

EXPLORER® 2000
Digital Home Communications Terminal



User's Guide



Please Read This Entire Guide

Important

Please read this entire guide before you install or operate this equipment. Give particular attention to safety statements. Look for this symbol throughout this guide.



Remote Control

This guide describes using the remote control to operate the EXPLORER® 2000 Digital Home Communications Terminal. See **EXPLORER 2000 Front Panel** in this guide for information about basic functions using the EXPLORER 2000 front panel controls.

The procedures in this guide include pictures of screens and symbols of remote control buttons.



Caution:

Do not place a magnet, or any type of magnetic/static dust removal device on or near this equipment. Magnetic/static devices may affect the operation of this equipment.

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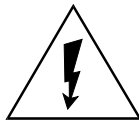
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Important Rules for Safe Operation

Note to the installer of the CATV system

Note to CATV System Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC (Section 54, Part I of the Canadian Electrical Code), that provides guidelines for proper grounding and, in particular, specifies that the CATV cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



This symbol is intended to alert you that uninsulated voltage within this product may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this product.



CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

WARNING
TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.



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

Read and Retain These Instructions

- Read all of the instructions before you operate this equipment. Give particular attention to all safety precautions. Retain the instructions for future reference.
- Comply with all warning and caution statements in the instructions. Observe all warning and caution symbols that are affixed to this equipment.
- Comply with all instructions that accompany this equipment.

Cleaning the Equipment

Before cleaning this equipment, unplug it from the electrical outlet. Use a damp cloth to clean this equipment. Do not use a liquid cleaner or an aerosol cleaner. Do not use a magnetic/static cleaning device (dust remover) to clean this equipment.

Liquid or Moisture

Do not expose this equipment to liquid or moisture. Do not place this equipment on a wet surface. Do not spill liquids on or near this equipment.

Continued on next page

Important Rules for Safe Operation, Continued

Placement

Place this equipment in a location that is close enough to an electrical outlet to accommodate the length of the power cord. Place this equipment on a stable surface. The surface must support the size and weight of this equipment.



WARNING:

Avoid personal injury and damage to this equipment. An unstable surface may cause this equipment to fall.

Accessories

Do not use accessories with this equipment unless recommended by your cable company.

Ventilation

This equipment has openings for ventilation that protect it from overheating. To ensure the reliability of this equipment, do not obstruct the openings.

- Do not place other equipment, lamps, books, or any other object on the top of this equipment.
- Do not place this equipment in any of the locations that follow:
 - On a bed, sofa, rug, or similar surface
 - Over a radiator or a heat register
 - In an enclosure, such as a bookcase or equipment rack, unless the installation provides proper ventilation



WARNING:

Avoid electric shock and fire hazard. Never push objects through the openings in this equipment. Objects can touch dangerous voltage points or cause electrical shorts that can result in electric shock or fire.

Continued on next page

Important Rules for Safe Operation, Continued

Power Sources

A label on this equipment indicates the correct power source for this equipment. Operate this equipment only from an electrical outlet that has the voltage and frequency that the label indicates.

If you are unsure of the type of power supply to your residence, consult Scientific-Atlanta, Inc., or your local power company.



WARNING:

Avoid electric shock and fire hazard. Do not overload electrical outlets and extension cords. For equipment that requires battery power or other sources to operate, refer to the operating instructions for that equipment.

Grounding

This equipment has a two-prong plug. Properly ground (earth) this equipment by inserting the plug into a grounded electrical, two-socket outlet. If this plug is polarized it has one wide prong and one narrow prong. This plug fits only one way. If you are unable to insert this plug fully into the outlet, contact an electrician to replace your obsolete outlet.

Power Cord Protection

Arrange all power cords so that people cannot walk on the cords, place objects on the cords, or place objects against the cords, which can damage the cords. Pay particular attention to cords that are at plugs, at electrical outlets, and at the places where the cords exit the equipment.

Lightning and Power Surges

Ground (earth) your cable system to provide some protection against voltage surges and built-up static charges. If you have questions, call your cable company.

Servicing

Do not open the cover of this equipment. If you open the cover, your warranty will be void. Refer all servicing to qualified personnel only. Contact your cable company for instructions.

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Important Rules for Safe Operation, Continued

Damage that Requires Service

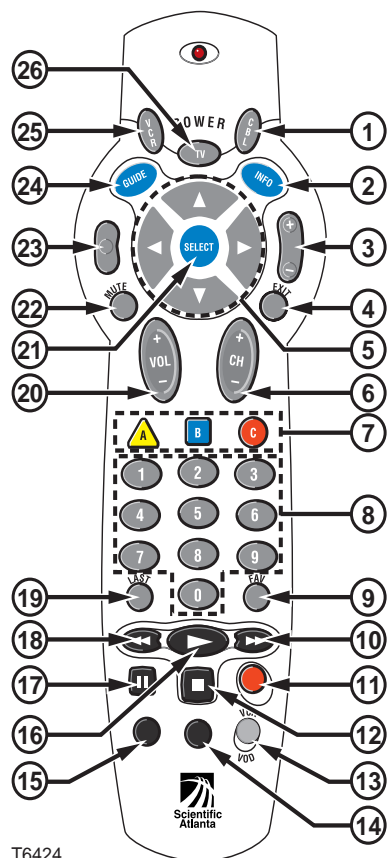
For damage that requires service, unplug this equipment from the electrical outlet. Refer service to qualified service personnel when any of the following occurs:

- There is damage to the power cord or plug
- Liquid enters the equipment
- A heavy object falls on the equipment
- There is exposure to rain or water
- Operation is not normal (the instructions describe the proper operation)
- If you drop this equipment, or damage the cabinet of this equipment
- If this equipment exhibits a distinct change in performance

Upon completion of any service or repairs to this equipment (home terminal), ask the service technician to perform safety checks to determine that the equipment is in proper operating condition.

Quick Reference

Model 8650-ER1 Remote Control



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Power

- ① CBL Explorer 2000 on or off
- ② VCR VCR on or off
- ③ TV TV on or off

Sound

- ④ MUTE Mutes sound
- ⑤ VOL Adjusts volume

Channels

- ⑥ INFO Displays channel information
- ⑦ CH Selects channels, up or down
- ⑧ 1-9 Enter channel numbers (also used to enter your personal identification number [PIN] for parental control)
- ⑨ FAV Views favorite channels
- ⑩ LAST Returns to last channel viewed








Notes:

- Program the remote control before you use the EXPLORER 2000. See **Appendix A** for programming procedures.
- Make sure you use only *alkaline batteries* in the remote control. See **Replacing the Remote Control Batteries** later in this guide for more information.







