

## Controls & Connections

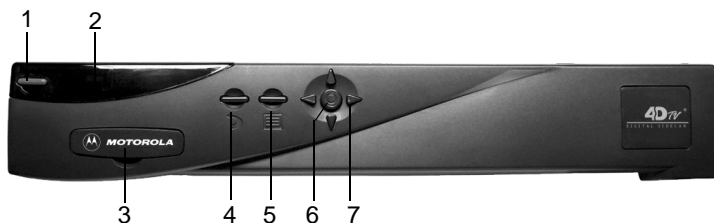
*Some analog products may generate excessive heat and may be adversely affected if ventilation slots are blocked. Do not stack your Digital Sidecar on top of your existing analog satellite receiver.*

*Do not plug in the Digital Sidecar until after you complete all of the connections. After plugging in your receiver, allow it to "warm up" for 30 seconds before using it.*

### Front Panel Descriptions

Most viewers find it more convenient to use the keys on the remote control rather than the keys on the front panel of the receiver. Although there are far fewer keys on the receiver, they still allow you to control most functions.

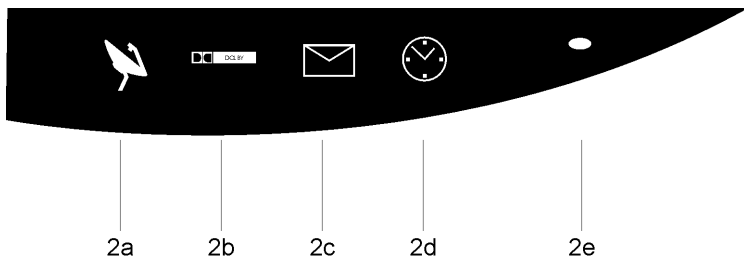
Turn the power off (POWER key) when you are finished watching programs. This will automatically return the picture to the output of your existing analog IRD.



### Front Panel Descriptions

**1. Power.** Press this key to turn on the power to the Digital Sidecar receiver, enabling you to watch programs.

**2. Front Panel Display.** This area displays the various indicators while you are viewing programs. An indicator flashes each time you press a remote key.



**2a. SIGNAL(dish icon).** An indicator lights up when a satellite signal is present. Green indicates a good signal. Red indicates no signal.

**2b. DOLBY® DIGITAL.** This LED is on if the unit is receiving Dolby Digital audio.

**2c. MAIL (envelope icon).** This indicator lights up when there is a digital Electronic Personal Mail (EPM) message waiting for you.

**2d. TIMER.** A steady light indicates the timer is on. This indicator flashes when the timer system is within two minutes of being activated.

**2e. REMOTE.** An indicator dot blinks each time you press a key on the remote.

**3. TVPASS® CARD.** Your distributor may use an authorization feature called the TVPass card. This plastic card "module" fits into a slot on the lower left corner of the receiver's front panel.

**4. GO BACK.** Press this key to return to a previous menu or the last channel viewed.

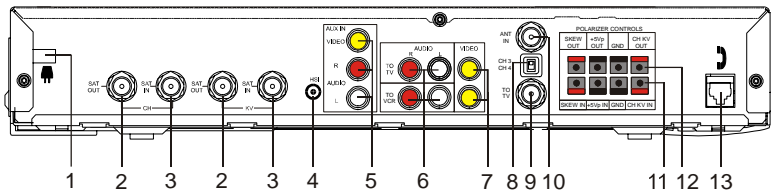
**5. MENU.** Press this key to display the Menu screen. Press it again to turn off the Menu and return to a 4DTV mode program. If you cannot find your remote control press the menu key to control the receiver.

**6. ENTER.** Press this key to select a highlighted menu option.

**7. ARROW KEYS.** Press the ◀ ▶ keys to highlight selections from menu screens. If you are watching a program in the digital mode, press the ◀ ▶ keys to fine-tune the SKEW.

## Connecting Components

The Digital Sidecar is designed to function as an addition to an existing, properly operating TVRO satellite system. You must use an analog receiver to move the dish to the various satellites, as well as to receive VCRS and clear analog programming. It is vital that your system perform properly prior to installing the Digital Sidecar. If you need assistance in optimizing the performance of your analog reception system, please contact a qualified dealer. Using the cables provided connect the following input/output terminals from your analog IRD, TV, VCR and/or audio equipment to the Digital Sidecar. At the end of this chapter are examples of common connection diagrams.



