA# must be visible on the outside of the package in order for iLO to accept delivery of the returned product.

6. HOW DOES STATE LAW APPLY? This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

iLO DOES NOT OFFER REFUNDS.

WARRANTY IS INVALID IF PRODUCT IS MODIFIED, ALTERED OR OPENED.

iLO RECOMMENDS PUTTING UNIT IN A WELL VENTILATED AREA.

Periodic changes are made to our warranty. Please contact customer service or visit our website at: www.iloservice.com for the latest information regarding your product or warranty.

Important Safety Instructions

Explanation of Warning Symbols

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

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of not isolated dangerous voltage within the inside of the product that may be sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

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

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR ANNOYING INTERFERENCE, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE AND ONLY USE THE RECOMMENDED ACCESSORIES.

Safety Instructions

- **Read these instructions** - When using this unit, basic precautions outlined in this section should always be followed.
- **Keep these instructions** - Retain this user manual for future reference.
- **Heed all warnings** - Follow all warning labels on the product, and the safety instructions in this manual.
- **Follow all instructions** - Adhere to the instructions outlined in this manual and on the unit.
- Clean only with a dry cloth - Unplug the unit before cleaning. Do not use any liquid or detergents for cleaning.
- Do not block any ventilation opening. Install in accordance with the manufacture's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defect the safety purpose of the polarized plug. A polarized plug has two blades with one wider than the other. The wide blade is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments / accessories specified by the manufacturer.
- The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Do not put foreign objects in the disc tray.
- Keep away from water and magnets.
- Keep the unit away from flower vases, tubs, sinks, etc. If liquids are spilled into the unit, serious damage could occur.

- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled, objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, or when the unit does not operate normally, or has been dropped.
- Power cord protection - To avoid any malfunctions of the unit and to protect against electric shock, fire or personal injury, please observe the following:
- Hold the plug firmly when connecting or disconnecting the AC power cord to this unit.
- Keep the AC power cord away from heating appliances.
- Do not connect or disconnect the AC power cord with wet hands.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.
- Remove dust, dirt, etc. on the plug at regular intervals.
- If the unit has been dropped or otherwise damaged, turn off the power and disconnect the AC power cord.
- If smoke, odors or noises are emitted from the unit, turn off the power and disconnect the AC power cord.
- Placement - Avoid placing the unit in areas of direct sunlight, heating radiators, closed automobiles, high temperature (over 35º C (95º F)), high humidity (over 90%), excessive dust, vibration, impact or where the surface is tilted, as the internal parts may be seriously damaged.
- Non-use periods - When the unit is not used, turn the power off.
- When the unit is unused for a long period of time, the unit should be unplugged from the household AC outlet.
- No fingers or other objects inside - Touching internal parts of this unit is dangerous and may cause serious damage to the unit. Do not attempt to disassemble the unit.
- Keep magnetic objects, such as speakers, distant from the player.
- Stacking - Place the unit in a horizontal position and do not place anything heavy on it.
- Do not place the unit on amplifiers or other equipment which may become hot.
- Condensation - Moisture may form on the lens in the following cases: a) Immediately after a heater has been turned on. b) In a steamy or very humid room. c) the unit is moved from a cold environment to a warm one.
- If moisture forms inside this unit, it may not operate properly. In this case, turn off the power and wait about one hour for the moisture to evaporate.
- Noise interference while a broadcast is being received - depending on the reception condition of the TV, interference may appear on the TV screen while you are watching a TV broadcast, if the unit is switched on. This is not a malfunction of the unit or the TV. To watch a TV broadcast, turn off this unit.
- Caution - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAVE THESE INSTRUCTIONS

The DVDR05 DVD Recorder with Progressive Scan Video Out

Recording Features

- Live and Timer Recording Functions.
- Multiple Recording Modes, HQ, SP, LP, EP, EP+, SLP.
- Up to 8 Hours Recording on one DVD+R/RW Disc.
- On-Screen Disc Title Navigator gives you quick, easy access to your Recordings.
- Built-In TV Tuner.
- Front and Rear A/V Inputs.
- DV Input and Camcorder control.
- Delete/Rename Titles.
- Auto-Insert Chapter Markers.
- Your recordings are playable on most DVD Players.

Playback Features

- Plays DVD, SVCD/VCD, MPG, JPG, Audio CD Formats.
- Fast Forward / Reverse.
- Slow Motion Playback, Frame-by-Frame Stepping.
- Repeat Playback (Chapter/Title/Disc & A-B).
- Restrict playback by Ratings, User Defined Password, Password Change.
- MP3 Player.
- JPG Slideshows with Thumbnail preview.
- Zoom to x4 with Panning.

Checking the Package Contents

In addition to the DVD Recorder, your package should contain the following accessories. Check the contents of the package carefully, as some items may be located under the packing foam.

1 Remote control with battery

2 A/V cable (Video, Stereo Audio)

3 Power cord

4 RF Cable for TV

5 This operation manual and warranty information
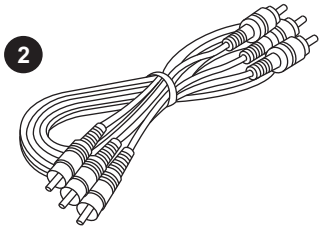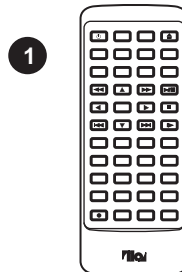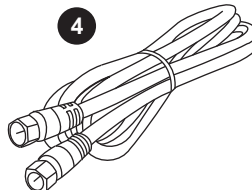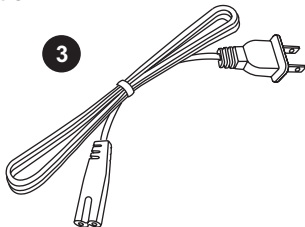
Notes on Copyright

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 player, please contact our customer service center.

Table of Contents

Discs Suitable for Playback

DVD Video: This unit plays DVDs recorded for a particular region. The region mark on the back of the player must correspond to that on any DVD discs you wish to play. Units sold in North America are coded for Region 1, and are compatible with discs marked accordingly.

DVD-R/RW: These discs can be played back when recorded in standard DVD Video format.

DVD-Audio: This unit will playback only the 5.1CH sound track on DVD-Audio discs.

CD-Audio: An on-screen navigator is provided to select and play tracks when using CD-Audio discs.

Video CD (VCD/SVCD): On VCD/SVCD discs, advanced features such as PBC (Playback Control) are available.

CD-R/RW: This unit features an on-screen navigator for easy access to playable files stored on CD-R/RW discs, such as JPG images and MP3 music.

Discs Suitable for Recording

DVD+R

DVD+R: These discs can only be written to once. Existing recordings can be hidden but not deleted. So, any disc space already used by a recording cannot be regained. DVD+R discs are required to be "Finalized" before they will be compatible with standard DVD Players. Once a disc is finalized, no further recordings can be made.

DVD+RW

DVD+RW: DVD+RW discs can be written to and erased multiple times. Existing recordings can be deleted and disc space regained. These discs do not require a finalization procedure. As soon as a recording is made, the disc will be compatible with standard DVD Players.

Caring for Optical Discs

- Hold a disc by the rim or with an index finger in the central hole. Never touch the signal surface.
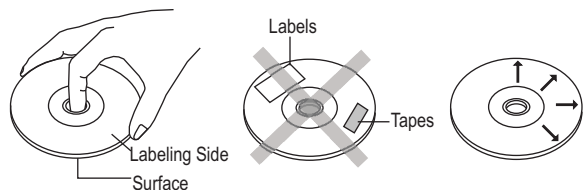
- Finger prints or stains on the surface of the disc may cause signal loss.
- Use a soft cloth and wipe in a radiating manner from the center of the disc to the outer rims when cleaning the disc surface.
- Never add labels or adhesive tapes on the discs and be careful not to scratch or damage the disc surface.
- To prevent discs from becoming bent or deformed, they should be vertically kept in the disc storage case. To prevent damage, avoid leaving discs in your car, where they may be subject to direct sunlight and high temperature.
- Do not use any disc accessory to improve the audio quality, disc protective solutions or lens cleaner. These products may damage the disc surface.

Remote Control *Functions*
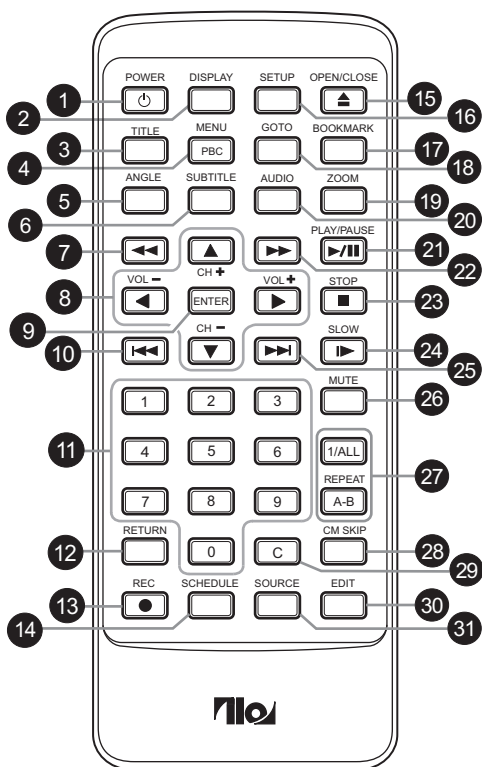
1 POWER - Turns the unit on and sends the unit to Standby mode.

2 DISPLAY - Brings up the on-screen display showing information for the playback session.

3 TITLE - Accesses the title screen on DVD+R/RW discs, displaying a graphical representation of the recordings and providing easy navigation.

4 MENU / PBC - Accesses Menus on DVD Discs. With VCD discs, turns the PBC function On/Off.

5 ANGLE - Selects between multiple angles with DVD Discs that support this feature.

6 SUBTITLE - Selects available subtitles on DVD discs.

7 FAST REVERSE - Scan in fast reverse on DVD and other discs.

8 ARROW KEYS (VOL and CH+/-) - Use to navigate disc menus, on-screen setup menu, etc. In TV tuner mode, use UP/DOWN to select a channel and increase/decrease the volume output level.

9 ENTER - Selects options in menus. Plays a disc, chapter or track with some discs. For other discs, press PLAY.

10 PREVIOUS - Plays previous track on DVD and other disc.

11 NUMBER KEYS - Use to enter numeric values while setting options.

12 RETURN - When navigating disc menus, press to return to the previous menu accessed.

13 REC - Press to begin a live recording or resume recording from PAUSE.

14 SCHEDULE - Accesses the timer menu for scheduled recording setup.

15 OPEN/CLOSE - Press to open or close the disc tray.

16 SETUP - Accesses the on-screen Setup Menu for settings adjustment.

17 BOOKMARK - Press to access the Bookmark menu, a current point on the disc can be accessed quickly without searching.

18 GOTO Press to jump to a Title, Chapter or Time on the disc.

19 ZOOM - Press to magnify the screen with DVD and JPG discs.

20 AUDIO - Selects an audio track on DVD or VCD discs.

21 PLAY/PAUSE - Plays a disc, chapter or track. Press to pause playback, press one more time to return to normal playback.

22 FAST FORWARD - Scan in fast forward on DVD and other discs.

23 STOP - Press once to stop playback and hold the last position in memory. Playback can be resumed where it was left off by pressing PLAY. Press twice to clear the last playback position.

24 SLOW - Slow motion playback mode. Press PLAY to resume normal playback.

25 NEXT - Advanced to the next track on DVD and other disc.

26 MUTE - Temporarily cancels audio playback.

27 A-B REPEAT - Sets the beginning and end points of a section to repeat.

REPEAT 1/ALL - Selects a repeat option - Chapter, Title or Disc.