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Quick Reference, Continued




Screens

- ③  Displays next or previous screen
- ④  Hides interactive screen
- ⑦  Makes on-screen decisions
- ②④  Displays interactive program guide
- ②③  Displays program settings
- ⑤  Moves through interactive screen choices
- ②①  Chooses interactive screen item

VCR

- ⑩  Fast forwards tape
- ⑪  Records program
- ⑫  Stops tape
- ⑱  Rewinds tape
- ⑯  Plays tape
- ⑰  Pauses tape

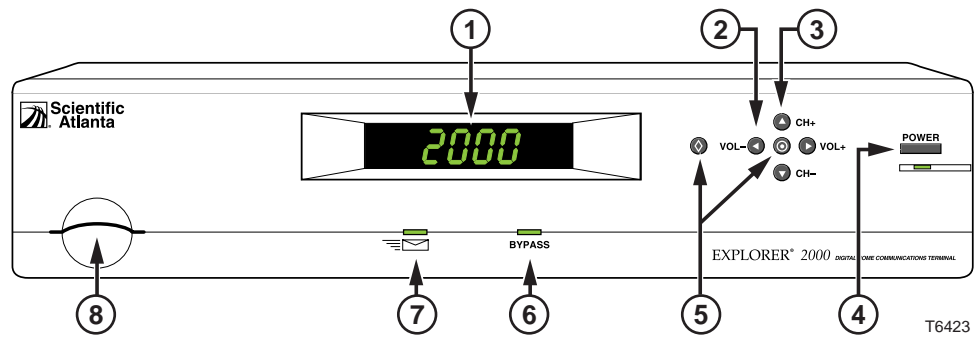
Device Control

- ⑬  Switches control between your VCR and Video On Demand (VOD) movie
- ⑭  Switches control between your TV and VCR
- ⑮  Controls the BYPASS option (See **Optional Features**)

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Quick Reference, Continued

EXPLORER 2000 Front Panel



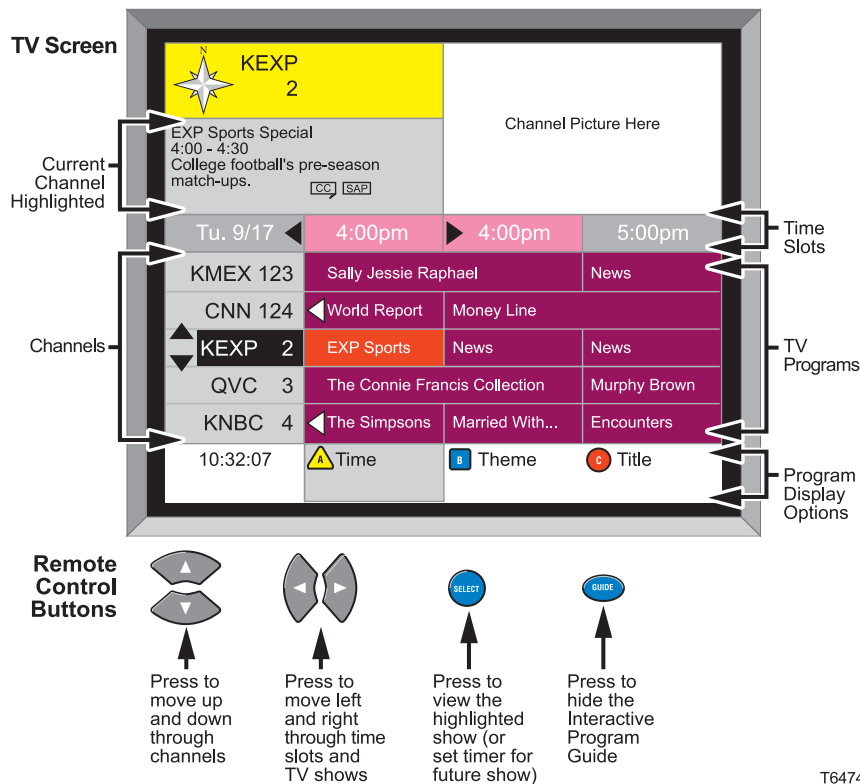
- | | | |
|---|--|--|
| ① | | Display |
| ② | | Increases or decreases volume |
| ③ | | Moves channels up or down |
| ④ | | Turns EXPLORER 2000 power on or off
Power is on when indicator is lit |
| ⑤ | | (Factory use only) |
| ⑥ | | Optional bypass feature is on when indicator is lit |
| ⑦ | | A message is waiting when indicator is lit |
| ⑧ | | Access Card slot |

How to Use Your EXPLORER 2000

Interactive Program Guide

The Interactive Program Guide is a convenient way to see a list of current and up-coming programs and quickly tune to channels. Press **GUIDE** to display the Interactive Program Guide.

Typical Interactive Program Guide




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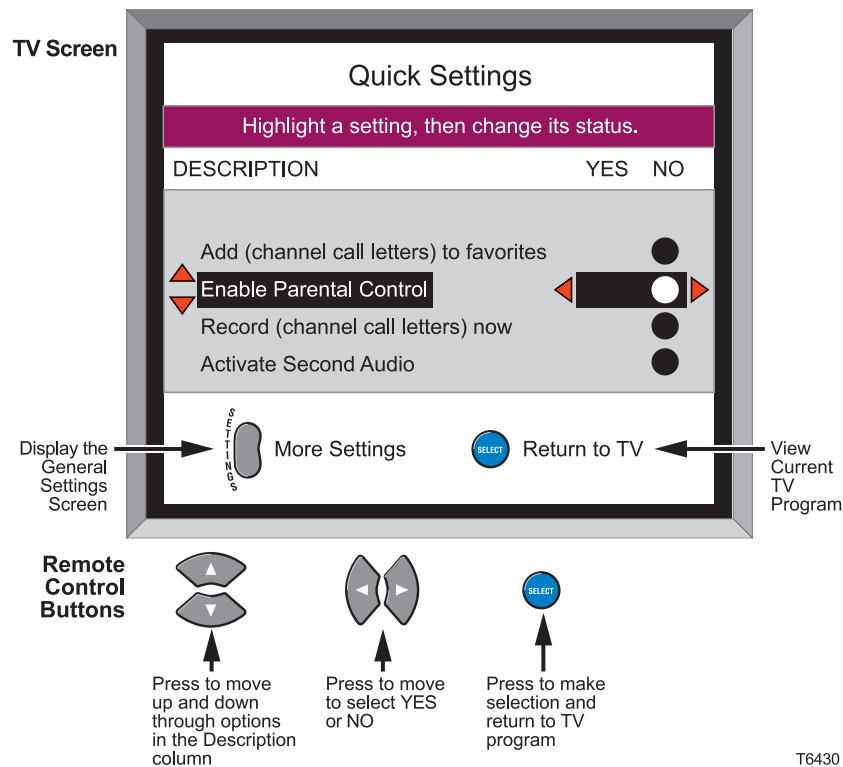
Note: If you select a channel within a past or current time slot, you display the program on that channel (which may be in progress). If you select a channel in a future time slot, you set a reminder timer that generates a screen message before the program begins. See **Using the General Settings Screen**.

