

# RCA

## IP Video Decoder User's Guide

Changing Entertainment. Again.

TOCOM 16195310  
English/Français/Español



### IP900

# Important Information

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## CAUTION

RISK OF ELECTRIC SHOCK.  
DO NOT OPEN.

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.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

## WARNING

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

## IMPORTANT SAFETY INSTRUCTIONS

When using this product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Do not use this product near water, for example, near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
2. Use only the power supply indicated in this manual.

## SAVE THESE INSTRUCTIONS

Refer to the identification/rating label located on the back panel of your product for its proper operating voltage.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Caution: To reduce the risk of fire, use only No. 26 AWG or larger DSL telecommunication line cord.

The apparatus should not be exposed to dripping or splashing. Also, no objects filled with liquids, such as vases, should be placed on the apparatus.

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# Chapter 1: Connections and Setup

## Things to Consider Before Connecting Components

### Protect Components From Power Surges

- Connect all components before plugging any power cords into the wall outlet.
- Always turn off the TV and other components before you connect or disconnect any cables.

### Position Cables to Avoid Audio Hum or Interference

- Insert all cable plugs firmly into their jacks.
- Place any Audio/Video (A/V) cables to the side(s) of the TV's back panel instead of straight down the back after connecting components.
- Try not to coil any twin-lead antenna cables and keep them away from all A/V cables as much as possible.
- Make sure all antennas and cables are properly grounded. Refer to the *Safety Tips* sheet packed with your unit for detailed information.

### Protect Components From Overheating

- Never block ventilation slots in any component. Arrange the components so that air can circulate freely.
- Do not stack components.
- Allow adequate ventilation when placing components in a stand.
- Place an amplifier or other hot component on the top shelf of a stand so heated air rising from it will not flow around other components.

## Cables to Connect Components to Your IP Decoder

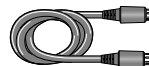
The pictures below show the cables that can be used for the connections represented in this book.



Audio/Video cables  
(included)



Coaxial cable



S-Video cable  
(included)



Digital Optical cable





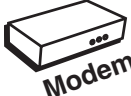



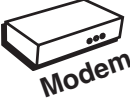




Ethernet cables

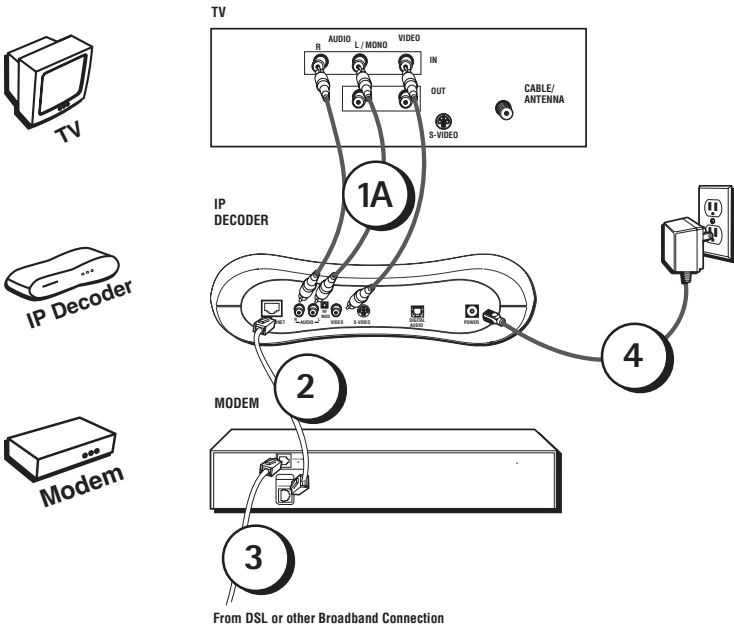
# Chapter 1: Connections and Setup

## Choose Your Connection

There are several ways to hook up your IP decoder, depending on the components connected. Please use the following chart to determine which connection is best for you and proceed to the appropriate page.

*Note: For assistance in connecting your decoder, contact your service provider.*

Components	Connection Title	Go To
 TV  IP Decoder  Modem	TV + IP Decoder + Modem	page 5
 TV  VCR  IP Decoder  Modem	TV + VCR + IP Decoder + Modem	pages 6–7
 TV  A/V Receiver  IP Decoder  Modem	TV +A/V Receiver + IP Decoder + Modem	pages 8–9



The back of your TV might not look exactly like the one shown here.

Caution: To reduce the risk of fire, use only No. 26 AWG or larger DSL telecommunication line cord.

## TV + IP Decoder + Modem

### 1. Connect the Decoder to the TV

- Connect audio/video cables to the AUDIO OUT R and L jacks on the back of the decoder (color coded, red and white), and to the VIDEO OUT jack (yellow). Connect the other ends of the cables to the corresponding input jacks on the TV (sometimes labeled VIDEO, AUDIO L/MONO, and AUDIO R).
- If your TV doesn't have audio/video input jacks, you need to use an RF modulator (not included). Connect the three-pronged end of the modulator cable into the AUDIO OUT L, RF MOD, and VIDEO jacks on the back of the decoder. Then use a coaxial cable to connect the Out to TV jack on the modulator to your TV's antenna in jack (sometimes labeled CABLE/ANTENNA).

*Note: If your TV has an S-Video input, we recommend you make the video connection by using this jack instead of the video jack. Remember to connect audio cables for this connection as S-Video only carries the picture signal, not the sound.*

### 2. Connect the ethernet cable to the IP Decoder

Connect one end of a standard CAT-5 ethernet cable (not included) to the ETHERNET jack on the modem and the other end to the ETHERNET jack on the decoder.

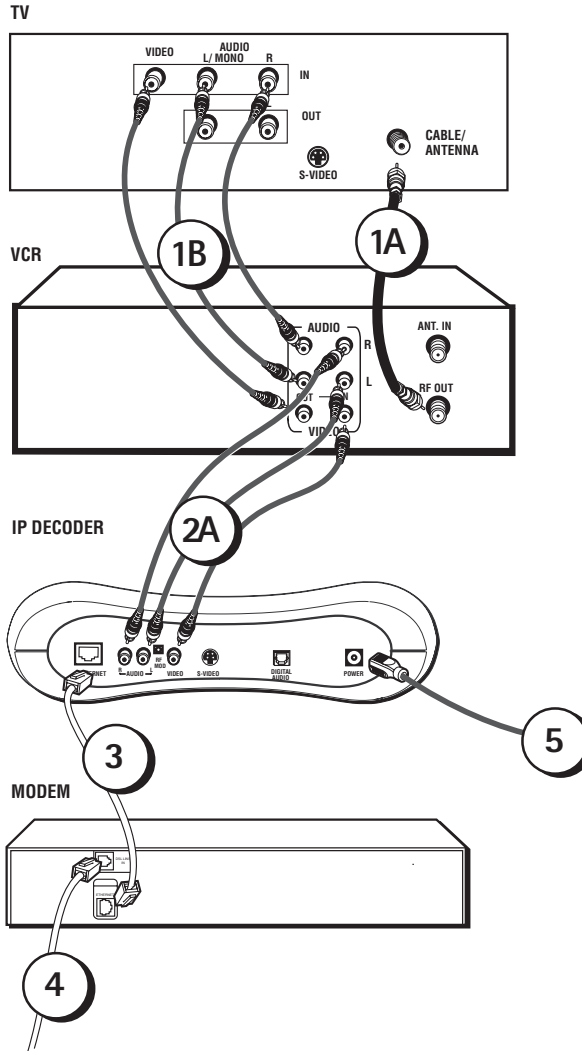
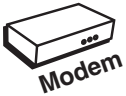
### 3. Connect the DSL line to the DSL Modem

Connect the DSL line from the wall jack to the DSL LINE IN jack on your modem.

