

SONY[®]

X-XXX-XXX-XX

Digital Satellite Receiver/Recorder

Installation Guide

Before you begin using your Digital Satellite Receiver/Recorder:

- Make sure your Satellite Dish Antenna is properly installed.
- Follow the steps in "Connecting Your Receiver/Recorder" on pages 7-12.
- Begin service with UltimateTV by following the on-screen steps.
- Begin service with DIRECTV by calling: 1-800-DIRECTV (347-3288)

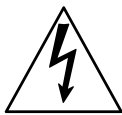
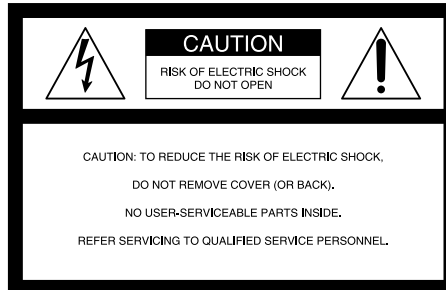


SAT-W60

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WARNING

To prevent fire or shock hazard, do not expose the Digital Satellite Receiver/Recorder to rain or moisture.



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 a risk of electric shock to persons.



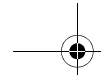
This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Note to the CATV Installer

This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the NEC (National Electrical Code) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

! To prevent electric shock, do not use this polarized plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted to prevent blade exposure.

 Any changes or modifications not expressly approved in these Operating Instructions could void your authority to operate this equipment.



Owner's Record

The model and serial numbers are located on the rear panel of the Digital Satellite Receiver/Recorder. Record the serial number in the space provided below. Refer to these numbers whenever you call upon Sony Customer Service regarding this product.

Model No. **SAT-W60**
Serial No. _____
Access Card No. _____

Trademarks

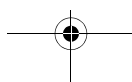
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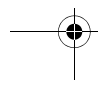
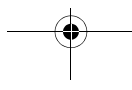
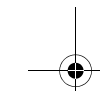
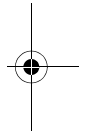
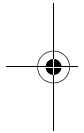
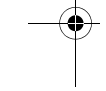
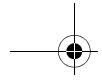
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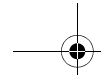
Notice

Your Digital Satellite Receiver/Recorder provides access to the Internet and the World Wide Web. Information on the Internet and World Wide Web is created by millions of individuals and organizations. This is what gives the Internet its diversity and value. However, some information may include material which you find objectionable. Sony is not responsible for the content of material accessed through your Digital Satellite Receiver/Recorder.

The Digital Satellite Receiver/Recorder, like other Internet devices, does not support all data formats.

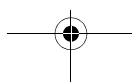
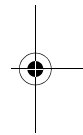
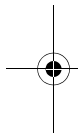


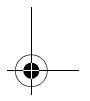
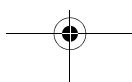
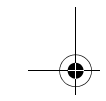
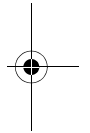
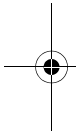
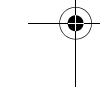




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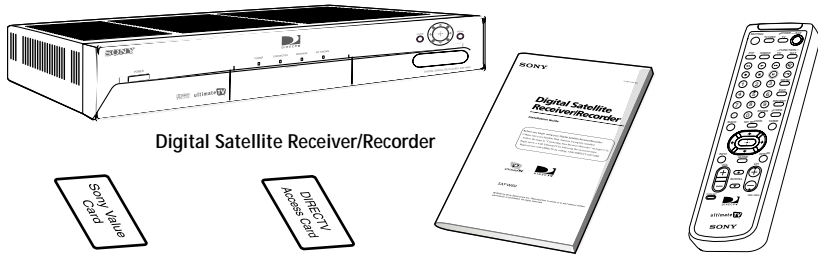




Connecting Your Receiver/Recorder

Package Contents

Make sure you have received all of the following items in your Digital Satellite Receiver/Recorder package.



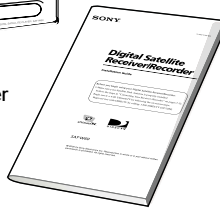
Digital Satellite Receiver/Recorder



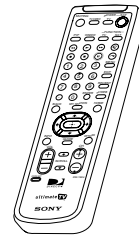
Smart Card



Access Card



Digital Satellite Receiver/Recorder Manual



Remote Control



AC Power Cord



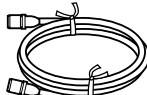
IR Blaster



Telephone Cable T Splitter



Size AA Batteries (2)



Coaxial Cable



A/V (Audio/Video) Cable

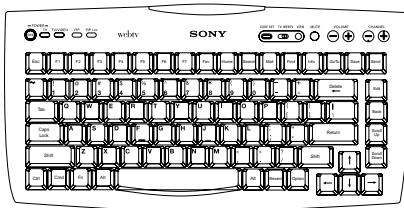


Telephone Cable

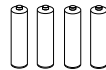


S-Video Cable

Boxed separately



Keyboard
(For keyboard instructions, please refer to the keyboard manual)



Size AA Batteries (4)



Keyboard Manual

 If you are missing any of these items, contact your Sony dealer.

Digital Satellite Receiver/Recorder

Below is a description of the jacks and cables you can use to make connections. Note that not all cables come with your receiver/recorder.

VHF/UHF Jacks and Coaxial (RF) Cable



Use the VHF/UHF IN jacks to receive signals from a TV antenna or from a cable TV connection. You can also use the VHF(SAT)/UHF OUT jack to send audio and video signals to your TV.