28 CM SKIP - During playback, use to advance 30 seconds.

29 CLEAR - When entering input, use to delete characters.

30 EDIT - Enables the on-screen edit menu.

31 SOURCE - Selects between available Input Sources when the Recorder is in Live Record mode - TV Tuner, VIDEO IN 1 / 2, S-VIDEO IN or DV IN.

Remote Control Use

The battery is already installed into the remote control.

1 Turn over the remote to the back cover. Pull the plastic tab to enable the battery in the remote. Your remote is now ready for use.

Remote Control

Plastic Tab ➡
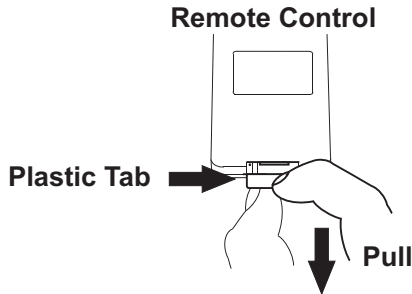
Pull

2 Replace the battery, check for the correct polarity of the battery in the battery holder. Slide the battery holder back into the remote.
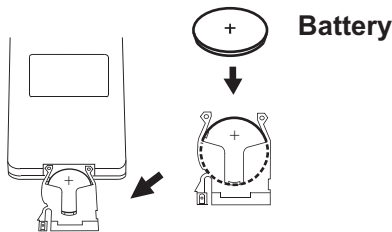
Battery

3 To replace the battery in the remote, depress the release clip while pulling the handle of the battery holder to access the battery.

Remote Control   **Battery Holder**

Release Clip   **Handle**
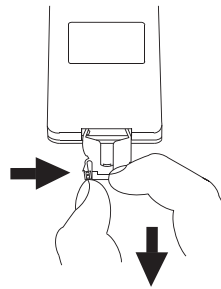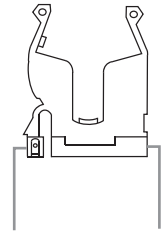
Using the Remote Control

The remote control works best when pointed directly at the unit. Stay within 30^0 angle of the unit.

30° **30°**

Front Display

AUDIO ► **888:88:88** **TIMER**
VIDEO ‖ **RECORD**
DVD R W **PHOTO**
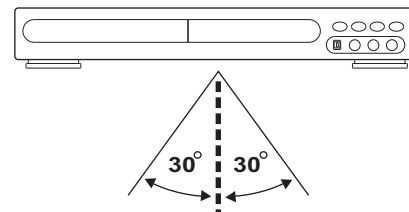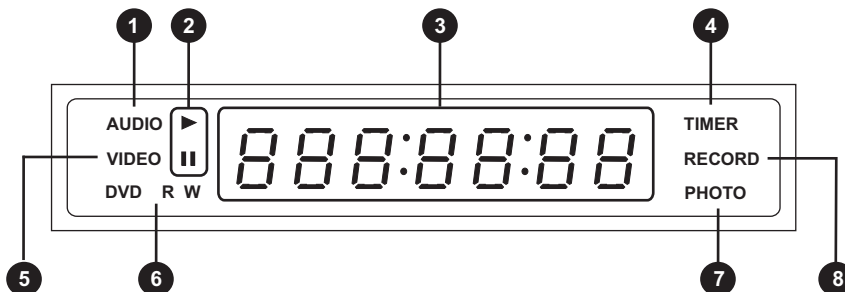
1 **AUDIO** - Displays during playback of an Audio CD, MP3, etc.

2 **PLAY / PAUSE** - Displays playback status.

3 **TITLE / CLOCK / TV Channel** - Displays Chapter, Elapsed Playback Time, System Clock, and TV Channel.

4 **TIMER** - Glows when a schedule recording is set.

5 **VIDEO** - Glows during playback of a DVD Video.

6 **DVD R W** - Displays the respective recordable disc format, +R or +RW.

7 **PHOTO** - Glows during display of JPG files.

8 **RECORD** - Displays when actively recording .

Front Panel
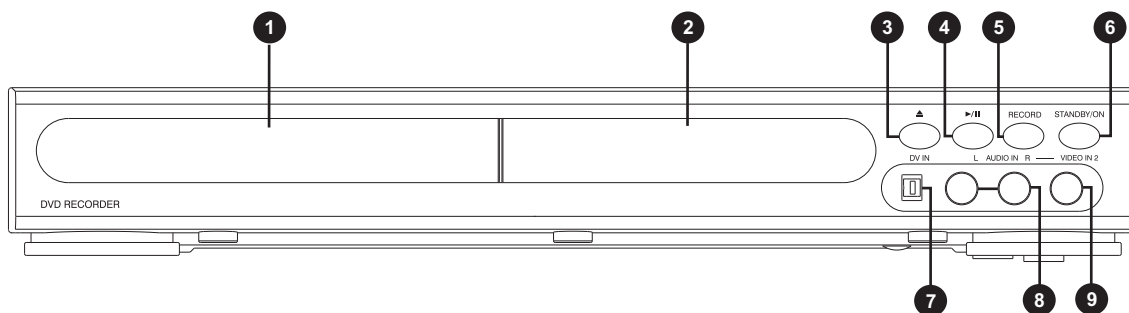
1 **DISC TRAY** - Loads DVD+R/RW, DVD, CD-R/RW, VCD/SVCD, MP3, JPG and other optical discs.

2 **FRONT DISPLAY** - The front Vacuum Flourescent Display shows information about the unit's operation, such as current chapter and elapsed time during playback.

3 **OPEN/CLOSE** - Press to open or close the disc tray.

4 **PLAY/PAUSE** - Begins playback of a disc, chapter or track. Press again during playback to pause, and again to resume playback.

5 **RECORD** - Begins a Live Recording.

6 **ON / STANDBY** - Turns the unit on and sends the

unit to standby mode. In standby mode, the unit will use a minute amount of power to enable power-on by the remote control.

7 **DV IN** - Front DV Input for recording. To select, use the SOURCE key and select DV IN.

8 **LEFT/RIGHT AUDIO IN 2** - Front Stereo Audio Inputs for recording. These inputs are shared with the VIDEO IN 2 input.

9 **COMPOSITE VIDEO IN 2** - Front Composite Video Input for recording. To select, use the SOURCE key and select VIDEO IN 2. AV Inputs.

Back Panel

1 **POWER CORD SOCKET** - Plug the matching end of the power cord into the unit before connecting the other end to the wall socket.

2 **ANTENNA IN / OUT** - For Antenna or Cable TV connection. Passthrough connection to TV does not transfer the output signal from the DVD Recorder.

3 **VIDEO INPUT 1** - Composite Video input for recording. To select this input, use the SOURCE button and choose VIDEO IN 1.

4 **STEREO AUDIO OUTPUT** - Connect to TVs or other audio equipment supporting Stereo Audio in.
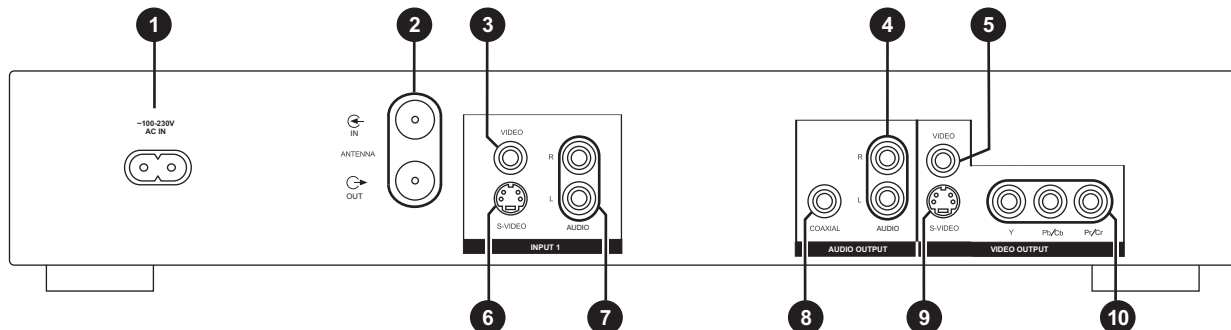
5 **COMPOSITE VIDEO OUTPUT** - Standard Video Output supported by most TVs.

6 **S-VIDEO INPUT** - S-VIDEO input for recording. To select this input, press SOURCE and choose S-VIDEO IN.

7 **STEREO AUDIO INPUTS** - Use with S-VIDEO IN 1 or VIDEO IN 1 for recording.

8 **COAXIAL DIGITAL AUDIO OUTPUT** - Use a special Coaxial Digital Cable to send the raw coded digital signal to devices supporting digital decoding.

9 **S-VIDEO OUTPUT** - Connect to TVs with S-VIDEO in for better picture quality than standard composite video.

10 **COMPONENT/PROGRESSIVE SCAN VIDEO OUTPUT** - Use this output with TVs supporting Component Video or Progressive Scan input for best video quality. Select the PROGRESSIVE SCAN MODE in the Recorder's SETUP MENU for P-SCAN TVs.

Typical Connection to TV

Your new recorder comes with composite video (A/V) cable for connection to TVs with a standard video input as shown below. On most TVs, this connector is colored yellow, and is normally accompanied by stereo audio inputs, colored red and white for stereo channels right and left, respectively.

1 First, use the supplied A/V cable to connect to the composite video input on your TV. This is normally a yellow-colored connector that matches the Video output on the back of this unit. To hear sound through the TV, connect the red and white stereo audio connections as well.

3 On your TV, select the video input. This is normally done by selecting "Video 1" or "Video Input" with the remote control. On some TVs, this is done by selecting a particular channel.