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How to Use Your EXPLORER 2000, Continued

Quick Settings Screen

The Quick Settings screen contains shortcuts that allow you to quickly access frequently used features. Press  on the remote control to display the Quick Settings screen.




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How to Use Your EXPLORER 2000, Continued

Quick Settings Options

Option	Description
Add (channel) to Favorites	Adds the current channel to your list of favorite channels.
Enable Parental Control	Locks or unlocks your blocked channels. Unlocking allows viewing of all blocked channels while your EXPLORER 2000 is on.
Record (channel)	Records the current channel. Make sure your VCR power is on and you have a blank tape inserted before you begin recording. Press  to stop the recording.
Activate Second Audio Programming	Define an alternate audio source for output to the TV. Generally used for second language audio output, this applies only to channels that offer Second Audio Programming.


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How to Use Your EXPLORER 2000, Continued

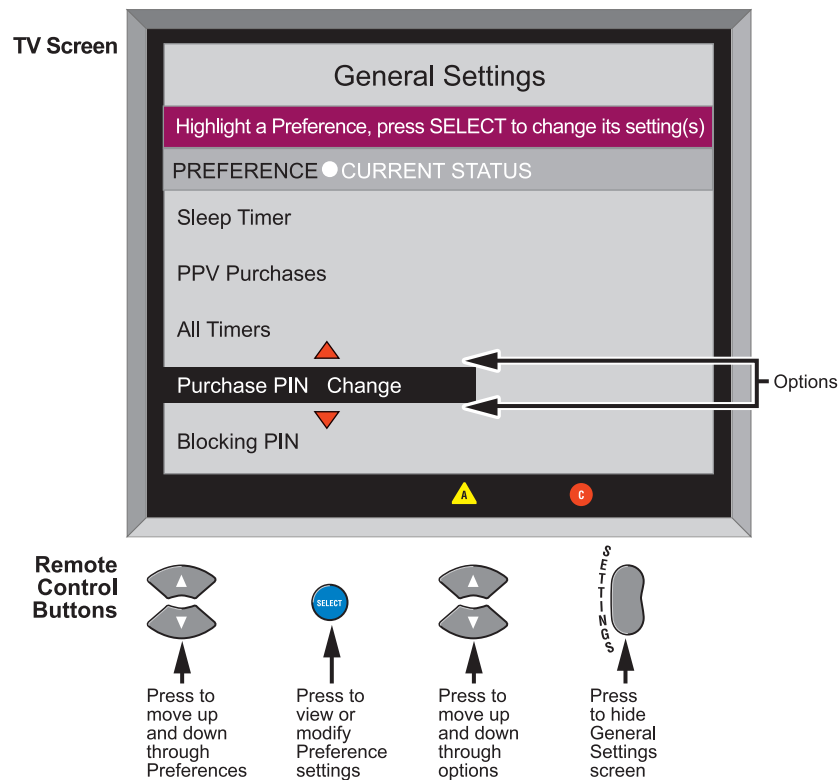
General Settings Screen

The General Settings screen contains preferences that enable you to define the functions and features of your EXPLORER 2000. See **General Settings Preferences** for a description of each preference on the screen.

Note: Your cable company determines which options appear on your screens. You may not have access to all options described.

Press  twice on the remote control to display the General Settings screen.

From the Interactive Program Guide and Quick Settings, press once.



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How to Use Your EXPLORER 2000, Continued

General Settings Preferences

Preference	Description
AC Outlet	Multi-feature AC power outlet for your TV: <ul style="list-style-type: none">• Always On - Must power-on your EXPLORER 2000 and your TV separately• On with Settop - TV powers-on when you power-on your EXPLORER 2000• Always Off - AC outlet is not active
All Timers	Displays a list of all timers you have set.
Audio Level	Determines the constant sound level (does not apply if you have set your remote control to control the volume through the EXPLORER 2000)
Blocked Channels	Blocks a channel from viewing. To unblock the channel, disable your blocking PIN (see below), or turn off Parental Control. You can also display a list of blocked channels
Blocking PIN	Defines a four-digit Personal Identification Number , which you can then enable and disable. The PIN allows you to block or unblock a channel. <ul style="list-style-type: none">• Disable - To unblock all blocked channels• Enable - To block channels Note: You can <i>temporarily</i> unlock blocked channels from within the Quick Settings Screen.
Bypass	Bypasses the cable signal (see How to Use the Bypass Option in this guide)
Clock Options	Switches the front panel display between the time-of-day and the current channel number
Favorite Channels	Displays a list of your favorite channels
Output Channel	Selects the channel your cable company uses to send you cable television - either channel 3 or 4
Power-on Setup	Selects the channel that the TV displays when you first power-on your EXPLORER 2000

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How to Use Your EXPLORER 2000, Continued










Preferences	Description
PPV Purchases	Lists the pending, past, and pre-purchased Pay-Per-View programs
Purchase PIN	Changes the Personal Identification Number you set up for purchasing Pay-Per-View programs. First-time users: your cable company assigns and activates this number
Reminder Timer	Sets up to eight timers to remind you to watch a program.
Sleep Timer	Sets the number of minutes until the EXPLORER 2000 powers-off
Tape and View	Optional feature that sets up dual EXPLORER 2000 operation (see How to Install Tape and View)
Turn-Off Timer	Selects the time of day to power-off the EXPLORER 2000
VCR Timer...	Sets up to eight timers to remind you to record an upcoming program Note: You must have the VCR Commander to record a program through the EXPLORER 2000. Otherwise, use your VCR remote control to set recording times and record programs
Wake-Up Timer	Sets the time of day you would like the EXPLORER 2000 to power-on

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How to Use Your EXPLORER 2000, Continued

Understanding the Icons

Icons in the channel banner and the Interactive Program Guide provide information about the channel you are watching.

Icon	Description
	Blocked channel
	Unblocked channel
	Closed captioned - channel has text subtitles for hearing-impaired viewers. This option applies only to channels that offer <i>closed captioning</i> .
	Second Audio Programming - channel offers alternate audio (such as Spanish) with the TV picture. This option applies only to channels that offer SAP. Note: If you have SAP enabled, and you experience no sound on some channels, disable SAP. SAP is only available on channels that offer it.
	Channel transmits stereo sound. This option applies only to channels that offer stereo sound.
	Channel is included in your list of favorite channels
	Purchased Pay-Per-View program
	VCR timer is set on this channel
	Reminder timer is set on this channel

Continued on next page

How to Use Your EXPLORER 2000, Continued

Understanding Ratings for Television Programs

The table below describes the rating categories and codes that are associated with television programs in the United States.