SATELLITE IN Jacks and RG-6 Coaxial cable



Use the SATELLITE IN jacks to receive signals from your Satellite Dish Antenna with RG-6 coaxial cable.

Audio/Video Jacks and Audio/Video Cables (RCA-type)



Use the audio/video jacks to send good quality analog video and stereo audio signals.

S-VIDEO Jack and S-VIDEO Cables



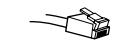
Use the S-VIDEO jack to send excellent quality analog video signal.

DIGITAL AUDIO OUT (OPTICAL) Jack and Optical Cable



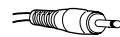
Use the DIGITAL AUDIO OUT (OPTICAL) jack to send excellent quality audio signal.

TEL LINE Jack and RJ-11 Telephone Cable



Use the TEL LINE jack to connect to a telephone outlet. If you subscribe to DIRECTV programming, some services require a continuously connected telephone line. The telephone line connection is used to periodically call out to DIRECTV and to use for connection to the UltimateTV (WebTV) service. (connection is needed for UltimateTV service)

IR Blaster Jack and Controller



Use the IR jack to connect your Infrared Controller to your Digital Satellite Receiver/Recorder. This allows you to control your VCR and/or Cable Box through your Digital Satellite Receiver/Recorder.

MIC (Microphone) Jack



Use the MIC jack to connect to an external microphone. This allows you to record and send voice messages on the Web in e-mail notes.

Connecting Your Receiver/Recorder

Connection Overview

Follow the procedures or make the connections in each of the steps to connect your Digital Satellite Receiver/Recorder.

Step 1: Connecting the Antenna Page 10



Step 2: Connecting the Telephone Line Page 10



Step 3: Connecting Your TV Page 11



Step 4: Connecting the AC Power Page 12

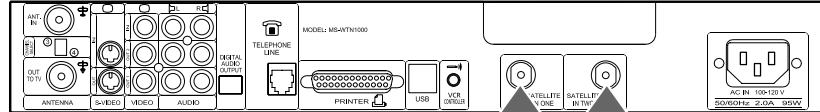


Step 5: Inserting the Access Card and Smart Card
Page 12

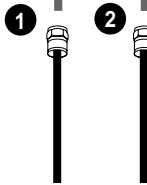
Digital Satellite Receiver/Recorder

Step 1: Connecting the Antenna

Digital Satellite Receiver/Recorder

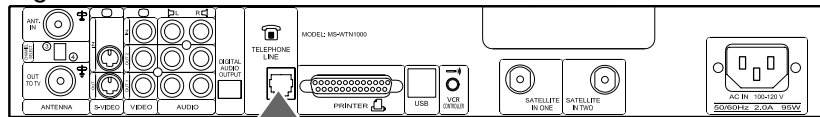


- 1 Connect the SATELLITE IN jack to your Satellite Dish Antenna using RG-6 coaxial cable.
- 2 Connect the 2nd signal if you have Dual LNB. Advance Set Up for dual output.



Step 2: Connecting Your Phone Line

Digital Satellite Receiver/Recorder

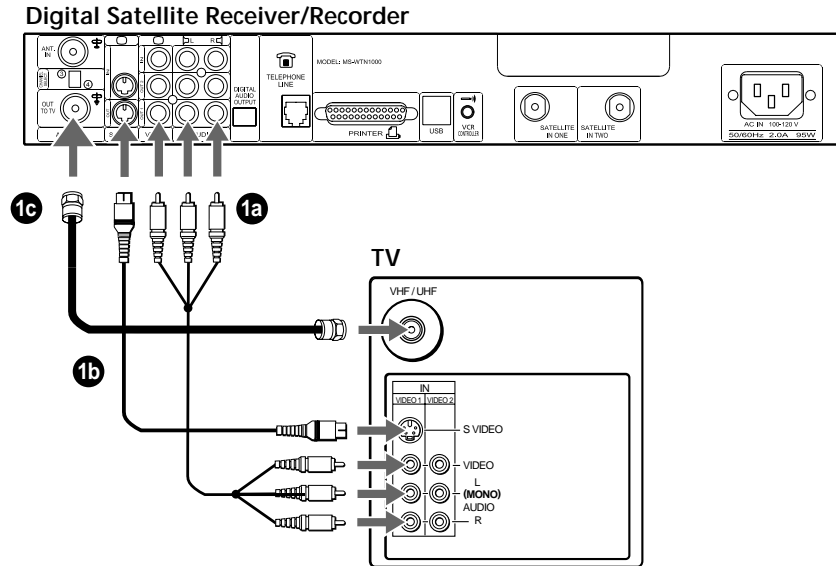


- 1 Connect the TELEPHONE LINE jack to a telephone line wall jack using the supplied telephone cord.



Connecting Your Receiver/Recorder

Step 3: Connecting Your TV Set



1a If your TV has A/V input jacks

Connect the VIDEO OUT jacks on your Digital Satellite Receiver/Recorder to the A/V input jacks on your TV using the supplied A/V cable. (Be sure to match the colors on the jacks with the colored plugs on the A/V cable.) If your TV has only one audio input, connect it to the L(MONO) jack on the receiver/recorder.

1b If your TV has an S-Video input

Use an S-Video cable instead of the yellow video connection. S-Video cable is supplied.

If your TV does not have A/V jacks

1c Connect the VHF/UHF OUT jack to the VHF/UHF input jack on your TV using coaxial cable. Set the CH3/CH4 switch to the channel that does not carry off-air broadcasts in your area.

