

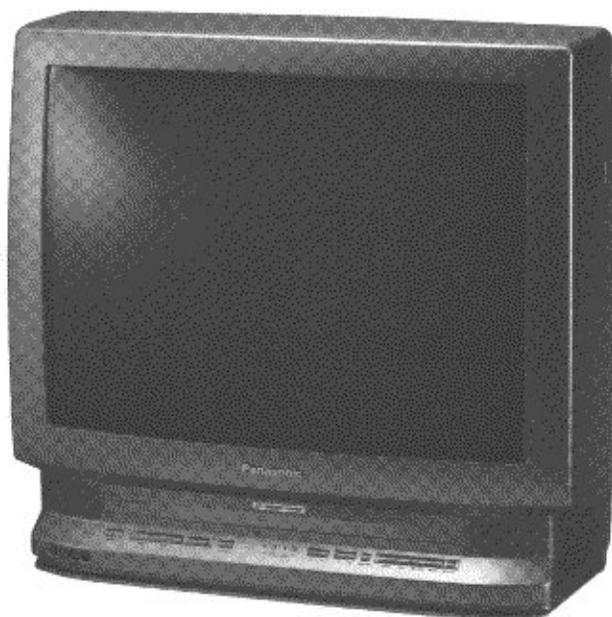
# Panasonic

 **SHOWSTOPPER™**

**TV/Hard Disk Recorder Combination**

**Operating Instructions**

**Model No. PV-SS2710**



© 2000 Panasonic. All rights reserved.

Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.



For assistance, **Phone** 1-888-843-9788

**Web** <http://www.panasonic.com/video>

**e-mail** [Consumerproducts@Panasonic.com](mailto:Consumerproducts@Panasonic.com)

# Important Safeguards and Precautions

**READ AND RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS. HEED ALL WARNINGS IN THE MANUAL AND ON UNIT**

## INSTALLATION

### 1 POWER SOURCE CAUTION

Operate only from power source indicated on unit or in this manual. If uncertain, have your Electric Utility Service Company or Video Products Dealer verify your home power source.

### 2 POWER CORD PLUG

For safety, this unit has a polarized type plug (one wide blade), or a three-wire grounding type plug. Always hold the plug firmly and make sure your hands are dry when plugging in or unplugging the AC power cord. Regularly remove dust, dirt, etc. on the plug.

#### **POLARIZED PLUG CAUTION:**

The plug fits into outlet one way. If it cannot be fully inserted, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not tamper with the plug.

#### **GROUNDING PLUG CAUTION:**

The plug requires a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not tamper with the plug.

### 3 POWER CORD

To avoid unit malfunction, and to protect against electrical shock, fire or personal injury:

- Keep power cord away from heating appliances and walking traffic. Do not rest heavy objects on, or roll such objects over the power cord.
- Do not tamper with the cord in any way.
- An extension cord should have the same type plug (polarized or grounding) and must be securely connected.
- Overloaded wall outlets or extension cords is a fire hazard.
- Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified electrician.

### 4 DO NOT BLOCK VENTILATION HOLES

Ventilation openings in the cabinet release heat generated during operation. If blocked, heat build-up may result in a fire hazard.

For your protection:

- Never cover ventilation slots while unit is ON, or operate unit while placed on a bed, sofa, rug, or other soft surface.
- Avoid built-in installation, such as a book case or rack, unless properly ventilated.

### 5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place unit over or near a heater or regulator, in direct sunlight, inside closed vehicles, in high temperature [over 95°F (35°C)], or in over 75% humidity. If unit is suddenly moved from a cold place to a warm place, moisture may condense in unit.

### 6 TO AVOID PERSONAL INJURY

- Never place unit on support or stand that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- Move any appliance and cart combination with care. Quick stops, excessive force, and uneven surfaces may cause objects to overturn.
- Carefully follow all operating instructions.

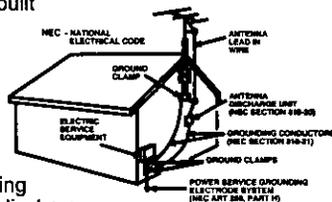


## OUTDOOR ANTENNA INSTALLATION

### 1 SAFE ANTENNA AND CABLE CONNECTION

An outside antenna or cable system must be properly grounded to provide some protection against built up static charges and voltage.

Section 810 of the National Electrical Code ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information regarding proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



### 2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

Locate an outside antenna system well away from power lines and electric light or power circuits so it will never touch these power sources should it ever fall. When installing antenna, absolutely never touch power lines, circuits or other power sources as this could be fatal.

## USING THE UNIT

Before unit is brought out of storage or moved to a new location, refer again to the INSTALLATION section of these safeguards.

### 1 KEEP UNIT WELL AWAY FROM WATER OR MOISTURE, such as vases, sinks, tubs, etc.

### 2 IF EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug unit and have it inspected by a qualified service technician before use.

### 3 ELECTRICAL STORMS

During a lightning storm, or before leaving unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system, and disconnect telephone line.

### 4 WHEN UNIT IS PLUGGED IN

- DO NOT OPERATE IF:
  - liquid has spilled into unit.
  - unit was dropped or otherwise damaged.
  - unit emits smoke, malodors, or noises.

Immediately unplug unit, and have it inspected by a service technician to avoid potential fire and shock hazards.

- Never drop or push any object through openings in unit. Touching internal parts may cause electric shock or fire hazard.
- Keep magnetic objects, such as speakers, away from unit to avoid electrical interference.

### 5 USING ACCESSORIES

Use only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards.

### 6 CLEANING UNIT

Unplug unit. Use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into unit and cause electrical shock. Any substance, such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

## SERVICE

### 1 DO NOT SERVICE PRODUCT YOURSELF

If, after carefully following detailed operating instructions, the unit does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug unit and contact a qualified service technician.

### 2 REPLACEMENT OF PARTS

Make sure the service technician uses only parts specified by the manufacturer, or have equal safety characteristics as original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.

### 3 SAFETY CHECK AFTER SERVICING

After unit is serviced or repaired, request that a thorough safety check be done as described in the manufacturer's service literature to insure video product is in safe operating condition.

# Safety Precautions



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

**WARNING:** To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

**CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, fully insert.

## FCC 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 to 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 the equipment into an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio/TV technician for help.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems."

This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No.004-000-00345-4.

**FCC Warning:** To assure continued FCC compliance, the user must use only shield interfacing cables when connecting to other devices. Also, any unauthorized changes or modifications to this equipment would void the users authority to operate.

## Regulatory Notices for the U.S.

### FCC Requirements

1. This equipment complies with Part 68 of the FCC rules. On the rear of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.
2. If the telephone company requests information on what equipment is connected to their lines, inform them of:
  - a. The telephone number to which this equipment is connected.
  - b. The ringer equivalence number
  - c. The USOC jack required: RJ11C
  - d. The FCC Registration NumberItems (b.) and (d.) are indicated on the label of the back panel.
3. A FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack that is Part 68 compliant. See Installation Instructions for details.
4. The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. Typically, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line (as determined by the total RENs) contact the local telephone company.
5. If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
6. The telephone company may make changes to its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice so you can make the necessary modifications to maintain uninterrupted service.
7. If trouble is experienced with this equipment, for repair or warranty information, please contact the Panasonic Customer Call Center at 1-888-843-9788. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.
8. Connection to party line service is subject to state tariffs. (Contact the state public utility commission, public service commission or corporation commission for information.)

# Table of Contents

<b>Privacy Policy</b> .....	<b>6</b>
<b>Before Using</b> .....	<b>7</b>
• Welcome to Panasonic Showstopper .....	7
• Package Contents .....	7
• Purchasing Information .....	7
• Loading the Batteries .....	7
<b>Connections</b> .....	<b>8 ~ 12</b>
Antenna Connections .....	
• Without a Cable Box (Outdoor Antenna) .....	8
• With a Cable Box .....	8
• With a DSS Receiver .....	8
• With a DSS Receiver (Using S-Video) .....	9
• With a Cable Box and DSS Receiver .....	9
• With a Cable Box and A/V Receiver .....	10
• With a DSS Receiver and A/V Receiver (Using S-Video) .....	10
• With a Cable Box, DSS Receiver, and VCR .....	11
• With a Cable Box, DSS Receiver, A/V Receiver, and VCR .....	11
Telephone Connection .....	12
Serial Cable or IR Blaster Connection .....	12
AC Power Connection .....	12
<b>On-Screen Setup</b> .....	<b>13 ~ 16</b>
• On-Screen Setup .....	13 ~ 15
• Setup Codes for Cable Boxes .....	16
• Setup Codes for DSS Receivers .....	16
<b>Other Devices Connections</b> .....	<b>17</b>
• VCR/Video Game/Camcorder/Digital Still Camera Connections .....	17
• Entering BYPASS Mode .....	17
<b>Before Operating</b> .....	<b>18 ~ 19</b>
• Watching the Welcome Video .....	18
• Changing Your Dialing & Input Settings .....	18
• Feature Updates .....	18
• Using the Main Menu .....	19

**Before  
Using!**

---

<b>Controlling Live Television</b> .....	<b>20 ~ 23</b>
• Viewing Live Television .....	20
• Using Instant Replay .....	20
• Pausing Live Television and Recorded Shows .....	21
• Using Rewind and Fast Forward .....	21
• Using Slow Motion .....	22
• Using Frame Advance .....	22
• Using QuickSkip .....	23
• Viewing Copy Protected Programming or Weak Signal .....	23
<b>Recording Shows</b> .....	<b>24 ~ 33</b>
• Selecting a Show .....	24
• Channel Guide Screen .....	24
• Recording a Show That Is Currently Being Viewed .....	25
• Recording a Single Upcoming Show .....	25
• Recording Multiple Episodes of One Show .....	26
• Cancelling a Recording .....	26
• Setting the Recording Options .....	27
• Recording From Show Categories .....	28
• Recording Shows Based On a Theme You Choose .....	29

**Use NOW!**

- Finding Shows ..... 30
- Record, Create, Cancel (From Replay Channel) ..... 31
- Using the On-Screen Keyboard ..... 31
- Finding All Episodes of a Show ..... 32
- Finding Matching Shows ..... 32
- Using Find All Episodes & Find Matching Shows ..... 33
- Show-based/Theme-based Replay Channels ..... 33

**Watching Your Recorded Shows ..... 34 ~ 37**

- Replay Guide Screen ..... 34
- Changing Replay Channel Characteristics ..... 34
- Seeing What a Replay Channel Will Record ..... 35
- Watching a Show ..... 36
- Preserving a Show ..... 36
- Saving Shows to Videotape ..... 37

**Managing Recording Space ..... 38 ~ 39**

- Priorities, Guaranteed, Non-Guaranteed Recording ..... 38
- Guaranteed, Space-available Record ..... 39
- Recording Space Management Tips ..... 39
- Deleting a Show From the Replay Guide ..... 39

**Cable/DSS Universal Remote Control ..... 40 ~ 41**

- Setting Up Your Remote Control ..... 40
- Using Universal Remote Control ..... 40
- DSS and Cable Box Code Numbers ..... 41

**Basic TV Operation ..... 42 ~ 43**

- Adjusting Picture ..... 42
- Setting Closed Caption ..... 42
- Caption On Mute ..... 42
- Adjusting Volume (Using Phone Jack) ..... 43
- Setting NIGHT Mode ..... 43
- Setting Sleep Timer ..... 43
- Setting Speaker ON/OFF ..... 43

**MTS Broadcast/ TV Stereo System ..... 44**

- Watching Receivable Broadcast Types ..... 44
- Selecting Audio Mode for Live TV Viewing ..... 44

**V-Chip Control ..... 45 ~ 47**

- Entering Secret Code ..... 45
- Setting U.S. MOVIE Ratings ..... 46
- Setting U.S. TV PROGRAM Ratings ..... 47
- Blocking Message ..... 47

**Troubleshooting ..... 48 ~ 49**

**Frequently Asked Questions ..... 50 ~ 51**

**Software License Agreement ..... 52**

**Limited Warranty ..... 53**

**Location of Controls ..... 54 ~ 57**

- Front, Indicators, and Rear of the TV/HDR Combo ..... 54, 55
- Remote Control ..... 56, 57

**Specifications and Resetting ..... 58**

**Index ..... 59**

**Service Center List ..... Back Cover**

**Use NOW!**

**Other Information!**

# Privacy Policy

ReplayTV is committed to safeguarding your privacy. Please read the following so that you may understand more about ReplayTV's privacy policy.

## Collection and Use of Personal Information and Operating Information

When you purchase and/or register your ReplayTV unit, ReplayTV receives certain information that personally identifies you ("Personal Information"). Personal Information may also be received when you interact in other ways with ReplayTV, its agents, or contractors. This Personal Information may include your name, home address, home telephone number, e-mail address, credit card number, unit serial number and model number, signal source, and information about other audio/visual equipment that you are using.

**We will not make Personal Information available to third parties without your prior consent.** However, in those circumstances where your Personal Information is needed to assure the ongoing functioning of your ReplayTV, is required to maintain or honor the warranty on your ReplayTV, or is needed by affiliated parties for their use to provide services to ReplayTV in the operation and delivery of the ReplayTV Service, your Personal Information may be used (without your prior consent) under our strict confidentiality protection agreements with the necessary third parties. **Under no circumstances will we sell your Personal Information to anyone.**

ReplayTV stores information consisting of electronic instructions and data communicated from your ReplayTV unit to the ReplayTV Service ("Operating Information"). Operating Information will not be linked to any of your Personal Information without your consent – it always remains anonymous. ReplayTV may report Operating Information to third parties in aggregate form that describes how our viewers use the ReplayTV Service and allows us to continue to develop and provide content, features and services that are of the most interest to our users. All third parties that receive Personal Information or Operating Information from us are required to maintain the confidentiality of such Personal information and Operating Information and store it securely.

## How to Access and Modify Personal Information and Operating Information

ReplayTV takes steps to safeguard Personal Information and Operating Information from unauthorized access. You have the right to know what Personal Information ReplayTV stores and to update that information at any time. You may access and make changes to your Personal Information by contacting ReplayTV at (800) 933-5899.

At your request, ReplayTV will tailor its service to your individual preferences. With your consent, we can combine your Personal Information with your Operating Information to create a personalized user profile. By allowing us to link together both sets of information, we can provide a service that will best match your personal interests and needs. You can elect to have this done by contacting ReplayTV at (800) 933-5899. If we do not hear from you, we assume that you wish to keep your Operating Information anonymous.

## How We Safeguard Children's Privacy

ReplayTV does not knowingly collect or use Personal Information from children under 13 years of age without first obtaining verifiable consent from their parents. Should a child whom ReplayTV knows to be under the age of 13 send Personal Information to ReplayTV, ReplayTV will only use that information to respond directly to that child or seek parental consent.

## Other Situations in which Personal and/or Operating Information May Be Disclosed

ReplayTV may disclose Personal Information and/or Operating Information if required to do so by law or in the good faith belief that such action is necessary or appropriate to conform to the law or comply with legal process served on ReplayTV, to protect and defend the rights or property of ReplayTV, the ReplayTV Service or our viewers, whether or not required to do so by law, or to protect the personal safety of our viewers or the public. ReplayTV reserves the right to contact appropriate authorities and disclose Personal Information to them at its discretion when it appears that activities which are illegal or violate the ReplayTV Service Terms of Service are taking place within the context of a viewer account.

## Changes to the ReplayTV Privacy Policy

ReplayTV may make changes to this Privacy Policy from time to time. We will post changes to our Privacy Policy to our website at [www.replaytv.com](http://www.replaytv.com). We may also notify you of significant changes by e-mail or in other ways.

## Questions or Comments

If you have any questions or comments about our use of Personal or Operating Information or about this Privacy Policy, please contact us at (800) 933-5899 or via e-mail at [customer@replaytv.com](mailto:customer@replaytv.com). ReplayTV will use reasonable efforts to promptly investigate any complaint you may have regarding our use of Personal or Operating Information and to comply fully with the legal and regulatory supervisory authorities responsible for enforcing our adherence to the privacy principles stated above.

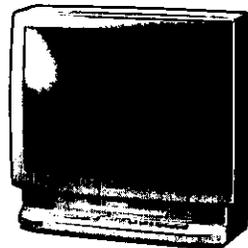
This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited consumer uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.  
**U.S. patent Nos. 4,907,093 licensed for limited viewing uses only.**

# Before Using

## Welcome to the Panasonic Showstopper TV/HDR Combo

After you've experienced the exciting new world of personal television in your own home, you'll never want to watch plain old television again. Read on and see what the TV/HDR Combo can do. No videotape. No hassles. No compromises. If this sounds like the television experience you've always dreamed of it's because it is!

- The TV/HDR Combo gives you the ability to easily find and automatically record your favorite television shows, then watch them whenever you want. On your schedule, not somebody else's. You will never miss your favorite TV shows again!
- Create personal Replay Channels based on your favorite television shows or themes — like actors, directors, sports teams, or hobbies. These channels will automatically record each new episode of your favorite shows, or constantly search for and record shows that match your interests.
- Check out the exciting television shows in ReplayZones™ — all of your favorite shows have been pre-organized by topic, in one easy-to-find area.
- You have the power to control live television. You can pause, rewind, play in slow motion, watch instant replays, and more, all without missing a single scene.
- Instantly jump over undesired recorded television scenes with QuickSkip™.
- Unsure of what channel or time a show is on? Looking for a specific show title, actor, director, or topic? Use Find Shows — a real-time, keyword search function.
- Get advanced television features such as Closed Caption, Sleep Timer, Stereo System (SAP), and V-Chip Control.



## Package Contents

As you unpack the TV/HDR Combo, make sure the following items were included. To order accessories, call toll free 1-800-332-5368.