Icon	Description
Y	Program is appropriate for children of all ages, and specifically designed for children ages 2 through 6 years.
Y7	Program is appropriate for children age 7 years and older. This rating may also include the code FV , indicating the program contains mild fantasy violence or comedy violence.
G	Program is appropriate for viewers of all ages.
PG	Parental guidance suggested. The program contains material that parents may find unsuitable for young children. Additional codes that may be included with the rating are: <ul style="list-style-type: none">• V - some violence• S - some sexual situations
14	Parents strongly cautioned. The program contains material that parents may find unsuitable for children under 14 years. Additional codes that may be included with the rating are: <ul style="list-style-type: none">• V - intense violence• S - intense sexual situations• L - strong indecent language• D - suggestive dialog
MA	Mature audience. The program is designed for an adult audience. The program contains material that parents may find unsuitable for children under 17 years. Additional codes that may be included with the rating are: <ul style="list-style-type: none">• V - graphic violence• S - explicit sexual situations• L - crude or indecent language





Optional Features

Introduction

Your cable company may offer additional features such as those defined on the following pages. Inquire with your cable company about available options.

Listening to Music

You can listen to music through your EXPLORER 2000 unit. The music is transmitted via digital signal with quality comparable to that of a CD (compact disc).

1. Do you know the channel you want to listen to?
 - If **yes**, use the remote control keypad to select the channel.
 - If **no**, press  to display the Interactive Program Guide.
 2. Press   to highlight the desired Digital Music channel.
 3. Press  to tune to the highlighted music channel.
-

Using VCR Commander™

The VCR Commander module is a separate option that enables the EXPLORER 2000 to program your VCR for recording TV programs. Without the VCR Commander module, you must manually program your VCR to record.

The VCR Commander package includes a separate user's guide that contains connection and operation procedures. Refer to this guide for more information.

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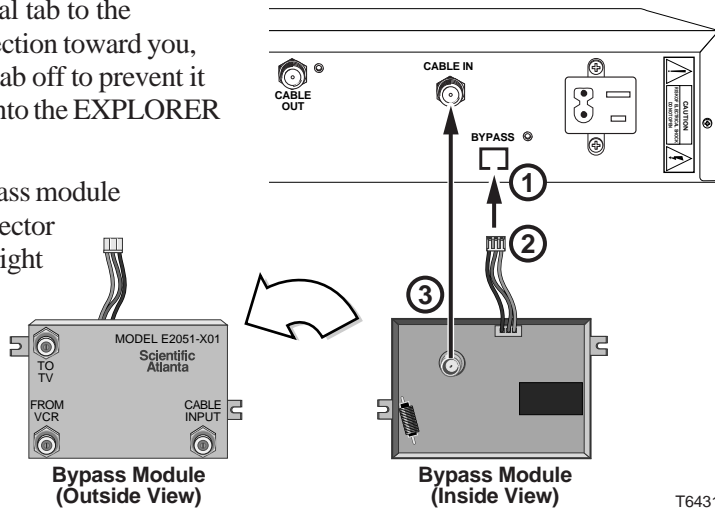
Optional Features, Continued

How to Install the Bypass Module

The EXPLORER 2000 provides a bypass feature that allows you to *view* an analog channel while *recording* a digital (or analog) channel on your VCR.

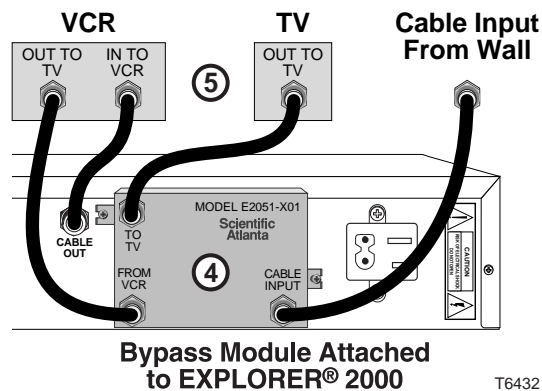
1. Bend the metal tab to the Bypass connection toward you, then pull the tab off to prevent it from falling into the EXPLORER 2000.

2. Hold the Bypass module with the connector labels facing right side up and toward you. Insert the multi-cable connector on the Bypass module into the Bypass connection on the EXPLORER 2000.



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3. Insert the **Cable In** connector on the Bypass module into the **Cable In** connection on the EXPLORER 2000 unit. The multi-cable connector folds into the inside of the Bypass module.
4. Align the mounting tabs on the Bypass module with the screw holes on the EXPLORER 2000 back panel, then finger tighten the screws (supplied with the Bypass module) to hold the module in place against the back panel.
5. Connect your TV and VCR to the Bypass module as shown.





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Optional Features, Continued

How to Use Bypass

When you use Bypass, the regular cable signal goes to your television, and you can watch any regular cable channel. At the same time, the EXPLORER 2000 sends digital cable signals to your VCR for digital channel recording. When you disable the Bypass feature, both your VCR and TV receive the cable signals.

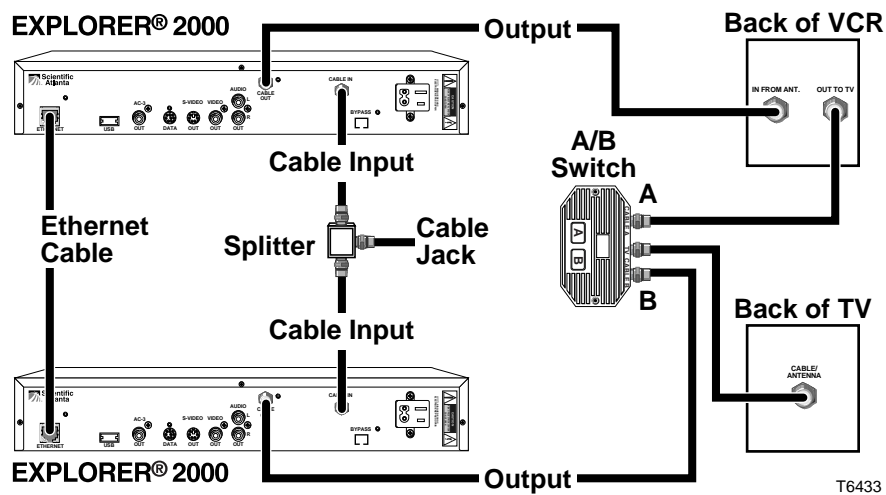
1. Press  on the remote control to activate Bypass. The bypass LED on the EXPLORER 2000 illuminates. Your VCR can now record the channel to which the EXPLORER 2000 is tuned.
2. Press  on the remote control to de-activate Bypass, then tune your TV to the VCR output channel (usually channel 3 or 4) in order to watch the same channel to which the EXPLORER 2000 is tuned.

Continued on next page

Optional Features, Continued

How to Install Tape and View

The Tape and View feature allows you to use two EXPLORER 2000 Digital Home Communications Terminals, connected by an Ethernet cable, to watch one digital cable program while recording another. You use your remote control to control the primary (View) EXPLORER 2000. To enable this feature, contact your cable company.



How to Connect

To Connect the EXPLORER® 2000

The following illustration shows the connections on the EXPLORER 2000 back panel.