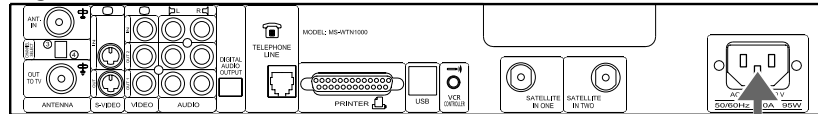
Note

With this connection, your input source is channel 3 or channel 4 depending on how you set the CH3/CH4 switch on the receiver/recorder.

Digital Satellite Receiver/Recorder

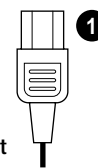
Step 4: Connecting the AC Power

Digital Satellite Receiver/Recorder



- 1 After all other connections are complete, connect the AC Power Cord to the Digital Satellite Receiver/Recorder. Then connect the AC Power Cord to a power outlet.

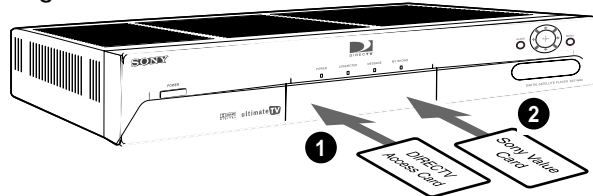
AC Power Cord



to power outlet

Step 5: Inserting the Access Card and Smart Card

Digital Satellite Receiver/Recorder



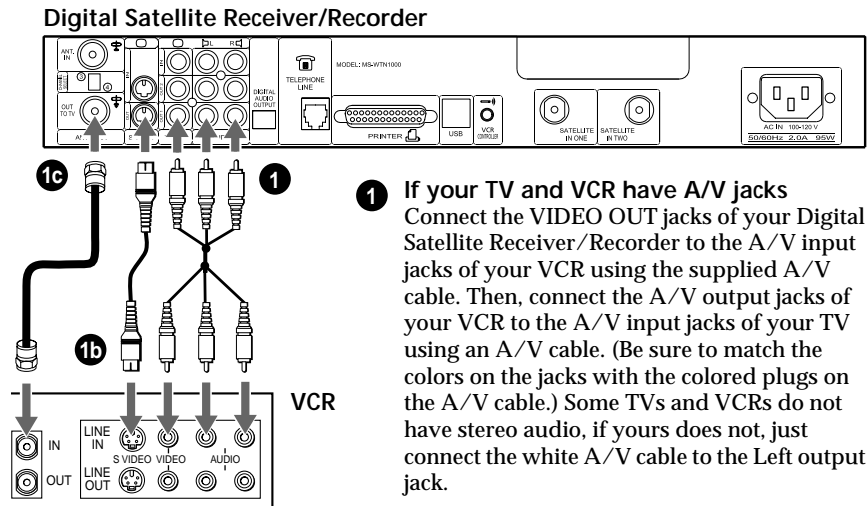
After you insert the DIRECTV Access Card and your Satellite Dish Antenna is installed, you are ready to begin enjoying service.

Call DIRECTV at 1-800-DIRECTV (347-3288) to begin digital satellite programming.

- 1 Open the access door by applying gentle pressure to the latch and releasing. Insert the DIRECTV Access Card into the front left hand slot of the Digital Satellite Receiver/Recorder. After the DIRECTV Access Card is inserted, **DO NOT** remove it unless instructed to do so by your service provider.
- 2 You may insert the Sony Value access card into the front right hand slot of the Digital Satellite Receiver/Recorder to take advantage of its features. The Sony Value access card is not required to remain in place and can be removed/re-inserted at any time.

Connecting Your Receiver/Recorder

Advanced Connection: Connecting Your VCR



Tip

To allow your Digital Satellite Receiver/Recorder to control the recording functions of your VCR, see page 14.

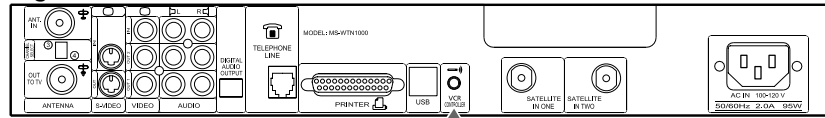
Note

With this connection, your input source is channel 3 or channel 4 depending on how you set the CH3/CH4 switch on your VCR.

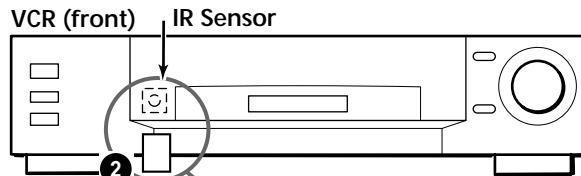
Digital Satellite Receiver/Recorder

Advanced Connection: Connecting Your IR Blaster

Digital Satellite Receiver/Recorder



- 1 To allow the Digital Satellite Receiver/Recorder to control your VCR**
Connect the IR Blaster to the VCR CONTROLER jack on the receiver/recorder.

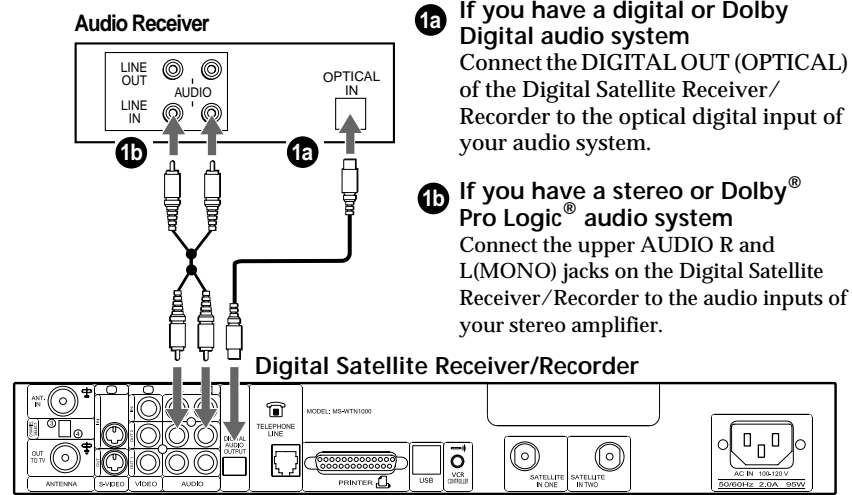


- 2 In front of the VCR**
Place the IR Blaster under and in front of the VCR.
The IR Blaster must extend just in front of the infrared sensor of the VCR.