### 4. Plug the power supply into the IP Decoder power jack and into an AC outlet.

**Go To Page 10**

# Chapter 1: Connections and Setup



The back of your TV might not look exactly like the one shown here.

The back of your VCR might not look exactly like the one shown here.

Caution: To reduce the risk of fire, use only No. 26 AWG or larger DSL telecommunication line cord.

From DSL or other Broadband Connection



## **TV + VCR + IP Decoder + Modem**

### **1. Connect the VCR to the TV**

- A. Connect one end of the RF coaxial cable to the RF OUT jack on the back of the VCR and the other end to the TV's antenna in jack (sometimes labeled CABLE/ANTENNA).

– OR –

- B. Connect audio/video cables to the AUDIO OUT R and L jacks on the back of the VCR (color coded, red and white), and to the VIDEO OUT jack (yellow). Connect the other ends of the cables to the corresponding input jacks on the TV (sometimes labeled VIDEO, AUDIO L/MONO, and AUDIO R).

### **2. Connect the IP Decoder to the VCR**

- A. Connect audio/video cables to the AUDIO OUT R and L jacks on the back of the decoder (color coded, red and white), and to the VIDEO OUT jack (yellow). Connect the other ends of the cables to the corresponding input jacks on the VCR (sometimes labeled VIDEO, AUDIO L/MONO, and AUDIO R).

– OR –

- B. If your TV doesn't have audio/video input jacks, you need to use an RF modulator (not included). Connect the three-pronged end of the modulator cable into the AUDIO OUT L, RF MOD, and VIDEO jacks on the back of the decoder. Then use a coaxial cable to connect the Out to TV jack on the modulator to your TV's antenna in jack (sometimes labeled CABLE/ANTENNA).

#### *Notes:*

*If your TV has an S-Video input, we recommend you make the video connection by using this jack instead. Remember to connect audio cables for this connection as S-Video only carries the picture signal, not the sound.*

*If you have any problems with the picture quality, you may want to connect the decoder directly to your TV. You won't be able to record programming with this connection, however.*

### **3. Connect the ethernet cable to the IP Decoder**

Connect one end of the ethernet cable to the ETHERNET jack on the modem and the other end to the ETHERNET jack on the decoder.

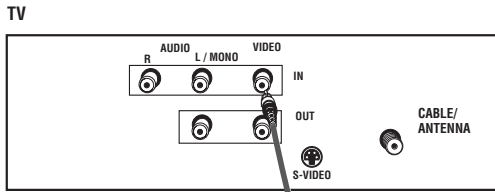
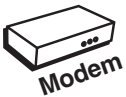
### **4. Connect the DSL line to the DSL Modem**

Connect the DSL line from the wall jack to the DSL LINE IN jack on your modem.

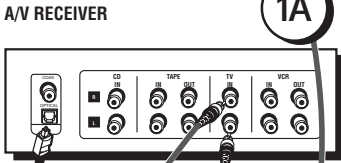
### **5. Plug the power supply into the IP Decoder power jack and into an AC outlet.**

**Go To Page 10**

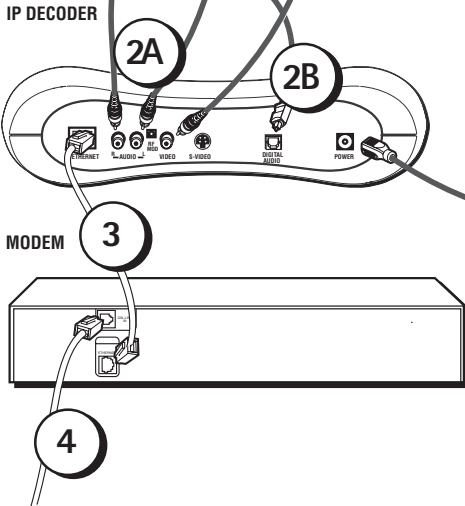
# Chapter 1: Connections and Setup



The back of your TV might not look exactly like the one shown here.



The back of your receiver might not look exactly like the one shown here.



Caution: To reduce the risk of fire, use only No. 26 AWG or larger DSL telecommunication line cord.

From DSL or other Broadband Connection

Please Read This Before Using the DIGITAL AUDIO OUT Jack!

This unit's digital output jack is designed for a connection to a Dolby Digital receiver or decoder. Older digital equipment may not be compatible with the Dolby Digital bitstream. Such a connection can create a high level of noise that may be harmful to your ears, and could damage headphones or speakers.

## **TV + A/V Receiver + IP Decoder + Modem**

### **1. Connect the Decoder to the TV**

- A. Connect the video cable to the VIDEO OUT jack (yellow) on the back of the decoder and the other end of the cable to the corresponding input jack on the TV (sometimes labeled VIDEO).
- B. If your TV doesn't have a video input jack, you need to use an RF modulator (not included). Connect the three-pronged end of the modulator cable into the AUDIO OUT L, RF MOD, and VIDEO jacks on the back of the decoder. Then use a coaxial cable to connect the Out to TV jack on the modulator to your TV's antenna in jack (sometimes labeled CABLE/ANTENNA).

*Note: If your TV has an S-Video input, we recommend you make the video connection by using this jack instead. Remember to connect audio cables for this connection as S-Video only carries the picture signal, not the sound.*

### **2. Connect the A/V Receiver to your Decoder**

- A. Connect audio/video cables to the AUDIO OUT R and L jacks on the back of the decoder (color coded, red and white). Connect the other ends of the cables to the corresponding input jacks on your A/V receiver (sometimes labeled VIDEO, AUDIO L/MONO, and AUDIO R). You may also want to connect video to your receiver (or TV using instructions on the previous pages).

– OR –

- B. If you have an audio/video receiver with Dolby\* Digital or a digital optical jack, remove the protective cap from the OPTICAL DIGITAL AUDIO OUT jack on the back of the decoder (if necessary) and also remove the protective caps from your digital optical cable.

Connect one end of the digital optical cable to the OPTICAL AUDIO OUT jack on the back of the decoder and the other end to the corresponding input jack on your A/V receiver (sometimes labeled OPTICAL IN). You may also want to connect video to your receiver (or TV using instructions on the previous pages).

### **3. Connect the ethernet cable to the IP Decoder**

Connect one end of a standard CAT-5 ethernet cable (not included) to the ETHERNET jack on the modem and the other end to the ETHERNET jack on the decoder.

### **4. Connect the DSL line to the DSL Modem**

Connect the DSL line from the wall jack to the DSL LINE IN jack on your modem.

### **5. Plug the power supply into the IP Decoder power jack and into an AC outlet.**

**Go To Page 10**

*\*Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.*

# Chapter 1: Connections and Setup

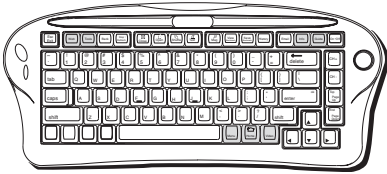
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## **Turn on the TV and IP Decoder**

1. Turn on the TV (if the TV you've connected to the decoder is a compatible RCA, GE, or Proscan TV, press the TV button on the remote packed with your decoder).
2. Tune the TV to the correct Video Input Channel.
  - If you used a coaxial cable (with optional RF modulator) to connect your decoder to your TV, tune the TV to channel 3 or 4.
  - If you used audio/video or S-video cables to connect your decoder, tune the TV to its Video Input Channel (see page 26).