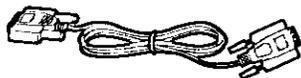
- Remote Control  
LSSQ0247



- RJH to 9-pin Adapter  
(See page 12.)  
LSJA0326



- Serial Cable (See page 12.)  
LSJA0325



- 2 AA Batteries



- Telephone Splitter  
(See page 12.)  
LSJJ0174



- IR Blaster (See page 12.)  
LSJA0324



- Telephone Cord  
(See page 12.)  
LSJA0323



- 9 to 15 pin Adapter  
(See page 12.)  
LSJA0327

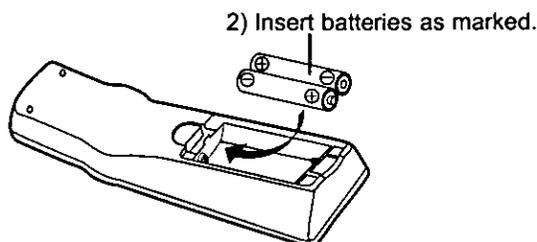
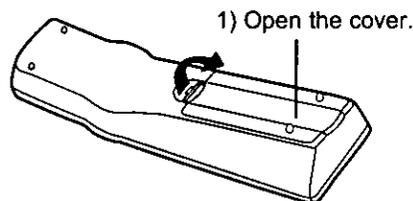


- File your sales receipt in a safe place.
- Thoroughly review the safety information and strictly follow all setup and operating procedures contained throughout this guide.

## Purchasing Information

- Date of Purchase \_\_\_\_\_
- Dealer Purchased From \_\_\_\_\_
- Dealer Address \_\_\_\_\_
- Dealer Phone No. \_\_\_\_\_
- Model No. **PV-SS2710** \_\_\_\_\_
- Serial No. \_\_\_\_\_

## Loading the Batteries



- Battery replacement caution**
- Do not mix old and new batteries.
  - Do not mix alkaline with manganese batteries.

# Connections

If you receive TV signals from multiple sources, such as cable and DSS, you should connect the TV/HDR Combo to all. That way you'll have easy access to all the channels from all your sources.

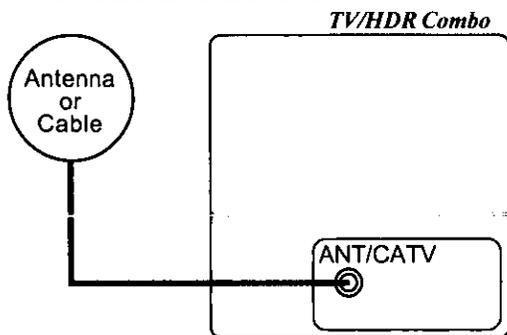
**Before you connect any device to the TV/HDR Combo:**

- Be sure both the TV/HDR Combo and any connected devices are turned off and unplugged.
- Put the TV/HDR Combo in a place where there is a direct path to the user of the remote control.

You should complete the following to use the TV/HDR Combo.



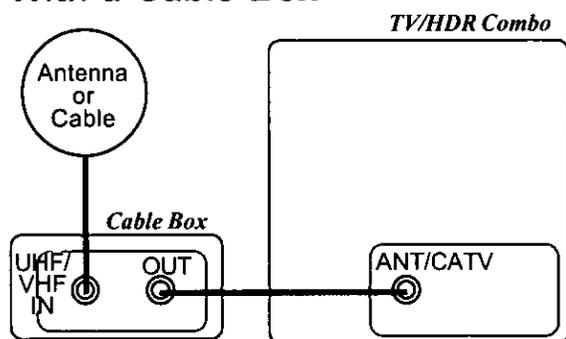
## Without a Cable Box



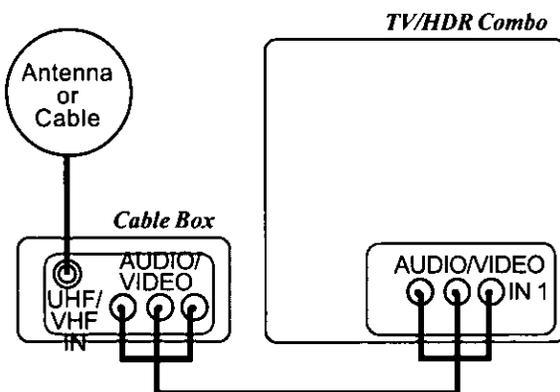
### NOTE TO CATV SYSTEM INSTALLER:

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

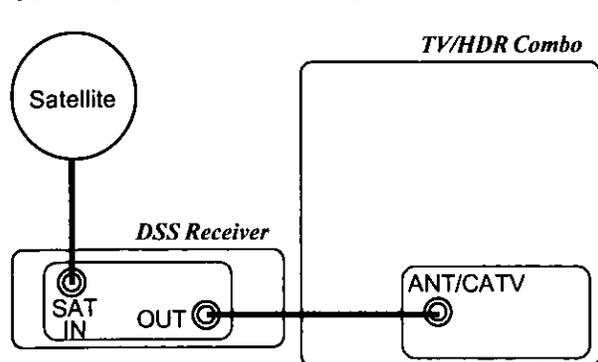
## With a Cable Box



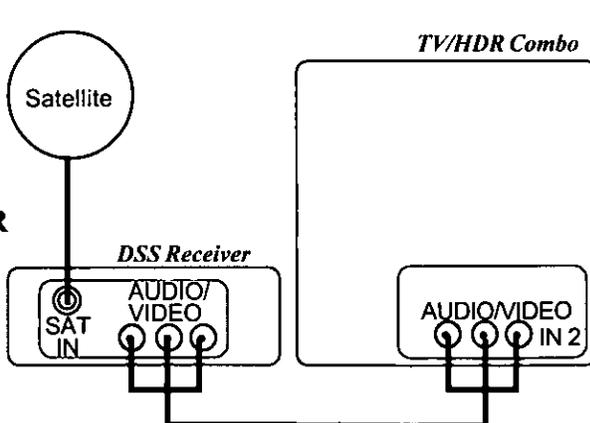
OR



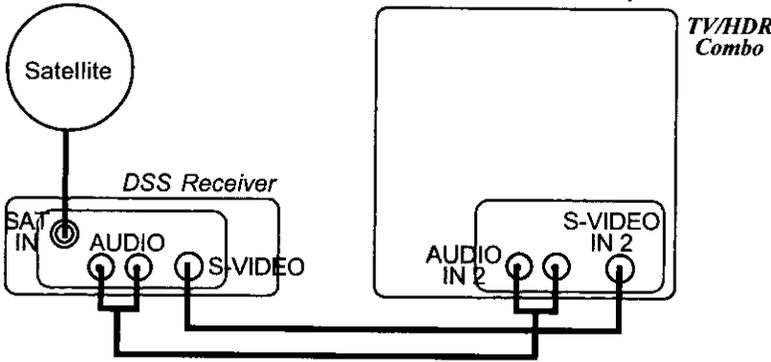
## With a DSS Receiver



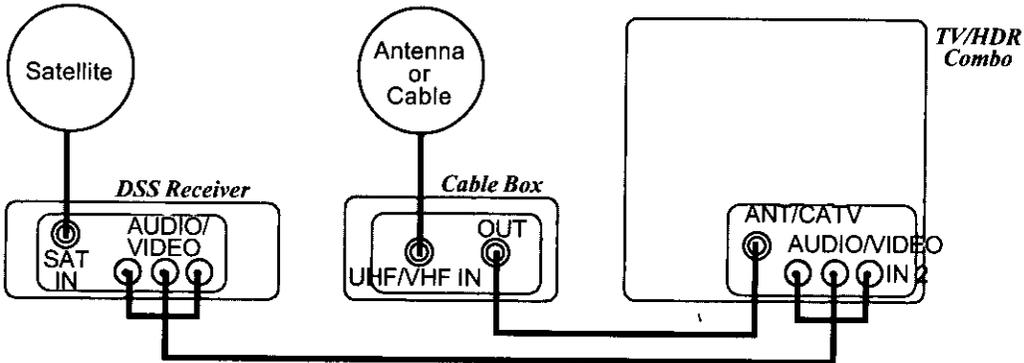
OR



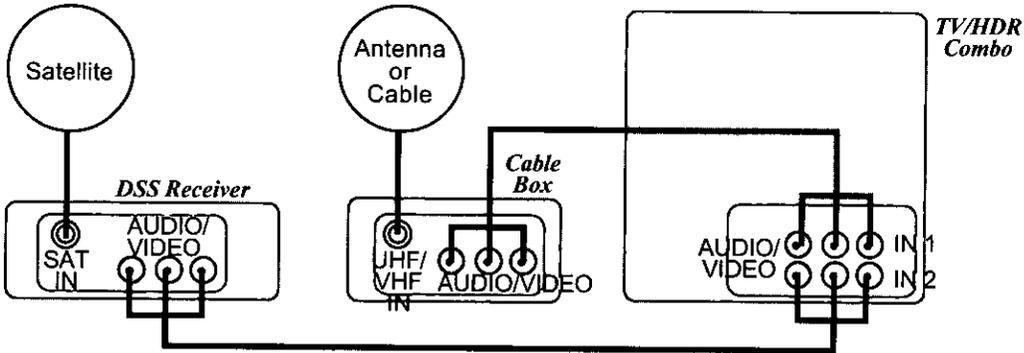
## With a DSS Receiver (Using S-Video)



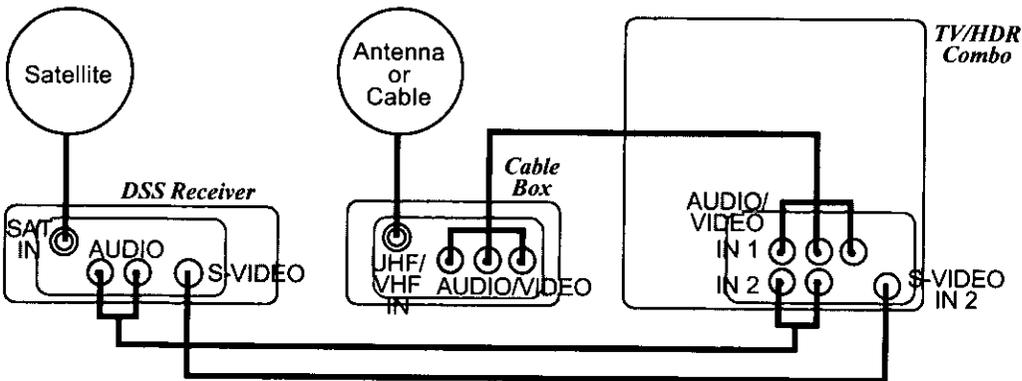
## With a Cable Box and DSS Receiver



OR

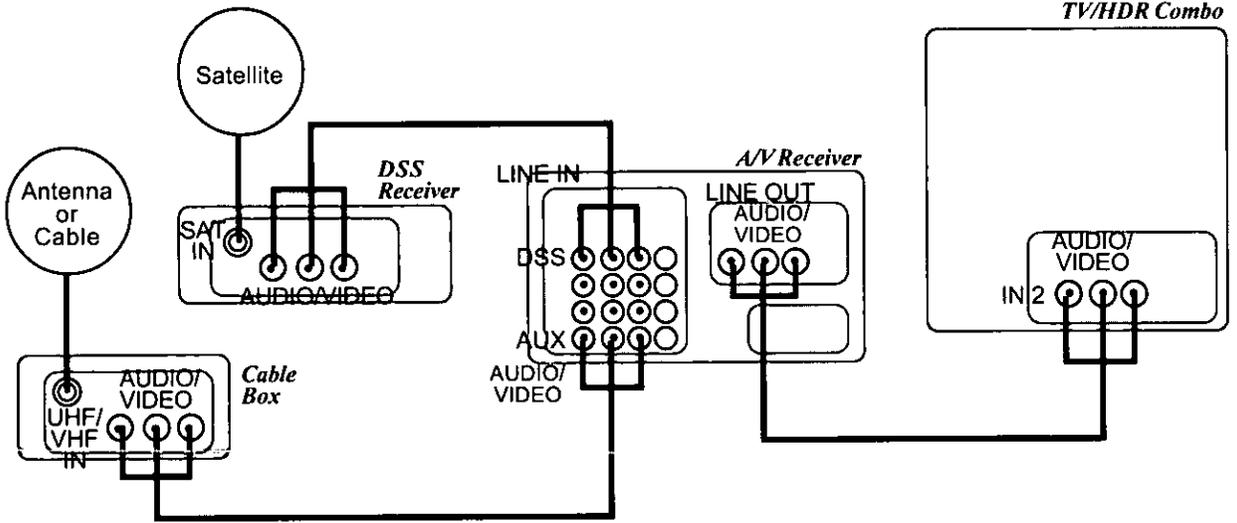


OR

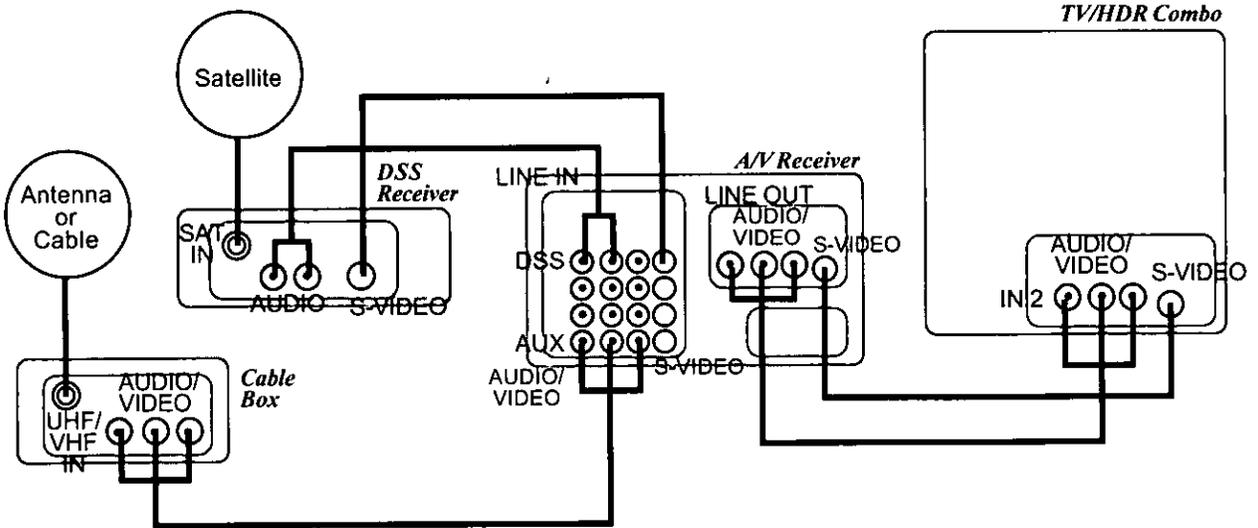


# Connections (continued)

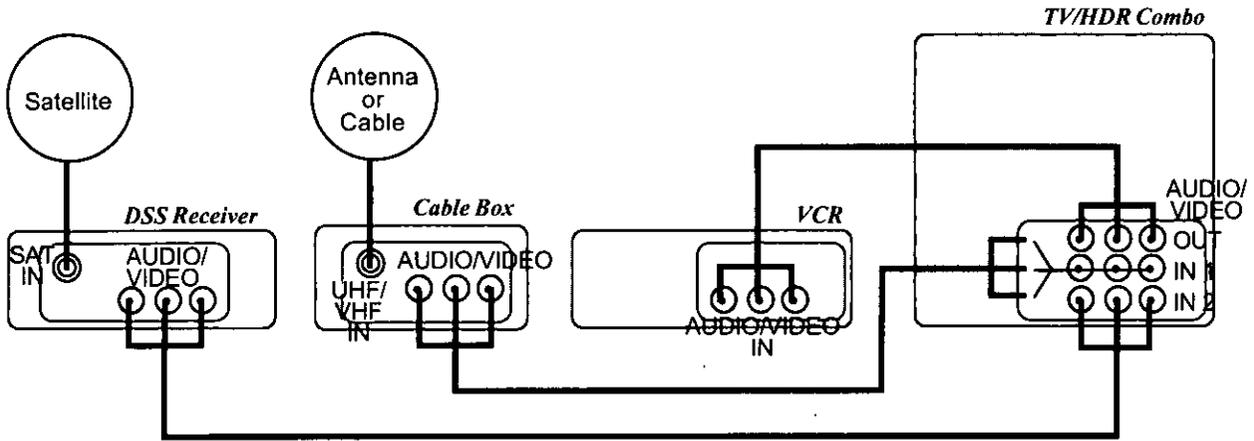
## With a Cable Box, DSS Receiver and A/V Receiver



OR



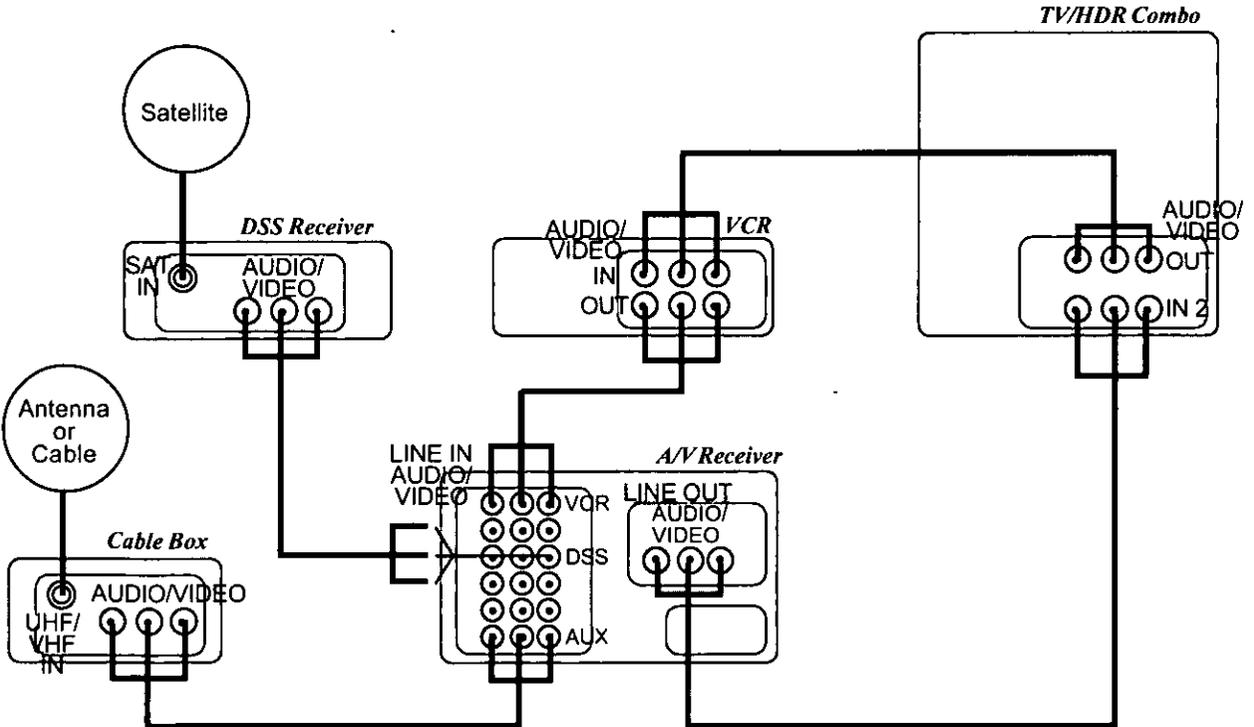
## With a Cable Box, DSS Receiver, and VCR



### NOTES

- If your DSS receiver has the S-VIDEO OUT jack, use an S-Video cable (not supplied) instead of using the Video cable. (See the S-Video connection on page 9.)
- If your cable box does not have A/V OUT jacks, connect an RF cable from the OUT jack to the ANT/CATV jack on the TV/HDR Combo.
- The VCR connection is only for saving a recorded program to a videotape. See page 37 for details.