Tip
If the infrared sensor is not marked on your VCR, shine a flashlight into the front panel of the VCR to locate the sensor.

Connecting Your Receiver/Recorder

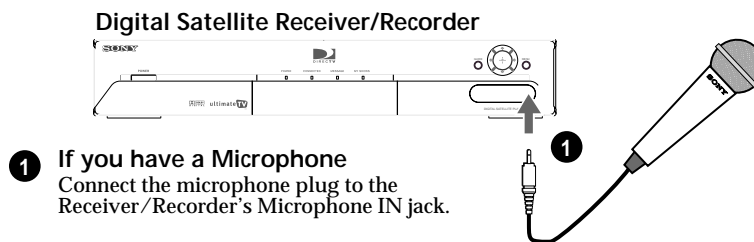
Advanced Connection: Connecting an Audio System



Tip

If you connect your Digital Satellite Receiver/Recorder to a Dolby Digital receiver, set the Dolby Digital option of the Audio display to Auto Select.

Advanced Connection: Connecting a Microphone



Tip

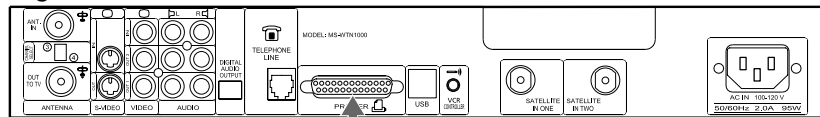
Check "on screen help" (see Ultimate TVs guide to see how to call this) for a list of compatible microphones.

Digital Satellite Receiver/Recorder

Advanced Connection: Connecting a Printer

Connecting a printer to your Digital Satellite Receiver/Recorder enables you to print Web pages and e-mail messages. The Digital Satellite Receiver/Recorder is not compatible with all printers. Check the on-line instructions for a list of the latest compatible printers.

Digital Satellite Receiver/Recorder

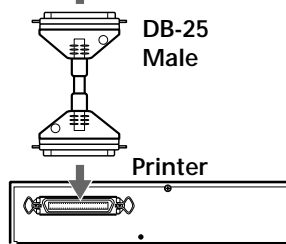


To print screens

Connect the printer port on the receiver/recorder to the port on the printer.

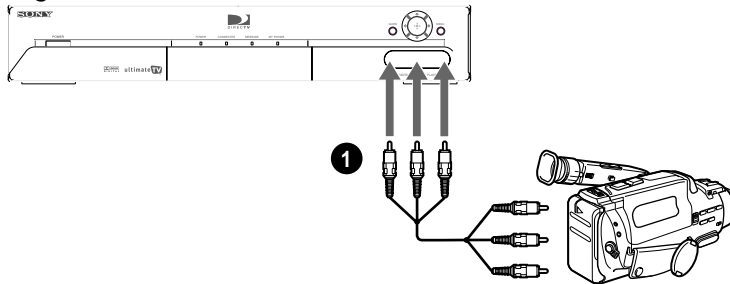
Note

Unplug the Digital Satellite Receiver/Recorder and printer before you begin connecting.



Advanced Connection: Connecting a Camcorder

Digital Satellite Receiver/Recorder

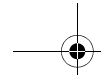


1 If you have a Camcorder

Using A/V cables, connect the camcorder's A/V OUT jacks to the Receiver/Recorder's A/V IN jacks.

Note

If you have a mono camcorder, connect its left audio output to the Receiver/Recorder's AUDIO L (white) jack.



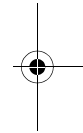
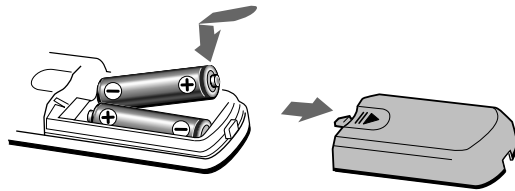
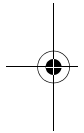
Using the Remote Control and Basic Functions

Although the Digital Satellite Receiver/Recorder's remote control is preset to operate Sony brand TVs, you can program the remote control to operate other manufacturer's TVs. This will enable you to operate your TV when viewing regular broadcast TV using the remote control.

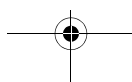
Batteries for the Remote Control

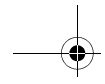
Insert two size AA batteries (supplied) into the remote control as shown.

Be sure to match the + and - marks on the batteries with the + and - marks inside the battery compartment.



If the remote control is not working properly, the batteries may be worn out. When replacing batteries, replace both batteries. Do not mix different brands and types of batteries. After you replace batteries, you may need to reprogram the remote control.