2 Turn on the DVD Recorder. Press **STANDBY/ON** on the remote control or front panel.

BACK OF YOUR TV SET

VIDEO IN

AUDIO IN (R)   **YELLOW**

VHF IN   AUDIO IN (L)   **RED**

                                WHITE

FROM AERIAL ANTENNA or CABLE SERVICE

ANTENNA

OUTLET

TO TV

ANALOG AV CABLE

VIDEO

R

L

YELLOW

RED

WHITE
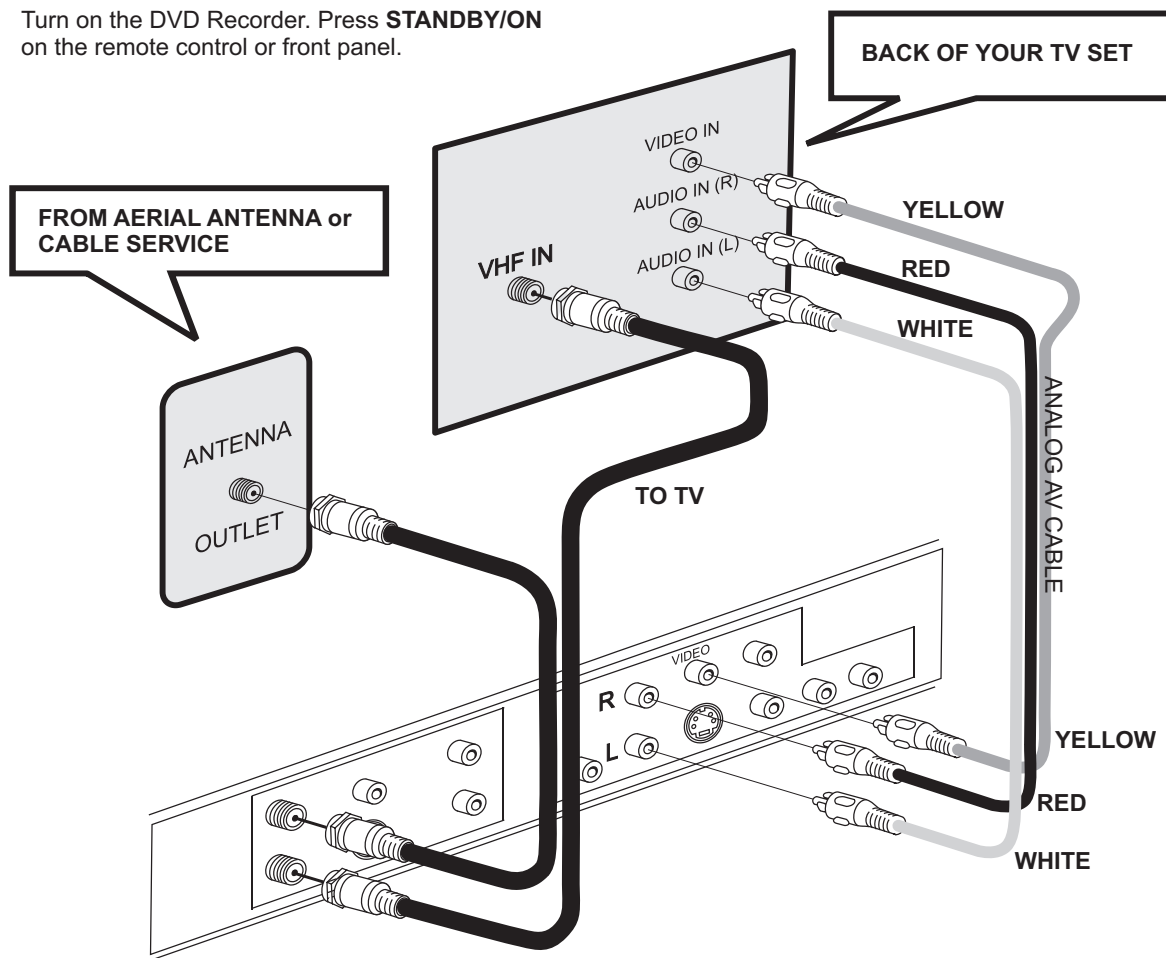
ⓘ Your TV must be equipped with AV inputs like those pictured to the right in order to connect this unit. If your TV does not have AV inputs, you will need a RF Modulator to connect the recorder to your TV's antenna/cable input as shown below. RF Modulators are available at major electronics retailers.

VIDEO   R - AUDIO - L

DVD Recorder Composite Video Out → **RF Modulator** → **Older TV with coaxial antenna/cable connector**

S-Video & Component Video Connections
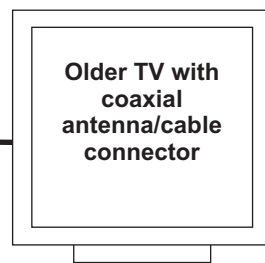
S-VIDEO is a higher quality connection than standard composite video, and requires a special S-Video cable (not included). The S-Video connector is distinguishable by its 4 pins, as shown below. If your TV has an S-Video input, it's recommended that you use this type of connection for better picture quality.

1 First, obtain a special S-Video cable. Connect the S-Video output from the unit to the corresponding input on your TV.

2 On your TV, select the S-Video input. This is normally done by selecting "Video 2" or "AV2" with the remote control. On some TVs, this is done by selecting a particular channel.
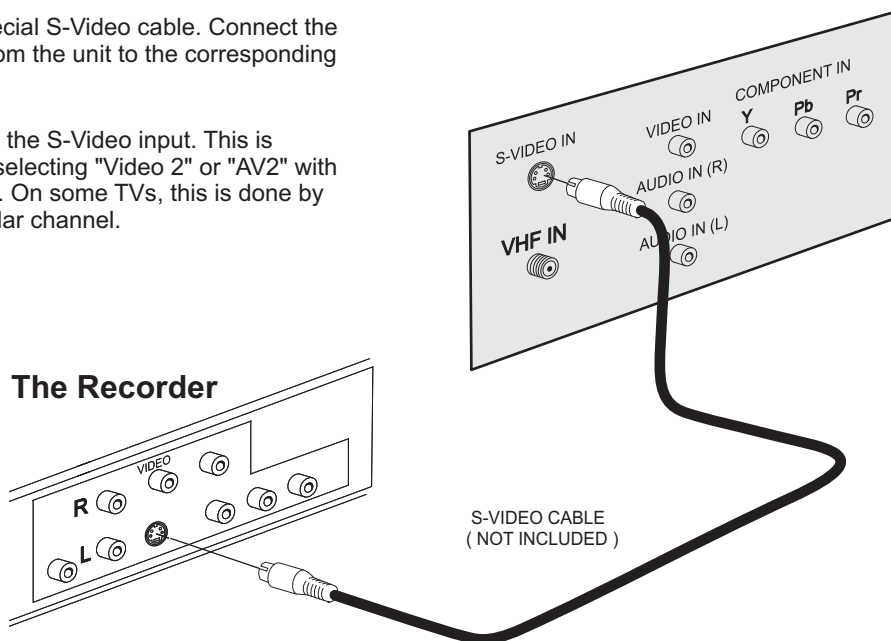
1 You can enjoy high quality picture reproduction by using the component video output instead of S-Video or Composite video output. Connect the cables per the illustration.

2 On your TV, select the component or progressive scan input. This is normally done by selecting "Video 2" or "AV2" with the remote control. On some TVs, this is done by selecting a particular channel.

3 Change the Setup Menu/A/V Output/Scan Mode to Progressive if your TV supports P-SCAN or Interlace if it supports component.
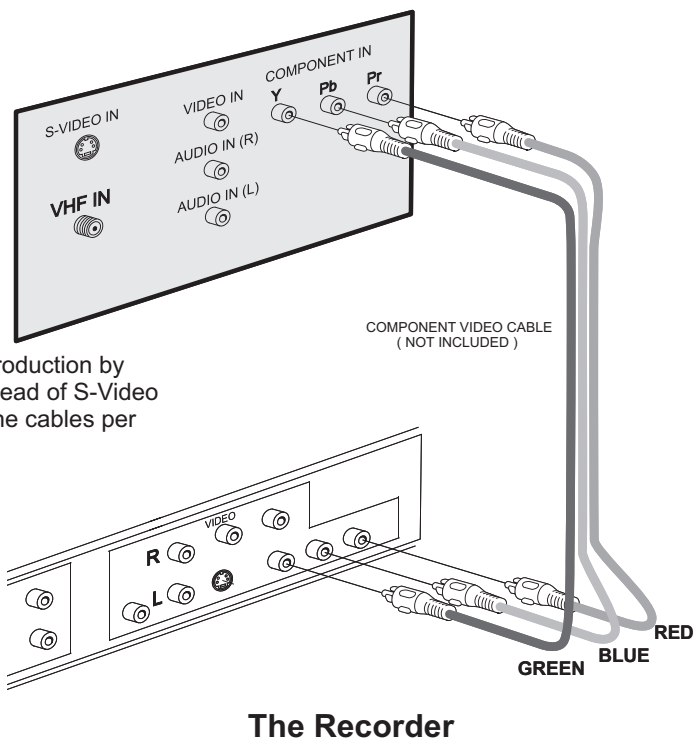
Audio Output

This unit features a variety of audio line outputs for connection to a receiver or other audio equipment. Use the included A/V cable to connect the stereo audio outputs for connection to a TV or stereo receiver.

A **COAXIAL** digital audio output is able to send an encoded digital bitstream, suitable for receivers with Dolby or DTS decoding capability. These outputs require special cables (not included).

1 First, obtain a special audio cable. Connect the analog stereo output from the unit to the corresponding input on your stereo amplifier or receiver.

Stereo audio amplifier or receiver

S-VIDEO IN

VIDEO IN

COMPONENT IN

Y   Pb   Pr

AUDIO IN (R)

VHF IN

AUDIO IN (L)

RED

WHITE

AUDIO CABLE
(NOT INCLUDED)

VIDEO

R

L
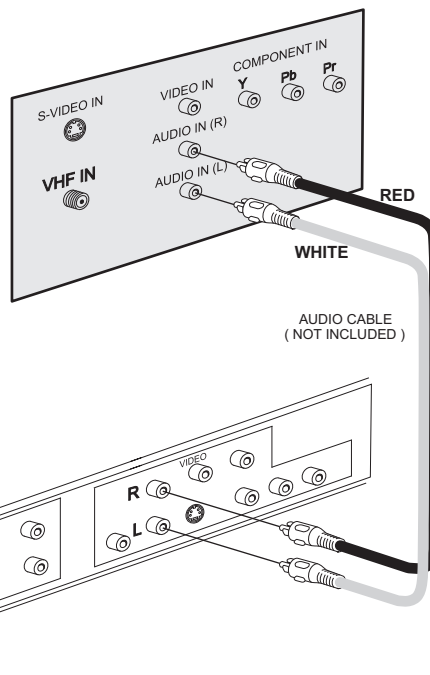
The Recorder

1 You can connect the coaxial output from the recorder to the coaxial digital input on an AV amplifier or receiver.

COAXIAL

Digital Input - Coaxial

COAXIAL CABLE
(NOT INCLUDED)

COAXIAL
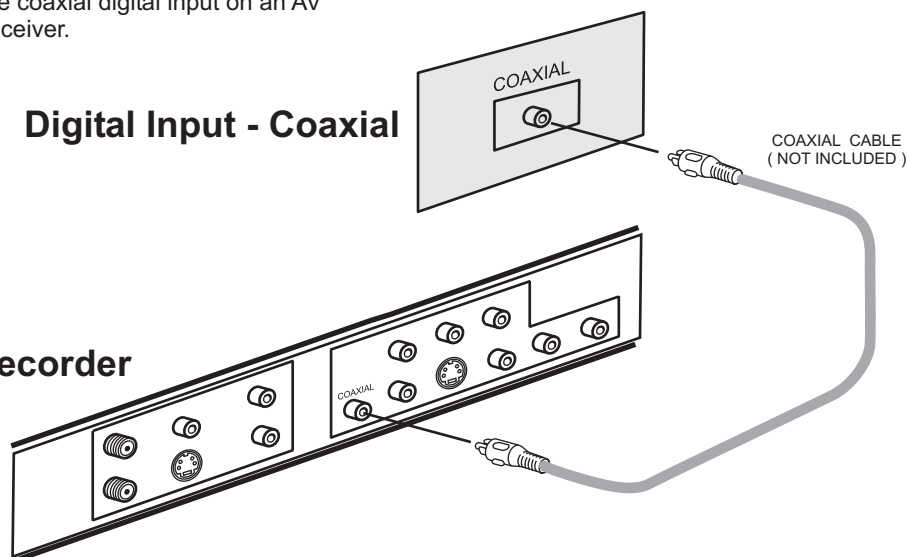
The Recorder

Plugging In and Power On

1 Plug the DVD player's electrical plug into a wall socket or power strip.

2 Press the STANDBY / ON button on the front panel, or the POWER button on the remote control to turn the DVD recorder on.

3 When the DVD player's splash screen appears on your TV, you're ready to go!

Time and Date Settings

The recorder uses the Time and Date values to determine when to begin and end Scheduled Recordings.

1 Press **SETUP** to enter the SETUP MENU.

2 Use the ▲/▼ keys to select GENERAL, press ENTER. Use the ▲/▼ keys to select CLOCK, press ENTER.

3 To edit a field, press **ENTER**.

4 Use the ▲/▼ keys to increase or decrease the value of the field.

5 To exit a field, press **ENTER**.

6 Press **RETURN** to exit the CLOCK SETTINGS MENU.

Select the CLOCK menu and press **ENTER**. The CLOCK SETTING screen appears with the following options.