## **Put Batteries in the Remote Control**

Insert the batteries matching the polarities (+ and -) on the batteries with the diagram in the battery compartment.

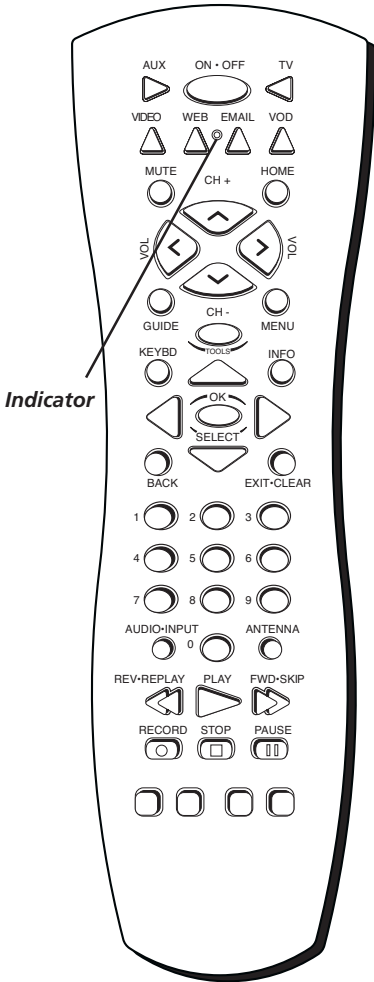


## **Put Batteries in the Optional Wireless Keyboard**

Insert the batteries matching the polarities (+ and -) on the batteries with the diagram in the battery compartment.

Check with your service provider about purchasing the optional wireless keyboard to make email and web surfing easier.

# Chapter 2: The Remote Control



*Note: The TV and AUX buttons also turn on most RCA, GE, and Proscan, products.*

## Tip

*To turn off most RCA, GE, and Proscan components that are connected to the decoder, press ON•OFF twice within two seconds.*

*This feature only works with some RCA, GE, and Proscan products.*

## The Buttons on the Remote Control

**(0-9) Number buttons** Select channels by pressing the number buttons.

**Red, green, yellow, and blue buttons (at the bottom of the remote)** Specific functions defined by your service provider.

**ANTENNA** In decoder mode, turns off the decoder signal to allow other signals to pass through. In VCR mode, functions as the TV/VCR button.

**Arrows** Move the on-screen highlight, and enter data such as letters or numbers in certain menus.

**AUDIO•INPUT** In decoder mode, changes the program's audio language, if available. In VCR or TV mode, selects between the Video Input Channel and the tuner for compatible components. Video Input Channel refers to the signal coming from the component connected to the audio/video input jacks on the VCR or TV.

**AUX** Puts the remote in AUX mode. Can also be programmed to operate some compatible products (A/V receiver, DVD, VCR, etc).

**BACK** In Web mode, goes to the previous web page. In menus, goes back to the previous screen or menu. In TV mode, may return to the previously viewed channel.

**CH + and CH -** Selects next higher or lower channel in the channel list.

**EMAIL** Turns on the decoder and goes to your email account, if your service provider offers one.

**EXIT•CLEAR** Exits or clears menus.

**FWD•SKIP** Fast forwards video in stop mode. This button also searches forward if pressed during playback.

**GUIDE** Displays the decoder program guide, if your service provider offers one.

**HOME** In Web mode, takes you to your home page.

**Indicator** Indicates the programming mode when programming the remote to control components.

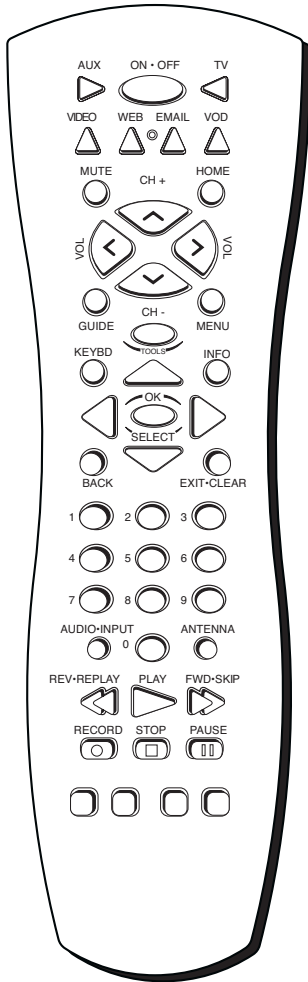
**INFO** Shows on-screen information of the decoder, VCR, TV, DVD player, etc. (whichever component is set as the remote control's active device).

**KEYBD** Brings up the on-screen keyboard or removes it. Also acts as an enter button when using the on-screen keyboard.

**MENU** Displays the on-screen menu system.

**MUTE** Reduces the TV's volume to a minimum level on compatible TVs or A/V receivers.

## Chapter 2: Remote Control



*Note: If you press a button when the batteries are low, the indicator flashes.*

**OK•SELECT** In on-screen menus, this button acts as an *Enter* button (used in conjunction with the remote control's arrow buttons). This button selects the highlighted on-screen menu item.

**ON•OFF** Turns the component on or off when the remote control is set to operate that component.

**PAUSE** Pauses playback or recording.

**PLAY** Plays video.

**VOD** Turns on the decoder and starts the Video-on-Demand service, if available from your service provider.

**RECORD** Starts record mode for a compatible VCR.

**REV•REPLAY** Rewinds video or tape when in stop mode. Searches backward during playback mode.

**STOP** Stops the current function (record, playback, rewind, etc).

**TOOLS** Brings up the browser toolbar or removes it.

**VIDEO** Turns on the decoder in TV mode and shows TV programming.

**TV** Turns on a compatible RCA, GE, or Proscan TV and puts the remote control in TV-operating mode. Also used with the ON•OFF button to turn on/off a different brand of TV (if programmed).

**VOL < and >** Raises and lowers the volume of some compatible TVs or A/V receivers (if programmed).

**WEB** Turns on the decoder in Web mode.

## Using the INPUT Button

Use the INPUT button to scroll through the available Video Input Channel sources for a TV or VCR and regular broadcast signals. The Video Input Channels allow you to view images from a component connected to the TV or VCR (such as a camcorder or DVD player).

1. Press the remote control's TV or AUX button (if programmed) to enter the corresponding mode. Make sure the component is turned ON.
2. Press the remote control's INPUT button to tune to the Video Input Channel.
3. To tune back to the broadcast signal you were previously watching through the TV or VCR, press the INPUT button again.

## Volume Punchthrough

You may find this feature helpful if you've connected your components to an audio/video receiver (A/V receiver) or amplifier, but you want to use the decoder's remote control to operate the volume.

Let's say you've connected your IP video decoder to your audio/video receiver. You've also programmed your decoder remote control to operate your receiver. Since the decoder gets its volume through the receiver, you would have to tell the remote you wanted to change the volume on the receiver each time by pressing the AUX button first. With Volume Punchthrough, you can control the receiver's volume, even when the remote is in decoder mode. Just use the volume buttons as normal, and you'll change the receiver's volume automatically (or whatever volume component you used last).