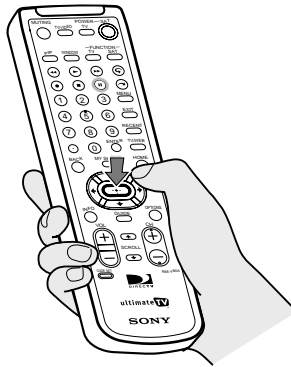
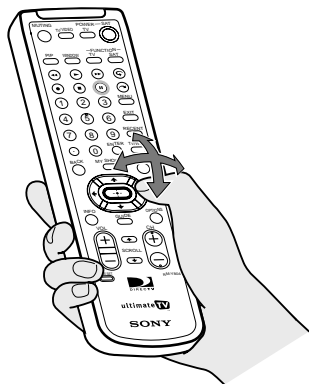


Digital Satellite Receiver/Recorder



Selecting Items

In on-screen displays such as the TV Home Screen and program guides, you must first move the highlight to the item you want, then select the item.

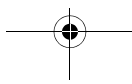


1 Press the $\uparrow/\downarrow/\leftarrow/\rightarrow$ buttons to move the highlight to the item you want.

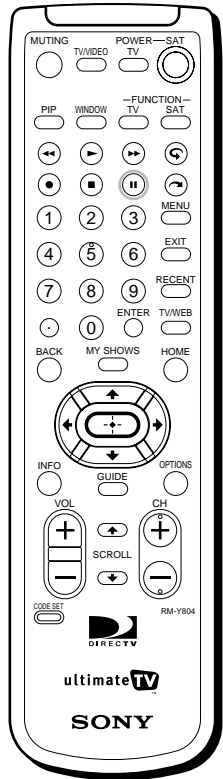
2 Press the + button to select the item.

Tip

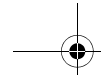
Be sure to always press the SAT FUNCTION button before operating the Digital Satellite Receiver/Recorder with the remote control.



Using the Remote Control and Basic Functions



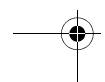
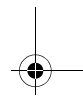
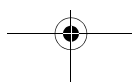
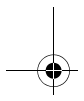
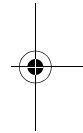
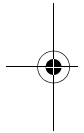
Muting	Press to mute the sound. Press again, or press VOL +, to restore the sound. (For the TV only)
TV/VIDEO	Cycles through the video inputs of your TV.
TV POWER	Turns your TV on and off.
SAT POWER	Turns your Player on and off.
PIP	Operate the Picture-in-Picture features of the receiver/recorder.
WINDOW	Selects the active window while in PIP mode, allowing you to change the Main or PIP channel. (For the recorder/receiver only)
TV FUNCTION	Selects TV feature control.
SAT FUNCTION	Selects Player feature control.
↺ Button	Replay button.
↻ Button	Jump ahead button.
0 - 9 Buttons	Select channels or enter numbers in text boxes.
MENU	Opens the TV Main Menu.
EXIT	Closes all on-screen displays, including program guides and menus.
ENTER	Activates the selected channel on your TV.
OPTIONS	Displays the OPTIONS panel.
RECENT	Displays and allows you to access the most recently viewed Web pages and TV channels.
SCROLL ▲/▼ Buttons	Moves the page up or down when the page is too long to be displayed on the screen.
HOME	Displays the Web Home or TV Home screen.
BACK	Displays the last screen viewed, or hides the on-screen keyboard.
TV/WEB	Press the button to switch between TV and WebTV modes.



Digital Satellite Receiver/Recorder

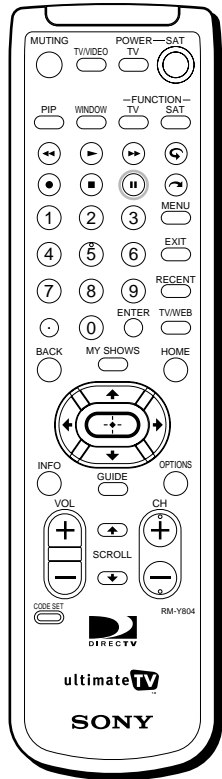


Arrow Buttons	Move the yellow highlight box to a different command or activity on the screen; select different keys when the on-screen keyboard is displayed.
MY SHOWS	Displays a list of programs that you have recorded with your receiver/recorder.
INFO	Displays information on the program you are viewing.
GUIDE	Displays information on available programs, including channel, time and date.
◆ Button	Activates a highlighted link or command; displays the on-screen keyboard.
VOL +/-	Increases and decreases the volume.
CH +/-	Moves to the next or previous channel.
CODE SET	Used for programming the remote control to operate your TV. See page 21 for details.



Using the Remote Control and Basic Functions

Setting up the Remote Control



The remote control can be programmed to operate most brands of audio/video equipment.

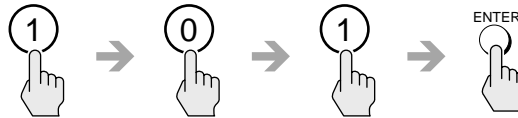
- 1 Find the code(s) for the manufacturer of the device you want to operate with this remote control.

You can find these codes on page 22 and 23.

- 2 Press the CODE SET button.
The function indicators begin flashing.



- 3 Press the 0-9 buttons to input the manufacturer code, then press the ENTER button.
The function indicator goes off, and the remote is set up to operate that device.



- 4 Test the remote control.
Press the POWER button for the device you want to control, then press other operation controls such as the CH +/- buttons.
If the device does not respond to the remote control, repeat from step 2 and enter a different manufacturer code in step 3.

Tip

Remember to aim the remote control at the device you are trying to operate.