## With a Cable Box, DSS Receiver, A/V Receiver, and VCR



### NOTES

- If your cable box does not have A/V OUT jacks, connect an RF cable from the OUT jack to the ANT/CATV jack on the TV/HDR Combo.
- If your DSS receiver has the S-VIDEO OUT jack, see the S-Video connection on page 10.

# Connections (continued)

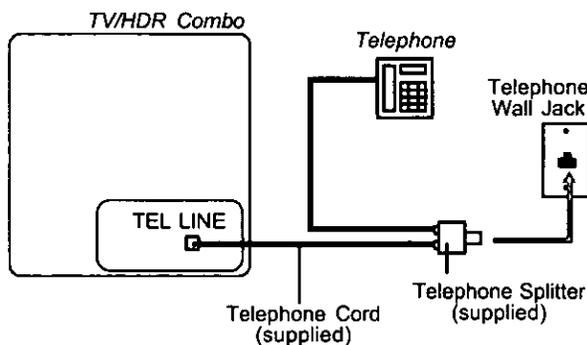


## Connecting the telephone line

The TV/HDR Combo must be connected to a telephone jack to communicate with the ReplayTV Service™. The telephone connection is used rightly by the TV/HDR Combo to receive updates to the Channel Guide. The phone connection is also used to update the TV/HDR Combo with new features, as they become available.

### NOTES

- Each night, a phone call is made to the ReplayTV Service to update Channel Guide listings for your area. To receive the latest information from the ReplayTV Service, make sure the telephone cable is always connected to the TV/HDR Combo.
- The TV/HDR Combo cannot be used on coin services provided by the telephone company, cannot be compatible with party lines or pulse telephones. Contact your local telephone company with regard to these matters. If you have an older, 4-prong telephone wall jack, you will need a modular 4-prong adapter.
- If there is no phone jack conveniently located near where you have placed the TV/HDR Combo, consider using a wireless phone jack that operates at the highest modern speed available (at least 33.6K BPS).
- There is no monthly fee for Channel Guide service. Local access numbers are available in most areas. Since the TV/HDR Combo maintains seven days worth of Channel Guide information, you can connect to ReplayTV Service once a week by disconnecting the telephone line, and connecting to the service once a week to update.

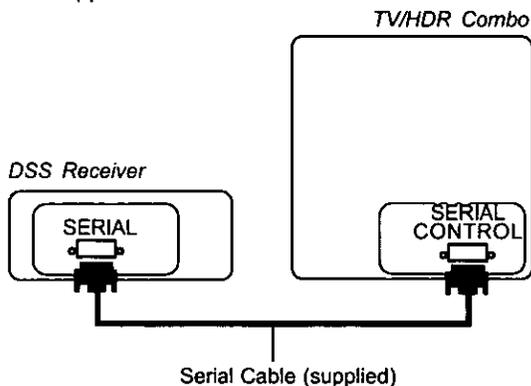


## Attaching DSS Receiver and Cable Box Controllers

If you connect a DSS receiver or a cable box to the TV/HDR Combo, you will need to attach a controller cable so the TV/HDR Combo can change the channels on these devices. The controller, either a serial cable or an IR blaster cable, acts as a remote for these devices. When you press CHANNEL ▲/▼ on the remote control, the channel is changed on your other device.

### Connecting a Serial Cable

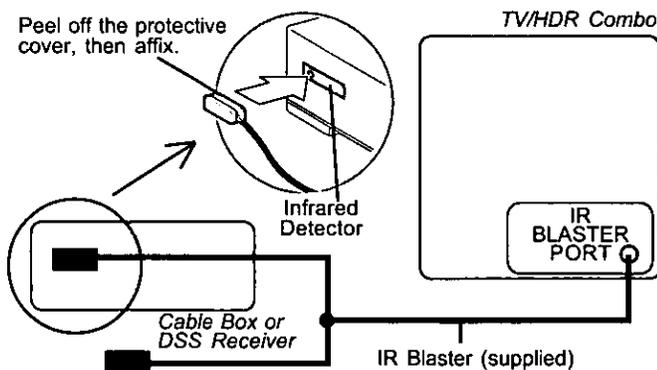
If your DSS receiver has a serial connector, use the supplied serial cable.



- NOTE** • If necessary, use the supplied "9 to 15 pin Adapter" or "RJH to 9-pin Adapter."

### Connecting and Affixing the IR Blaster

If your cable box or DSS receiver does not have a serial connector, use the supplied IR blaster.



- NOTES**
- If you can not find the infrared detector on your cable box or DSS receiver, please refer to the cable box or DSS receiver owner's manual.
  - If you have only one device, hide the unused emitter behind the equipment, away from any detectors.



## Connecting the Power Cord

Plug in the AC Power Plugs on the TV/HDR Combo and your current video component(s) to an AC outlet.

### NOTES

- In order to avoid damage to the hard disk, do not apply physical shock to the TV/HDR Combo at any time.
- Do not unplug the TV/HDR Combo when the power is on.
- After turning the power off, please wait one minute before unplugging the TV/HDR Combo.

# On-Screen Setup

Important

If a remote control button does not work when pressed, press **HDR/TV** button on the remote and try the button again.

Antenna Connections  
(DSS/Cable)

Telephone  
Connection

Serial Cable or  
IR Blaster Connection

AC Power  
Connection

On-Screen  
Setup

After completing all of the connections, you'll need to complete the on-screen setup of your TV/HDR Combo. During the on-screen setup you will:

- Select a phone number to dial for the nightly connection to the ReplayTV Service.
- Enter your ZIP code so you'll receive the correct channels for your local area.
- Confirm your video connections.
- Provide the setup codes for your cable box or DSS receiver, if you have one of these devices connected to your TV/HDR Combo.

**Neither the TV nor the HDR will function until the on-screen Setup has been completed.**

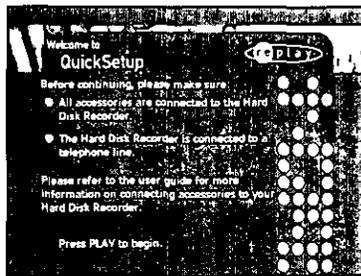
Follow the on-screen instructions to complete the QuickSetup process.

## Using the telephone while the TV/HDR Combo is calling the ReplayTV Service

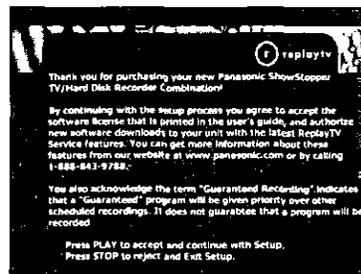
If you need to use the phone while the TV/HDR Combo is using the phone line, you must stop the TV/HDR Combo phone call and wait for the dial tone to return. To stop the phone call and return the dial tone:

1. Pick up the handset and wait 5 seconds.
2. Put back the handset and wait 5 seconds.
3. Repeat steps 1 and 2.
4. Pick up the handset and wait 5 more seconds.
5. At this point, you should hear the dial tone. Enter a phone number within 8 seconds; otherwise, the TV/HDR Combo will automatically reconnect to the service.

- 1** Press **POWER** to turn on the TV/HDR Combo.
- You can also press **POWER** on the front of the TV/HDR Combo.
  - The QuickSetup screen appears. If it does not appear, go to the "Changing Your Dialing & Input Settings" section on page 18.

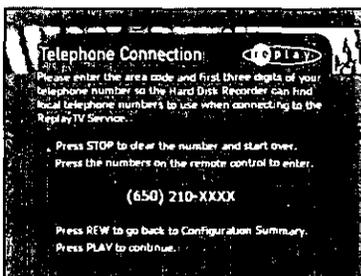


- 2** Press **PLAY/SLOW** to start the setup process.

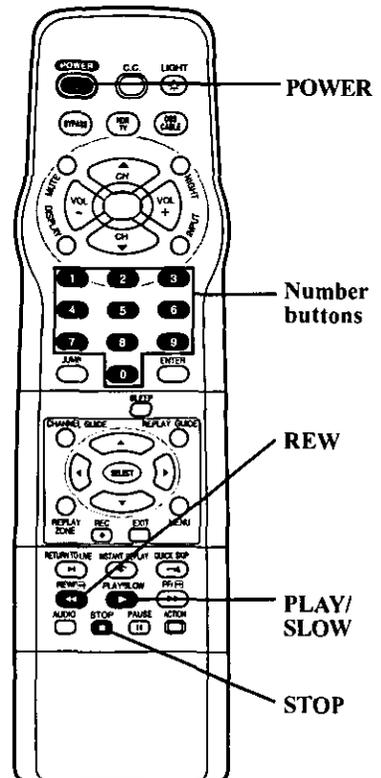
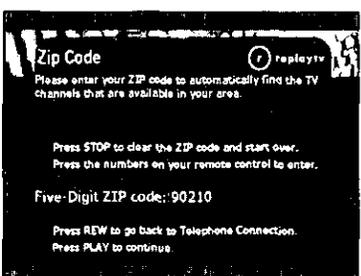


- 3** Press **PLAY/SLOW** to accept and continue with Setup.

- 4** Press **Number** buttons to enter the area code and the first three digits of your telephone number, then press **PLAY/SLOW** to move to the next screen.
- Only the area code and first three digits of your telephone number are required.



- 5** Press **Number** buttons to enter your five-digit ZIP Code, then press **PLAY/SLOW** to move to the next screen.
- The TV/HDR Combo uses your zip code to provide you with listings for the channels available in your local area.

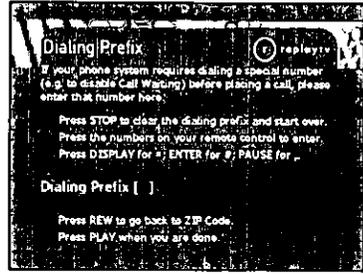


# On-Screen Setup (continued)

**6** Press **Number** buttons to enter the dialing prefix, then press **PLAY/SLOW** to move to the next screen.

- Press **DISPLAY** for \*; press **ENTER** for #; and press **PAUSE** for .

- Some telephone systems must dial a special number prior to placing a phone call, to disable call waiting for example. If your phone system requires a special number, enter it on this screen.



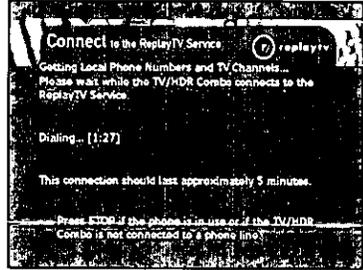
**7** The **TV/HDR Combo** calls the **ReplayTV Service** to retrieve local telephone numbers and TV channels.

- This connection to the ReplayTV Service lasts about five minutes and also provides the TV/HDR Combo with TV channel information for your local area.
- The internal clock and time zone are set during this connection.

**If the connection failed,**

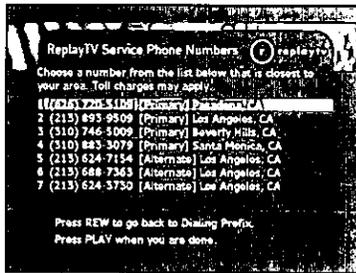
Press **PLAY/SLOW** to try connecting again.

Or, press **REW** repeatedly to return to the previous screen and confirm each setting item. Then, re-enter the correct information.



**8** Press **▲/▼** to highlight your local number, then press **PLAY/SLOW** to move to the next screen.

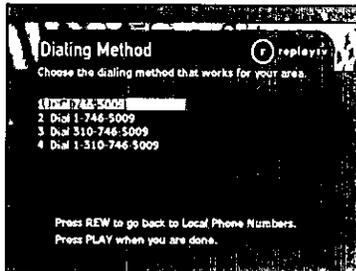
- The **ReplayTV Service** finds local phone numbers based on the information you provided.



- You can change the number later by pressing **MENU** and selecting "Setup" and then "Change Dialing & Input Settings." (Refer to page 18.)

**9** Press **▲/▼** to highlight the dialing method, then press **PLAY/SLOW** to move to the next screen.

- Choose the dialing method for your area. For example, a direct call, or if you need to dial a prefix and/or area code.



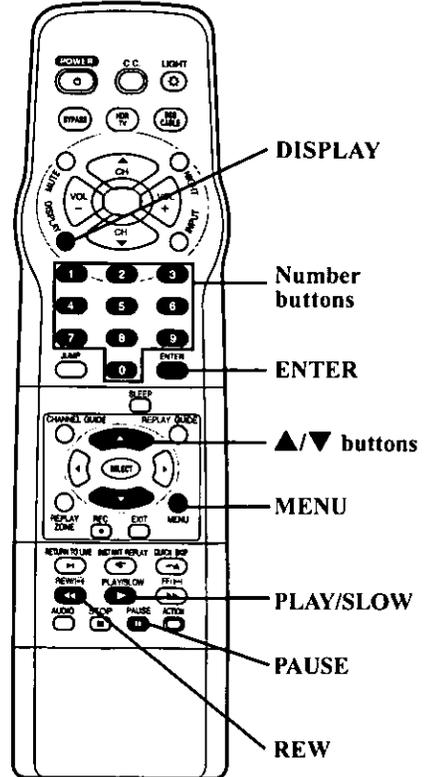
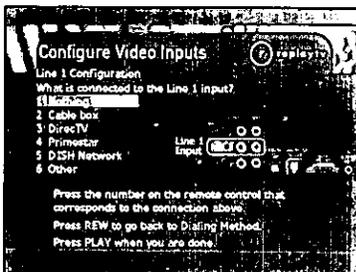
**For the configuration settings,**

Make sure your cable box or DSS receiver power is on.

Find the setup code for your cable box or DSS receiver on page 16.

**10** Press **▲/▼** to highlight the device you have connected to the **LINE 1** input, then press **PLAY/SLOW** to go to each device setup screen.

- If you select "Nothing" or "Other," go to step 12.



**Important**  
If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

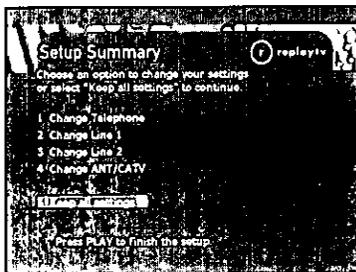
# 11 Follow the on-screen instructions to complete the settings for the device you have connected to LINE 1.

- See page 16 for the setup code of your receiver in the "IR Blaster" screen. After you enter the code, make sure whether your device turns off by pressing **DISPLAY**.

# 12 Complete the LINE 2 and ANT/CATV settings. (Refer to step 10 and 11.)

- There is no LINE 3 setting.

Once you have completed all of the setup screens, you will see the Setup Summary screen. This screen allows you to make changes if necessary.



# 13 To change a setting...

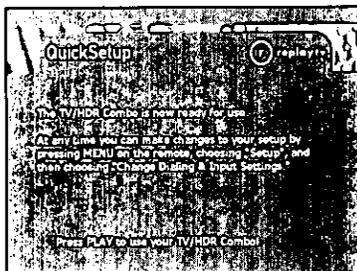
- Press **▲/▼** to highlight the option, then press **PLAY/SLOW** to display the screen that you want to change.
- Complete the settings you want to change. (Refer to page 13, 14, and 15.)
- After your change is finished, press **▼** to highlight "Keep all settings," then press **PLAY/SLOW** to finish the setup and connect to the ReplayTV Service.

If you do not want to make any changes...

Press **▲/▼** to highlight "Keep all settings," then press **PLAY/SLOW** to connect to the ReplayTV Service.

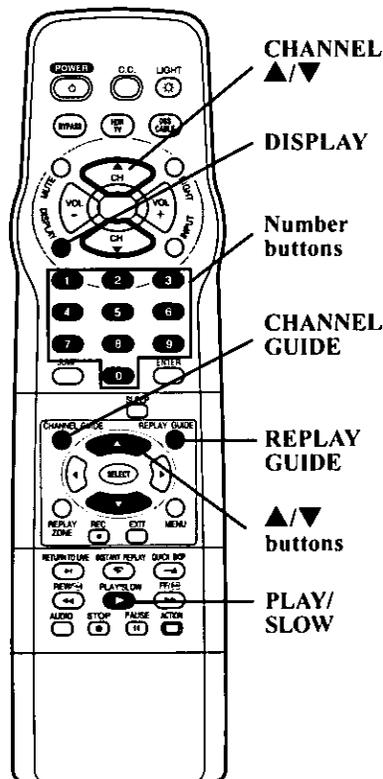
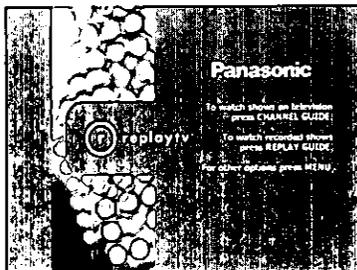
The TV/HDR Combo connects to the ReplayTV Service to complete the setup and receive channel and program information for your local area. This connection lasts approximately 20 minutes.