*IMPORTANT: You must first program the AUX button on the decoder's remote control to operate your audio receiver or amplifier. Go to page 14 for instructions. If you can't program this remote to operate your audio receiver, Volume Punchthrough won't work.*

# Chapter 2: Remote Control

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## Programming the Remote to Operate Other Components

The universal remote can be programmed to operate most brands of remote controllable components. The remote is already programmed to operate most RCA, GE, and Proscan components.

### Find Out If You Need to Program the Remote

To determine whether the universal remote needs to be programmed for your component, turn the component ON. For example, to program the remote for a TV, turn on the TV. Point the remote at the TV, and press the TV button. Then press ON•OFF or CH + (channel up) or CH - (channel down) to see if the TV responds to the remote commands. If the component does not respond, the remote needs to be programmed.

### Programming the Remote

There are two ways to program the remote control: direct entry and automatic code search.

---

#### Important

*You must continue pressing the component button while you enter the code.*

*Let's say you have a Zenith TV. To program the universal remote to operate the TV, you would:*

*Press and hold the TV button while you enter the first code listed for Zenith in the TV Codes column.*

*Release the TV button. Press ON•OFF to see if the TV responds. If it doesn't, follow the same steps, but enter the second code for Zenith TVs instead of the first.*

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#### Note

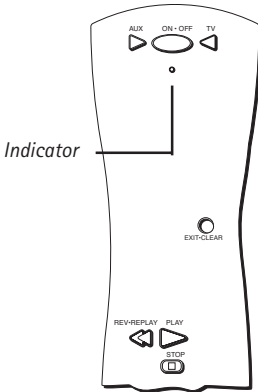
*Some of the remote's buttons might operate differently for other components, especially when you're using another component's menu system.*

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#### Using Direct Entry

1. Turn on the component to be programmed.
  2. Look up the brand and code number(s) for the component on the code list in this section.
  3. Press and hold the component button you want to program on the remote (TV or AUX).
  4. Enter the 4-digit code from the remote control code list on the following pages. If the indicator flashes, you have either entered an invalid code or the button isn't programmable.
  5. Release the component button, point the remote at the component, then press ON•OFF to see if the component responds to the command. If it doesn't, try pressing the component button and then ON•OFF again.
- If you get no response, repeat these steps using the next code listed for your brand, until the component responds to the remote commands.
  - If you try all the codes for your component brand and none work, try the automatic code search method. If automatic code search doesn't work, the remote is not compatible with your component.





Use these buttons when you program the remote.

**Important:** The remote may not be compatible with all models of all brands of components. It may not operate all functions of the remote that came with your component.

*Note: If you need to replace the batteries in the remote, don't press any buttons. If you do, you'll have to reprogram the remote.*

## Using Automatic Code Search to Program Your TV

You can program the remote to operate your TV. To stop the automatic code search without programming your TV, press EXIT•CLEAR until the indicator on the remote turns off.

*Note: AUX can't be programmed using the automatic code search method.*

1. Turn on your TV.
2. Press and hold the TV button. While holding TV, press and hold ON•OFF until the indicator on the remote turns on, then release both buttons.
3. Point the remote at the TV. Press and release PLAY, then wait 5 seconds or until the indicator on the remote stops flashing.

At this point the remote is searching for the correct code to program. If, after 5 seconds, the TV does not turn off, press PLAY again to search the next set of codes.

Continue pressing PLAY until the TV turns off or you have searched through all of the codes. There are 20 total sets of codes. If the TV does not turn off after pressing PLAY 20 times, then the remote can't be programmed to operate it.

If the TV *does* turn off:

1. Press and release REVERSE, then wait 2 seconds. Repeat this step until it turns back ON.
2. Press and hold STOP until the indicator on the remote turns off.

## How to Use the Remote After You've Programmed It

Because this universal remote can control several different components (TV, DVD, VCR, A/V receiver) it uses operational modes triggered by the component buttons. For example, if you want the remote to control the TV, press the TV button to put the remote into TV mode.

1. Press the appropriate component button (TV, AUX, VIDEO, Web, etc.) to set the remote to control the component.
2. Press ON•OFF to turn the component ON or OFF.
3. Use the remote buttons that apply to that component.

*Notes:*

- *The remote may not be compatible with all brands and models of components. It also may not operate all functions of the remote that came with your component.*
- *If you keep pressing buttons and nothing happens, the remote is probably in the wrong mode. You must press the component button that matches the component you want to operate (i.e., if you want to operate the TV, press TV on the remote control to put the remote in TV mode.)*

## Code List

### TV Codes

Abex .....	1172
Admiral .....	1001, 1173, 1211
Adventura .....	1174
Aiko .....	1016
Akai .....	1002
Alleron .....	1046
Amtron .....	1038
Anam National .....	1003, 1038, 1192, 1193, 1194
AOC .....	1004, 1005, 1006, 1007, 1175, 1176, 1195
Audiovox .....	1038
Belcor .....	1004
Bell & Howell .....	1001, 1083, 1162
Bradford .....	1038
Brokwood .....	1004
Candle .....	1004, 1006, 1008, 1174
Celebrity .....	1002
Centurion .....	1009
Citizen .....	1004, 1006, 1008, 1016, 1038, 1105, 1171, 1174, 1177
Colortyme .....	1004, 1006, 1010
Concerto .....	1004, 1006
Contec/Cony .....	1012, 1013, 1014, 1038
Craig .....	1038
Crown .....	1038, 1171
Curtis-Mathes .....	1000, 1004, 1006, 1015, 1105, 1162, 1171, 1212
CXC .....	1038
Daewoo .....	1004, 1005, 1006, 1016, 1017, 1018, 1127, 1171, 1196
Daytron .....	1004, 1006, 1171
Dimensia .....	1000
Dumont .....	1004, 1151
Dynatech .....	1178
Electronband .....	1002
Electrohome .....	1003, 1004, 1006, 1019, 1020, 1022
Emerson .....	1004, 1006, 1012, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1041, 1042, 1043, 1044, 1046, 1047, 1123, 1124, 1162, 1171, 1177, 1179, 1191, 1208
Envision .....	1004, 1006
Fisher .....	1048, 1049, 1051, 1162, 1180
Fujitsu .....	1046
Funai .....	1038, 1046
Futuretec .....	1038
GE .....	1000, 1003, 1004, 1006, 1022, 1052, 1054, 1055, 1087, 1164, 1165, 1166, 1167, 1168, 1181, 1213
Gibraltar .....	1004, 1151
Goldstar .....	1004, 1005, 1006, 1012, 1019, 1056, 1057, 1058, 1155, 1156, 1171, 1172
Grundig .....	1038, 1046, 1171
Hallmark .....	1004, 1006
Harvard .....	1038
Hitachi .....	1004, 1006, 1012, 1013, 1014, 1059, 1060, 1061, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1148, 1150, 1179, 1198, 1199
IMA .....	1038
Infinity .....	1062
Janeil .....	1174
JBL .....	1062
JCB .....	1002
JC Penney .....	1000, 1004, 1005, 1006, 1008, 1022, 1052, 1054, 1058, 1063, 1064, 1072, 1087, 1105, 1128, 1171, 1172, 1181, 1201