Digital Satellite Receiver/Recorder

Manufacturer Codes

TV Codes

Manufacturer	Code
Sony	101
Admiral (M. Wards)	102, 114, 109
ABC	112
Bell & Howell (M. Wards)	114, 109, 138
Broksonic	103, 112
Craig	122, 123, 120, 121
Croslex	111
Curtis Mathis	103, 119, 123
Daewoo	135, 136, 103
Daytron	113
Emerson	122, 113, 120, 121, 123, 103, 115
Fisher	125
General Electric	102, 118, 103, 107
Goldstar	103, 113, 112, 130
Hitachi	131, 113, 103, 132
JC Penney	103, 102, 130, 107
JVC	128, 129
KTV	133, 113, 103, 123, 134
LXI (Sears)	102, 103, 111, 125, 119, 112
Magnavox	111, 112, 113, 107
Mitsubishi/MGA	124, 103, 112
NEC	103, 112
Panasonic	118, 116, 117, 107
Philco	111, 118, 109
Philips	111
Pilot	103
Pioneer	137, 118, 119

Manufacturer	Code
Portland	103, 108
Quasar	110, 107
Radio Shack	102, 112, 124, 123
RCA/Proscan	102, 103, 104, 105, 106, 107, 108
Samsung	126, 112, 113, 103
Sanyo	125
Scott	123, 112
Sharp	114, 113, 115
Signature 2000 (M. Wards)	114, 109
Sylvania	111, 112, 108
Symphonic	123, 139
Tenika	109
Toshiba	119, 114
Videch	131, 103, 112
Wards	113, 103, 115, 112
Zenith	108, 110

VCR Codes

Manufacturer	Code
Sony	301,302, 303
Aiwa	338
Audio Dynamic	314, 347
Bell & Howell (M. Wards)	330, 343
Broksonic	317, 319
Canon	309, 308
Citizen	332
Craig	315, 302, 332
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305, 338
HQ	315
Instant Replay	309, 308
JCPenney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 333, 334, 330, 335, 338
Magnavox	310, 308, 309
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326

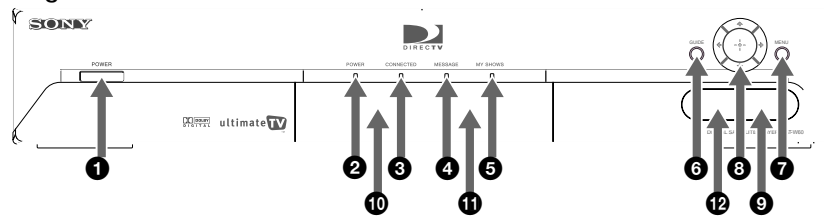
Manufacturer	Code
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	310, 308, 309
Pioneer	308
Quasar	306, 308, 309
RCA/Proscan	304, 305, 308, 309, 310, 311, 312, 313
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 325, 328
Shintom	315
Signature 2000 (M. Wards)	336, 327
Sylvania	310, 308, 309, 338
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Teknika	338, 342
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	330, 314, 336, 337
Zenith	331

Digital Satellite Receiver/Recorder

Other Information

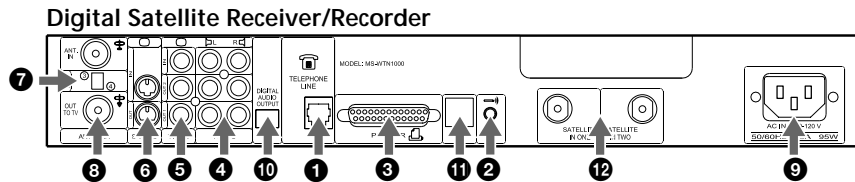
Front Panel Controls

Digital Satellite Receiver/Recorder

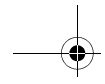


Feature	Description
1 Power Button	Turns your Digital Satellite Receiver/Recorder on and off.
2 POWER Indicator	Indicates whether the Digital Satellite Receiver/Recorder is on or off.
3 CONNECTED Indicator	Flashes while the Digital Satellite Receiver/Recorder is connecting to the WebTV service and while receiving new information. Remains lit while in use.
4 MESSAGE Indicator	Lights up to indicate you have an unopened e-mail message.
5 MY SHOWS Indicator	Indicates that a program is being recorded by My Shows.
6 GUIDE Button	Opens the Program Guide.
7 MENU Button	Opens the TV Home screen.
8 Arrow and +/- Buttons	The arrow buttons move the highlight in the on-screen displays. The +/- button selects the highlighted item.
9 AUDIO (R/L)/VIDEO IN	Allows easy connection of audio/video devices, such as a camcorder or digital camera.
10 SMART CARD Slot	The SmartCard allows you to access special features for WebTV.
11 ACCESS CARD Slot	The Access Card allows you to access DIRECTV services.
12 MIC INPUT Jack	Allows easy connection of a microphone.

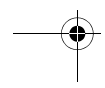
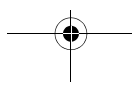
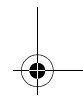
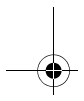
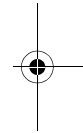
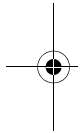
Back Panel Terminals