Once the connection is completed, you will be able to use the TV/HDR Combo.



# 14 Press **PLAY/SLOW** to begin using the TV/HDR Combo.

- To select shows to watch from an on-screen guide, press **CHANNEL GUIDE**.
- The Replay Guide is an on-screen collection of all the shows you record. Initially, the only recorded show that appears in the Replay Guide is the Welcome Video. Press **REPLAY GUIDE**.



## NOTES

- The internal TV/HDR Combo clock is set during the initial connection to the ReplayTV Service to ensure that the shows you choose to record are recorded completely.

# On-Screen Setup (continued)

## Setup Codes for Cable Boxes

ABC .....	0003, 0008, 0014	Jerrold .....	0003, 0012, 0476	Rembrandt .....	0011
.....	0017, 0007, 0011, 0013	.....	0276, 0014, 0015, 0011, 0810	Runco .....	0000
Allegro .....	0153, 0315	Magnavox .....	0014	SL Marx .....	0040
Archer .....	0153, 0797	Memorex .....	0000	Samsung .....	0144, 0040
Bell & Howell .....	0014	Movie Time .....	0063	Scientific Atlanta .....	0008
Century .....	0153	NAP .....	0007	.....	0477, 0017, 0877
Citizen .....	0153, 0315	NSC .....	0063	Signal .....	0015, 0040
Comtronics .....	0040	Oak .....	0019, 0007	Signature .....	0011
Contec .....	0019	Optimus .....	0021	Sprucer .....	0021
Eastern .....	0002	Panasonic .....	0107, 0021	Starcom .....	0003, 0015
Emerson .....	0797	Paragon .....	0000	Stargate .....	0015, 0040, 0797
Everquest .....	0015, 0040	Philips .....	0153	Starquest .....	0015
Focus .....	0400	Pioneer .....	0144, 0533	TV86 .....	0063
Garrard .....	0153	Popular Mechanics .....	0400	Televue .....	0040
Gemini .....	0015	Proscan .....	0021	Tocom .....	0012, 0013
General Instrument .....	0476	Pulsar .....	0000	Toshiba .....	0000
.....	0276, 0011, 0810	Quasar .....	0000	T'usa .....	0015
GoldStar .....	0144, 0040	RCA .....	0021	Unika .....	0153
Goodmind .....	0797	Radio Shack .....	0015	United Artists .....	0007
Hamlin ....	0020, 0259, 0009, 0034	.....	0315, 0797, 0883	Universal .....	0153, 0191
Hitachi .....	0011	Recoton .....	0400	Viewstar .....	0063
Hytex .....	0007	Regal .....	0020, 0259	Zenith .....	0008, 0000, 0015, 0525
Jasco .....	0015, 0153, 0315	Regency .....	0002	Zentek .....	0400

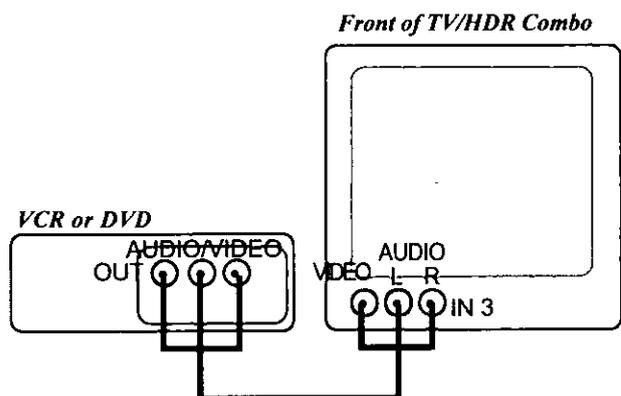
## Setup Codes for DSS Receivers

AlphaStar .....	0772	JVC .....	0775	Proscan .....	0566
Echostar .....	0775	Jerrold .....	0627, 0361	RCA .....	0566, 0143, 0855
Expressvu .....	0775	Magnavox .....	0724, 0722	Radio Shack .....	0566, 0869
General Instrument .....	0627	Memorex .....	0724	Sony .....	0639
.....	0361, 0869	Next Level .....	0869	Star Choice .....	0869
HTS .....	0775	Panasonic .....	0701	Toshiba .....	0790
Hitachi .....	0819	Philips .....	0724, 0722	Uniden .....	0724, 0722
Hughes Network Systems ....	0749	Primestar .....	0627, 0361	Zenith .....	0856

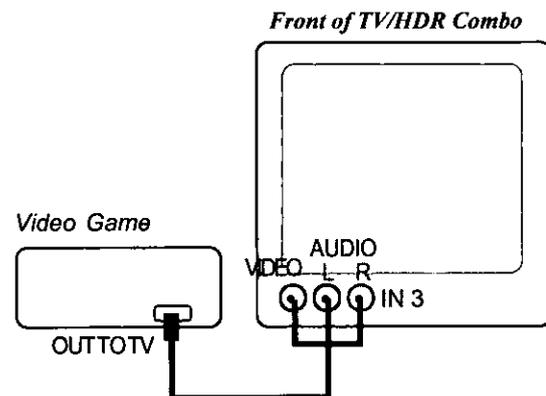
# Other Devices Connections

## Connections for Watching Playback from Other Devices

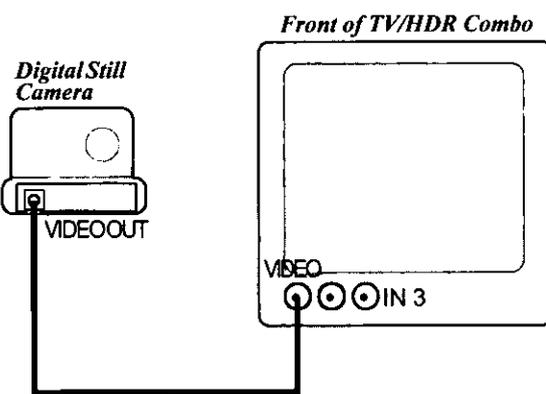
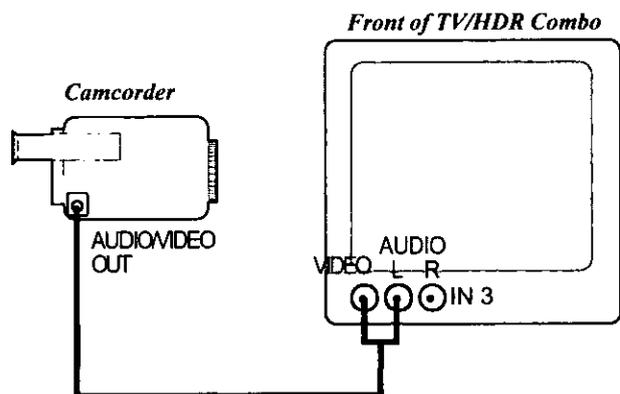
### VCR Connection



### Video Game Connection



### Camcorder/Digital Still Camera Connection



## Entering BYPASS Mode

The TV/HDR Combo must be placed in BYPASS mode during operation of other devices. The front jacks (Line 3) are especially convenient for connecting VCRs, DVDs, Video Game Systems, Camcorders, Digital Video Cameras, or Digital Still Cameras.

- 1 Press **INPUT** repeatedly to select Line 3 (front jack) or another LINE input.
- 2 Press **BYPASS** to place the TV/HDR Combo into BYPASS mode.
- 3 Use your **VCR, DVD, or other device as normal.**
  - Make sure you use your device or the device remote for the operations.

### Important

If a remote control button does not work when pressed, press **HDR/TV** button on the remote and try the button again.

### NOTE

- If you try to watch in HDR mode, the video signal may not be displayed properly. The TV/HDR Combo must be placed in BYPASS mode while using LINE INPUTS.

# Before Operating

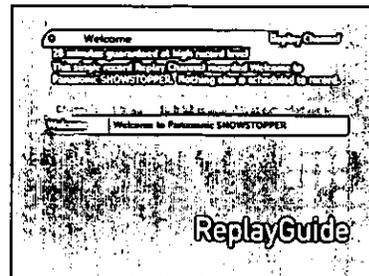
## Watching the Welcome Video

An instructional video is waiting for you to play directly from the Replay Guide. To watch the video:

1. Once you complete the on-screen setup, press **REPLAY GUIDE** on the remote.
2. Using the arrow buttons on the remote, highlight the video titled "Welcome to Panasonic SHOWSTOPPER."
3. Press **PLAY/SLOW** on the remote.

You may use all of the television control features, such as pause and rewind, while watching this video. All of the features covered in the instructional video are also referenced in this guide.

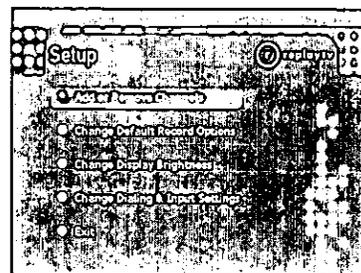
After you watch the video and are comfortable with the TV/HDR Combo's features, you may want to save the video onto a videotape and delete the video from the Replay Guide. This will make more room for recording shows. See "Saving Shows to Videotape" on page 37 for instructions on connecting the TV/HDR Combo to a VCR.



## Changing Your Dialing & Input Settings

If you move, add another telephone service, change video equipment, or do something else that may require updating the information you provided during on-screen setup, you may change the information at any time.

1. Press **MENU** to display the Main Menu.
2. Press **▲/▼/◀/▶** to highlight "Setup," then press **SELECT** to display the Setup screen.
3. Press **▲/▼** to highlight "Change Dialing & Input Settings," then press **SELECT** to display the Setup Summary screen.
4. Press **▲/▼** to highlight the option, then press **PLAY/SLOW** to display the screen that you want to change.
5. Complete the settings you want to change. (Refer to page 13, 14, and 15.)
6. After your change is finished, press **▼** to highlight "Keep all settings," then press **PLAY/SLOW** to finish the setup and connect to the ReplayTV Service.
  - If you don't need to connect to the ReplayTV Service now, press **STOP** to cancel the connection. Then press **EXIT** twice to exit. The TV/HDR Combo will connect to the ReplayTV Service at night.
7. After the connection is completed, press **PLAY/SLOW** to begin using the TV/HDR Combo.



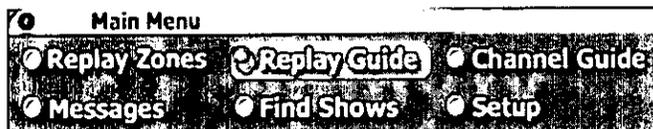
## Feature Updates

Occasionally, new features are added to the TV/HDR Combo. These features are updated directly over the telephone line connected to the TV/HDR Combo. As features change, you may encounter features that perform differently from those in this guide. In general, follow the on-screen instructions if a feature is not documented in this guide.

## Using the Main Menu

Use the Main Menu to use some of the TV/HDR Combo's main features and to change information you provided during the on-screen setup.

Press **MENU** on the remote or the TV/HDR Combo to display the Main Menu.



### Replay Zones:

You can find the best of what's on TV, organized in easy-to-use categories, in ReplayTV's Replay Zones. Replay Zones are constantly being updated with fresh and exciting content, tracking the hottest shows and stars so you don't have to.

### Replay Guide:

Think of the Replay Guide as your personal television station that only broadcasts the shows you want to watch. Every show that your TV/HDR Combo records can be found in the Replay Guide. From the Replay Guide, you can schedule, play, and delete recorded programs.

### Channel Guide:

The Channel Guide is the interactive on-screen program guide. The Channel Guide lists seven days of up-to-date listings for all the TV channels you receive.

### Messages:

The ReplayTV Service will send you messages about important news, and the latest features and enhancements as soon as they are made available. You'll receive a welcome message after you complete the on-screen setup of your TV/HDR Combo. The Replay Guide will notify you when you have received an important message.

### Find Shows:

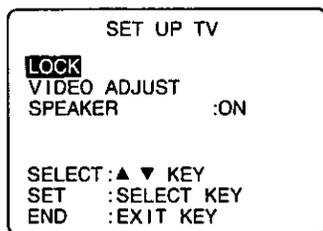
Use Find Shows to quickly locate shows that you'd like to record using keywords. After the TV/HDR Combo finishes searching for shows that match the keyword(s) you provided, you can schedule a show for recording or create a Theme-based channel based on your search results.

### Setup:

Access the Setup menu to customize the TV/HDR Combo in the following ways:

- **Add or Remove Channels:** Add or remove channels from the Channel Guide. This is handy for removing channels you don't subscribe to, or channels that are inappropriate for particular audiences.
- **Change Default Record Options:** Set the recording options that the TV/HDR Combo uses to record shows — including Record Quality, and number of saved episodes.
- **Change Display Brightness:** You can use this feature to adjust the brightness of the HDR graphic screens. This setting will only effect HDR graphic image.
- **Change Dialing & Input Settings:** See "Changing Your Dialing and Input Settings" section on page 18.

Press **ACTION** on the remote to display the TV Main Menu.



### LOCK

The TV/HDR Combo has a built-in V-Chip Control which allows you to block unwanted TV usage based on US MOVIES and US TV PROGRAM ratings. Here you can set the V-Chip Control. See pages 45-47.

### VIDEO ADJUST

Here you can adjust the picture-COLOR, TINT, BRIGHTNESS, PICTURE, and SHARPNESS. See page 42.

### SPEAKER

Here you can turn off the speaker of the TV/HDR Combo when it is connected to external audio equipment. See page 43.

# Controlling Live Television

Be sure all connections have been made and the on-screen setup has been completed.

## Viewing Live Television

**1** Press **POWER** to turn on the TV/HDR Combo.  
• If necessary, press **HDR TV** before pressing **POWER**.

**2** Press **CHANNEL GUIDE** to display the Channel Guide.  
• You can also select "Channel Guide" from the Main Menu.

**3** Press **▲/▼/◀/▶** to highlight a current show (light blue listing) in the Channel Guide, then press **SELECT**.

### Browse Preset Channels

Press **CHANNEL ▲** or **CHANNEL ▼**.

(Note: If the TV/HDR Combo is currently recording a show, you'll need to stop the recording by pressing **STOP** on the remote before browsing channels.)

### Select a Channel by Number Button(s)

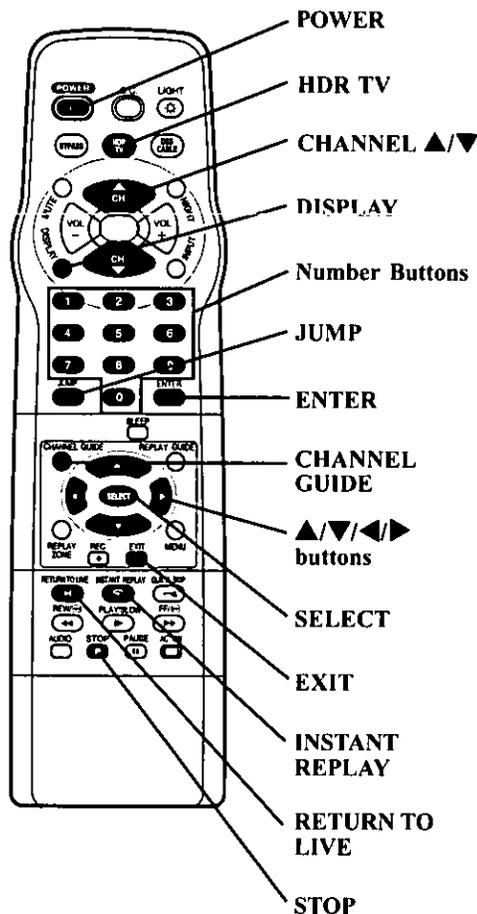
Press **Number Buttons** to select a channel, then press **ENTER**. (If you don't press **ENTER**, it changes automatically after a few seconds.)

### Switch Quickly between Two Channels

Press **JUMP** to switch to the last show you were watching, and **JUMP** again to switch back to the first show. You can also jump between two recorded shows, and between a live show and a recorded show.

### Get Information on a Show You're Viewing

Press **DISPLAY** to get program information—a synopsis of the current program you're watching, and information about the length of the show. Press **DISPLAY** again or **EXIT** to dismiss the information. Display information will automatically fade away after 15 seconds.



## Using Instant Replay

The Instant Replay feature lets you skip back seven seconds during a live or recorded show. It's the perfect way to ensure you don't miss a single word of dialogue in your favorite movie, or any of the important action in a game.

**1** Press **INSTANT REPLAY** while you're watching a live broadcast.  
• You'll instantly skip back seven seconds and begin watching again from there.  
• You can repeatedly press **INSTANT REPLAY** and move back in seven second increments.

**2** Press **RETURN TO LIVE** when you want to go back to the live broadcast.

### NOTE

• Whenever you start watching a live show, the TV/HDR Combo automatically starts recording the show, and the recording is temporarily preserved in the TV/HDR Combo's recording space. Even if you delay viewing by using the pause and rewind features, recording continues. Recording stops if you change to a live or pre-recorded show.

**Important**  
If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

## Pausing Live Television and Recorded Shows

The pause feature lets you attend to interruptions without missing a moment of your favorite television shows. You can pause both recorded shows and live television.

- 1 Press **PAUSE** while you're watching live television or a recorded show.
  - An on-screen message notifies you how much pause time remains.
  - Press **EXIT** to dismiss the Pause on-screen message.

- 2 When you return from your interruption, press **PLAY/SLOW** to resume watching from where you left off.
  - You can also press **RETURN TO LIVE** if you want to catch up with the live broadcast.
  - Press **DISPLAY** to see how far you are behind the live show.