Jensen .....	1004, 1006
JVC .....	1012, 1013, 1014, 1054, 1060, 1065, 1066, 1067, 1157, 1158, 1159, 1182
Kawasho .....	1002, 1004, 1006
Kenwood .....	1004, 1006, 1019
Kloss Novabeam .....	1068, 1069, 1174, 1183
KTV .....	1038, 1070, 1171, 1177
Loewe .....	1062
Logik .....	1083
Luxman .....	1004, 1006
LXI .....	1000, 1006, 1049, 1062, 1071, 1072, 1073, 1162, 1181, 1207
Magnavox .....	1004, 1006, 1008, 1019, 1062, 1068, 1069, 1075, 1076, 1077, 1088, 1130, 1131, 1132, 1133, 1134, 1183, 1219, 1235
Majestic .....	1083
Marants .....	1062
Marantz .....	1004, 1006, 1062, 1078
Megatron .....	1006, 1059
Memorex .....	1001, 1006, 1082, 1083, 1162
MGA .....	1004, 1005, 1006, 1019, 1022, 1051, 1079, 1080, 1082
Midland .....	1054, 1151, 1171, 1172, 1181
Minutz .....	1052
Mitsubishi .....	1004, 1005, 1006, 1019, 1022, 1051, 1079, 1080, 1081, 1082, 1125
Montgomery Ward .....	1083
Motorola .....	1003, 1173
MTC .....	1004, 1005, 1006, 1105
Multitech .....	1038
Multivision .....	1084
NAD .....	1006, 1071, 1072, 1185
NEC .....	1003, 1004, 1005, 1006, 1200
Nikko .....	1006, 1016
NTC .....	1016
Onwa .....	1038
Optimus .....	1185
Optonica .....	1095, 1173
Orion .....	1035, 1191
Panasonic .....	1003, 1054, 1062, 1170, 1214
Philco .....	1003, 1004, 1005, 1006, 1008, 1012, 1019, 1062, 1068, 1069, 1075, 1077, 1183
Philips .....	1003, 1004, 1008, 1012, 1019, 1062, 1068, 1069, 1075, 1076, 1086, 1087, 1088, 1089
Pilot .....	1004, 1171
Pioneer .....	1004, 1006, 1090, 1091, 1092, 1179, 1185
Portland .....	1004, 1005, 1006, 1016, 1171
Price Club .....	1105
Prism .....	1054
ProScan .....	1000, 1181
Proton .....	1004, 1006, 1012, 1093
Pulsar .....	1004, 1151
Quasar .....	1003, 1054, 1070, 1094
Radio Shack/Realistic .....	1000, 1004, 1006, 1012, 1038, 1049, 1095, 1162, 1171, 1172
RCA .....	1000, 1003, 1004, 1005, 1006, 1007, 1019, 1096, 1098, 1099, 1100, 1101, 1102, 1103, 1129, 1179, 1181, 1187, 1188, 1190, 1202, 1203, 1215, 1233
Runco .....	1151
Sampo .....	1004, 1006, 1171, 1172
Samsung .....	1004, 1005, 1006, 1012, 1015, 1019, 1104, 1105, 1106, 1171, 1172, 1204
Samsux .....	1171
Sansui .....	1191
Sanyo .....	1004, 1048, 1049, 1080, 1107, 1108, 1162, 1169, 1180
Scotch .....	1006

Scott .....	1004, 1006, 1012, 1024, 1035, 1038, 1046
Sears .....	1000, 1004, 1006, 1013, 1014, 1019, 1046, 1048, 1049, 1051, 1066, 1071, 1072, 1109, 1110, 1162, 1180, 1181, 1189
Sharp .....	1004, 1006, 1012, 1029, 1095, 1111, 1112, 1113, 1122, 1171, 1173
Shogun .....	1004
Signature .....	1001, 1083, 1115
Simpson .....	1008
Sony .....	1002, 1205, 1216, 1218
Soundesign .....	1004, 1006, 1008, 1038, 1046
Squareview .....	1189
SSS .....	1004, 1038
Starlite .....	1038
Supre-Macy .....	1174
Supreme .....	1002
Sylvania .....	1004, 1006, 1008, 1019, 1062, 1068, 1069, 1075, 1076, 1077, 1088, 1116, 1161, 1183
Symphonic .....	1033, 1038, 1189
Tandy .....	1173
Tatung .....	1003
Technics .....	1054
Techwood .....	1004, 1006, 1054
Teknika .....	1004, 1005, 1006, 1008, 1012, 1013, 1014, 1016, 1038, 1046, 1076, 1082, 1083, 1105, 1170, 1171
Telecaption .....	1117
TMK .....	1004, 1006
Toshiba .....	1049, 1071, 1072, 1105, 1109, 1117, 1118, 1160, 1162
Totevision .....	1171
Universal .....	1052, 1087
Victor .....	1066, 1182
Vidtech .....	1004, 1005, 1006
Viking .....	1174
Wards .....	1000, 1001, 1004, 1005, 1006, 1019, 1024, 1033, 1046, 1052, 1062, 1068, 1069, 1075, 1076, 1083, 1087, 1088, 1095, 1119, 1120
Yamaha .....	1004, 1005, 1006, 1019
Zenith .....	1004, 1083, 1151, 1152, 1153, 1154, 1210, 1217

### VCR Codes

Admiral .....	2132
Adventura .....	2026
Aiko .....	2027
Aiwa .....	2026
Akai .....	2003, 2004, 2005, 2007, 2008, 2111, 2112, 2113
American High .....	2021
Asha .....	2013
Audio Dynamics .....	2009, 2010
Audiovox .....	2014
Bell & Howell .....	2011
Beaumarck .....	2013
Broksonic .....	2012, 2025
Calix .....	2014
Candle .....	2013, 2014, 2015, 2016, 2017, 2018, 2019
Canon .....	2021, 2022, 2114
Capehart .....	2020, 2110
Carver .....	2062
CCE .....	2027, 2061
Citizen .....	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2027
Colortyme .....	2009