- **Clock Settings** - Set the time. This setting will show AM or PM if the Hour Mode is set to 12HR.
- **Date Settings** - Set the date. Use 2-digit year format.
- **Time Format** - 12HR or 24HR. 12HR mode is the normal time system used in the USA, relying on the use of AM /PM to indicate night or day. In 24HR mode, the AM/PM designation is not used, with 12:00 indicating noon time and 24:00 indicating midnight.

Auto Scanning Channels

This is the easiest way to fill your channel list with those channels available in your area. The unit scans for channels automatically. When complete, press SETUP to return to the TUNER SETUP menu.

1 Press **ENTER** to bring up the menu to select your connection type (Antenna or Cable), use the **ARROW** keys to select and press **ENTER**.

2 The unit scans for channels automatically. When complete, press **RETURN** to exit the TUNER SETUP menu.

Channel Setup

Once your Antenna or Cable TV input is connected to the connector on the back of the unit, you can setup the recorder's built-in TV Tuner by auto-scanning for available channels and then adding or deleting the channels you choose.

1 Press **SETUP** to enter the SETUP MENU.
Select the TV CHANNEL menu with the ▲/▼ keys and press **ENTER**.

2 You can press **RETURN** repeatedly to exit the SETUP MENU at any time.

Restore Defaults

Choose this option to clear the channel list of all your previous changes.

Switching to TV Mode

Once you have configured your channels, you can begin using the recorder's built-in TV TUNER for Recording or simply watching your favorite programs.

1 When the unit is first turned on, the DVD PLAYBACK mode is selected by default. Press **SOURCE** and use the **ARROW** and **ENTER** keys to switch to TV TUNER mode.

2 Use the ▲/▼ keys to change channels while watching TV. Alternatively, you can enter a channel number directly with **NUMBER** keys, and press **ENTER**.

To return to DVD Playback mode, press the **SOURCE** key at any time.

Inserting a Disc

1 Press the **OPEN/CLOSE** button on the remote or front panel to open the disc tray.

2 Insert the disc, being careful not to touch the playing surface. Hold the disc by the sides and with your fore finger through the hold in the middle and insert gently into the tray.

3 Close the disc tray by pressing **OPEN / CLOSE** on the remote or front panel.

Starting, Stopping and Pausing Playback

1 **PLAY** - To begin playback of a disc, press **PLAY** (Remote Control) or **PLAY/PAUSE** (Front Panel).

2 **STOP** - To stop playback of a disc, press **STOP**. The first time **STOP** is pressed the location where disc play was halted is saved, and you can begin playback where you left off by pressing **PLAY**. If **STOP** is pressed twice, the playback location is reset to the beginning of the disc.

3 **PAUSE** - To freeze the video on a single frame or pause music, press the **PLAY/PAUSE** (Front Panel) or **PAUSE** (Remote Control) key during playback. To resume normal playback, press **PLAY/PAUSE** (Front Panel) or **PLAY** (Remote Control).

Fast Forward / Reverse Scanning

You can scan through DVDs, VCDs and other discs in forward or reverse direction. Fast forward/reverse scanning will only work during disc playback.

1 To use the Fast Forward/Reverse function with the remote control, press the ▶▶ or ◀◀ key repeatedly to cycle through all speeds in the desired direction. To resume normal playback, press the **PLAY** key.

Skipping to the Next / Previous Chapter

You can advance or skip back through the chapters or tracks on DVD discs, Audio CDs and other discs with the ▶▶ **NEXT** and ◀◀ **PREVIOUS** buttons on the remote or front panel.

1 **SKIP NEXT** - To advance to the next chapter or track, press ▶▶ on the remote control or front panel.

2 **SKIP PREVIOUS** - Press ◀◀ on the remote control or front panel to skip back to the previous track.

Using Disc Menus

> *PLAY MOVIE*
> *SPECIAL FEATURES*
> *SCENE SELECTION*
> *AUDIO SETUP*
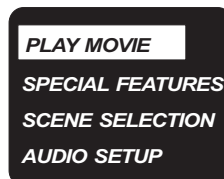
Most DVDs will automatically display a menu after the disc is inserted. This menu is known as the "root" menu.

1 Use the ▲/▼ and ◀/▶ keys on the remote control to navigate the menu to make a selection.

2 Press **ENTER** to begin playing the movie.

3 To return to previous layers of the menu, use the **RETURN** key.

4 To return to the menu after disc play has started, use the **MENU** key.

> *1. Chapter One*
> *2. Chapter Two*
> *3. Chapter Three*
> *4. Chapter Four*

5 With SVCD discs, press **PBC** (Playback Control), to enable or disable the PBC function. The PBC function enables a MENU on SVCD discs that support this feature. Select the corresponding number for the Chapter you wish to play with the **NUMBER** keys.

Slow Motion Playback

This unit supports slow motion playback in the forward direction at three speeds.

1 During playback, press the **SLOW** key repeatedly to select a slow motion speed or to resume normal play.

Frame-By-Frame Step Playback

You can freeze playback on a single frame and then step forward one frame at a time.

1 Press the ❙❙ key to freeze playback.

2 Press the ▶▶ key to advance one frame. Repeat to continue stepping through the movie frame by frame.

3 Press **PLAY** to resume normal playback.

Muting the Sound

1 Press the **MUTE** button on the remote to temporarily cancel the audio signal at any time.

2 Press **MUTE** again to resume normal audio.

ZOOM Playback

Use the ZOOM function to magnify or shrink the image on screen during playback or when paused.

1 Press the **ZOOM** key repeatedly to choose a magnification level.

2 When the ZOOM function is first activated, directional arrows will appear on screen. During this time, you can use the ▲/▼ and ◀/▶ keys on the remote control to move around the image in order to view the area that is currently off screen. When the arrows disappear from the screen, this function will no longer work.

3 Press the **ZOOM** key repeatedly to choose ZOOM OFF to return to normal viewing.

CM (Commercial) Skip

The **CM SKIP** key lets you "jump" forward at 30 seconds intervals.

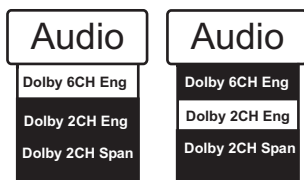**1** During playback, press the **CM SKIP** key to "jump" forward at 30-second intervals.

Multi-Angle Function

Some DVD discs are recorded with multiple viewing angles for certain scenes. When you are viewing a disc that supports this feature, you can choose among the available angles on the disc with the **ANGLE** key.

1 Most discs with multi-angle will display an indicator, or angle mark, that alerts the viewer that multiple angles are available for the current scene. When this mark appears on-screen, press the **ANGLE** button to select an angle to view.

Changing the Audio Track

Most DVD discs are recorded with multiple audio tracks. These can contain multiple languages and different audio formats, such as 5.1Channel, 2 Channel and other languages.

Audio	Audio
Dolby 6CH Eng	**Dolby 6CH Eng**
Dolby 2CH Eng	**Dolby 2CH Eng**
Dolby 2CH Span	**Dolby 2CH Span**

1 During playback, press the **AUDIO** button to access the AUDIO MENU.

2 Use the ▲/▼ keys to select an audio track and press **ENTER** to confirm.

3 Press **AUDIO** to exit the AUDIO MENU.

Subtitles

Most DVD discs include at least one subtitle track in one language. Subtitles are useful viewing movies in a foreign language or for hearing-impaired viewers.

1 During playback, press the **SUBTITLE** button to access the SUBTITLE MENU.

Subtitle
English
French
Spanish
Off

2 Use the ▲/▼ keys to select an available language and press **ENTER**. In this example, we have chosen Spanish subtitles.

Subtitle
English
French
Spanish
Off

3 To turn off Subtitles, press the **SUBTITLE** key to access the Subtitle Menu. Use the ▼ key to select OFF, then press **ENTER**.

Subtitle
English
French
Spanish
Off
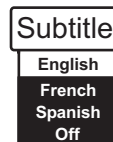
Displaying Playback Session Information

When playing a DVD or Video CD you can display the current title, chapter/track, elapsed playback time and other useful information with the **DISPLAY** key.

1 During playback, press the **DISPLAY** key to view available information.
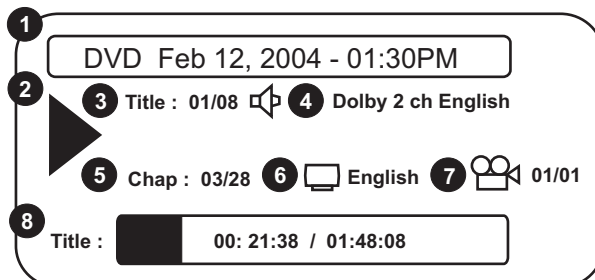
1 The type of video or file format displayed. Also displays the Date and Time of the unit.

2 Playback action icon designating current status: Play, Pause, Fast Forward, etc.

3 Title Number or File Name currently being displayed. Also displays total number of Titles on the disc.

4 Audio Track selected.

5 Chapter currently being played. Also displays chapters available.

6 Subtitle Language currently selected.

7 Angle selected and available angles on the disc.

8 Current playback and time remaining on the Title.

2 Press **DISPLAY** again to exit the menu.

Jumping to a Chapter or Time Point

The GOTO function provides a convenient way to navigate DVD, Audio CD and other discs by allowing you to select the Title, Chapter/Track or Time to jump to.

1 During playback, press the **GOTO** key to bring up the GOTO MENU.

Titles	Chapters	Time
01 /23	09 /33	
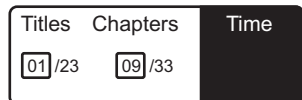
2 Use the ◀ / ▶ keys to choose Titles or Chapters. Use the ▲/▼ or the **NUMBER** keys to select a Chapter or Title to jump to. Use "**C**" key to clear any unwanted inputs. Press the **ENTER** key to confirm.

Titles	Chapters	Time
01 /23	09 /33	

3 To jump to a time on the disc, press ▶ to select the Time field. Use the ◀ / ▶ or **NUMBER** keys to enter the time. Use the ▲/▼ keys to move between to each desired time fields, then press **ENTER** to confirm your selection.

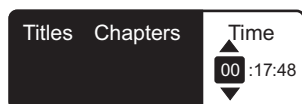| Titles	Chapters	Time
		00 :17:48

Repeating a Disc, Title or Chapter

To repeat a segment of a disc, use the **REPEAT 1/ALL** key. On DVDs, you can repeat a Title or Chapter. On VCDs, chapter and disc repeat is supported, but PBC must be disabled first (Press the **PBC** key). Audio CDs also allow repeat of tracks or the entire disc.

1 Press **REPEAT 1/ALL** during disc playback to set the Repeat Mode.

2 To return to normal playback, press **REPEAT 1/ALL** until the **REPEAT OFF** icon appears on-screen signifying that repeat play is cancelled.

Repeating a Segment You Define

The **REPEAT A-B** key lets you define your own segments to repeat.

1 During playback, when you reach the start of the segment you want to repeat, press the **REPEAT A-B** button. An icon, **REPEAT A**, is displayed on-screen, letting you know that the segment start point has been saved.

2 When you reach the end of the segment you want to repeat, press the **REPEAT A-B** button again. The **REPEAT A-B** icon is now displayed on-screen. The segment will now begin repeating.

3 To cancel repeat and resume normal playback, press **REPEAT A-B** again. The repeat icon on-screen changes to **REPEAT OFF**.

Bookmark

The BOOKMARK feature is used to mark a point on the disc to come back to later.