### Using Stop

Stop works very much like Pause. You can use stop while watching a live television broadcast or when watching a recorded show. Pressing **STOP** displays a STOP screen, rather than "freezing" the image of the show you're watching. Even though you press **STOP**, you can still return to where you left off in the live broadcast or recorded show by pressing **PLAY/SLOW**, or press **RETURN TO LIVE** to catch up with a live broadcast.

### NOTE

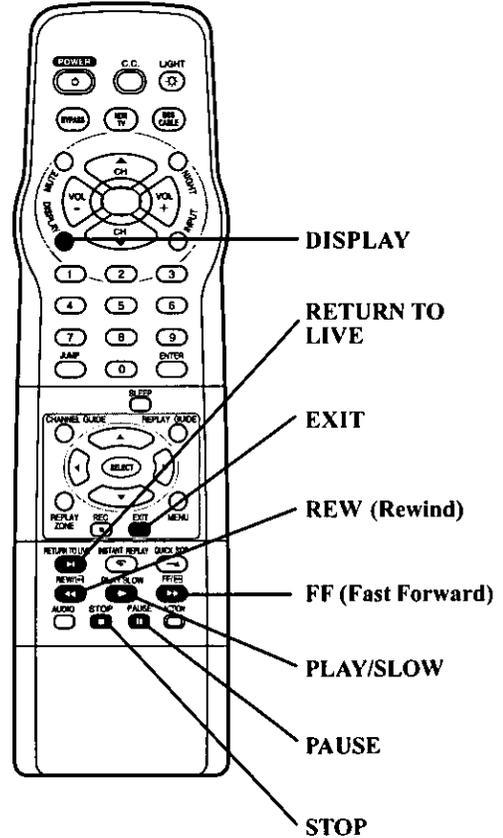
- When you pause a live broadcast, it continues to record on the hard disk.

## Using Rewind and Fast Forward

The TV/HDR Combo starts recording live television when you begin watching a show. If you're watching a live show, you can rewind to the point where you first started watching. Then, turn around and quickly move ahead using Fast Forward.

- 1 Press **REW (Rewind)** after you have watched a show for a while.
  - Press **REW** multiple times to select one of five rewind speeds (1x rewind displays the rewind symbol on the screen, followed by 2x, 4x, 16x, and 20x rewind).
  - The show will begin playing when you reach the point where you started watching the show.
  - Rewinding stops when you press **PLAY**, **STOP**, or **FF**.

- 2 Press **FF (Fast Forward)** to go forward in the show.
  - Press **FF** multiple times to select one of five fast forward speeds (1x fast forward, displays the fast forward symbol on the screen, followed by 2x, 4x, 16x, and 20x fast forward).
  - The Live symbol will display on your screen when you have caught up with live programming.



# Controlling Live Television (continued)

## Using Slow Motion

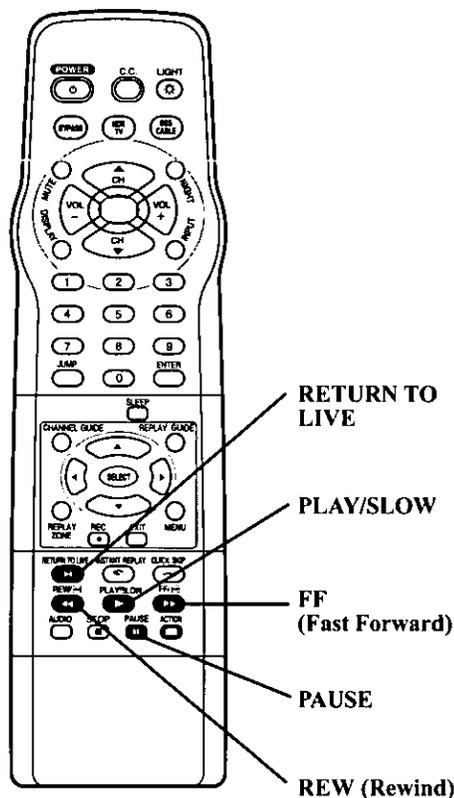
You can play recorded shows and live television in slow motion with a couple of remote control button presses.

- 1** Press **PLAY/SLOW** while a recorded show or live broadcast is playing.
  - The slow motion symbol in the lower right of the screen indicates that the show is now playing in slow motion.
- 2** Press **FF (Fast Forward)** to increase the speed of slow motion.
  - Press **FF (Fast Forward)** twice or three times to speed up slow motion.
  - Press **REW** to decrease the slow motion speed while in 2x or 3x slow motion.
- 3** Press **PLAY/SLOW** to return to normal speed or press **RETURN TO LIVE** to catch up with a live broadcast.

## Using Frame Advance

Frame advance lets you watch a recorded show or live broadcast a single frame at a time. This is a great feature to use with fast-moving scenes, when you want to slow things down so you can see every second of the action.

- 1** Press **PAUSE** while a recorded show or live broadcast is playing.
  - The **PAUSE** symbol displays on the screen and the show remains on screen in a paused mode.
- 2** Press **FF (Fast Forward)** while a show is paused to advance a single frame.
  - Each time you press **FF** the show moves forward by a single frame.
  - The show then pauses until you press **FF** again, or another button to cancel the frame advance feature.
- 3** Repeatedly press **FF (Fast Forward)** to move ahead frame by frame.
- 4** Press **PLAY/SLOW** to watch the show at normal speed or press **RETURN TO LIVE** to catch up with a live broadcast.



**Important**  
If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

## Using QuickSkip™ (Skipping unwanted programming)

Use QUICKSKIP to skip past undesired scenes. QuickSkip can be used on live programming only if playback of the show has been delayed through the use of PAUSE, REWIND, or STOP.

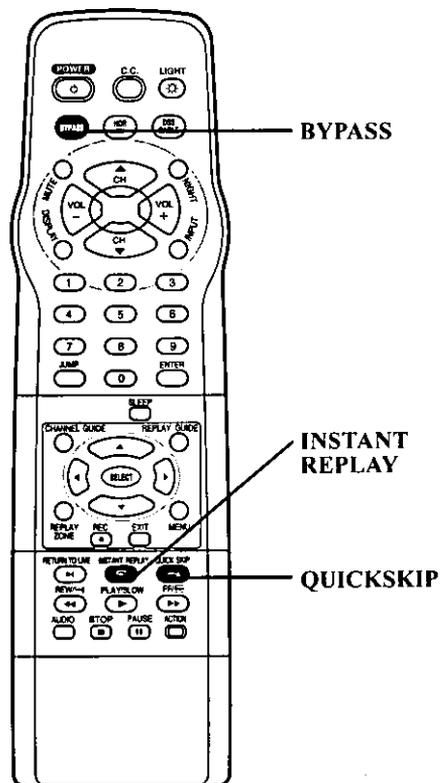
- 1 Press QUICKSKIP while you're watching a delayed live show or a recorded show.
  - You will instantly skip ahead 30 seconds in the show.
  - Press it repeatedly to skip in 30-second segments. Use the INSTANT REPLAY button to quickly correct for overshoot.

## Viewing Copy Protected Programming or Weak Signal

Shows broadcast using Macrovision or CGMS-A (Copy Generation Management System-Analog) copy protected signals are not viewable in Live TV mode, nor can they be recorded. Copy protected shows can only be viewed in BYPASS mode.

- 1 Press **BYPASS** to view the protected or weak signal in the Live TV or Live TV recording mode.

CH 125  
BYPASS



### NOTES

- In BYPASS mode, PLAY/SLOW, STOP, FF, REW, REC, PAUSE, INSTANT REPLAY, QUICK SKIP, and RETURN TO LIVE are not available.
- When in BYPASS mode, scheduled recordings will automatically record in HDR mode.
- Unauthorized copying of copy protected material constitutes copyright infringement.

# Recording Shows

The Channel Guide is an interactive, on-screen program guide that lists seven days of television information for all of the channels you currently receive. The Channel Guide makes recording your favorite shows easy. You can record while you are watching your recorded show.

While the TV/HDR Combo does not need to be on for recording, cable boxes and DSS receivers must remain on.

## Selecting a Show

You can also go back 24 hours within the Channel Guide to see what programs have already aired. If you missed a show, you can select it in the Channel Guide and use the TV/HDR Combo to search for episodes that have not yet aired. You can then set the TV/HDR Combo to record a future airing of the show. See "Finding All Episodes of a Show" on page 32.

**1** Press **CHANNEL GUIDE** to display the Channel Guide.

- You can also select "Channel Guide" from the Main Menu.

**2** Press **▲/▼/◀/▶** to move around the guide.

- Press **◀** to move back in the Channel Guide to see programs that have already aired. Then, search for episodes of a show that are upcoming.
- As you move around, notice that the program information changes to the show you have selected.

To jump ahead 12 hours, press **FF**.

To jump back 12 hours, press **REW**.

To move up and down one screen at a time, press **CHANNEL ▲/▼**.

To watch a channel in the Channel Guide, select a show that's on now and press **SELECT**.

To go to a channel, press **Number Buttons**, then press **SELECT**.

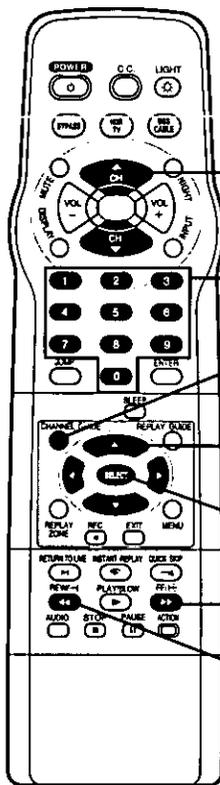
- For example, press 9 - 0, then press **SELECT** to go to channel 90.

### NOTE

- Channel Guide information is sent to the TV/HDR Combo from the ReplayTV Service each night. As long as you keep an active phone line plugged into the TV/HDR Combo, you'll always have seven days of the most up-to-date listings available.

### From the Channel Guide you can:

- scroll through listings for shows you want to watch in the next seven days
- select shows to watch or record
- tune to a specific channel



CHANNEL ▲/▼

Number Buttons

CHANNEL GUIDE

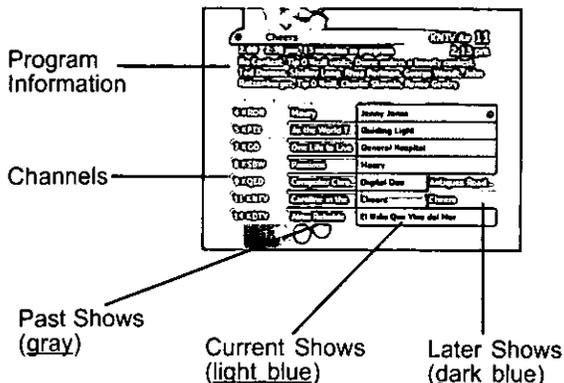
▲/▼/◀/▶ buttons

SELECT

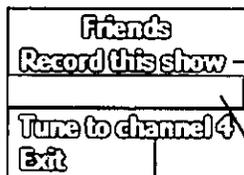
FF (Fast Forward)

REW (Rewind)

## Channel Guide Screen



## Channel Guide Popup Menu Items



**Record this show:** set the recording options for this show then record it. See page 27.

**Tune to channel:** go directly to the channel.

**Find all episodes:** find more episodes of this show. See page 32.

**Important**  
If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

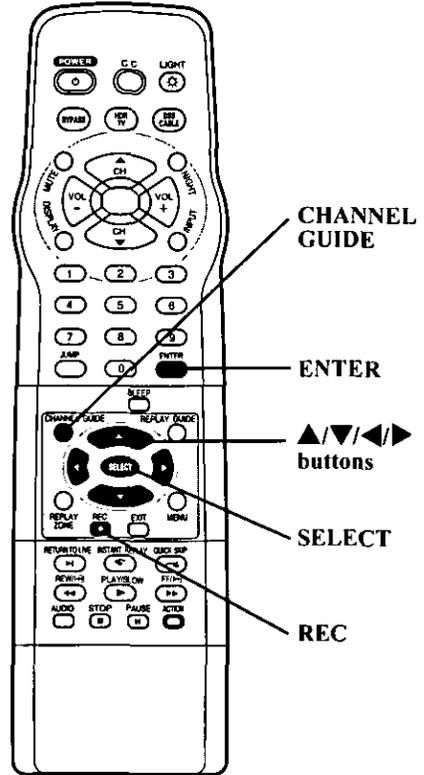
## Recording a Show That Is Currently Being Viewed

Light blue listings indicate shows that are on now.

- 1 Press **CHANNEL GUIDE** to display the Channel Guide.
  - You can also select "Channel Guide" from the Main Menu.
- 2 Press **▲/▼/◀/▶** to highlight a current show (light blue listing) in the Channel Guide, then press **SELECT**.
  - The TV/HDR Combo will tune directly to the channel you've selected unless a show is recording on another channel.
  - After highlighting a show, press **ENTER** to display the Channel Guide popup menu.
- 3 Press **REC** to record the selected show.
  - The Record Options screen will display.
- 4 Press **REC** a second time to accept the current recording settings.
 

**Or**

 Adjust the settings on the Record Options screen, then press **REC** to accept the settings.
  - See "Setting the Recording Options" on page 27 for more information on the Record Options screen.



## Recording a Single Upcoming Show

Follow these instructions if you want to record a single show using the current recording settings. To change the recording settings, see "Setting the Recording Options" on page 27.

- 1 Press **CHANNEL GUIDE** to display the Channel Guide.
  - You can also select "Channel Guide" from the Main Menu.
- 2 Press **▲/▼/◀/▶** to highlight an upcoming show (dark blue listing) in the Channel Guide, then press **REC**.
  - A solid red dot is placed next to the show you selected. This means that just this one show, or episode, will be recorded. To view the show after it has been recorded, go to the Replay Guide. See "Watching a Show" on page 36.
  - If you want to change recording options of a show before it begins recording, select the show in the Channel Guide and select "Change record options" from the popup menu.

### NOTE

- To cancel the recording, see "Cancelling a Scheduled Recording" on page 26.

### Extending Recording Time

If you want to record a show that may extend beyond its scheduled length, record the show immediately following the event. This is handy when recording a sporting event, which may go into extra innings or overtime.

### Indication of Red Dots

In the Channel Guide, solid red dots indicate guaranteed recording. Hollow dots indicate non-guaranteed recording.



Guaranteed recording



Non-guaranteed recording

One dot appears on the Channel Guide listing if you're recording only one episode; two dots appear if you're recording all episodes.

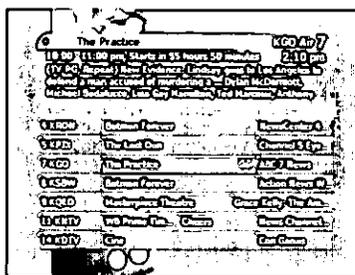
- See "Managing Recording Space" on pages 38 and 39 for more information on guaranteed and non-guaranteed recordings.

## Recording Multiple Episodes of One Show

If you have a favorite show that airs once a week, or daily, you can set the TV/HDR Combo to record every episode. This is called a Show-based Replay channel. See "Show-based Replay Channels" and "Theme-based Replay Channels" on page 33. Follow these instructions to record each episode of a show using the current recording settings. To change the recording settings, see "Setting the Recording Options" on page 27.

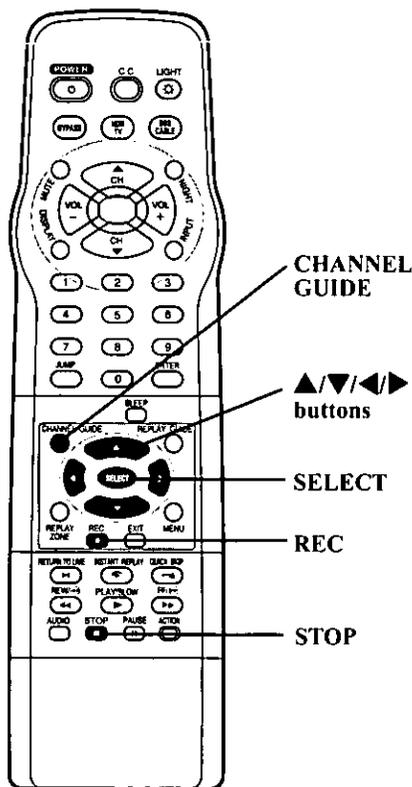
**1** Press **CHANNEL GUIDE** to display the Channel Guide.

- You can also select "Channel Guide" from the Main Menu.



**2** Press **▲/▼/◀/▶** to highlight an upcoming show (dark blue) you wish to record in the Channel Guide, then press **REC** twice.

- Two solid red dots are placed next to the show you selected. This means that the TV/HDR Combo will continuously record the most current episode of this show.
- To view an episode of the show after it has been recorded, go to the Replay Guide. See "Watching a Show" on page 36.



## Cancelling a Scheduled Recording

You can cancel a recording in the Channel Guide at any time before the show starts.

**1** Press **CHANNEL GUIDE** to display the Channel Guide.

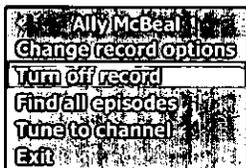
- You can also select "Channel Guide" from the Main Menu.

**2** Press **▲/▼/◀/▶** to highlight the show you want to cancel in the Channel Guide.

- You'll know it's set to record because it has at least one red dot next to the show.

**3** Press **SELECT**.

- The popup menu displays.



**4** Press **▲/▼** to select "Turn off record," then press **SELECT**.

- The red dot disappears.

## To Cancel a Recording in Progress from the Channel Guide...

You can also cancel a recording in the Channel Guide by selecting the show and pressing **REC** once or twice.

- The red dots are removed.

## To Cancel a Recording in progress

While the show is recording, quickly press **STOP** twice.