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# Chapter 2: Remote Control

Colt .....	2061	Optonica .....	2096	Philips .....	3003, 3019, 3021, 3022
Craig .....	2013, 2014, 2023, 2061	Panasonic .....	2021, 2022, 2109, 2125, 2126, 2127	Pioneer .....	3005
Curtis-Mathes .....	2000, 2009, 2013, 2016, 2018, 2021, 2022, 2024, 2115, 2131	Pentax .....	2016, 2055, 2056, 2107, 2120	PROSCAN .....	3000
Cybernex .....	2013	Pentax Research .....	2018	RCA .....	3000, 3001
Daewoo .....	2015, 2017, 2019, 2025, 2026, 2027, 2028, 2110	Philco .....	2021, 2022, 2062, 2063	Sanyo .....	3014
Daytron .....	2110	Philips .....	2021, 2062, 2096, 2124	Shinco .....	3001
DBX .....	2009, 2010	Pilot .....	2104	Sony .....	3006, 3015, 3016
Dimensia .....	2000, 2131	Pioneer .....	2010, 2055, 2080, 2081, 2123	Toshiba .....	3007, 3017, 3020
Dynatech .....	2026	Portland .....	2016, 2017, 2019, 2110	Zenith .....	3018
Electrohome .....	2014, 2029	PROSCAN .....	2000, 2001, 2131		
Electrohome .....	2014	Protec .....	2061		
Emerson 2012, 2014, 2015, 2021, 2024, 2025, 2026, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2044, 2045, 2046, 2047, 2065, 2113, 2116, 2117, 2130		Pulsar .....	2104		
Fisher .....	2011, 2023, 2048, 2049, 2050, 2051, 2052, 2118	Quarter .....	2011		
Fuji .....	2021, 2119	Quartz .....	2011		
Funai .....	2026	Quasar .....	2021, 2022, 2125		
Garrard .....	2026	RCA .....	2000, 2001, 2003, 2013, 2021, 2055, 2056, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2107, 2115, 2120, 2125, 2131, 2133		
GE .....	2000, 2001, 2013, 2021, 2022, 2053, 2115, 2120, 2131	Radioshack/Realistic .....	2011, 2013, 2014, 2021, 2022, 2023, 2026, 2029, 2049, 2050, 2096, 2132		
Goldstar .....	2009, 2014, 2018, 2054, 2131	Radix .....	2014		
Gradiente .....	2026	Randex .....	2014		
Harley Davidson .....	2026	Ricoh .....	2128		
Harman Kardon .....	2009	Runco .....	2104		
Harwood .....	2061	Samsung .....	2005, 2013, 2015, 2033, 2053, 2112		
Headquarter .....	2011	Sanky .....	2104, 2132		
Hitachi .....	2055, 2056, 2057, 2107, 2111, 2120, 2122	Sansui .....	2010, 2092, 2111, 2123		
Hi-Q .....	2023	Sanyo .....	2011, 2013, 2023		
Instant Replay .....	2021	Scott .....	2012, 2015, 2025, 2032, 2038, 2065, 2093, 2116		
JCL .....	2021	Sears .....	2011, 2014, 2021, 2023, 2048, 2049, 2050, 2051, 2055, 2056, 2107, 2118		
JC Penney .....	2009, 2010, 2011, 2013, 2014, 2021, 2022, 2055, 2056, 2058, 2059, 2060, 2107, 2118	Sharp .....	2017, 2029, 2094, 2095, 2096, 2097, 2131		
Jensen .....	2055, 2056, 2111	Shintom .....	2004, 2056, 2061, 2098		
JVC .....	2009, 2010, 2011, 2018, 2111, 2123	Shogun .....	2013		
Kenwood .....	2009, 2010, 2011, 2016, 2018, 2111, 2123	Signature .....	2131		
KLH .....	2061	Singer .....	2021, 2061, 2128		
Kodak .....	2014, 2021	Sony .....	2004, 2098, 2099, 2119		
Lloyd .....	2026	STS .....	2021, 2107		
Logik .....	2061	Sylvania .....	2021, 2022, 2026, 2062, 2063, 2065, 2124		
LXI .....	2014	Symphonic .....	2026		
Magnavox .....	2021, 2022, 2062, 2063, 2104, 2105, 2108, 2124	Tandy .....	2011		
Magnin .....	2013	Tashiko .....	2014		
Marantz .....	2009, 2010, 2011, 2016, 2018, 2021, 2062, 2064	Tatung .....	2111		
Marta .....	2014	TEAC .....	2026, 2085, 2111		
Masushita .....	2021	Technics .....	2021, 2109		
Mei .....	2021	Teknika .....	2014, 2021, 2026, 2100, 2129		
Memorex .....	2011, 2013, 2014, 2021, 2023, 2026, 2104, 2132	TMK .....	2013, 2024, 2047		
MGA .....	2029, 2065, 2113	Toshiba .....	2015, 2049, 2051, 2055, 2065, 2093, 2116		
MGN Technology .....	2013	Totevision .....	2013, 2014		
Midland .....	2053	Unitech .....	2013		
Minolta .....	2055, 2056, 2107	Vector Research .....	2009, 2010, 2015, 2016		
Mitsubishi .....	2029, 2055, 2056, 2065, 2066, 2067, 2068, 2070, 2071, 2072, 2073, 2074, 2106, 2113, 2123	Victor .....	2010		
Montgomery Ward .....	2075, 2132	Video Concepts .....	2009, 2010, 2015, 2016, 2113		
Motorola .....	2021, 2132	Videosonic .....	2013		
MTC .....	2013, 2126	Wards .....	2013, 2014, 2015, 2021, 2023, 2026, 2029, 2055, 2056, 2061, 2096, 2101, 2102, 2103, 2107, 2116, 2132		
Multitech .....	2013, 2016, 2026, 2053, 2061	XR-1000 .....	2021, 2026, 2061		
NEC .....	2009, 2010, 2011, 2016, 2018, 2064, 2076, 2078, 2079, 2111, 2123	Yamaha .....	2009, 2010, 2011, 2018, 2111		
Nikko .....	2014	Zenith .....	2004, 2098, 2104, 2119, 2128		
Noblex .....	2013				
Olympus .....	2021				
Optimus .....	2014, 2132				

## Audio Codes

### RCA and Dimensia

AM/FM .....	4003, 4270
AUX .....	4004
Phono .....	4005
Tape .....	4006
CD .....	4007, 4190, 4211

### Receivers

Aiwa .....	4261, 4262, 4263, 4264, 4265, 4266, 4267, 4277
Denon .....	4283
Harman Kardon .....	4276
JVC .....	4268
JVL .....	4276
Kenwood .....	4269
Onkyo .....	4278
Optimus .....	4284
Panasonic .....	4279, 4280
Pioneer .....	4275
RCA .....	4270
Sherwood .....	4282
Sony .....	4271, 4272, 4281
Technics .....	4279, 4280
Wards .....	4275
Yamaha .....	4274, 4275

### CD Players

ADC .....	4200, 4201, 4220
Aiwa .....	4175, 4203
Akai .....	4205
Denon .....	4208
Dynatech .....	4177
Emerson .....	4178
Fisher .....	4179, 4212, 4213
GE .....	4216
Hitachi .....	4180
JVC .....	4181, 4221
Kenwood .....	4183, 4222, 4224
Luxman .....	4225
Marantz .....	4185, 4226
Mitsubishi .....	4229, 4230
MCS .....	4228
Nakamichi .....	4232, 4233
NEC .....	4184
Onkyo .....	4186, 4234, 4235
Optimus .....	4237, 4238, 4239
Panasonic .....	4188
Pioneer .....	4189, 4240
RCA .....	4190, 4211
Sanyo .....	4250
Sears .....	4207
Sherwood .....	4243
Sony .....	4195, 4209, 4244
Teac .....	4245, 4246, 4247
Technics .....	4197
Toshiba .....	4231
Yamaha .....	4198, 4199, 4248

## DVD codes

Aiwa .....	3009
GE .....	3000
Hitachi .....	3008
JVC .....	3002, 3010
Konka .....	3011, 3012
Magnavox .....	3003
Mitsubishi .....	3004
Panasonic .....	3013

# Chapter 3: Decoder Features

## Using the Remote Control to Choose On-screen Menu Items

The technical term is "Navigation" – how you move through the on-screen menus. The theory is the same throughout the menu screens: highlight your choice and select it.

To highlight a menu item, press the arrow buttons on the remote or the keyboard. Use the up or down arrow button to move up or down. Use the right or left arrow button to move left or right.

To select the item that you've highlighted, press OK•SELECT.

For easier menu and web navigation, check with your service provider about purchasing the optional wireless keyboard.

*Note: Highlighted means that the menu item stands out from the other menu items on the list (appears darker, brighter, or a different color).*

## Using the On-Screen Keyboard

The on-screen keyboard is a keyboard that appears on the screen to help you enter text on web pages or menus. The navigation of the keyboard is very similar to remote control navigation in the menus: you highlight the key you want to enter with the arrow buttons and press OK to select it.

- To bring up the on-screen keyboard to enter text, press the KEYBD button when a text box is selected. When you're finished typing the text, press KEYBD to enter it (it works the same as the Enter button on the virtual keyboard).
- To exit the on-screen keyboard, highlight the EXIT button on the keyboard using the arrow buttons, and press OK to select it.