1 Press the PAUSE key to pause playback point in which you wish to add a bookmark before accessing the Bookmark Menu.

2 Press the **ENTER** key to create a Bookmark location. This location is created by a time stamp. To create another **BOOKMARK,** use the ▲/▼ keys to navigate to the next available BOOKMARK location and press the **ENTER** key again.

Bookmark
0 : 8 : 18
_ : _ : _
_ : _ : _
_ : _ : _
_ : _ : _
Clear All
ENTER - Add/Play
C - Clear
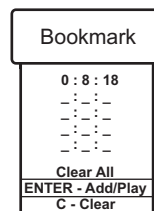
3 More controls can be accessed by using the ▲/▼ keys to navigate the menu. Select **CLEAR ALL** to remove all saved bookmarks. Use the **ENTER** key to begin playback of your selection. Use the "**C**" key to clear any unwanted individual bookmarks.

About the Screen Saver

When there is no activity or disc playback remains paused for a period of about 5 minutes, the Screen Saver will load, protecting the television from "screen burn", which could occur if an unusually bright image is displayed on-screen for an extended period of time.

Viewing JPG / Play Mp3 On-screen Player
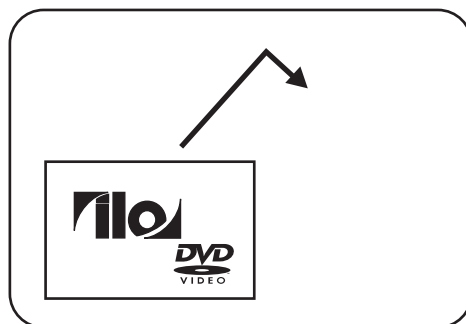
This unit can play an audio CD, JPG and Mp3 file on a disc. A handy on-screen player will appear automatically.

1 The file format.

2 The display bar for the file list.

3 Displays up to 10 music files at one time. Use the ▲/▼ keys to navigate this list.

4 Use the ◀/▶ keys to navigate the Action Menu.

5 Displays current and Action Menu functions.

6 Displays Total number of music tracks, Percentage of files played and Current Playback Function icon.

7 Displays the currently playing file selected play mode.

8 Progress bar and total time of the file.

Action Menu Icons

Press **ENTER** on any file to start the ACTION MENU.
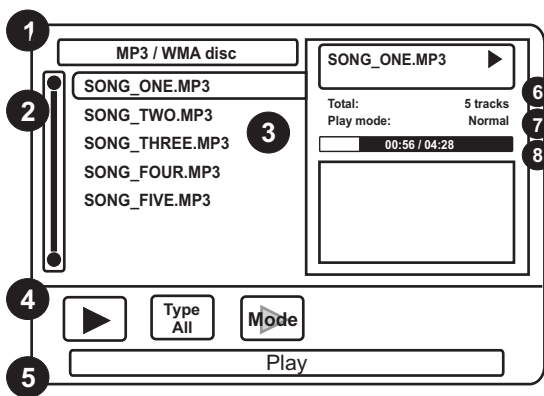
▶ **PLAY** - Begin playback of a file.

Type All **TYPE** - Select the desired file type to be listed on-screen. Choose from picture, music or all.

Mode **PLAY MODE** - Select from available playback modes including Shuffle, Repeat, Normal and more.

▫▫▫ **THUMBNAIL PLAY** - Begin thumbnail display playback mode.

📁 **FOLDER MODE** - Switches the FILE DISPLAY MODE to display the folders on a disc. (This option appears only in SPLIT MODE.

JPG Images & Slideshows

Inserting a JPG Disc

1 The above screen displaying the files on the disc will automatically begin. Please see above.

2 To display a JPG file, use the ▲/▼ keys to select a file then press **ENTER** or **PLAY** to display a file.

3 To begin a JPG SLIDE SHOW with the image you have selected, use the ▶ key and select the MODE icon and press ENTER. From the available menu options, select a playback mode. SLIDE SHOW play mode options include, shuffle, play all, etc.

4 Press the MENU or STOP key to exit the slideshow and return to the on-screen player.

5 During playback of JPG files, you can use the ▲/▼ and ◀/▶ keys to rotate either clockwise or counterclockwise.

MP3 file playback

Inserting a MP3 Disc

1 The disc will automatically begin playback of tracks beginning with the first one.

2 Use the ▲/▼ keys to select tracks you wish to playback, then press **PLAY** to begin playback. Use the ◀/▶ keys to navigate the Action menu items to select other playback features as listed above.

Notes
This unit supports CD-R/RW discs recorded with JPG and Mp3 files.

• JPG files must be named with the extension ".JPG"

• MP3 files must be named with the extension ".Mp3"

• JPG images must be saved with "standard" encoding, rather than "progressive" encoding.

• Discs created with personal computers may have problems playing due to differences in recording techniques. Compatibility with all recordable formats is not guaranteed.

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Recording to DVD Discs

With DVD+R/RW recording, you can create your own DVDs from your home movies, favorite TV shows or from other video sources.

DVD+RW

DVD+R

Think of DVD+RW (DVD+ReWritable) discs as the digital equivalent of your old VHS tapes. Like video tape, DVD+RW discs can be recorded to, erased and re-used. But unlike video tape, DVD+RW discs will retain their crystal-clear digital quality even after being erased and re-recorded over 1000 times! And, this superior quality will not degrade with the passage of time like VHS tapes.

A lower-cost alternative to DVD+RW, these "Recordable" discs cannot be erased. Once a recording is made to a DVD+R disc, the disc space used by that recording can never be reclaimed. DVD+R discs must be Finalized before they can be played back on standard DVD Players, and once this process is complete, no more recordings can be added. This is an important difference between DVD+R and DVD+RW Discs.

Recording- Rear Input Connections

REAR RECORDING INPUTS - There are (2) recording source inputs on the back panel, (1) S-VIDEO (referred to as "S-VIDEO 1") and (1) Composite Video (referred to as "VIDEO 1"). Note that both of these video inputs share the same stereo audio input.

Selecting an Input Source

You can easily select the AV input on this unit.

1 Connect the desired AV input source.

2 Press **SOURCE** and use the ◀ / ▶ keys to select your desired input source. Press **ENTER**.

3 You can now view the content from the AV source you connected to the unit.

4 Insert a recordable DVD +R or DVR +RW disc and press **REC** to begin recording.
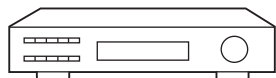
Audio/Video source such as DVD player or VCR with S- Video Out
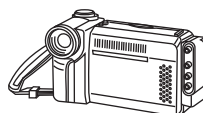
Audio/Video source such as camcorder supporting Composite Video Out

You may choose from the following input sources:

- **TV** - The DVD Recorder's built-in TV Tuner allows you to record your favorite TV programs.

- **VIDEO IN 1** - The Composite Video Input located at the back of the unit. Used for any video device with Composite Video Out.

- **S-VIDEO IN** - Located on the back panel, S-VIDEO provides a better picture than standard Composite Video. Use this input for camcorders or other video devices when possible.

- **VIDEO IN 2** - The Composite Video Input on the Front Panel.

- **DV IN** - The DV Input on the Front Panel.

The Recorder

RED

WHITE

YELLOW
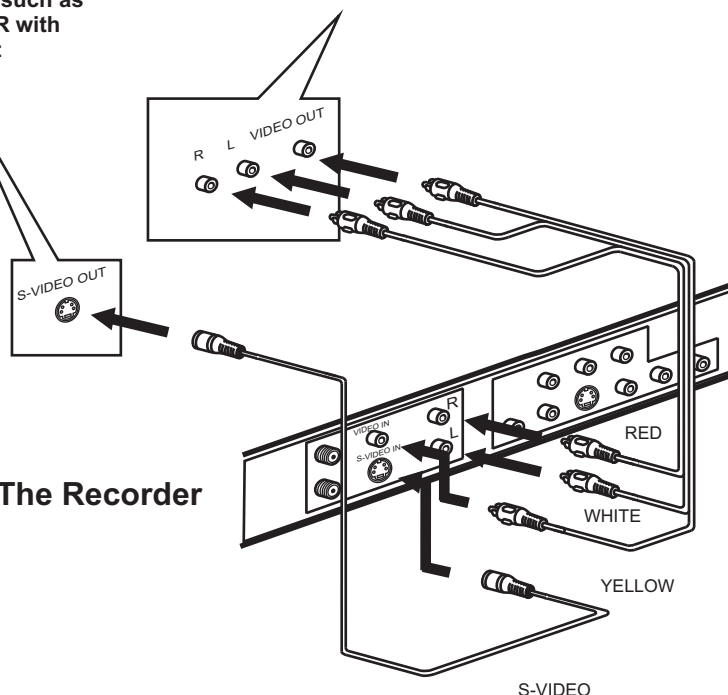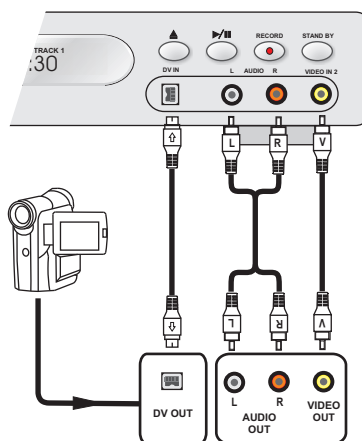
S-VIDEO

Controlling a DV Camcorder

You can use this unit's remote to control most camcorders that support the DV interface.

1 Connect the camcorder to the DV INPUT using a Digital Video (also called 1394 or Firewire) Cable.

2 Press **SOURCE** and use the ◀ / ▶ keys to select DV IN. Press **ENTER**.

3 You can now control the DV camcorder with this unit's remote. Available functions are: **PLAY**, **STOP**, **FF/FR** and **PAUSE**.

Making a Recording

Recording TV programs

You can easily record from your TV.

1 Press the **POWER** key on the remote control to turn on the unit.

2 Insert a recordable DVD disc.

3 Press the SOURCE key on the remote control and select the **TUNER** input.

4 Press the **CH+** or **CH-** keys to select the channel you wish to record.

5 Press the RECORD key to start recording. Recording continues until you press **STOP** or when the disc is full. The RECORDING icon appears on-screen, indicating the recording has begun.

Stopping a Recording

When you stop a recording, a new Title is created.

1 Press **STOP** to end a recording. The STOP RECORDING icon appears on screen.

2 After a few seconds, as the new Title you just recorded is closed, the RECORD SUCCESS icon appears on screen.

Pausing (CM SKIP) and Resume Recording

You can pause the recorder during a Live Recording.

1 Simply press **PAUSE** to temporarily halt recording. The PAUSE RECORDING icon appears on screen.

2 Press **REC** to resume recording session.

3 Another option is to press the **CM SKIP** key which will pause the recording for 30 seconds and automatically resume recording afterwards.

Specifying the Recording Time

At this point, recording has started with no specific end time, so you'll have to press the **STOP** key to manually end the recording. Alternatively, you can specify the length of the recording in 30-minute intervals by pressing the **REC** key repeatedly.

1 Press **REC** repeatedly to set the length of the recording in 30-minute intervals. Choose TIMEDREC OFF if you don't want to specify a recording length.

Finished Recording?

Upon completion of recording to a disc, you must **FINISH** the disc to be able to playback on other players.

1 With the completed recorded disc inside, press the OPEN/CLOSE key on the remote control or front panel when finished recording.

2 A Notification window will appear.

3 Select ENTER to FINISH the disc, or press the OPEN/CLOSE key again to eject the disc.

Using DISPLAY to View Recording Options

View useful information using DISPLAY.