Connector	Description
① TELEPHONE LINE	Connects your receiver/recorder to a telephone jack.
② VCR CONTROLLER	Allows you to connect your IR Blaster for easy control of your cable box and/or VCR through the receiver/recorder.
③ PRINTER PORT	Allows you to connect your receiver/recorder to a printer.
④ AUDIO (R)/(L) IN/OUT	Connects your receiver/recorder to the right and left audio inputs and outputs of your TV.
⑤ VIDEO IN/OUT	Connects your receiver/recorder to your TV's or VCR's video inputs and outputs.
⑥ S-VIDEO IN/OUT	Allows you to connect your receiver/recorder to your TV and VCR for optimal picture quality (if your TV and VCR support S-Video).
⑦ CH 3-CH 4 Switch	The switch determines which TV channel allows you to view programs from your receiver/recorder when connected through the VHF/UHF connector.
⑧ VHF/UHF	IN: Allows you to connect your normal (antenna) TV or cable TV service to your receiver/recorder. OUT: Allows you to send normal (antenna) TV or cable signals to your TV or VCR from your receiver/recorder.
⑨ AC IN	Connects your receiver/recorder to a 120V AC outlet.
⑩ DIGITAL AUDIO OUTPUT	Allows you to connect an optional digital audio system.
⑪ USB Port	Allows you to connect Universal Serial Bus components, such as a keyboard or a digital camera.
⑫ SATELLITE IN	Connect the cable from your satellite dish antenna here. Connect a second cable if you wish to use both of the receiver/recorder's tuners, this allows features such as PIP and recording one show and while viewing another.

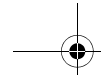
**Digital Satellite Receiver/Recorder****Specifications**

Terminals	Video In (2) Video Out (2) Audio (R/L) In (2) Audio (R/L) Out (2) S-Video In (1)/Out (1) Tel Line (1) Microphone In (1) Printer Port (DB25) (1) VCR Controller (1) Digital Audio Out (1) USB Port (2) Satellite In (2) CH3-CH4 Switch (1) VHF/UHF In/Out (1) AC In (1)
Dimensions	430 mm x 70 mm x 290 mm (w/h/d) (17" x 2 3/4" x 11 1/2")
Weight	TBD x kg (x lbs xx oz)
Power Requirements	AC 120V
Power Consumption	90 W max
Supplied Accessories	Remote Control RM-Y804 (1) Size AA Batteries (2) AC Power Cord (1) A/V (Audio/Video) Cable (1) Telephone Cable (1) S-Video Cable (1) T Splitter (1) Coaxial Cable (1) IR Blaster (1) Wireless Keyboard KI-W250 (1) Access Card (1) Smart Card (1)
Optional Accessories	Local Antenna ANJ-AA1 Installation Kit ANJ-DS2 Amplifier EAC-DA1 Diplexer EAC-DD1 Voltage Switch EAC-DV2 DSS Dish SAN-XXX

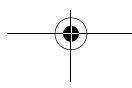


Troubleshooting

Symptom	Possible Cause and remedies
TV POWER button doesn't turn on TV.	The remote control has not been properly programmed. See "Setting up the Remote Control" on page 21. The batteries in the remote control or optional wireless keyboard could be weak. Check the batteries and replace them if necessary.
No picture, no sound.	Make sure the AC Power Cord is connected. Check that the TV/VIDEO switch is set correctly. Make sure the Digital Satellite Receiver/Recorder is properly connected. If you connected using a S-Video or A/V cables, make sure they are properly connected. If your TV must be set to a certain channel to view other devices to which it is connected, make sure this channel is selected. Check that the correct video input is selected by pressing the TV/VIDEO button. If you connected the Digital Satellite Receiver/Recorder using the S-Video or A/V cables, make sure the cables are properly connected. If your TV is not connected using the S-Video or A/V cables, set the CH3-CH4 switch on the back of the Digital Satellite Receiver/Recorder to the opposite channel to which it is currently set.
No sound.	If you connected the Digital Satellite Receiver/Recorder using A/V cables, make sure the cables are properly connected.
Can't change TV channels while using WebTV service.	Make sure you select the TV FUNCTION button.
The WebTV service screens disappear after pressing the CHANNEL +/- buttons.	Press the TV/VIDEO button on the remote control until the WebTV screen appears.
VCR Controller doesn't seem to be working correctly.	Check that the IR Blaster is positioned directly in front of the infrared sensor area of your cable box and/or VCR. Follow the on-line instructions in the "Settings" link, accessible from the TV Home page of the WebTV service.

**Digital Satellite Receiver/Recorder**

Symptom	Possible Cause and remedies
The unit gets extremely hot.	Check the placement of the unit. Place the unit in a location with adequate ventilation. Do not place the unit in a cabinet or on a TV. If the heat is excessive, contact your Sony dealer.
The unit turns off and on by itself.	This is often caused by static build up. Turn off the unit and disconnect the AC Power Cord from the power outlet. Then reconnect the AC Power Cord to the power outlet and turn on the unit. If this does not solve the problem, contact your Sony dealer.
The unit will not turn on.	Make sure the AC Power Cord is securely connected to the Digital Satellite Receiver/Recorder and a power outlet.
The unit will not connect to the WebTV Network after receiving an upgrade from the WebTV service.	Turn off the Digital Satellite Receiver/Recorder and disconnect the AC Power Cord from the power outlet. Then reconnect the AC Power Cord to the power outlet and turn on the Digital Satellite Receiver/Recorder. You may need to repeat this procedure three or four times to solve the problem.
The Message Indicator light is not working.	You can set your Digital Satellite Receiver/Recorder to check for messages automatically. However, if you check for messages yourself before the receiver/recorder is set to do so automatically, the Message Indicator may not light until the receiver/recorder checks again. You may want to consider setting the receiver/recorder to check for mail when you usually are not connected.
Remote control or keyboard is no longer working.	Replace the batteries. Try pressing the SAT FUNCTION button.