### Back Panel Descriptions

#### 1. AC Power, AC 120V 60 Hz 50W.

*Do not plug in the Digital Sidecar until after you have completed all of the connections.*

This is a 120V main connection. Connect the supplied power cord only to an outlet that accepts a polarized plug (one prong wider than the other, allowing insertion in *only* one position). When you plug in the receiver it will automatically enter a "warm up" mode. The receiver will not respond to remote control or front panel commands until it has completed the "warm up" mode.

**2. SAT OUT Output to Analog Receiver.** These connectors relay the LNB signal to your existing analog satellite receiver. Connect a coaxial cable from the C/H output to the C-Band (or horizontal LNB input if you are using a dual LNB system) on your analog receiver. Connect a coaxial cable from the K/V output to the Ku Band (or vertical LNB input if you are using a dual LNB system) on your analog receiver.

**3. SAT IN.** This terminal receives L-Band input from the LNB at the feedhorn of your satellite dish.

- C/H - Connect the coaxial cable from the C-Band LNB of the satellite dish. If the satellite dish requires separate horizontal and vertical connections to the receiver, attach the horizontal (H) LNB cable to this terminal.
- K/V - Connect the coaxial cable from the Ku-Band LNB of the satellite dish. If the satellite dish requires separate horizontal and vertical connections to the receiver, attach the vertical (V) LNB cable to this terminal.

**4. HSI Data Output.** The HSI data port is designed to connect to the HDD200 High Definition Decoder. To receive high definition television signals you will need a special HDTV monitor capable of displaying a 1080i television image and the HDD200 decoder. You **must** use the HDD200 decoder. Please contact your local dealer, or visit our web page <http://4dtv.com> for more information about the HDD200 decoder.

**5. Audio/Video Input.** Connect the audio and video output from your analog IRD to these terminals. When the Digital Sidecar is in either the stand-by position or the analog mode the signal fed to these terminals will be passed to your television.

**6. Audio Out (Right and Left).** These are audio output connectors. The volume output is held at a constant volume on both sets.

**7. Video Out.** This is a standard composite video connection terminal. Connect this port to the appropriate input on your television monitor or home theater system receiver using the video cable supplied with your unit.

**8. CH3 CH4.** This switch determines the channel (3 or 4) to which you set your TV to receive satellite broadcasts. The setting should be the same as the TV setting for use with your VCR (usually channel 3).

**9. To TV.** This supplies the VHF antenna signal to your television. Connect one end of the coaxial cable (supplied with your unit) to this terminal. Connect the other end to the antenna or auxiliary RF input of your television. *Note: This connection should be removed from the existing analog receiver.*

**10. ANT IN.** This is an antenna terminal. Connect it to your TV antenna or cable system lead wire. *Note: This connection should be removed from the existing analog receiver.*

**11. Polarizer Control (SKEW IN, +5VP IN, GND, CH/KV IN).**

Using the length of wire supplied, connect these terminals to the skew control terminals on your analog IRD. Connection is identical to above and relays the signal through the Digital Sidecar to your receiver.

**12. Polarizer Control (SKEW OUT, +5VP OUT, CH/KV OUT, +5V, GND).** Your Digital Sidecar requires the ability to control the skew of the system while changing digital channels. When the unit is in the standby or analog position, control of skew will be passed on to your analog IRD. If your system uses a servo-motor to change skew you will remove the three wires currently going to your analog receiver to these terminals and connect to the Digital Sidecar. If your system uses an LNBF, you will not connect anything to these terminals.

These terminals connect your Digital Sidecar to the polarizer or, in some cases, to a coaxial relay switch. Connection is determined by the requirements of the feed-horn and other dish components. These are the leads that are coming in from the satellite dish and are currently connected to your analog IRD.

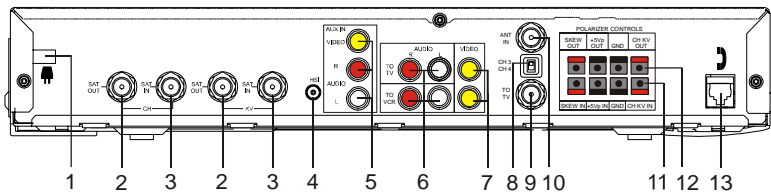
**SKEW OUT-** Connect this terminal to the wire (usually white) that is connected to the feedhorn skew adjustment. "SKEW" is labeled "PULSE" on some models.