1 Press **DISPLAY** while recording. The DISPLAY MENU appears as shown.
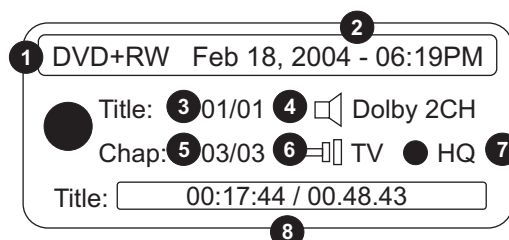
1 **Disc Type** - Disc format: DVD+R or DVD+RW
2 **Date and Time** - The system date and time.
3 **Title** - Displays Current Title, and Total Titles.
4 **Audio Mode** - Type of audio track being recorded.
5 **Chapter** - Displays the Current and Total Chapters.
6 **Input Source** - Displays selected input source.
7 **Record Mode** - Displays recording quality setting.
8 **Title** - Displays the length of the Title currently being recorded and time remaining on the disc.

The Title Screen

When you insert a DVD+RW or DVD+R disc, the Title Screen will appear. The Title Screen displays thumbnail and information for each Title (recording) on the disc. In the Title Screen, you can perform the following functions with your Recordings:

- **Play Titles or Chapters.**
- **Delete a Title of your recordings.**
- **Rename Titles and Disc Label.**
- **Erase a DVD+RW disc.**
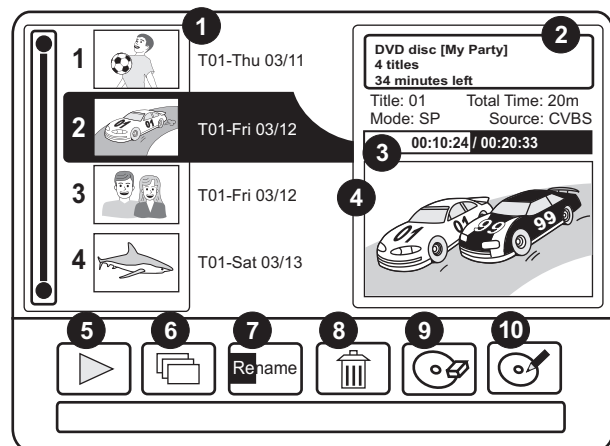
1. **Thumbnail Images** - Displays an image of the title.
2. **Disc Information** - Shows the Disc Label name, total number of titles on the disc and recording time remaining.
3. **Progress Bar** - Shows the current playback point and total length of the current title.
4. **Title Preview** - The current title is played in this window.
5. **Play Title** - Begins playback of selected title.
6. **Chapter Viewer** - See Chapter Previews and Play Chapters.
7. **Rename Title** - Rename the Title with the On-Screen Keyboard.
8. **Delete Title** - Delete the current title.
9. **Erase Disc** - Erase a DVD+RW disc.
10. **Rename Disc Label** - Rename the Disc Label.

Playing a Title

1 If the Title Screen is not displayed on screen, press **MENU** to bring it back.

2 Use the ▲/▼ keys to select the title you wish to play and press **PLAY**.

3 The Action Menu also can be used to playback a title. Use the ◀/▶ keys to select the **PLAY** icon and then press **ENTER**.

4 To return to the Title Screen, press **MENU**.

Playing a Chapter

1 Enter the Title Menu. Use the ▲/▼ keys to select the title that contains the chapter you wish to play.

2 Use the ◀/▶ keys to select the CHAPTER VIEWER icon and then press **ENTER**.

3 Use the ▲/▼ keys to select the chapter you wish to play and press **PLAY.**

4 Or use the ◀/▶ keys to select the **PLAY** icon and then press **ENTER**.

5 To return to the Title Screen, press **MENU**.

Renaming a Title

1 Enter the Title Menu. Use the ▲/▼ keys to select the Title you wish to rename.

2 Use the ◀/▶ keys to select the RENAME TITLE icon and then press **ENTER**. Use the on-screen keyboard to rename the title.

Delete a Title

1 Enter the Title Menu. Use the ▲/▼ keys to select the title you wish to erase.

2 Use the ◀/▶ keys to select the DELETE TITLE icon and then press **ENTER**.

Erase a Disc

1 Enter the Title Menu. Use the ◀/▶ keys to select the ERASE DISC icon and then press **ENTER**.

Rename Disc Label

1 Enter the Title Menu. Use the ◀/▶ keys to select the RENAME DISC LABEL icon and then press **ENTER**. Use the on-screen keyboard to rename the title.
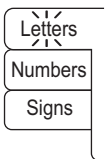
About the On-Screen Keyboard

The On-Screen Keyboard makes it easy to enter Text, Numbers and Various Symbols with your remote control.

```
┌─────────────────────────────────────────────┐
│                                               │
│ Letters  ┌Return┐                             │
│          │Exit  │              ┌─────────┐    │
│          └──────┘              │Clear all│    │
│ Numbers  ┌<< >>┐   1    2   3  ┌─────────┐    │
│          └─────┘  ( - # a b c  d e f │Clear│  │
│ Signs    < >                         │Back │  │
│          ┌Display┐ 4    5   6        ┌─────┐  │
│          │Done   │g h i j k l m n o │Display│ │
│          └───────┘                  │Done   │ │
│              7    8    9                       │
│             p q r s t u v w x y z             │
│                      0         ┌───────┐      │
│                Space bar       │CM Skip│      │
│                                │Caps   │      │
│                                └───────┘      │
└─────────────────────────────────────────────┘
```
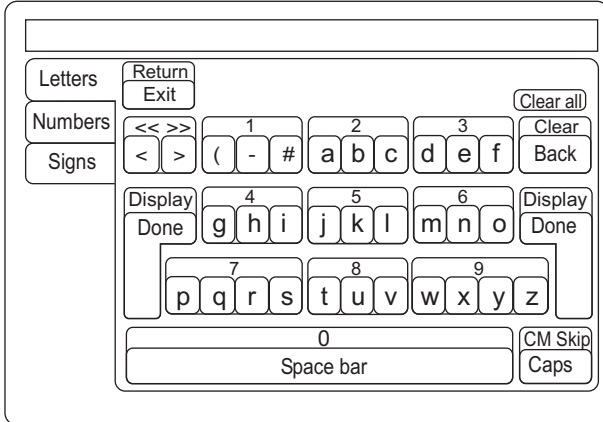
1 To select LETTERS, press the ◀ key to move to the TABS on the left of the virtual keyboard.

```
    Letters
    Numbers
    Signs
```

2 Use the ▲/▼ keys to select other keyboards.

3 Press the ▶ key to move to the virtual keyboard of your choice.

## Using the On-Screen Keyboard

There are two methods you can use to enter characters with the virtual keyboard:

1 **Use the HOT KEYS** - Each character in the Letters and Signs keyboards shows a hot key above it that corresponds to one on the remote control. Press this key repeatedly until the character you wish to enter is highlighted and then press **ENTER**.

For example, to enter the letter "S", press the **7** key four (4) times. Notice that the first letter is automatically capitalized.

```
          ╱── Hot Key
      7
   p  q  r  s
```
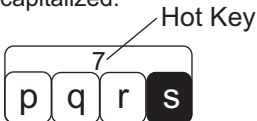
2 **Use the ▲/▼ and ◀/▶ keys** - Simply use the directional arrow keys to move to the character you wish to insert and then press **ENTER**.

```
      7
   p  q  r  s
```
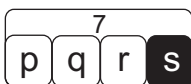
Deleting Characters

1 Press the **C** key or use the ▲/▼ and ◀/▶ keys to move to BACK and press **ENTER**.
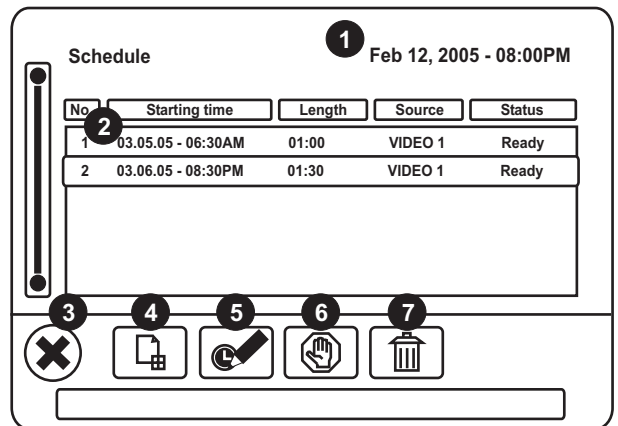
Saving Your Changes

1 To save your changes, select DONE by pressing **DISPLAY** or using the ▲/▼ and ◀/▶ keys to select DONE and then pressing **ENTER**.

Scheduled Recordings

Timer Recordings are designed for unattended operation, and will work when the recorder is in Standby Mode.

Scheduling a Recording

1 To Begin programming a scheduled recording, press the **SCHEDULE** button on the remote control This will access the recorder's Schedule Screen.

No.	Starting time	Length	Source	Status
1	03.05.05 - 06:30AM	01:00	VIDEO 1	Ready
2	03.06.05 - 08:30PM	01:30	VIDEO 1	Ready

Schedule — Feb 12, 2005 - 08:00PM

1 **Current Time** - Current time of the clock.

2 **Events** - Total scheduled recording event(s).

3 **Close Screen** - To close the Schedule Screen.

4 **Add New Schedule Recording** - Choose to Add a New event to the Schedule.

5 **Edit Schedule** - Choose to Edit the Schedule.

6 **Suspend/Ready*** - Change the status of the schedule - Ready or Suspended.

7 **Delete** - Delete the current schedule.

2 Before any schedules have been entered, the NEW SCHEDULE RECORDING screen will appear by default.

New Scheduled Recording		
Start Time:	08:00 PM	03/05/05
End Time:	09:00 PM	03/05/05
Source:	◀ Tuner	36
Recurrence:	Once	▶
Quality:	◀ SP(2 Hours)	▶
	Add	Cancel

Scheduled Timer Recordings

Setting Beginning and Ending Times

1 By default, the START and END times are set to the current time and one hour later, respectively. The START and END dates are set to the current date.

2 To change a time or date field, use the ▲/▼ and ◀/▶ keys to navigate the screen. To select a field to change, press **ENTER**.

```
▲
08:00 PM
▼
```

3 With Time fields, select the 10's or 1's digit to change, with increments of 10 minutes or 1 minute, respectively.

```
▲
08:05 PM
▼
```

4 Press **ENTER** to save your changes and exit edit mode for the current field.

5 Next, select an input source or TV channel to record from with the ◀/▶ keys. For TV channels, use the number keys to specify your selection.

```
Video 1    ▶
```

The Recurrence setting indicates when the scheduled recording will take place or repeat.

ONCE (No Repeat) - One time recording, specify a Time, Date, etc. This event is deleted after the recording

DAILY - The recording is repeated every day and the date setting is ignored.

WEEKLY - The recording is repeated once each week on the day specified in the START and END times.

1 Select a Recurrence option with the ◀/▶ keys.

```
◀      Daily      ▶
```

Setting the Quality Mode

1 Specify the Recording Quality mode you wish to use for the recording with the ◀/▶ keys.

```
HQ(1hour) ▶
```

Saving the Schedule

1 Select ADD and press **ENTER** to add the entry to the schedule list when all parameters are set.

To Cancel adding a new schedule, use ▶ to move to the CANCEL field and press **ENTER**.