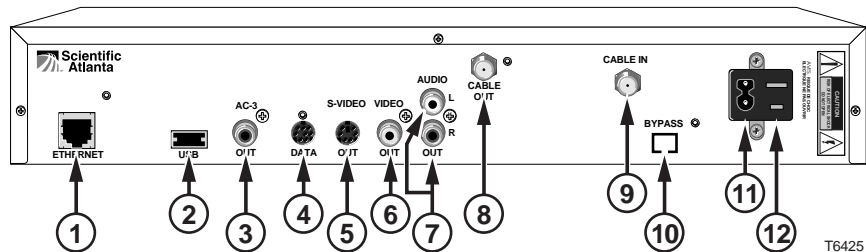
! WARNING:

To prevent electric shock, match wide blade of power plug to wide slot, and fully insert.

! Caution:

Before you power on the EXPLORER 2000, install the AC power plug into the EXPLORER 2000 unit *first*, then plug it into an electrical outlet.

Be sure the cable connection to your television and EXPLORER 2000 are “finger tight” only. Never use a wrench to tighten these connections.

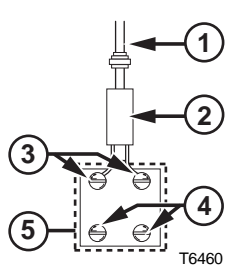


- | | |
|------------------|---|
| ① Ethernet Port | ⑦ Stereo Audio Output |
| ② USB Port | ⑧ Cable Output (to 75 Ω TV Input) |
| ③ AC-3 Out | ⑨ Cable Input |
| ④ Data Port | ⑩ Bypass Option (Module not shown) |
| ⑤ S-Video Output | ⑪ AC Power Input (Connect to 120 V AC outlet) |
| ⑥ Video Output | ⑫ AC Switched Outlet (Power cord from TV) |

Continued on next page

How to Connect, Continued

To Connect a Non-Cable Ready TV



- ① Jumper Cable
- ② VHF Matching Transformer
- ③ TV Set VHF Antenna Terminals
- ④ TV Set UHF Antenna Terminals (not used)
- ⑤ Rear of Non-Cable Ready TV

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How to Connect, Continued

Back Panel Connections

The following table describes the back panel connections and functions.

Item	Description
Ethernet Port	To connect two EXPLORER 2000 units together for use with the Tape 'N View™ feature. See Installing Tape 'N View™ for more information
USB (Universal Serial Bus) Port	To connect external equipment
Data Port	To connect the VCR Commander™ module or similar equipment. See the <i>VCR Commander™ User's Guide</i> for more information
S-Video Output	To connect a camcorder, a VCR with S-Video, or a TV with S-Video. You use this connection, also connect the L/R audio output on the EXPLORER 2000 to the same connections on your TV, VCR, or stereo
Video Output	To connect the video channel to a TV or VCR. You use this connection, also connect the L/R audio output on the EXPLORER 2000 to the same connections on your TV, VCR, or stereo
Stereo Audio Output	To connect left and right audio channels to a stereo receiver or a TV with stereo sound. Required connections if you connect the video output (see the previous item) to your TV, VCR, or stereo receiver
Cable Output	To connect the cable to a TV or a VCR
Cable Input	To connect the cable signal from the cable company to the EXPLORER 2000
RF Bypass Option	To bypass the EXPLORER 2000 and watch regular cable TV
AC Power Input	To connect the EXPLORER 2000 power cord to an electrical outlet
AC Switched Outlet	To connect power to another device, typically your TV

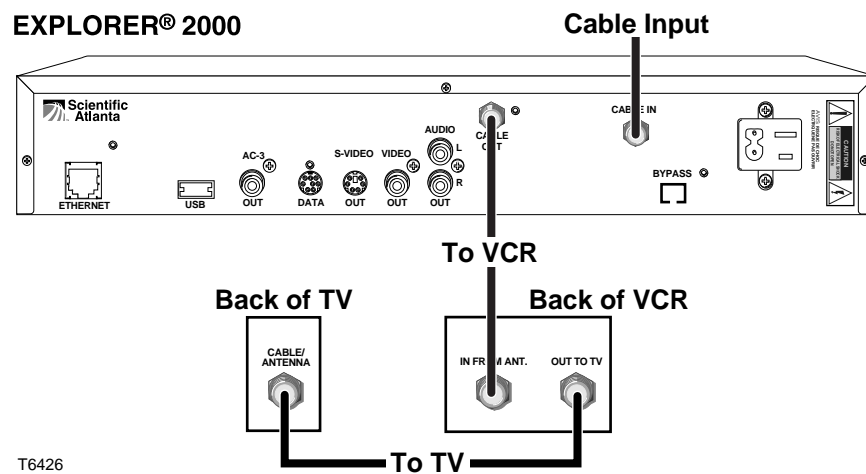
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How to Connect, Continued

To Connect to a TV and VCR

TV ~~STEREO~~

VCR ~~STEREO~~



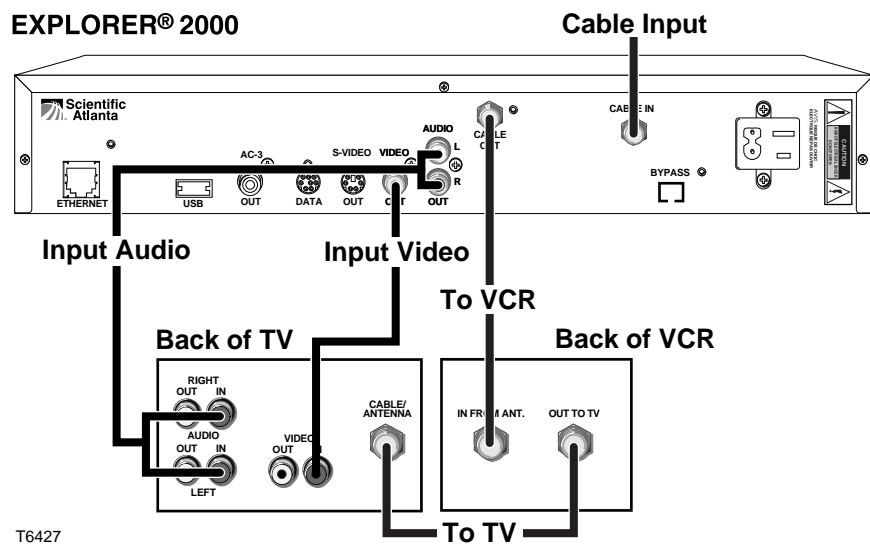
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How to Connect, Continued