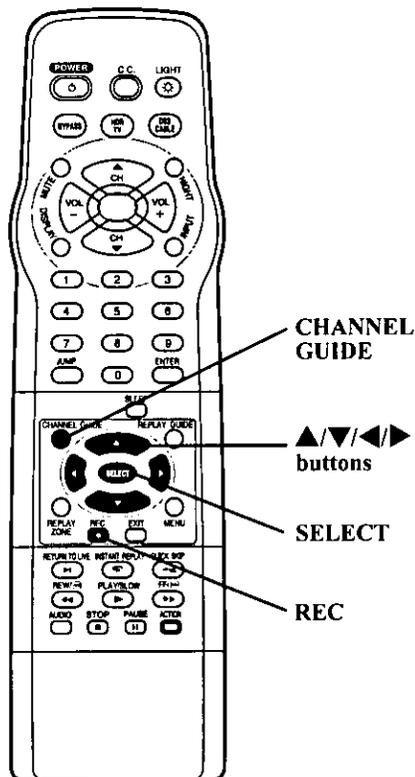
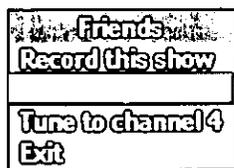
**Important**  
If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

## Setting the Recording Options

There may be times when you want to adjust the record options for the show you want to record. For example, you might want to record movies or sporting events at higher quality than TV shows.

Follow these instructions to adjust the recording options of a show before you record it.

- 1** Press **CHANNEL GUIDE** to display the Channel Guide.
  - You can also select "Channel Guide" from the Main Menu.
- 2** Press **▲/▼/◀/▶** to highlight an upcoming show (dark blue) that you would like to record, then press **SELECT**.
- 3** Press **▲/▼** to highlight "Record this show," then press **SELECT**.
  - The Record Options screen displays.
- 4** Press **▲/▼** to highlight an option you want to change. (See "Record Options Settings" below.)
- 5** Press **SELECT** or **◀/▶** to change a setting.
  - Repeat steps 4 and 5 until you have completed your changes.
  - See below for more information on the Record Options.
- 6** Press **▲/▼** to highlight "Done," then press **SELECT** to apply your changes.
  - You can also press **REC** to apply your changes.
  - The show will be recorded based on the settings you selected.



## Record Options Settings

### Recording Level

"High" level offers the best picture but takes up more space. "Extended" offers the most recording time but sacrifices picture quality. "Medium" offers a balance of the two. Notice that the recording space (hours and minutes available) changes as you adjust the record level. The higher the recording level, the less space available for other shows. To conserve space, use the High setting sparingly—for recording fast-action shows where quality is vital.

### Guaranteed

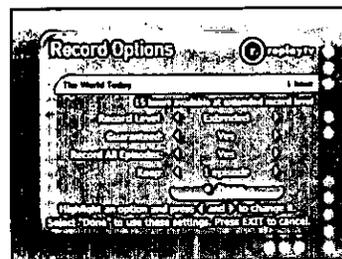
Guaranteed means space is reserved for this show. Non-guaranteed means the show will be recorded if there is space available (after space is reserved for Show-based Replay channels). See "Guaranteed and Non-guaranteed Recording" on page 38.

### Record All Episodes

Choices are Yes and No. Selecting Yes will record all episodes of this show—daily or weekly. Selecting no will result in only a single episode being recorded.

### Keep

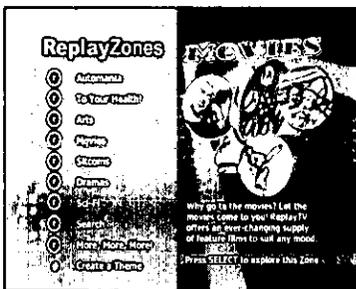
If you select to record all episodes, here you can tell the TV/HDR Combo how many you want to keep (up to 7) before the most current episode replaces the oldest episode. If you are setting up a theme-based recording, you can select the recording time between 1/2 hour and 10 hours.



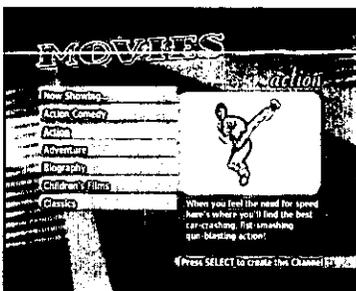
## Recording From Show Categories

Visit Replay Zones to create channels based on topical television categories created by the ReplayTV Service. Zones are organized in topics such as romantic comedies, sitcoms, action-adventure, cartoons, and talk shows. Replay Zones change regularly and make it easy to record the best of what's on TV.

- 1** Press **REPLAY ZONES** to display the Replay Zones screen.
- You can also select "Replay Zones" from the Main Menu.



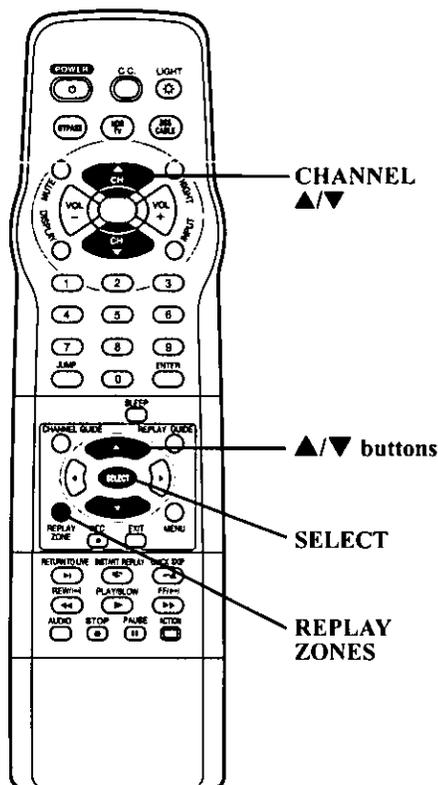
- 2** Press **▲/▼** to search for your topic of interest, then press **SELECT** with your topic selected.
- The Zone you select displays, with its zone channels listed.
  - You can go to the next Zone screen using **CHANNEL ▲/▼**.



- 3** Press **▲/▼** to highlight a Zone channel, then press **SELECT** to select it.
- The TV/HDR Combo searches your channel listings for shows matching the category.

- If you like the shows the TV/HDR Combo finds, you can create a Zone channel which will be stored in the Replay Guide. This means that whenever a show in this Zone category airs, the TV/HDR Combo will record it for you. You can also select to record individual shows from the list.

To Record *One* of the Shows...  
To Create a Show-based Replay Channel...  
To Cancel Recording of a Show... } → See page 31.



### Important

If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

## Recording Shows Based On a Theme You Choose

The TV/HDR Combo lets you record shows based on any theme you choose. Themes can be topics such as golf, news, pets, or even your favorite actor or director. For more information on themes, see "Show-based Replay Channels" and "Theme-based Replay Channels" on page 33.

**1** Press **REPLAY ZONES** to display the Replay Zones screen.

- You can also select "Replay Zones" from the Main Menu.

**2** Press **▲/▼** to highlight "Create a Theme," then press **SELECT**.

- The on-screen keyboard displays.

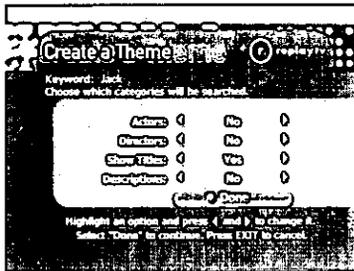


**3** Complete your keyword(s) on the on-screen keyboard.

- See "Using the On-Screen Keyboard" section on page 31.

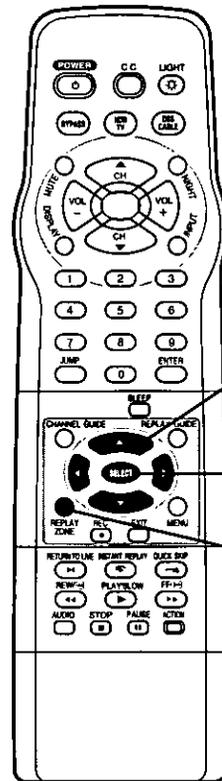
**4** Select the categories that will be searched. Press **▲/▼** to highlight a category you want to change, then **◀/▶** to change a setting.

- Repeat this step until you have completed your changes.



**5** Press **▲/▼** to select "Done," then press **SELECT** to apply your changes.

- The TV/HDR Combo searches through the seven days of Channel Guide listings for shows that match the keyword(s) you entered and the search settings you selected.

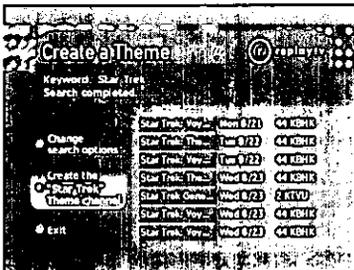


To re-enter your keyword and start over...

**a.** Press **▲/▼/◀/▶** to highlight "Change search options," then press **SELECT**.

**b.** Re-enter your keyword. See the "Using the On-Screen Keyboard" section on page 31 for more information.

**c.** Complete step 4 and 5 above.



To create a Theme-based Replay channel for your keyword,

**a.** Press **▲/▼/◀/▶** to highlight "Create the 'keyword' Theme channel," then press **SELECT**.

**b.** See "Setting the Recording Options" steps 4, 5, and 6 on page 27 to adjust the recording settings.

### NOTES

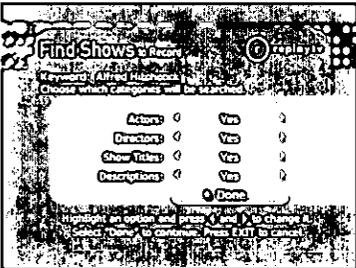
- The TV/HDR Combo searches only for an entire phrase, not for the separate words in a phrase.
- Use multiple-word themes if they help avoid confusion. For example, use "Harrison Ford" rather than "Ford" if you want movies with the actor but not shows about cars.

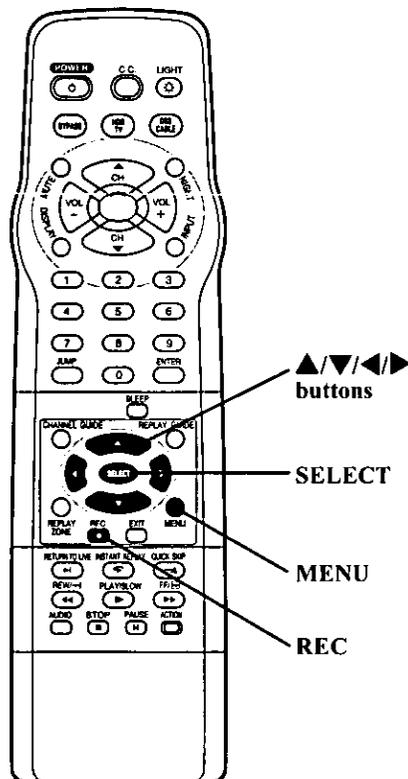
# Recording Shows (continued)

## Finding Shows

To quickly find the exact show you're looking for, use Find Shows. This is a great feature if there's a particular show you're looking for but don't know what time or channel it's on.

- 1 Press **MENU** to display the Main Menu.  

- 2 Press **▲/▼/◀/▶** to highlight "Find Shows," then press **SELECT**.
  - The on-screen keyboard displays.
- 3 Complete your keyword on the on-screen keyboard.
  - See "Using the On-Screen Keyboard" section on page 31.
- 4 Press **▲/▼** to highlight a category you want to change, then **◀/▶** to change a setting.
  - Repeat this step until you have completed your changes.
- 5 Press **▲/▼** to highlight "Done," then press **SELECT** to apply your changes.
  - You can also apply your changes by pressing **REC**.
  - The TV/HDR Combo searches through the seven days of Channel Guide listings for shows based on the keyword(s) you chose and the search settings you selected.
  - The search results are presented in the order that they are scheduled to air. You have a few options on this screen. (See below.)



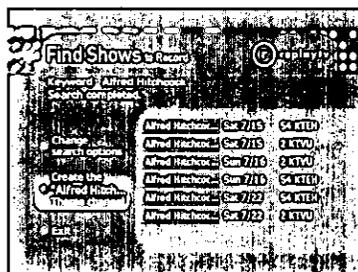
To Record *One* of the Shows...  
To Create a Show-based Replay Channel...  
To Cancel Recording of a Show... } → See page 31.

To re-enter your keyword and start over...

- a. Press **▲/▼/◀/▶** to highlight "Change search options," then press **SELECT**.
- b. Re-enter your keyword. See the "Using the On-Screen Keyboard" section on page 31.
- c. Complete step 4 and 5 above.

To create a Theme-based Replay channel for your keyword...

- a. Press **▲/▼/◀/▶** to highlight "Create the 'keyword' Theme channel," then press **SELECT**.
- b. See "Setting the Recording Options" steps 4, 5, and 6 on page 27 to adjust the recording settings.



**Important**

If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

### To Record *One* of the Shows...

1. Press ▲/▼ to select the show you want to record.
2. Press REC to record the show.
  - One red dot is placed next to the episode you select.

Or

If you want to adjust the record options...

- a. Press SELECT to display the popup menu.
- b. Press ▲/▼ to select "Record this show."
- c. See "Setting the Recording Options" steps 4, 5, and 6 on page 27 to adjust the recording settings.
  - This single-record show will be stored in the Replay Guide.

### To Create a Show-based Replay Channel...

1. Press ▲/▼ to select the show you want to record.
2. Press REC twice to record the show.
  - Two red dots are placed next to the episode you select.

Or

If you want to adjust the record options...

Repeat steps a, b, and c above.

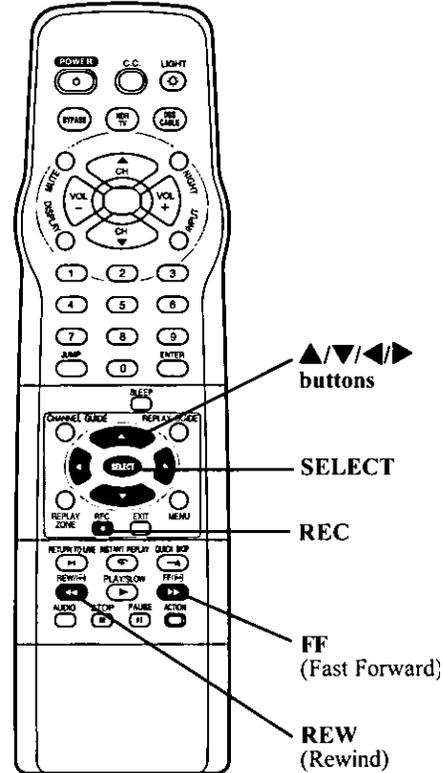
- This Show-based channel will be stored in the Replay Guide.

### To Cancel the Recording of a Show...

1. Press ▲/▼ to select the show you want to cancel, then press SELECT.
2. Press ▲/▼ to select "Turn off record," then press SELECT.
  - The red dot disappears.

**NOTE**

- If there's enough recording space, you can select to record more than one of the shows on this screen. Or, set one show as a guaranteed record and another as non-guaranteed. The non-guaranteed show will be recorded if space allows.



### Using the On-Screen Keyboard

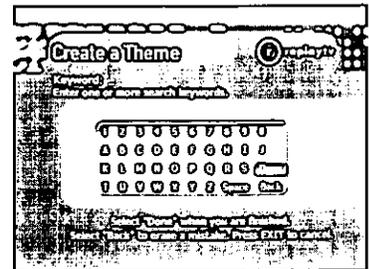
The keyboard appears on-screen when you select "Find Shows" from the Main Menu and when you select to "Create a Theme" in Replay Zones.

1. Press ▲/▼/◀/▶ to highlight the letter you would like to type, then press SELECT to enter.
2. Repeat step 1 until you have typed the complete keyword.

If you make a mistake, press REW or press ▲/▼/◀/▶ to highlight "Back," then press SELECT.

If you want to add a space between words, press FF or press ▲/▼/◀/▶ to highlight "Space," then press SELECT.

3. Press ▲/▼/◀/▶ to highlight "Done," then press SELECT when you have finished entering your keyword.



# Recording Shows (continued)

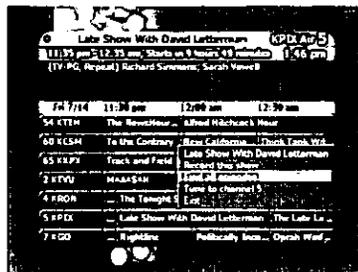
## Finding All Episodes of a Show

You can "Find all episodes" of a program for Show-based recordings in both the Replay Guide and Channel Guide. "Find all episodes" finds episodes that match the show's title exactly. It's a great feature for finding program information for individual episodes or selecting specific upcoming episodes to record.

### All Programs Listed in the Channel Guide

**1** Press **CHANNEL GUIDE** to display the Channel Guide.

- You can also select "Channel Guide" from the Main Menu.



**2** Press **▲/▼/◀/▶** to highlight the show you want, then press **SELECT**.

- The popup menu displays.

**3** Press **▲/▼** to highlight "Find all episodes," then press **SELECT**.

### Show-Based Programs in the Replay Guide

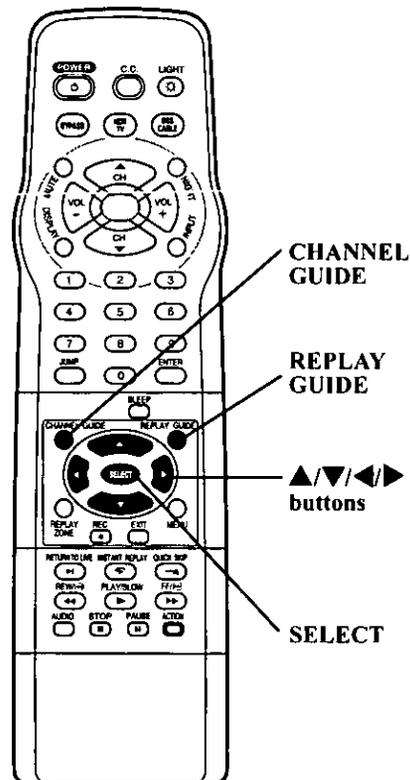
**1** Press **REPLAY GUIDE** to display the Replay Guide.

- You can also select "Replay Guide" from the Main Menu.

**2** Press **▲/▼/◀/▶** to highlight the show you want, then press **SELECT**.

- The popup menu displays.