2 To exit the Schedule Screen, press **SCHEDULE**.

Editing a Saved Schedule

1 To change a recording schedule, press the **SCHEDULE** key to access the Schedule Screen.

Schedule			28 Feb 2006 - 08:00PM	
No.	**Starting time**	**Length**	**Source**	**Status**
1	03/05/05 - 08:30AM	01:30	1	Ready
2	Wed - 10:30AM	01:00	Svideo	Ready

2 Use the ▲/▼ keys to select the entry you wish to edit.

3 Use the ◀/▶ keys to select the EDIT RECORDING icon and press **ENTER**.

4 Edit the schedule's settings with the same procedure outlined earlier for new recordings.

5 Exit the Schedule Screen at any time by pressing **SCHEDULE**.

Suspending / Activating a Schedule

Temporarily suspend a recording schedule and then enable it again with the Schedule Screen's Action Menu.

1 Press **SCHEDULE** to access the Schedule Menu.

2 Use the ▲/▼ keys to select the entry you wish to suspend or activate.

3 If the schedule you selected is currently enabled, the SUSPEND icon is shown. Use the ◀/▶ keys to select it and press **ENTER** to disable the schedule.

Notice the icon to the left of the schedule number. The **STATUS** will also change to **SUSPEND**.

⊘ 2	03.06.05 - 08:30PM	01:30	VIDEO 1	Suspend

To activate a suspended event, select this icon with the ◀/▶ keys and press **ENTER.**

The icon to the left of the schedule disappears and the **STATUS** displays **READY**.

Deleting a Saved Schedule

1 Press **SCHEDULE** to access the Schedule Menu.

2 Use the ▲/▼ keys to select the entry you wish to delete.

3 Use the ◀/▶ keys to select the **DELETE** icon and press **ENTER**.

**4** Press **SCHEDULE** to exit the Schedule Screen.

About the SETUP MENU

The DVD Recorder's SETUP MENU is where various settings are configured, including setting the Clock, Recording Options, Playback Options, Languages, Parental Control Settings and more.

Using the SETUP MENU

It's easy to change the recorder's settings with the SETUP MENU. To demonstrate, let's change the TV SHAPE setting to 16:9, as you would if you were using the recorder with a WIDESCREEN TV.

1 Press **SETUP** to enter the SETUP MENU.
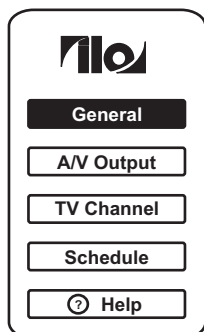
2 Use the ▲/▼ keys and press **ENTER** on the desired feature. A sub-menu appears. (At this point, you could return to the main menu with the ◄ key.)
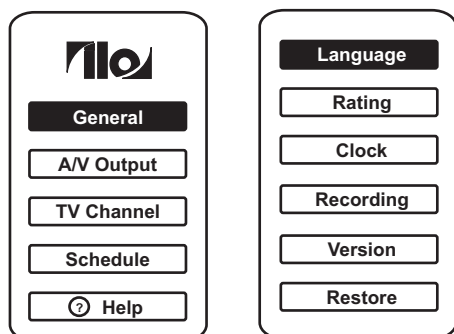
3 Select the desired sub features with the ▲/▼ keys and use the ▶ to navigate.

4 To change or select features, use the ▲/▼ and ◄/▶ keys to select an option. Press the ◄ key to return to a previous level and the **SETUP** key to exit altogether.
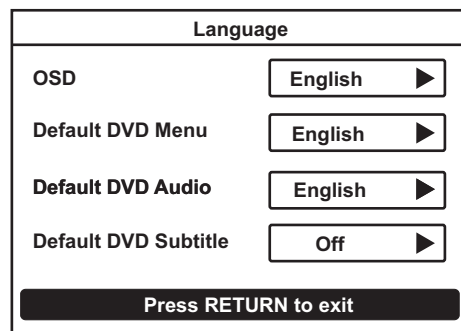
Note

Depending upon the disc, some Setup Menu selections are not available.

General - Language Settings

The DVD Recorder's language setup options including OSD, menu, audio and subtitles.

OSD

Default setting: **ENGLISH**

Sets the language used by the SETUP MENU and ON-SCREEN DISPLAY. **ENGLISH** (Default) and **SPANISH** are supported.

Default DVD Menu

Default setting: **ENGLISH**

Sets the default language used by DVD Menus. As an example, if a DVD disc contains multiple menu languages, such as Spanish and English, and this setting is set to SPANISH, then the Spanish menu will be used. The DVD must support multiple menu languages for this setting to work. Choices are: **ENGLISH**, **SPANISH** and **FRENCH**.

Default DVD Audio

Default DVD AUDIO

Default setting: **ENGLISH**

Sets the default audio track used by DVDs. For example, if a DVD disc contains multiple audio tracks, such as Spanish and English, and this setting is set to SPANISH, then the Spanish audio track will play as the default. The DVD must support multiple menu languages for this setting to work. Choices are: **ENGLISH**, **SPANISH** and **FRENCH**.

Default DVD Subtitles

SUBTITLES

Default setting: **OFF**

Sets the default subtitle language used by DVDs. For example, if a DVD disc supports multiple subtitle languages, such as Spanish and English, and this setting is set to **SPANISH**, then Spanish subtitles will be displayed by default. The DVD must support the language selected for this setting to work. Choices are: **ENGLISH**, **SPANISH**, **FRENCH** and **OFF**.

General - Rating

Parental Rating	
Password :	
Level :	◄ 8. Adult
Change Password :	
Press RETURN to exit	

Parental Options

Default setting: **8. ADULT**

Your DVD Player features a Parental Control option. By default, this option is set to the **ADULT** level, which will allow play of all discs. Available options include:

Rating	Description
1. Kid Safe	Suitable for all audiences.
2. G	Suitable for general audiences.
3. PG	Parental guidance suggested.
4. PG-13	Parental guidance suggested, unsuitable for children under 13.
5. PG-R	Parental Guidance Recommended - implications or very brief discreet language or situations.
6. R	Restricted, violence, adult language and situation unsuitable for young viewers.
7. NC-17	Adult theme or content, not suitable for children under 17.
8. Adult	Adult themes, language and nudity.

Changing the Parental Setting

Parental Rating	
Password :	
Level :	◄ 8. Adult
Change Password :	
Press RETURN to exit	

1 First, you must enter a valid password. If you have defined your own user password, enter that value. Otherwise, use the factory password: **3351**.

2 Move to the Rating field with the ▼ key.

3 Use the ◄ / ► keys to select a Rating Level.

4 Use the ▼ key to move to OK and press **ENTER**.

Defining and Changing the Password

You can setup your own USER PASSWORD to use in addition to the built-in FACTORY PASSWORD, and then change this value at any time. This is useful to give another party temporary access to the parental control settings.

Change Password	
Old password:	* * * *
New password:	
Confirm password:	
Ok	Cancel

1 The first time you define a user password, enter the factory password, **3351**, in the OLD PASSWORD field - the factory password is not changed. After you have defined a user password, you would enter that value in this field. *If you forget the value of your user password later, you can always use the factory password to change the value.

2 Move to the NEW PASSWORD with the ▼ key.

3 Use the **NUMBER** keys to enter your new user password using a maximum of 4 digits.

4 Move to the CONFIRM PASSWORD with the ▼ key.

5 Use the **NUMBER** keys to enter your new user password using a maximum of 4 digits.

6 Use the ▼ key to move to OK and press **ENTER**.

(i) **Security Note**

Remember to keep in mind that since the MASTER PASSWORD is listed above, your player may not be secure if this manual is accessible by your children.

General - Clock

Clock	
Clock Settings	06:55 PM
Date Settings	03.02.05
Time Format:	12 HR ►
Press RETURN to exit	

The time and Date values to determine when to begin and end Scheduled Recordings.

Time and Date Settings

1 Use the ▲/▼ and ◀/▶ keys to select a time or date field to change.

2 To edit a field, press **ENTER**.

3 Use the ▲/▼ keys to increase or decrease the value of the field.

4 To exit a field, press **ENTER**.

5 Press **SETUP** to exit the CLOCK SETTINGS MENU.

Time Format

Select either 12HR (normal civilian time) or 24HR (military time) time mode.

1 Use the ▲/▼ to select the Hour Mode field.

2 To edit a field, press **ENTER**.

3 Use the ◀/▶ keys to select an option.

4 Press **SETUP** to exit the CLOCK SETTINGS MENU.

General - Recording

Recording	
Quality	**SP(2 Hours)** ▶
Auto CH mark	◀ **5 min** ▶
Recording Volume	[▬▬▬▬▬] **100**
Press RETURN to exit	

Recording Quality Mode

Default setting: **HQ (High Quality)**

The Quality setting determines the quality of your recordings as well as the maximum amount of video you can record on a disc. Not surprisingly, the higher the quality, the less video can be recorded.

Mode	Quality	Max Time
HQ (High Quality)	Highest	1 HR
SP (Standard Play)	Excellent	2 HRs
LP (Long Play)	Very Good	3 HRs
EP (Extended Play)	Better than VHS	4 HRs
EP+ (Extended Play+)	Equal to VHS	7 HRs
SLP (Super-Long Play)	Lower than VHS	8 Hrs

1 Use the ◀/▶ keys to select the QUALITY setting you wish to use.

2 Press **SETUP** to exit the RECORDING MENU.

Chapter Mark

Default setting: **5 min**

Control whether or not Chapter Markers are automatically inserted during your recordings. You can select the interval from **5**, **10** or **15** minutes, or turn this feature **OFF**.

1 Use the ◀/▶ keys to select an option.

2 Press **SETUP** to exit the RECORDING MENU.

Recording Audio Volume

Default setting: **100**

Use this setting to adjust the volume of the audio for your recordings. The default setting of 100 sends 100% of the signal from your input to the recording. You can decrease this value if you wish, all the way to **0** which will result in no sound on the recording.

1 Use the ◀/▶ keys to decrease/increase the audio volume.

2 Press **SETUP** to exit the RECORDING MENU.

General - Version

Displays various versions of the unit.

General - Restore

Restore	
This action will restore the factory defaults. Are you sure you want to continue ?	**!**
Yes	**No**
Press RETURN to exit	

Selecting Yes will restore factory defaults to your unit.

A/V Output - Video

Video	
TV Shape	◀ **4:3 Pan Scan** ▶
Standard Output	NTSC
Scan Mode	**Interlace** ▶
Output	**S-Video** ▶
Press RETURN to exit	

TV Shape (Aspect Ratio)

Default setting: **4:3 Pan Scan**

By default, this option is set for normal TVs with 4:3 aspect ratio. Unless you're sure you have a WIDESCREEN TV, do not change this setting. The 4:3 Letter Box setting is meant to enable the "Letterbox" view on DVDs that contain both Letterbox and Pan/Scan versions.If you are using a wide screen TV, set this option to **16:9** to match the aspect ratio of your TV.

1 Use the ◀ / ▶ keys to select an option.

2 Press **SETUP** to exit.

Standard Output

Default setting: **NTSC**

Your DVD Player will work with TVs based on the NTSC. NTSC is the standard TV system in the USA and others.

Scan Mode

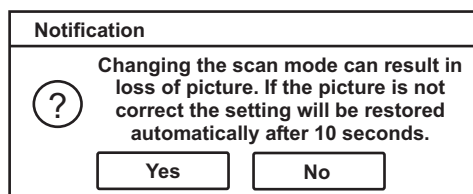Default setting: **Interlace**

Normal TVs scan only in "interlaced" mode, because the odd and even lines are interlaced together in alternate scans. Progressive Scan is a scanning method offered on high-end Tvs.

(i) **Caution**

Do not change the Scan Mode setting unless you are sure that your TV supports Progressive Scan.

1 If you have a P-SCAN TV, use the ▶ key to change the scan mode to **Progressive**. A notification will appear, if you do not have P-SCAN TV, the picture will be restored to your previous setting.