If you have an optional wireless keyboard, using it to enter text will also make the on-screen keyboard disappear.



The on-screen keyboard.

## **Shift, Alt, Ctrl Keys**

These keys can be used in combination with other keys, just like on a standard keyboard. These keys are only applied to the next character you type. A light on the key indicates when it's active.

## **Shortcut Keys**

The .gov, .org, .com, and www. keys are shortcuts for commonly used characters used in web addresses and are added to the text box when selected.



Browser Banner

Browser Toolbar

The web browser showing the browser banner and toolbar.

## Using the Web Browser

The web browser is where you do all your internet browsing. Not only can you surf all your favorite websites, but you can also view and save your bookmarks, view your browsing history, and search for new websites.

### Browser Banner

The browser banner gives you information, such as how to bring up the browser tool bar or take it away, and also the loading status of the current page.

## Browser Toolbar

The browser toolbar is where you enter website addresses and find the tools to navigate the websites.

**Address** – Where you enter your website address.

**Back** – Goes back to the previous page.

**Refresh/Stop** – Refreshes the current page if it stopped loading too soon and also stops the page from loading if in progress.

**Home** – Takes you to the home web page.

**Close icon** – Closes the current window (if other windows are open).

**Shuffle icon** – Swaps open windows.

**Resize text icon** – Resizes the text of the page (up to 3 sizes).

**Magnify icon** – Magnifies the page (up to 3 levels).

**More** – Takes you to the *More Features* menu, where you can view and save bookmarks and view your website history.

**To TV** – Exits the browser and takes you back to TV viewing.

## Entering a Website Address

You can enter a website directly using the browser toolbar.

1. Press the WEB button to put the decoder in web mode.
2. Press the TOOLS button (the browser toolbar appears).
3. Press KEYBD while the website address box is highlighted (the on-screen keyboard appears).
4. Use the arrow buttons on the remote control to highlight the first letter you want to enter. Keep in mind there are shortcut keys on the bottom of the keyboard (.gov, .org, .com, www). When the key is highlighted, press OK•SELECT on the remote to select it.
5. Continue entering all the letters until the website address is complete. Then press KEYBD (the website loads).

*Note: If you make a mistake while entering the address, use DELETE and the arrow buttons on the keyboard to correct it.*

# Chapter 3: Decoder Features

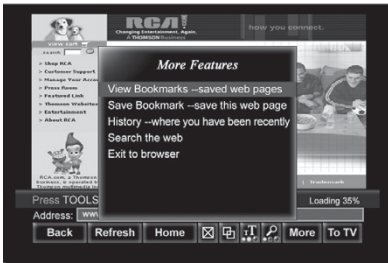
## Web Page Navigation

You can use the arrow buttons on the remote or the optional wireless keyboard to move around web pages.

To hide the browser toolbar so that you can browse the page, press the TOOLS button or use the up arrow button to move from the toolbar to the website.

Notes:

- While the toolbar is on the screen, you can't browse the web page or access links.
- While navigating a web page, you can only bring up the toolbar using the TOOLS button.

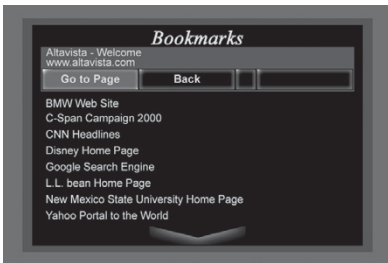


## More Features

### Viewing Your Bookmarks

View your bookmarks from the *More Features* menu.

1. Press the TOOLS button (the browser toolbar appears).
2. Use the arrow buttons to highlight the *More* button.
3. Press OK to select it (the *More Features* menu appears).
4. Highlight *View Bookmarks*, and press OK (the *Bookmarks* list appears).



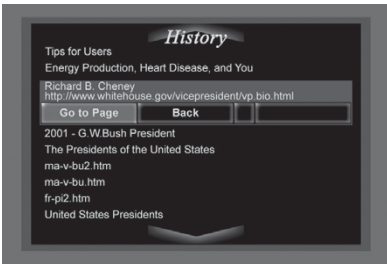
### Selecting Bookmarks

1. Follow steps 1–4 in Viewing Your Bookmarks to bring up the bookmarks list.
2. Use the arrow buttons to highlight the bookmark you want.
  - To go to a bookmark, highlight it, and use the left and right arrow buttons to highlight *Go to Page*, then press OK.
  - To return to the browser without going to a page, highlight the *Back* button, then press OK.



## Saving Your Bookmarks

1. Go to the webpage you want to save.
2. Press the TOOLS button (the browser toolbar appears).
3. Use the arrow buttons to highlight the *More* button.
4. Press OK to select it (the *More Features* menu appears).
5. Highlight *Save Bookmarks*. Press OK (your bookmark saves).



## Viewing Your History

1. Press the TOOLS button (the browser toolbar appears).
2. Use the arrow buttons to highlight the *More* button.
3. Press OK to select it (the *More Features* menu appears).
4. Highlight *History*, and press OK (the *History* list appears).
  - To go to a page in your history, highlight the page, and use the left and right arrow buttons to highlight *Go to Page*, then press OK.
  - To return to the browser without going to a page, highlight the *Back* button, then press OK.

# Chapter 4: Additional Information

## Troubleshooting

You can correct most problems you have with your product by consulting the troubleshooting list that follows. If you need service, please contact your service provider.

### Decoder Problems

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#### Decoder won't turn on

- Press the VIDEO button.
- Make sure the decoder is plugged in.
- Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else.
- Something might be wrong with your remote control or keyboard. Check the remote control solutions on the next page.

#### Decoder appears to be locked up

- Hold the ON•OFF button on the remote until the indicator on the front of the unit blinks 5 times. The unit reboots.
- Verify the Power indicator is not flashing (slowly first, then blinks fast). If it is, there may be a broken connection to the service provider or service may be momentarily unavailable. Contact your service provider.
- Unplug the unit for a few seconds, then plug it back in and try again.

#### No sound, picture okay

- Maybe the sound is muted. Try pressing the volume up button to restore sound on the TV or audio receiver.
- If using a standard video or S-video, video connection, remember to also connect the decoder's L and R AUDIO OUT jacks to the component's L and R AUDIO IN jacks.
- Try changing channels.
- Check the digital audio settings if you're using the decoder's digital optical jack.

#### No picture, no sound but decoder is on

- If your decoder is connected to the CABLE/ANTENNA jack on your TV with a coaxial cable, tune the TV to channel 3 or 4.
- If your decoder is connected to your TV with audio/video cables, tune your TV to the appropriate Video Input Channel (see page 26).

#### Sound okay, picture poor

- Check connections. Make sure all of the cables are firmly connected to the jacks.
- Change the channel.

#### No connection after more than 5 minutes

- Make sure all connections are secure and try connecting to your service provider again. If you still have problems connecting to the network, contact your service provider.

#### "Signal is Temporarily Unavailable" appears

- Change channels to see if it is a station problem. If it appears on more than one channel, there may be a problem with the signal. Reboot the decoder by holding the ON•OFF button on the remote until the indicator on the front of the unit blinks 5 times. The unit reboots. You may also want to unplug the unit.

#### While connecting, the decoder seems to be stuck on one step for a long time

- Check the status of the indicator on the front of the decoder. If it is flashing, there is no connection between the decoder and the modem. Make sure the modem is on and the modem and decoder are connected properly. There may be a broken connection to the service provider or service may be momentarily unavailable. Contact your service provider.