Limited Warranty

Digital Satellite Receiver/Recorder

SONY ELECTRONICS INC. ("SONY") warrants this Product against defects in material or workmanship as follows:

1. **Labor:** For a period of 90 days from the original date of purchase, if the Product is determined to be defective, SONY will repair or replace the Product at no charge. After this 90 day period, you must pay for all labor charges.
2. **Parts:** For a period of one year from the original date of purchase, SONY will supply, at no charge, new or rebuilt replacements in exchange for defective parts. Any replacements will be warranted for the longer of the remainder of the original warranty period or 90 days from the parts installation by a SONY authorized DIRECTV System installer or facility.

To obtain warranty service:

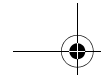
- If the Product was installed by a SONY authorized DIRECTV System installer, contact that installer for instructions.
- If the Product was not installed by a SONY authorized DIRECTV System installer, you must take the Product or deliver the Product in either its original packaging or packaging affording an equal degree of protection (with freight prepaid), to a SONY authorized DIRECTV System service facility. To locate the closest such facility, please call the telephone number listed below.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product. This warranty does not cover improper installation (if not installed by a SONY authorized DIRECTV System installer), loss of use of the product, or

wasted programming charges due to product malfunction. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by SONY to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS. This warranty is valid only in the United States. Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the Product is within the Warranty period must be presented to obtain warranty service.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. IN NO EVENT SHALL SONY BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT. UNDER NO CIRCUMSTANCES SHALL SONY'S LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product. Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In



Digital Satellite Receiver/Recorder



In addition, if you enter into a service contract with the SONY Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For your convenience, SONY ELECTRONICS INC. has established telephone numbers for frequently asked questions:

For assistance with installation, contact the dealer from whom you purchased your Multi-Sat Oval Antenna System.

For product information or operation, for service assistance or for resolution of a service problem, call:

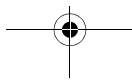
**SONY SATELLITE SYSTEM
INFORMATION CENTER
1-800-838-SONY (7669)**

For an accessory or part not available from your authorized dealer, call:

1-800-488-SONY (7669)

About Sony Customer Support

Every DIRECTV System manufactured by Sony comes with Sony's Express Support at no charge to you. In the event of a system failure, our Express Support Program can have a replacement receiver/recorder on its way to you via overnight Federal Express (for calls Monday-Friday until 7:30 pm Eastern Time; Saturday delivery depends upon zip code). All it takes is a valid credit card to cover a security deposit, and Sony will pay freight in both directions. Our Express Support continues with our 800 number, staffed by dedicated technical representatives who can answer questions on dealer locations, system operation, installation, hookup, accessories, and how to get the most out of your home entertainment system. Sony's ExpressSupportSM program: another expression of our commitment to excellence in customer service.



Other Information

FCC Regulations and Information

FCC Registration Information

Your Digital Satellite Receiver/Recorder has been registered by the Federal Communication Commission (FCC) as not being harmful to the telephone network when connected directly to the telephone lines. In order to fully comply with the Rules of the FCC, the following instructions should be read carefully and followed completely where applicable:

FCC has established Rules which permit this device to be directly connected to the telephone network. Standardized jacks are used for these connections. This equipment should not be used on party lines or coin phones.

If this device is malfunctioning, it may also be causing harm to the telephone network; this device should be disconnected until the source of the problem can be determined and until the repair has been made. If this is not done, the telephone company may temporarily disconnect service.

The telephone company may make changes in its technical operations and procedures; if such changes affect the compatibility or use of this device, the telephone company is required to give adequate notice of the changes. You will be advised of your right to file a complaint with the FCC.

If the telephone company requests information on what equipment is connected to their lines, inform them of:

- The telephone number to which this unit is connected.
- The ringer equivalence number.
- The USOC jack required.
- The FCC Registration Number.

Items (b) and (d) are indicated on the label. The Ringer Equivalence Number (REN) is used to determine how many devices can be connected to your telephone line. In most areas, the sum of the REN's of all devices on any one line should not exceed five (5). If too many devices are attached, they may not ring properly.

Service Requirements

In the event of equipment malfunction, all repairs should be performed by our Company or an authorized agent. It is the responsibility of users requiring service to report the need for service to our company or to one of our authorized agents. For service, call 1-888-772-7669.

Radio Interference Information

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 with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception (which you can determine by turning the equipment off and on), you are encouraged to try to correct the interference by one or more of the following measures:

Change the position of the Digital Satellite Receiver/Recorder with respect to the radio or television equipment that is receiving the interference.

Move the Digital Satellite Receiver/Recorder away from the equipment that is receiving the interference.

Plug the Digital Satellite Receiver/Recorder into a different outlet so that the Digital Satellite Receiver/Recorder and the equipment receiving the interference are on different branch circuits.

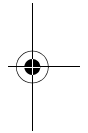
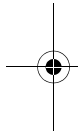
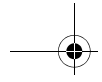
Shielded cables and I/O cords must be used for this equipment to comply with the relevant FCC regulations. Changes or modifications not expressly approved in writing by Sony Electronics, Inc., void the user's authority to operate this equipment.

If these measures do not eliminate the interference, you should consult your Digital Satellite Receiver/Recorder dealer or an experienced radio/television technician for additional suggestions. In addition, you may find the following booklet prepared by the FCC helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402 Stock No. 004-000-00345-4.

Declaration of Conformity

Trade Name: Sony
 Model No.: SAT-W60
 Responsible Party: Sony Electronics Inc.
 Address: 1 Sony Drive, Park Ridge, NJ, 07656 USA
 Telephone No.: 201-930-6972

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:
 (1) This device may not cause harmful interference, and
 (2) this device must accept any interference received, including interference that may cause undesired operation.



Sony **on** line

www.sony.com

Contact Sony with your questions and comments

www.sel.sony.com/SEL/feedback.htm

Sony Electronics Inc. Printed in the U.S.A.