Notification
(?) **Changing the scan mode can result in loss of picture. If the picture is not correct the setting will be restored automatically after 10 seconds.**
Yes **No**

**2** Press **SETUP** to exit the VIDEO MENU.

Output

Default setting: **S-Video**

Your DVD Player will work with televisions supporting various video inputs including composite, S-Video, component and Progressive Scan.

1 When using the composite or S-Video connection, select **S-Video**.

2 If you plan to use the component connection, use the ▶ key to change the output to **Component**.

3 Press **SETUP** to exit the VIDEO MENU.

A/V Output - Picture

Picture	
Brightness	▬▬▬▯▬▬
Contrast	▬▬▬▯▬▬
Press RETURN to exit	
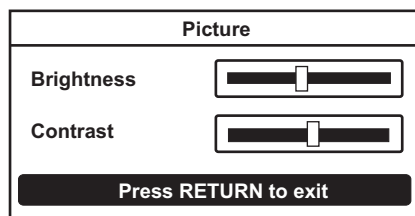
1 Use the ▲ / ▼ keys to select Brightness or Contrast and the ◀ / ▶ keys to decrease or increase the value.

A/V Output - Audio

Audio	
Digital output mode	◀ PCM
Dynamic range control	◀ OFF
Press RETURN to exit	
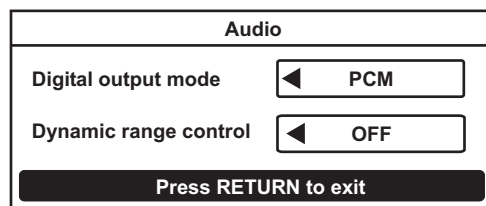
Digital Output Mode

Default setting: **RAW**

Determines the audio format output by the Optical and Coaxial Digital Audio Output. When playing a Dolby 5.1 soundtrack, leave the setting on **RAW** to output the encoded digital signal to a Digital Receiver with a Dolby 5.1 Decoder. If your receiver is not capable of decoding a Dolby signal, use the **PCM** setting.

When playing CDs, leave this setting at **PCM** to output a stereo signal on the Digital Output.

1 Use the ◀ / ▶ keys to select an option.

2 Press **SETUP** to exit the AUDIO MENU.

Dynamic Range Control

Default setting: **OFF**

Dynamic Range Control, also called "Midnight Mode" reduces the variations between loud and soft sounds in DVD movies. This lets you turn the volume up to hear softer sounds and dialog, and not worry about extremely loud scenes disturbing others.

1 Use the ◀ / ▶ keys to select OFF or ON.

**2** Press **SETUP** to exit the AUDIO MENU.

TV Channel Setup

AUTO SCAN automatically scans for available channels. The unit saves those channels received at sufficient signal strength. This subject was discussed earlier. Further topics include skipping/showing channels.

Set Channels

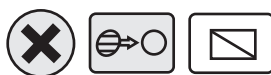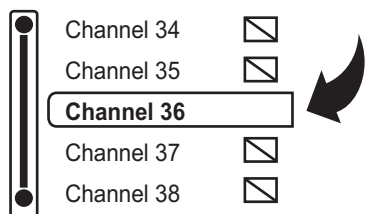Here is where you can customize your channel list by SKIPPING or SHOWING any channel you choose.

1 Select the TV CHANNEL option from the SETUP MENU and press **ENTER**. You will see a list of all possible channels. The SKIPPED icon to the right of a channel means it was not detected during the AUTO SCAN.

Channel 34
Channel 35
Channel 36
Channel 37
Channel 38
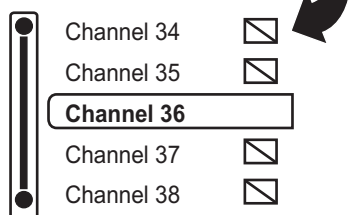
2 Use the ▲/▼ keys to select a channel you wish to SKIP and press **ENTER**. The SKIPPED icon appears to the right of the channel, letting you know that it will no longer be accessible when you scan through the channels with the ▲/▼ keys while watching TV. You can, however, select any channel directly with the **NUMBER** keys.

Channel 34
Channel 35
Channel 36
Channel 37
Channel 38
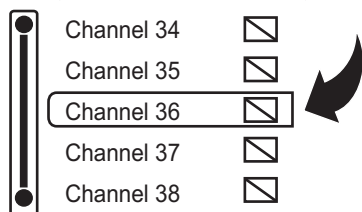
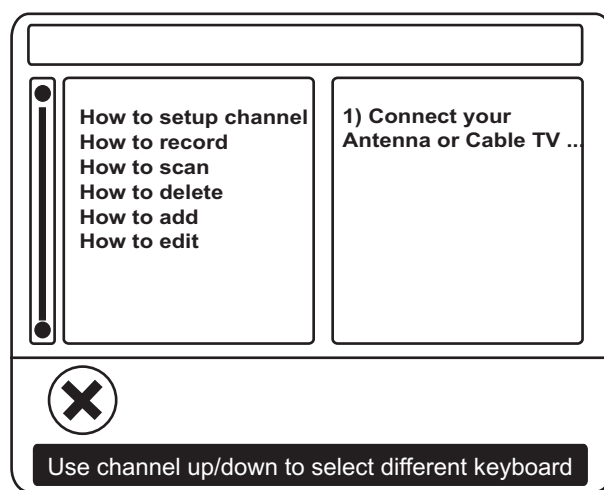**3** To show any channel again after it has been skipped, simply select the channel and press the ▶ key to select the "SKIP ITEM" icon and press **ENTER**. The SKIPPED icon is removed.

Channel 34
Channel 35
Channel 36
Channel 37
Channel 38

4 Press **SETUP** to exit the SETUP MENU.

HELP Menu

How to setup channel
How to record
How to scan
How to delete
How to add
How to edit

1) Connect your
Antenna or Cable TV ..

Use channel up/down to select different keyboard

Help Topic

You can use this friendly feature to easily access step-by-step instructions and other helpful information on various subjects related to your unit.

1 Press **SETUP**, and use the ▲/▼ keys to select **HELP** and press **ENTER.**

2 Use the ▲/▼ keys to select a HELP topic. Use the ◀/▶ keys to navigate between the windows and the ▲/▼ keys to scroll through content.

3 Press **ENTER** to exit the HELP menu and **SETUP** to exit.

The DVD Recorder Does Not Power On	• The AC Power cord may be loose or not plugged in. Make sure the power cord is secure in the AC socket and the connector on the back of the player. • The unit may be in Standby Mode. Turn the player on with the remote POWER button, or if you are using a power strip, make sure the switch is switched ON. • There must be a pause between powering the unit down and back on of a few seconds.
A Specific Disc Does Not Play	• The disc may be dirty. Try cleaning the disc. • Make sure the disc is not in upside-down • The REGION CODE of the disc may not match that of the player. In this case, the disc cannot be used.
The Remote Control Does Not Function	• Make sure you're aiming the remote directly at the player's remote sensor, located in the front display. • Make sure there are no obstacles between the remote and the player. • The batteries may be drained. Try changing the batteries in the remote. • You could be using the remote too far away. Try within 4 meters of the player.
There is No Picture on the TV Screen	• Make sure the connections from the player to the TV are secure. • Verify that the TV's channel is set to match the video input you're using. Refer to the TV's documentation. On most TVs the "Aux In", "Video In" or "A/V In" channel should match the video input connector. • If you're using the S-Video connector, the TV may have a separate input channel for this type.
The Picture Appears Stretched or Squeezed	• The Video Aspect Ratio may be set wrong for your Television type. • Enter the SETUP MENU and select the A/V OUTPUT ▶ VIDEO menu. Try changing the TV SHAPE setting to 4:3 PanScan (Pan & Scan) if you are using a standard TV, or 16:9 Wide if your TV is a widescreen type.
Live Recording Will Not Start	• The Video Input Source may be protected with MacroVision Copy Protection. • The disc may already contain recordings of a different TV System type - PAL or NTSC. If the disc already contains a PAL recording, you cannot record from an NTSC source, and vice versa. • The maximum number of titles or chapters may have been reached. • If the disc is a DVD+R, it may already be FINALIZED.
The Disc Cannot be Erased	• The disc is not a DVD+RW disc. • The disc may be dirty. Try cleaning the disc.
Recordings Do Not Play on Other DVD Players	• If the disc is a DVD+R, make sure it has been FINALIZED. • The DVD Player may not support DVD+R/RW discs.
Timer Recording Does Not Begin as Scheduled	• The Time/Date is invalid or conflicts with another schedule. • The Time/Date settings of the Recorder are incorrect. Set the Time/Date in SETUP. • The specified Video Input Source is unavailable. • The disc is out of space.
The Disc Doesn't Eject	• If the player is in Standby Mode with the glowing LED to the left of the disc tray, the disc will not eject. Turn the player on with the Remote Control and then eject the disc.
Distorted Picture when Connected to a VCR or VCR/Combo TV	• This DVD Recorder is built with Macrovision copy-protection. This will distort the signal when used with VCRs. Connect the player directly to the TV. Some VCR/TV combos may be incompatible with DVD players.

Disc Types Supported	Playback	DVD+RW, DVD+R, DVD-RW, DVD-R, DVD-Video, VCD/SVCD, CD-Audio, CD-R/RW
	Recording	DVD+RW and DVD+R
Recording	Media	DVD+RW and DVD+R
	Diameter / Capacity	12cm / 4.7GB, 8cm/1.4 GB
	Recording Time	Maximum 8 Hours (SLP Mode)
	TV Systems	NTSC
	Resolution	720x480 NTSC
	Recording Features	Pause Record, Auto-Insert Chapter, Index Screen Navigator, Multiple Quality Modes
	Editing Features	Erase Disc, Finalize DVD+R, Delete Title, Edit Volume Label, Rename Title
DVD Playback	Playback Modes	Fast Forward / Reverse, Slow Motion Playback, Repeat Playback (Chapter/Title/Disc & A-B)
	Images & Music	MP3 Player with custom play list, repeat & shuffle modes JPG Slideshow with Thumbnail preview
Video Performance	DA / AD Converter	10-bit / 9-bit
	Video Outputs	Composite, S-Video, Component (Y, Pb, Pr)
	Laser	650nm
Audio Performance	DA / AD Converter	24-bit / 24-bit
	DVD Linear Sound	48kHz Sampling - 4Hz to 22kHz / 96kHz Sampling - 4Hz to 44kHz
	Audio CD	4Hz to 20kHz
	Signal to Noise Ratio	>90dB
	Audio Dynamic Range	>90dB
	Harmonic Distortion	< 0.001% (W.PEAK)
Input Connections	S-Video	Mini DIN 4-Pin (75 Ohm) (Front/Rear)
	Composite Video	One Pin Jack, 1Vp-p (75 Ohm) (Front/Rear)
	Analog Audio (Stereo)	2.0VRMS (470 Ohm) x2 (Front/Rear)
	DV (Digital Video)	DV IN 1394 Standard Connector (Front)
Output Connections	Component Video	Y - 1.0Vp-p (75 Ohm), Negative Sync / Pb/Pr - .7Vp-p (75 Ohm)
	S-Video	Mini DIN 4-Pin (75 Ohm)
	Composite Video	One Pin Jack, 1Vp-p (75 Ohm)
	Coaxial Digital	One Pin Jack, .5Vp-p (75 Ohm)
	Analog Audio (Stereo)	2.0VRMS (470 Ohm)
Physical	Operating Conditions	5º C to 35º C
	Power Supply	AC 100V~230V, 50/60Hz
	Dimensions	65mm x 430mm x 350mm (H x L x D)
	Weight	4lb 9 oz / 2.07kg