To Connect to a Stereo TV and Non-Stereo VCR

TV ~~STEREO~~

VCR ~~STEREO~~

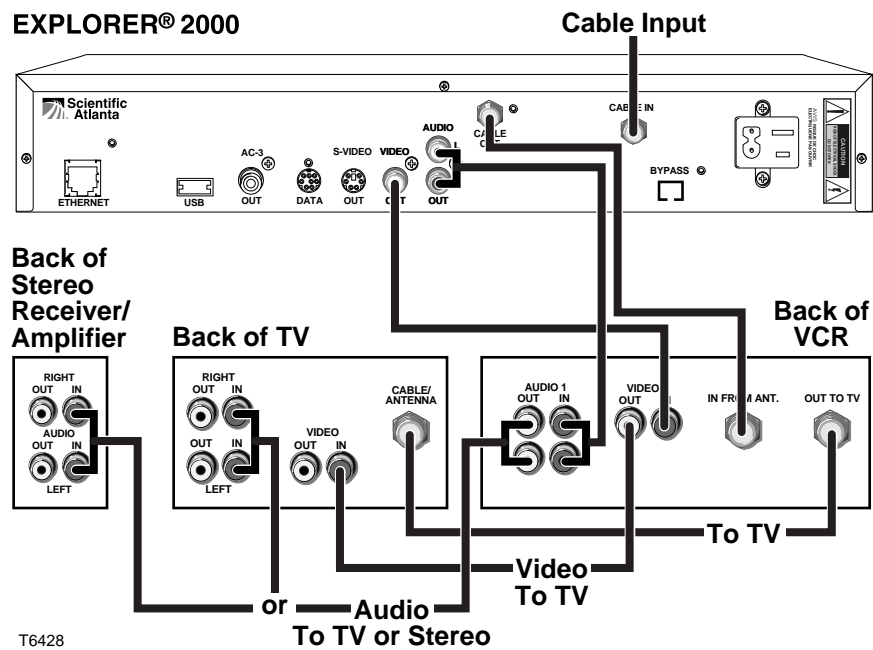


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How to Connect, Continued

To Connect to a Stereo TV, Stereo VCR, and Stereo Receiver

TV (STEREO)
VCR (STEREO)
Receiver (STEREO)



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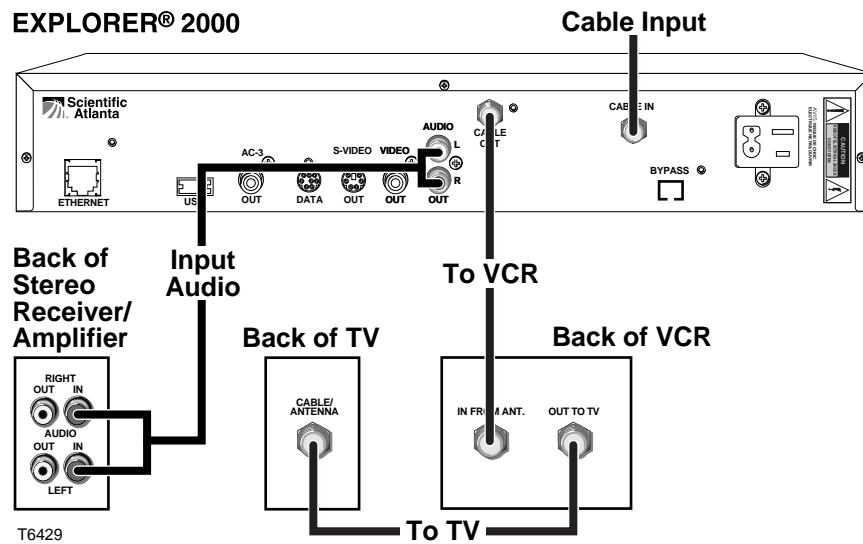
How to Connect, Continued

To Connect to a Stereo TV, Non-Stereo VCR, and Stereo Receiver

TV ~~STEREO~~

VCR ~~STEREO~~

Receiver ~~STEREO~~



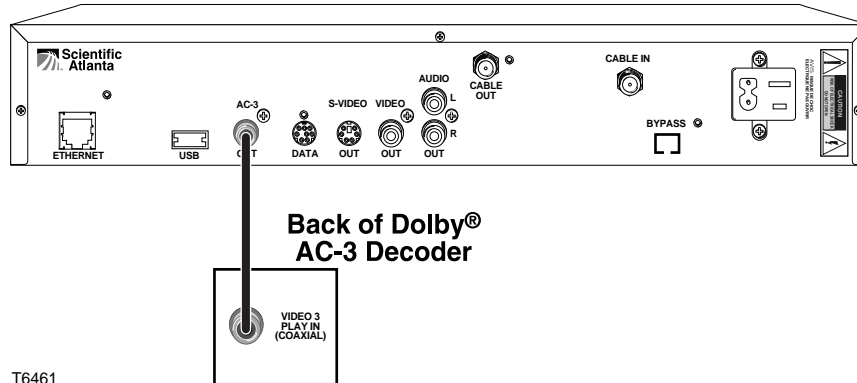
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How to Connect, Continued

To Connect to an AC-3 Decoder

Should you have a Dolby® AC-3 Decoder, connect as follows:

EXPLORER® 2000



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Problems?

Problem?

Problem	What To Do
No picture	<ul style="list-style-type: none">• Plug your television and EXPLORER 2000 into an electrical outlet.• Make sure all cables are properly connected.• Make sure the TV power is on.• If your setup includes a VCR and/or stereo, make sure you have properly connected them to the EXPLORER 2000.• Make sure your TV is tuned to the proper output channel (3 or 4).• Make sure the Bypass is disabled. See How to Bypass for more information.
No sound	<ul style="list-style-type: none">• Properly plug your television and EXPLORER 2000 into an electrical outlet.• Make sure all cables are properly connected.• Make sure the TV power is on.• If your setup includes a VCR and/or stereo, make sure you have properly connected them to the EXPLORER 2000.• Make sure your TV is tuned to the proper output channel (3 or 4).• Make sure the volume is turned up.• Make sure the Bypass is disabled. See How to Bypass for more information.
Distorted picture	<ul style="list-style-type: none">• Make sure all cables are properly connected.• Adjust the TV to channel 3 or 4.
No color	<ul style="list-style-type: none">• Make sure the current TV program is broadcast in color.• Adjust the TV color controls.
Remote control does not work	<ul style="list-style-type: none">• Make sure the remote control batteries are good.• Point the remote control directly toward the EXPLORER 2000 when changing channels.• Make sure you properly programmed the remote control. See Appendix A for more information.
EXPLORER 2000 does not work	<ul style="list-style-type: none">• Make sure the unit is properly plugged into an electrical outlet.• Make sure all cables are properly connected.• If the electrical outlet is controlled by a wall switch, make sure the switch is in the ON position.

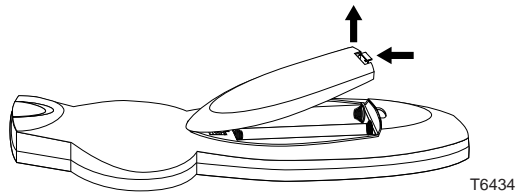
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Problems?, Continued

How to Replace the Remote Control Batteries

Your remote control requires two AA *alkaline* batteries.

1. Press forward then lift up on the lever on the back cover of the remote control. The battery cover releases, and you can pull the cover up to remove it.