**CH/KV OUT** - This connection is not normally used. It is designed for systems that utilize an external relay to switch between horizontal and vertical satellite transponder reception. A voltage pulse is present at this port every time you change from an odd to an even channel, triggering the external relay. Leave this connection blank unless your system uses an external relay switch.

**+5VOUT** - Connect this terminal to a 5V polarizer wire (usually a red wire).

**GND** - Connect this terminal to the polarizer ground wire (usually a black wire).

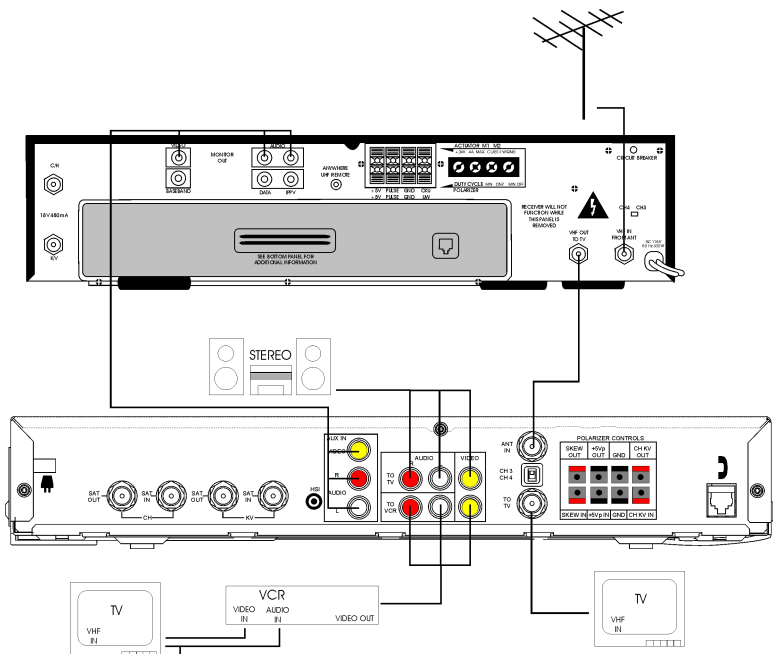
**13. Telco.** This is a standard RJ-11 telephone jack connection. The connector is utilized for future use of the Pay-Per-View functions.



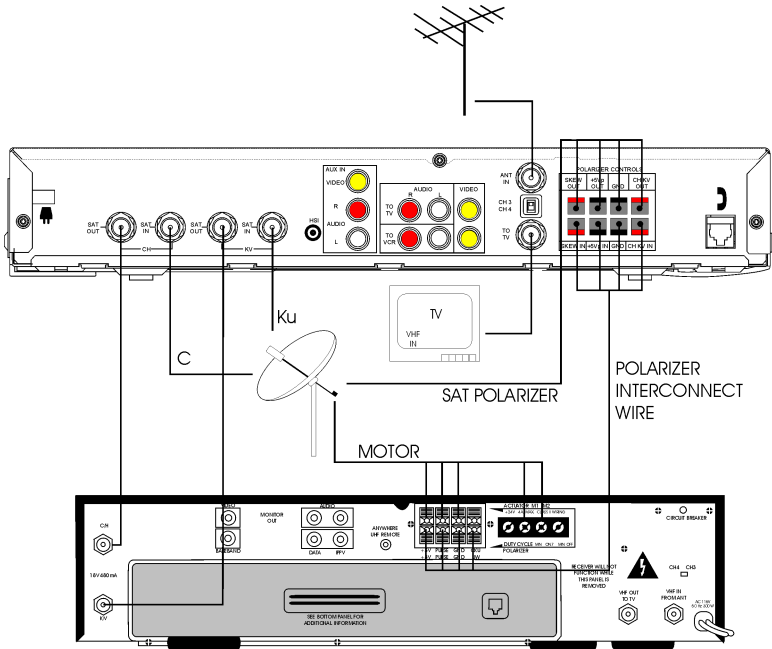
## Connection Diagrams

The following diagrams show the most common types of connections.

After plugging in your Digital Sidecar, allow it to "warm up" for 30 seconds. Tune your TV to channel 3 or 4 (the channel you use for your VCR).



### Audio/Video Connections



## LNB/Polarotor Satellite Dish Wiring Connections