**3** Press **▲/▼** to highlight "Find all episodes," then press **SELECT**.



## Finding Matching Shows

You can "Find matching shows" for Theme- and Zone-based channels in the Replay Guide. Find matching shows finds shows that match the keyword criteria you select on the categories screen. The keyword "baseball" could display an upcoming baseball game as well as the movie "The Bad News Bears."

### Theme- and Zone-Based Programs in the Replay Guide

**1** Press **REPLAY GUIDE** to display the Replay Guide.

- You can also select "Replay Guide" from the Main Menu.

**2** Press **▲/▼/◀/▶** to highlight the Theme- or Zone-based channel you want, then press **SELECT**.

- The popup menu displays.

**3** Press **▲/▼** to highlight "Find matching shows," then press **SELECT**.

**Important**

If a remote control button does not work when pressed, press **HDR/TV** button on the remote and try the button again.

## Using Find All Episodes & Find Matching Shows

After you select “Find all episodes” or “Find matching shows,” ReplayTV will search through seven days of Channel Guide listings for every episode of the program and list the results in the order that they are scheduled to air. You can then select from the following options:

### To Create a Theme-based Replay Channel...

- a. Press **▲/▼/◀/▶** to select “Create the ‘keyword’ Theme channel,” then press **SELECT**.
- b. See “Setting the Recording Options” steps 4, 5, and 6 on page 27 to adjust the recording settings.

To Record *One* of the Shows...

To Create a Show-based Replay Channel...

To Cancel Recording of a Show...

} → See page 31.

**NOTE**

- You can record multiple shows listed by “Find all episodes” or “Find matching shows.”

## Show-based Replay Channels

You can set the TV/HDR Combo to record a recurring show (daily or weekly) in the same time slot on the same channel.

Show-based recordings should be used to create Replay Channels that contain episodes of your favorite shows. They can be created from first run network channels or from syndicated channels. If you don't know what channel a particular show is on or want to capture all episodes regardless of what channel it is aired on, you can create a Theme-based Replay channel using the name of the show as the theme. For example, a Show-based channel created from “The X-Files” on Sunday night at 9PM will only record episodes that broadcast at or around that time on that particular channel. A Theme-based channel with the theme of “The X-Files” will record any episode of The X-Files from any channel on at any time.

## Theme-based Replay Channels

If you create a Theme-based channel using the keyword “Friends,” the TV/HDR Combo will look for and record *all* programs with the word “Friends” on all channels, including new Friends episodes and reruns, even “Barney & Friends.”

Theme-based channels can be created using any theme that you are interested in. For example, an actor, director or category name can be used. The theme you create will dictate the shows that are recorded. Theme-based channels are great for recording shows that change time slots frequently. By creating a Theme-based channel, all episodes are recorded, regardless of what time they air. (Of course, you have to have enough recording space allocated to your channel.) Show-based channels take priority over Theme-based channels if there is a time conflict. Theme-based channels are lots of fun—you never know what the TV/HDR Combo will find and record for you.

# Watching Your Recorded Shows

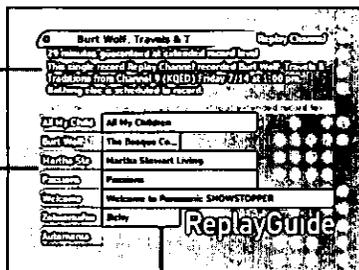
Every show that the TV/HDR Combo records is stored in the Replay Guide. All scheduled recordings are also listed here. This is where you go to watch your shows.

You can watch your recorded shows even if the TV/HDR Combo is recording a show.

## Replay Guide Screen

Program Information

Replay Channels



Replay Shows (light blue)

## Four Types of Replay Channels

The Replay Guide stores all your recorded shows and the shows set to record.

- **Single record Replay channels:** one episode or show.
- **Show-based Replay channels:** a series of episodes.
- **Theme-based Replay channels:** shows based on a Theme you select.
- **Zone-based Replay channels:** shows from Replay Zones.

## From the Replay Guide you can:

- See a list of shows the TV/HDR Combo has recorded for you.
- Play recorded shows—from the beginning, or wherever you last left off.
- Delete shows you have previously recorded, or have scheduled to record.

## Changing Replay Channel Characteristics

You can change the characteristics of a scheduled recording at any time (changing the recording quality from Extended to High, for example). The available menu items for the Replay channels you set up depends on the type of Replay channel.

Single record channels and Show-based channels contain the following choice:

-----> **Change record options**

Theme-based Replay channels contain the following choices:

- > **Change record options**
- > **Change search options**
- > **Find matching shows**

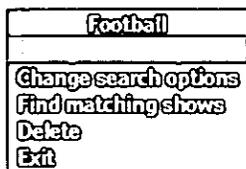
Zone-based Replay channels contain the following choices:

- > **Change record options**
- > **Find matching shows**

## To display the popup menu...

Highlight a Replay channel or a Replay show using ▲/▼/◀/▶ buttons, then press SELECT.

## Replay Channel Popup Menu Items



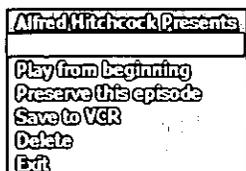
**Change record options:** change the channel's recording options. See page 27. You can't change the recording level of a Replay show after it has been recorded.

**Change search options:** re-type your search keyword. See page 30.

**Find matching shows:** see the shows that fit the characteristics of the Replay channel you have set up. See page 35.

**Delete:** permanently remove the channel. See page 35.

## Replay Show Popup Menu Items



**Play:** play the show from where you left off. See page 36.

**Play from beginning:** play the show from the start. See page 36.

**Preserve this episode:** save a show in the Replay Guide so it is not replaced by the next episode. See page 36.

**Save to VCR:** save shows to videotape for long-term archiving. See page 37.

**Delete:** permanently remove the show. See page 39.

**Important**  
If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

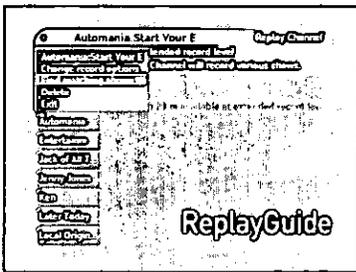
## Seeing What a Replay Channel Will Record

To quickly see the types of shows that will be recorded for a Theme-based or a Zone-based channel, use the **Find matching shows** feature. This is a great way to verify that the shows the channel finds are what you want to watch.

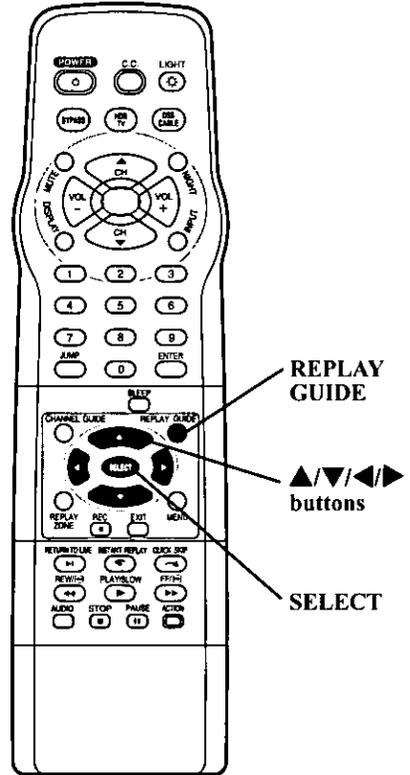
**1** Press **REPLAY GUIDE** to display the Replay Guide.  
• You can also select “Replay Guide” from the Main Menu.

**2** Press **▲/▼/◀/▶** to highlight a Theme-based or Zone-based channel, then press **SELECT**.  
• The popup menu displays.

**3** Press **▲/▼** to highlight “**Find matching shows,**” then press **SELECT**.  
• The TV/HDR Combo searches through the seven days of Channel Guide listings for shows that match the characteristics of the Replay channel.



• The shows listed that match the Replay Zones or Theme channel settings. These shows will be recorded if there's space available and no recording conflicts exist (a guaranteed show, for example).



### If you want to adjust the channel's characteristics...

- Press **▲/▼/◀/▶** to highlight “Exit,” then press **SELECT** to go back to the Replay Guide.
- Press **▲/▼/◀/▶** to highlight the Replay channel, then press **SELECT** to display the popup menu options.
- Press **▲/▼** to choose one of the menus.  
• See “Replay Channel Popup Menu Item” on page 34.

### If you want to delete a Replay channel or Replay show...

- Press **▲/▼/◀/▶** to highlight the *channel or show* on the Replay Guide screen, then press **SELECT**.
- Press **▲/▼** to highlight “Delete,” then press **SELECT** to delete the Replay channel.  
• Choose “Yes” on the confirmation screen.

To Record *One* of the Shows...  
To Create a Show-based Replay Channel...  
To Cancel Recording of a Show... } → See page 31.

### NOTE

• If you select to record a single show or create a Show-based Replay channel, you may want to delete the Theme-based or Zone-based channel from the Replay Guide. This way, you will record the exact shows you want and eliminate the recording space taken by the Theme-based or Zone-based Replay channel.

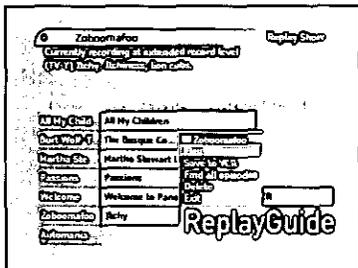
# Watching Your Recorded Shows (continued)

## Watching a Show

Watching shows that the TV/HDR Combo has recorded for you is easy.

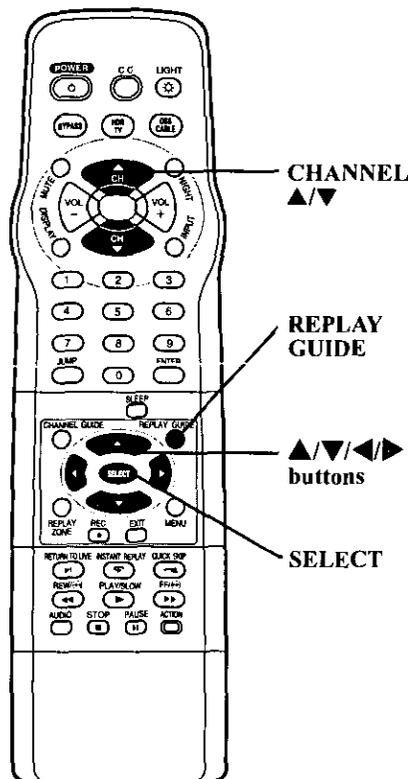
- 1 Press **REPLAY GUIDE** to display the Replay Guide.
  - You can also select "Replay Guide" from the Main Menu.

- 2 Press **▲/▼/◀/▶** to highlight the recorded show (light blue) you want to watch, then press **SELECT**.
  - The popup menu displays.



- 3 Press **▲/▼** to select "Play" or "Play from beginning," then press **SELECT**.
  - Select "Play" to watch the show from where you last left off.
  - Select "Play from beginning" to watch the show from the start.

- The show will begin playing. All of the TV/HDR Combo's television control features (Stop, Fast Forward, Rewind, Pause, Slow Motion, Frame Advance, QuickSkip, Instant Replay) are available when you play recorded shows. See "Controlling Live Television" on pages 20~23 for more on these features.



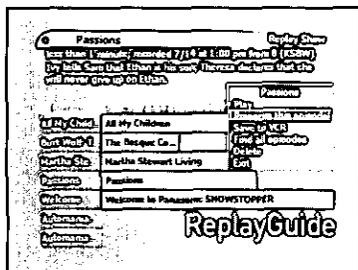
## Preserving a Show

You can preserve an episode of a show recorded in a Replay channel. Older episodes of Show-based and Theme-based Replay channels are deleted to make room for new episodes. Use this feature if you don't want a particular episode to be replaced.

- 1 Press **REPLAY GUIDE** to display the Replay Guide.
  - You can also select "Replay Guide" from the Main Menu.

- 2 Press **▲/▼** to highlight the show you want to save in the Replay Guide, then press **SELECT**.
  - The popup menu displays.

- 3 Press **▲/▼** to highlight "Preserve this episode," then press **SELECT**.



- If there is enough guaranteed space to accommodate the length of the show, it is removed from its current Replay channel and moved into a new single-record guaranteed channel.

## Programming blocked by V-Chip technology

The TV/HDR Combo has a built-in V-Chip Control. If you want to watch a show that is blocked you need to unlock the control. See "V-Chip Control" on pages 45~47 for more information.

### NOTE

- If you are watching a show that is blocked, you can go to another channel by pressing **CHANNEL ▲/▼**.

## Watching shows with closed-captioning

The TV/HDR Combo records closed caption information. To view the closed captioning for a live or recorded show, press **C.C.** See "Setting Closed Caption" on page 42.

### Important

If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

## Saving Shows to Videotape

If you want to save a show permanently, you can save shows recorded by the TV/HDR Combo to videotape. By transferring recorded shows to videotape more space will be available for the TV/HDR Combo to record other shows for the TV/HDR Combo to record other shows. The TV/HDR Combo is not intended to be used as a long-term storage device.

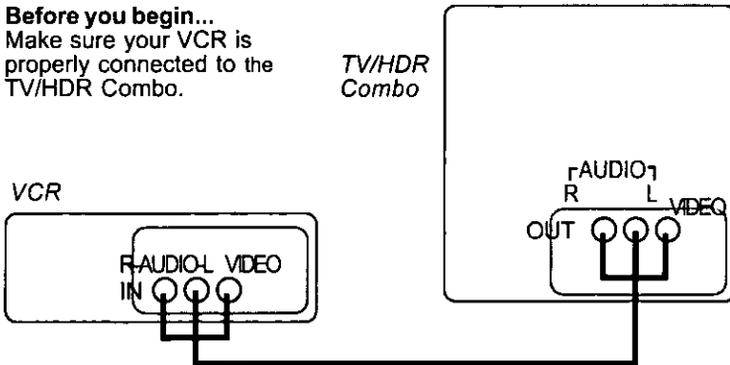
- NOTE**
- Live broadcast can not be recorded from the TV/HDR Combo to a VCR unless the speakers have been tuned off. (See page 43.)

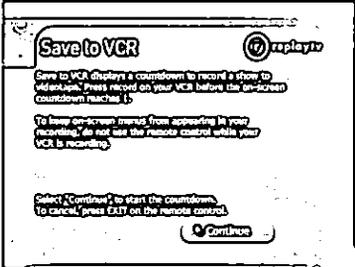
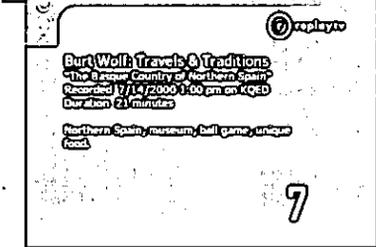
### Before you begin...

Make sure your VCR is properly connected to the TV/HDR Combo.

TV/HDR  
Combo

VCR

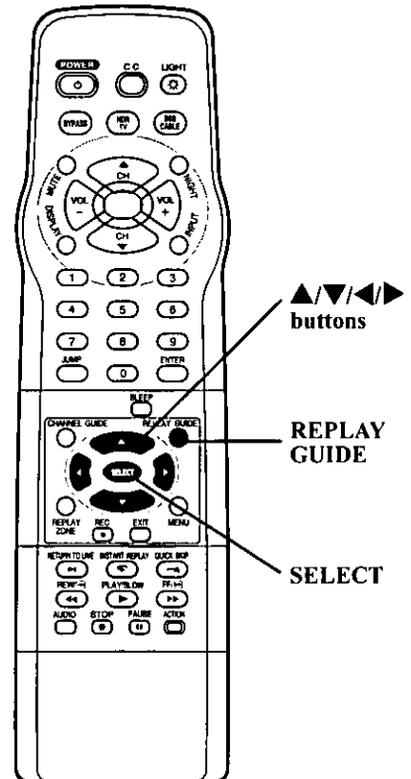


- 1 Insert a rewind videotape and turn on your VCR.
  - Make sure VCR is in the proper Line mode and TV/HDR Combo is in Live mode.
- 2 Press **REPLAY GUIDE** to display the Replay Guide.
  - You can also select "Replay Guide" from the Main Menu.
- 3 Press **▲/▼/◀/▶** to highlight the show you want to save, then press **SELECT**.
  - The popup menu displays.
- 4 Press **▲/▼** to highlight "Save to VCR," then press **SELECT**.
- 5 Press **SELECT** with "Continue" highlighted to start the on-screen countdown.
- 6 Press the Record button on your VCR before the on-screen countdown reaches 1.

- Don't press any buttons on the remote while the show is being saved to videotape or the on-screen displays will be recorded.

After the show has finished recording to videotape, delete the show from Replay Guide to make more recording space.

- See "Deleting a Show From the Replay Guide" section on page 39.



### NOTES

- Press the RECORD button on your VCR before the countdown reaches 1 if you want to record the information about the show. This will show you what the program is about when you watch the videotape later.
- Some VCRs take longer than others to begin recording. You may want to experiment to see when to begin recording on your VCR.



**Important**  
If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

## Guaranteed Record and Space-available Record

When you guarantee recording of a future show, recording space is immediately set aside. For this reason, the size of your recording space limits the number of shows you can guarantee. A guaranteed record places solid red dots next to the show-based recording in the Channel Guide.

When you don't guarantee a future show for recording, the show uses whatever space is available at the time it is recorded. If there is no unused space available at the time, the show may not be recorded. A non-guaranteed (space-available) record places hollow red dots next to the show in the Channel Guide. There is no limit to the number of non-guaranteed recordings you can set.

To increase the likelihood of your non-guaranteed shows being recorded, delete viewed shows from the Replay Guide after you have watched them. The time that is reserved for the Show-based channel that you just deleted can be used for non-guaranteed shows. Although, if another episode of the guaranteed show is about to air, it will reclaim its reserved recording space that was borrowed by the non-guaranteed recording.

## Recording Space Management Tips

Here are some space saving tips to make sure the TV/HDR Combo records what you want.