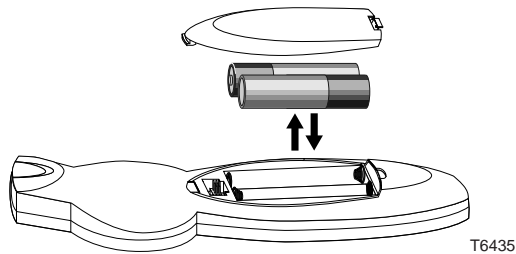


2. Remove and safely dispose of the old batteries.

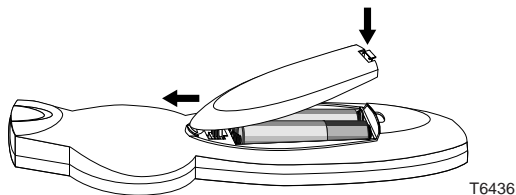


Caution:

Make sure you correctly align the positive (+) and negative (-) terminals on the batteries to the corresponding terminals in the remote control.



3. Insert and firmly seat two new AA batteries (alkaline required) into the battery compartment.
4. Slide the front of the battery cover back onto the remote control and snap the back of the cover into place.



Appendix A



How to Program the Remote Control

Introduction

The Model 8650-ER1 remote control for the EXPLORER® 2000 Digital Home Communications Terminal is a *universal* remote control. You can program it to operate your TV and your VCR using the following procedures.

How to Program for TV Operation

Make sure your TV is powered-on before you program the remote control.

1. Locate the TV setup code in the tables on the pages that follow. If your TV is not listed, see **Searching the Code Library**.
2. Point the remote control *away* from the EXPLORER 2000, the TV, and the VCR.
3. On your remote control, press and hold  and  at the same time, until the LED on the remote blinks twice.
4. Using the remote control keypad, enter your TV's 3-digit setup code. The LED on the remote control should blink twice. If not, try another setup code, if available.
5. Confirm by pointing the remote control *toward* the TV and test the **Power**, **Volume**, and **Mute** functions.

Note: If you programmed the remote control to adjust the volume on your settop box rather than the volume on the TV, test only the **Power** function. If these functions do not operate from the remote control, enter the next TV setup code in the list by repeating this procedure from step 1.



Continued on next page

How to Program the Remote Control, Continued

To Program for VCR Operation

You can program the EXPLORER 2000 remote control to play video tapes. If you want the EXPLORER 2000 to manage the recording of events with your VCR, you must use the VCR Commander™ module. Without this module, you must manually program your VCR to record. See the *VCR Commander™ User's Guide* for more information or ask your cable company.

Make sure your VCR is powered-on before you program the remote control.

1. Locate the VCR setup code in the tables on the pages that follow. If your VCR is not listed, see **Searching the Code Library**.
2. Point the remote control *away* from the EXPLORER 2000, the TV, and the VCR.
3. On your remote control, press and hold  and  at the same time until the LED on the remote blinks twice.
4. Using the remote control keypad, enter your VCR's 3-digit setup code. The LED on the remote control should blink twice. If not try another setup code, if available.
5. Confirm by pointing the remote control *toward* the VCR and test the **Power**, **Play**, and **Stop** functions. If these functions do not operate from the remote control, enter the next VCR setup code in the list by repeating this procedure from step 1.

Note: The slide switch must be in the VCR mode to test the remote control's VCR functions.

Note: The slide switch on the remote control must be in the VOD position in order for the **Record** and **Stop** features of the VCR Commander to work with the remote control.

Continued on next page

How to Program the Remote Control, Continued

TV Setup Codes

TV Brand	Code	TV Brand	Code	TV Brand	Code
Admiral	107	Dumont	031	LG	070
Adventura	060	Electroband	014	Luxman	070
Aiko	106	Emerson	168, 191, 192, 193, 194, 250, 296, 477	Logik	030
Akai	044	Envision	044	LXI	061, 068, 168, 170, 192
Alaron	193	Fisher	168	Magnavox	044, 068, 193
Ambassador	191	Fujitsu	193	Majestic	030
Anam	194	Funai	185, 193, 194	Marantz	044, 068
AOC	033, 044, 199	Futuretech	194	Matsushita	264
Audiovox	194	GE	035, 061, 065, 149, 192, 296, 465, 107	Megatron	159, 192
Baysonic	194	Gibraltar	031, 044	MEI	199
Bell & Howell	030, 168	GoldStar	044, 070, 192	Memorex	030, 070, 164, 168, 192, 264
Bradford	194	Gradiente	067, 070	MGA	044, 164, 192
Brocksonic	250, 477	Grunpy	193, 194	Midland	031, 053, 061, 065, 149
Candle	044, 060, 070	Hallmark	192	Minutz	035
Carnivale	044	Harley Davidson	193	Mitsubishi	033, 107, 164, 192
Carver	068	Harvard	194	Motorola	069, 107
Celebrity	014	Hitachi	070, 159	MTC	044, 070, 074
Cineral	106, 465	Infinity	068	Multitech	194
Citizen	044, 060, 070, 074, 106	Inteq	031	NAD	170, 180, 192
Concerto	070	Janeil	060	NEC	044, 070
Contec	194, 199	JBL	068	Nikko	044, 106, 192
Craig	194	JCB	014	NTC	106
Crosley	068	JVC	067	Onwa	194
Crown	194	KEC	194	Optimus	168, 180, 264
Curtis Mathes	030, 180, 044, 061, 065, 068, 070, 074, 107, 159, 168, 465	Kenwood	044	Optonica	107, 179
CXC	194	Kloss	060	Orion	250, 193, 477
Daewoo	106, 465	KTV	044, 194	Panasonic	065, 264
Denon	159				

Continued on next page

How to Program the Remote Control, Continued

TV Brand	Code	TV Brand	Code	TV Brand	Code
Penney	035, 044, 061, 065, 074, 149, 170, 192, 070	Semivox	194	Yamaha	033, 044
Philco	044, 068, 159 477	Semp	170	Zenith	030, 031
Philips	068	Sharp	107, 179		
Pilot	044	Signature	030		
Pioneer	180	Sony	014		
Portland	106	Soundesign	192, 193, 194		
Prism	065	Squareview	185		
Proscan	061	SSS	194		
Proton	192	Starlite	194		
Pulsar	031	Supre-Macy	060		
Quasar	065, 179, 264	Supreme	014		
Radio Shack	044, 061, 070, 168, 179, 192, 194	Sylvania	044, 068		
RCA	061, 104, 149 065, 107	Symphonic	185		
Realistic	044, 070, 168, 179, 192, 194	Tandy	107		
Runco	031, 044	Technics	065, 264		
Sampo	044	Technol Ace	193		
Samsung	044, 070, 074, 192	Techwood	065, 070		
Sansei	465	Teknika	030, 068, 070, 074, 106, 164, 193, 194		
Sansui	477	Telefunken	070		
Sanyo	168	TMK	070, 191, 192		
Scotch	192	Toshiba	074, 168, 170		
Scott	192, 193, 194, 250	Vector Research	044		
Sears	061, 068, 070, 168, 170, 185, 192, 193	Victor	067		
		Vidikron	068		
		Vidtech	192		
		Viking	060		
		Wards	030, 035, 044, 068, 070, 179, 192, 193		