## Remote Control or Wireless Keyboard Problems

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- Something might be between the remote or keyboard and the remote sensor on the component. Make sure there is a clear path.
- Maybe the remote isn't aimed directly at the component (TV or decoder) that you're trying to operate.
- Maybe remote or keyboard is not in a decoder mode. Press the VIDEO button to operate the decoder.
- Maybe batteries in remote are weak, dead, or installed incorrectly. Put new batteries in the remote. (Note, if you remove the batteries, you may have to reprogram the remote to operate other components.) Don't press any buttons when removing the batteries.
- Operate the remote control or wireless keyboard at a distance of no more than 20 feet.
- You might need to drain the remote's microprocessor: remove batteries and press the number 1 button for at least 60 seconds. Release the 1 button, replace the batteries, and (if necessary) program the remote again.

## Care and Cleaning

CAUTION: Unplug your decoder before cleaning.

You can clean the unit as required, using a soft lint-free cloth. Be sure to occasionally dust the ventilation slots in the cabinet to help assure adequate ventilation.

Never use strong cleaning agents, such as ammonia-based cleaners, or abrasive powder. These types of cleaners will damage the unit.

Never place drinks or vases with water on top of the unit. This could increase the risk of fire or shock hazard or damage to the decoder.

## Service Information

If you purchased or leased your IP video decoder directly from your service provider, then warranty service for the decoder may be provided through your service provider or its authorized representative. For information on Ordering Service, Obtaining Customer Support, or Additional Service Information, please contact your service provider.

# Chapter 4: Additional Information

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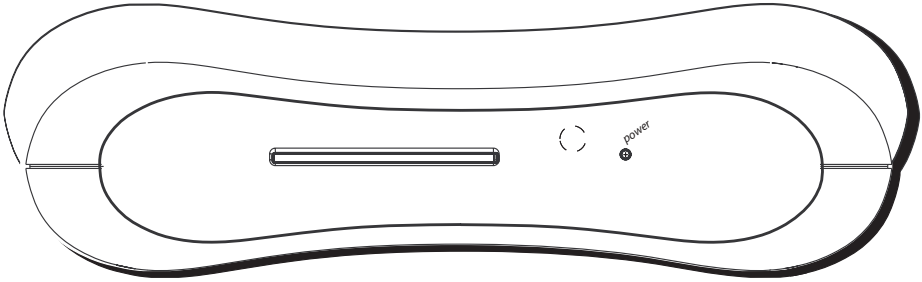
## FCC and Industry Canada Information

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your service provider or an experienced radio/TV technician for help.

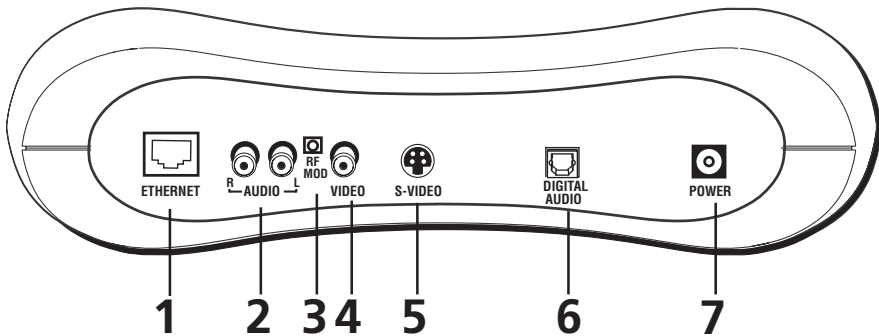
FCC regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

This Class B digital apparatus complies with Canadian ICES-003.



## Front of the Decoder

**Power indicator** – Indicates whether the unit is on or in standby mode. Flashes when there is a broken connection to the service provider or service is momentarily unavailable.



## Back of the Decoder

When connecting, make sure you connect Output jacks to Input jacks, Video to Video, Right Audio to Right Audio, etc. A description of each jack follows.

### Description of Jacks (from left to right)

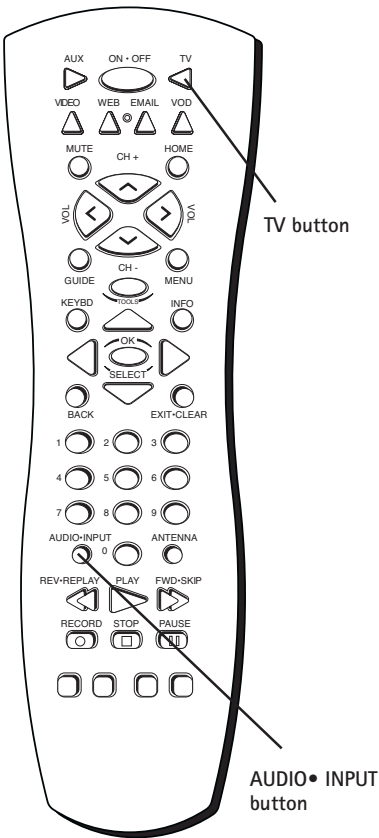
1. **ETHERNET** – Connects to your Ethernet cable from your home network or modem.
2. **AUDIO OUT (R and L)** – Connects your decoder to a TV or A/V receiver for improved sound.
3. **RF MOD** – Connects to the RF modulator (not included) to power the modulator. This connection is only necessary if your TV or VCR doesn't have audio / video input jacks.
4. **VIDEO OUT** – Connects to the Video Input jack on your TV.
5. **S-VIDEO OUT** – If your TV has an S-VIDEO jack, connects your TV for better picture quality than using the VIDEO jack.
6. **DIGITAL AUDIO OUT OPTICAL** – Connects your decoder to a Dolby Digital receiver or decoder using a digital optical connection.
7. **POWER** – Connects to the power supply.

# Chapter 4: Additional Information

## How to Find Your TV's Video Input Channel

You must tune your TV to the video input channel if you are using the IP video decoder's Audio/Video (A/V) OUT jacks to connect to the TV's A/V input jacks. You must select the TV's video input channel before you can see the decoder's menus or programming.

The video input channel for TVs varies by brand and model. Below are some steps to try to find your TV's video input channel:



- If your TV brand is RCA, GE, or Proscan, press the TV button on the decoder's remote control, then press the AUDIO•INPUT button.
- If you have another brand of TV, see page 14 to see if the decoder's remote can be programmed to control your TV. If so, once completed, follow the step above.

If those options do not work, try the following ideas. You might access the video input channel by:

- Pressing a button on the TV's remote control (see the table below).
- Selecting a specific channel from the TV's on-screen menu system (see the table below).
- Tuning directly to the video input channel by selecting a specific channel number (see the table below)
- Going through all available channels by pressing the channel up or down buttons on the TV or its remote control.

### Video Input Channel Variations

Button/Switch on the TV	Button on the TV Remote	Channel Number
VIDEO	VID 1	00
SIGNAL	LINE	90
VID 1	VID	91
VID 2	VIDEO	92
S-VID	S-VID	93
S-VIDEO	INPUT	VID 1
	S-VIDEO	VID 2
	SOURCE	
	AUX	

If you programmed your remote control to operate your TV (instructions on page 14), and you are using audio/video jacks, press the AUDIO•INPUT button to find the Video Input Channel.

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**Visit the RCA website at [www.rca.com](http://www.rca.com)**

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Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

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