Continued on next page

How to Program the Remote Control, Continued

VCR Setup Codes

VCR Brand	Code	VCR Brand	Code	VCR Brand	Code
Admiral	062	Electroponic	051	Logik	086
Adventura	014	Emerex	046	LXI	051
Aiko	292	Emerson	014, 016, 051, 057, 075, 135, 198, 222, 225, 226, 292,	Magnasonic	292
Aiwa	014, 051	Fisher	061, 068, 118	Magnavox	049, 053, 095, 163
Akai	055, 075, 120	Fuji	047, 049	Magnin	254
American High	049	Funai	014	Marantz	049, 095
Asha	254	Garrard	014	Marta	051
Audiovox	051	GE	049, 062, 074, 254	Matsushita	049, 176
Beaumark	254	GoldStar	051, 052	MEI	049
Bell & Howell	118	Gradiente	014	Memorex	014, 049, 051, 053, 060, 061, 062, 118, 176, 254
Broksonic	016, 135, 198, 225	Harley Davidson	014	MGA	057, 075, 254
Calix	051	Harman/Kardon	052	MGN Technology	254
Canon	049	Harwood	086	Minolta	056, 119
Carver	095	Headquarter	060	Mitsubishi	057, 062, 075, 081
CCE	086, 292	HI-Q	061	Motorola	049, 062
Cineral	292	Hitachi	014, 055, 056, 119	MTC	014, 254
Citizen	051, 292	Jensen	055	Multitech	014, 086
Colt	086	JVC	055, 081	NEC	052, 055, 081, 118
Craig	051, 061, 086, 254	KEC	051, 292	Nikko	051
Curtis Mathes	049, 055, 074, 176	Kenwood	052, 055, 081	Noblex	254
Cybernex	254	KLH	086	Olympus	049
Daewoo	059, 292	Kodak	049, 051	Optimus	051, 062, 118, 176
Denon	056	Lloyd's	014, 222		
Dynatech	014				
Electrohome	051				

Continued on next page

How to Program the Remote Control, Continued

VCR Brand	Code
Orion	016, 198
Panasonic	049, 176
Penney	049, 051, 052, 056, 068, 254
Pentax	056, 119
Philco	049
Philips	049, 095
Pilot	051
Pioneer	081
Profitronic	254
Proscan	074
Protec	086
Pulsar	053
Quarter	060
Quartz	060
Quasar	049, 176
Radio Shack	014, 051
Radix	051
Randex	051
RCA	049, 056, 062, 074, 119, 120, 254
Realistic	014, 049, 051, 060, 061, 062, 118
Runco	053
Samsung	059, 254
Sanky	053, 062
Sansui	014, 055, 081

VCR Brand	Code
Sanyo	060, 061, 118, 254
Scott	057, 059, 135, 198, 225, 226
Sears	014, 049, 051, 056, 060, 061, 068, 118, 119
Semp	059
Sharp	062
Shintom	086
Shogun	254
Singer	086
Sony	014, 046, 048, 049
STS	056
Sylvania	014, 049, 057, 095
Symphonic	014
Tatung	055
Teac	014, 055
Technics	049, 176
Teknika	014, 049, 051
Thomas	014
TMK	222, 254
Toshiba	057, 059, 226
Totevison	051, 254
Unitech	254
Vector	059
Vector Research	052

VCR Brand	Code
Video Concepts	059, 075
Videosonic	254
Wards	014, 049, 056, 061, 062, 074, 086, 095, 226, 254
White Westinghouse	292
XR-1000	014, 049, 086
Yamaha	052
Zenith	014, 047, 053



Continued on next page

How to Program the Remote Control, Continued



To Search the Code Library

If none of the listed TV or VCR codes work, you can enter a code that searches the library of codes. The remote control automatically selects the proper code for your TV or VCR. Make sure your TV or VCR is powered-on before you program the remote control.

1. Point the remote control **away** from your TV or VCR depending on which one you are programming.
2. Do one of the following:



- To search for TV codes, press and hold  and  at the same time until the LED on the remote control blinks twice,

or,

- To search for VCR codes, press and hold  and  at the same time until the LED on the remote control blinks twice.

Note: The LED on the remote control also blinks twice when it reaches the end of its search library.


3. Using the remote control keypad enter **991**. The LED on the remote blinks twice.

4. Point the remote control **toward** your TV or VCR, and press  *or*  depending on which one you are programming.

- If the TV or VCR turns off, go to step 6.

or,

- If the TV or VCR remains on, repeat step 4.

5. Press  to confirm a valid code. The remote control LED blinks twice.

6. Point the remote **toward** the device you programmed and power-on and off to confirm operation.

Continued on next page



How to Program the Remote Control, Continued

To Identify Programmed Codes



If you need to know what code you programmed your TV or VCR, the remote control indicates each number in the code based on the number of LED blinks.

1. Point the remote control **away** from the EXPLORER 2000, the TV, and the VCR.

2. Do one of the following:

- To identify the TV code, press and hold  and  at the same time until the LED on the remote control blinks twice

or,

- To identify the VCR code, press and hold  and  at the same time until the LED on the remote control blinks twice.

3. Using the remote control keypad enter **990**. The LED on the remote blinks twice.
4. Press **1** on the keypad, then count the LED blinks. The number of blinks indicates the first number in the code. For example, 4 blinks indicates the first number in the code is 4.
5. Press **2** on the keypad, then count the LED blinks. The number of blinks indicates the second number in the code.
6. Press **3** on the keypad, then count the LED blinks. The number of blinks indicates the third number in the code.
7. Write down the code for future reference.





TV Code:	VCR Code:
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Continued on next page

How to Program the Remote Control, Continued

To Program for Volume Control

You can program the remote control to control the volume and mute functions through the EXPLORER 2000, or through your TV.

1. Point the remote control *away* from the EXPLORER 2000, the TV, and the VCR.
 2. Press and hold  and  at the same time until the LED on the remote control blinks twice.
 3. Using the remote control keypad enter **993**. The LED on the remote blinks twice.
 4. Press  or , depending on which device you want to control the volume. The LED on the remote control blinks twice to confirm a valid selection.
 5. Point the remote *toward* the device on which you chose to control the volume, and adjust the volume to confirm operation.
-

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This equipment has been tested and found to comply with the applicable limits of Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult your cable company or an experienced radio/television technician for help

Any changes or modifications not expressly approved by Scientific-Atlanta could void the user's authority to operate the equipment.

FCC Declaration of Conformity

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

EXPLORER® 2000 Digital Home Communications Terminal models:

- Model
- Model

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Canada EMI Regulation

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



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