### Use the Guaranteed record setting for your can't miss shows

Use the Guaranteed setting for the shows you can't afford to miss, and use the non-guaranteed setting for other shows. By using the guaranteed setting for every show, you may block the recording of other shows you'd like to watch. If you maintain your Replay Guide regularly, there should always be enough space to record guaranteed and non-guaranteed shows.

### Use the High record level sparingly

The High level setting provides the best picture for the shows you record. This also takes up the most recording space of the three record level settings. You might want to use the High level setting for sporting events, fast-action movies, and other shows where quality is vital.

### Keep space available for pausing

If you need to pause live TV for longer than 10 minutes, keep more recording space free for the added pause time.

### Save shows you want to keep long-term to videotape

For shows you want to keep permanently, connect a VCR to the TV/HDR Combo and transfer recordings to videotape. See "Saving Shows to Videotape" on page 37.

### Review your Replay Guide regularly to delete any unwanted shows

Every show you record remains in your Replay Guide—even after you watch it. As more shows are recorded, available space begins to run out. Rather than leave an old episode in your Replay Guide, delete the show after you watch it. That way, you make space available so that other shows can be recorded, rather than tie that space up from week to week. Check your Replay Guide on a regular basis and delete shows you have already watched.

### Deleting a Show From the Replay Guide...

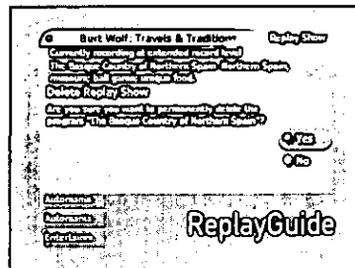
- Press **REPLAY GUIDE**.
- Press **▲/▼/◀/▶** to highlight the show, then press **SELECT**.
- Press **▲/▼** to highlight "Delete," then press **SELECT**.
- Press **▲/▼** to highlight "Yes," then press **SELECT**.

### To Delete a Show After You Watch It...

An on-screen message displays when the TV/HDR Combo has reached the end of a Replay show.

- Press **SELECT** when the on-screen message appears.
- Press **▲/▼** to highlight "Yes," then press **SELECT**.

The show is permanently removed from the Replay Guide, freeing up more recording space.



# Cable/DSS Universal Remote Control

The remote control may be set up to control some basic DSS or Cable Box functions.

**Only one receiver can be controlled even if you have both of DSS and Cable Box.**

## Setting Up Your Remote Control

- 1 Find your DSS or Cable Box Brand Code Number from one of the charts on page 41.
- 2 Hold down **DSS CABLE**, then press **Number buttons** to enter code.
- 3 Press **POWER** to turn your receiver ON or OFF.
  - If your receiver does not respond, repeat steps 1–3, trying each code listed for your brand until you find the one that operates your receiver.

### NOTES

- Please repeat “Setting Up Your Receivers” after replacing remote control batteries.
- The remote control will not operate all DSS receivers or Cable Boxes made by manufactures listed. If you get no response, your particular brand cannot be controlled.

## Using Universal Remote Control

Once the remote control has been properly set up, you can select DSS or CABLE mode depending on which functions you wish to control.

- 1 Press **DSS CABLE** to select your receiver.
- 2 Operate your receiver (e.g. **POWER**, **ENTER**, **Number buttons**, **CH▲/▼**.)

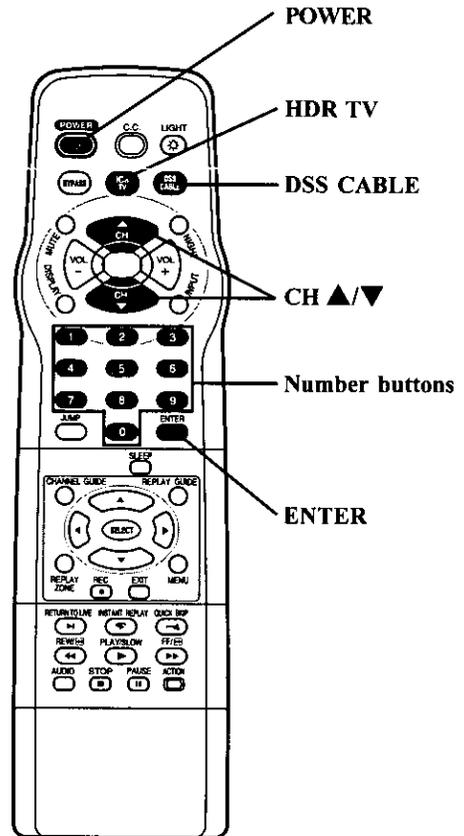
### To Return to the TV/HDR Combo Mode.

Press **HDR TV** to operate the TV/HDR Combo.

- If invalid button is pressed, the warning screen appears.

### NOTES

- In the universal mode, it may be necessary to press **ENTER** after pressing **Number buttons** for channel selection.
- Depending on your receiver brand, some of the functions may not be remote controllable and may require you to operate the device manually or with another remote control.
- Due to changes in infrared commands used by manufactures, some brands have several codes. If your receiver does not respond to the first code, please try the next one.



**Important**  
 If a remote control button does not work when pressed,  
 press HDR/TV button on the remote and try the button again.

## **DSS Brand Code Numbers**

Toshiba .....	92
Hitachi/Hughes .....	93
Magnavox/Uniden 1 .....	94
Magnavox/Uniden 2 .....	95
Panasonic .....	96
RCA .....	97
Sony .....	98, 105

## **Cable Box Brand Code Numbers**

Archer .....	05, 06, 01, 44, 63, 91, 126	Quest .....	05, 06
Cabletenna .....	01, 44, 63, 91, 126	Radio Shack .....	51, 44, 59, 75, 126
Cableview .....	63, 44, 42, 30, 52, 04, 124, 126	RCA .....	16, 17, 97, 109
Century .....	51, 44, 59, 75, 126	Realistic .....	51, 44, 59, 75, 126
Citizen .....	63, 44, 42, 30, 52, 04, 124, 126	Recoton .....	51, 44, 59, 75, 126
Curtis .....	08, 09, 61, 53, 87,	Regal .....	14, 15, 28, 41, 102, 103, 104, 108, 130
Diamond .....	01, 44, 63, 91, 126	Regency .....	28, 130
Drake .....	67	Rembrandt .....	01, 32, 39, 42, 44, 63, 126
Eagle .....	13, 22, 58, 62, 20, 40, 26, 107	Salora .....	68
Eastern .....	28, 130	Samsung .....	05, 32, 40, 42, 06
GC Brand .....	63, 44, 42, 30, 52, 04, 124, 126	Scientific Atlanta .....	08, 09, 61, 53, 87
Gemini .....	04, 124	Sheritech .....	27
General Electric .....	57, 01	Signal .....	26, 112
General Instruments .....	01, 02, 03, 04, 34, 55, 83	SL Marx .....	32, 40, 42, 06, 43, 44, 52, 63, 126
.....	106, 65, 67, 68, 115, 117, 118	Sprucer .....	16, 17, 97, 109
Hamlin .....	14, 15, 28, 41, 102, 103, 104, 108, 130	Standard Components .....	32, 39, 42, 44, 126
Hitachi .....	31	Stargate ....	32, 40, 63, 44, 42, 30, 52, 04, 06, 124, 126
Jasco .....	04, 124	Sylvania .....	19
Jerrold .....	01, 02, 03, 04, 34, 55, 83	Teknika .....	74
.....	106, 65, 67, 68, 115, 117, 118	Telecaption .....	77, 127
Macom .....	31	Televue .....	32, 40, 42, 06
Magnavox .....	26, 112	Texscan .....	18, 19
Matsushita .....	16, 17, 97, 109	Tocom .....	33, 34, 01, 42, 66, 91
MovieTime .....	32, 39, 42, 44, 126, 38, 40	Toshiba .....	36
NEC .....	38, 40, 32	Uniden Satellite .....	65
NOVAVISION .....	08, 09, 61, 53, 87	Unika .....	01, 44, 63, 91, 126
NSC .....	38, 40, 32	Universal .....	42, 43, 44, 52, 63, 126
Oak .....	46, 11, 129	Videoway .....	07, 23, 50, 129
Oak Sigma .....	46, 11, 129	Vid Tech .....	64
Panasonic .....	16, 17, 97, 109	Vidtek .....	64
Phillips .....	07, 13, 20, 23, 24, 50, 128, 129	Viewstar .....	13, 22, 58, 62, 20, 40, 26, 107
Pioneer .....	05, 06	Zenith .....	07, 23, 50, 129
Pulsar .....	63, 44, 42, 30, 52, 04, 124, 126		

# Basic TV Operation

## Adjusting Picture

**1** Press **ACTION** to display the SET UP TV screen.

**2** Press **▲/▼** to highlight "VIDEO ADJUST," then press **SELECT**.

**3** Press **▲/▼** to highlight the desired item (see at right), then press **◀/▶** to adjust.

SET UP TV  
LOCK  
VIDEO ADJUST  
SPEAKER :ON  
  
SELECT :▲ ▼ KEY  
SET :SELECT KEY  
END :EXIT KEY

COLOR .....|.....  
TINT .....|.....  
BRIGHTNESS .....|.....  
PICTURE .....|.....  
SHARPNESS .....|.....  
NORMAL  
  
SELECT :▲ ▼ KEY  
ADJUST :◀ ▶ KEY  
END :EXIT KEY

**COLOR**  
Adjust color intensity.  
**TINT**  
Adjust for natural flesh tones.  
**BRIGHTNESS**  
Adjust picture brightness.  
**PICTURE**  
Adjust picture intensity by adjusting both contrast and color level in the proper balance.  
**SHARPNESS**  
Adjust picture sharpness.

To Reset the Picture Controls,  
Press **▲/▼** to highlight "NORMAL," then press **SELECT**.

• All controls return to their factory settings.

**4** Press **EXIT** twice to exit.

### NOTE

• If HDR Main Menu, Replay Zones, Replay Guide, Channel Guide, Messages, Find Shows, or Setup screen are displayed, **ACTION** will not work.

## Setting Closed Caption

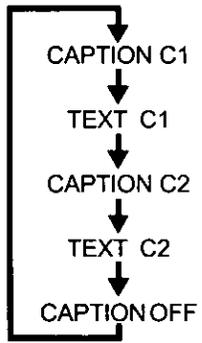
The multi-use system not only allows the hearing impaired to enjoy selected programs, but also makes useful information from TV stations available to everyone.

**1** Press **C.C.** repeatedly to select caption mode.  
• The changes are available, but the display does not appear in all the modes.

**CAPTION C1 or C2**  
A narration of selected TV programs is displayed. Check TV program listings for C.C. (Closed Caption) broadcast.

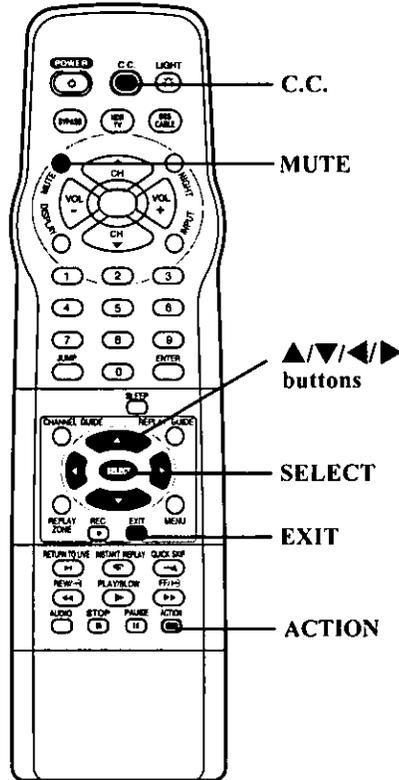
**TEXT C1 or C2**  
The lower half of the screen will be blocked out. When the TV station broadcasts information, such as program listings, it will appear in this space.

**CAPTION OFF**  
Closed Caption/ Text narration will not be displayed.



### NOTE

• The closed caption or text signal may be broadcast over C1, C2, or both. Also, text contents can vary so you may wish to try different settings.



## Caption On Mute

Closed Caption narration, if available, is displayed when MUTE is pressed for silence. If C.C. is set to OFF, CAPTION C1 will be displayed.

### Important

If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

## Adjusting Volume

1 Press VOL + or VOL - to control the volume.

To mute the sound, press MUTE.

- "CAPTION C1" will be displayed when C.C. is set to OFF. (See page 42.)
- Press MUTE again to restore the previous sound level.

### Using the Phone Jack

Connect an earphone (not supplied) or headphones (not supplied) to the PHONES jack on the front of the TV/HDR Combo.

- Lower volume in advance when you use an earphone.

## Setting NIGHT Mode

Color and picture intensity levels are adjusted so the screen is easier on your eyes during night time use.

1 Press NIGHT to dim the picture.

To cancel, press NIGHT again.

- "NIGHT OFF" appears.
- Previous settings are restored.
- NIGHT mode is cancelled when power is turned off or power failure occurs.

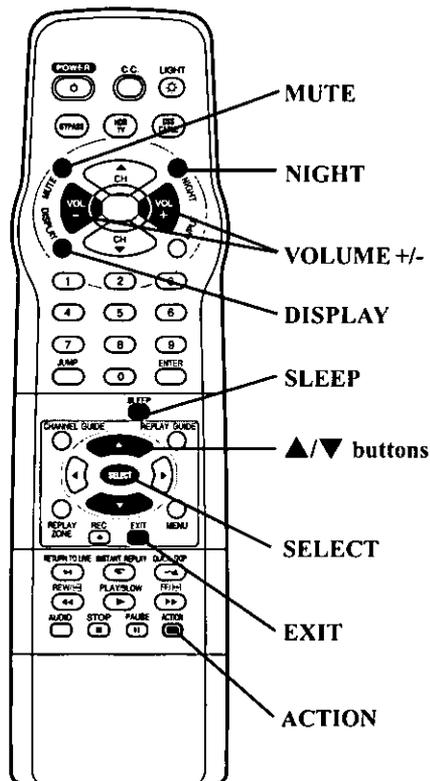
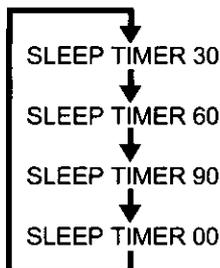
## Setting Sleep Timer

This TV/HDR Combo can be set for auto power off.

1 Press SLEEP repeatedly to set the desired Sleep Timer.

- You can press SLEEP on the TV/HDR Combo.
- Press DISPLAY with BYPASS mode to display the remaining time.

To cancel, press SLEEP repeatedly until "SLEEP TIMER 00" appears.



## Setting Speaker ON/OFF

Allows you to turn off the speaker of the TV/HDR Combo when it is connected to external audio equipment.

1 Press ACTION to display the SET UP TV screen.

```

SET UP TV
LOCK
VIDEO ADJUST
SPEAKER :ON
  
```

2 Press ▲/▼ to highlight "SPEAKER," then press SELECT to set "ON" or "OFF."

- If SPEAKER is set to OFF, MUTE and VOL +/- do not function.

```

SELECT:▲ ▼ KEY
SET :SELECT KEY
END :EXIT KEY
  
```

3 Press EXIT to exit.

### NOTES

- If HDR Main Menu, Replay Zones, Replay Guide, Channel Guide, Messages, Find Shows, or Setup screen are displayed, ACTION will not work.
- If you connect Audio Cable from TV/ HDR Combo OUT jacks to the Stereo Amplifier, set "SPEAKER: OFF."

# MTS Broadcast/ TV Stereo System

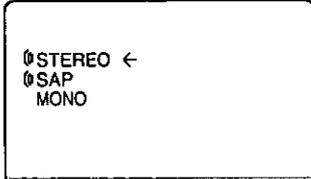
## Watching Receivable Broadcast Types

The following are possible broadcast types with their accompanying on-screen displays. The signal being received is indicated with a "Ⓢ" mark while the selected audio mode is indicated with an arrow. To change the audio mode for these broadcasts, follow the "Selecting Audio Mode for Live TV Viewing" section below.

**1** Press **AUDIO** to display the broadcast signal being received.

### MTS Stereo and SAP broadcast

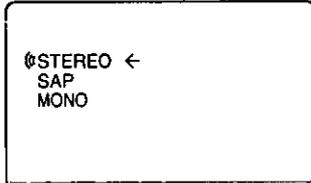
Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are both being received simultaneously. Select the STEREO or SAP audiomode.



### MTS Stereo broadcast

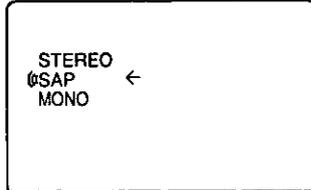
Multi-channel Television Sound Stereo broadcast. Select STEREO audiomode.

- If stereo broadcast is weak and the display flickers, select MONO audio mode for possibly better results.



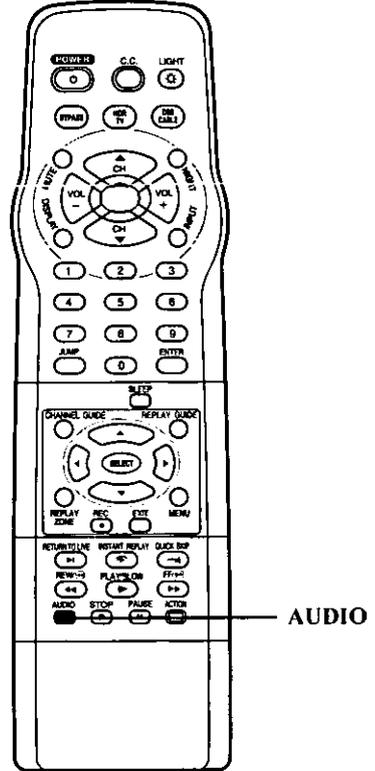
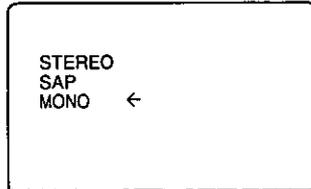
### SAP broadcast

Secondary Audio Program (sub language.) Select SAP audio mode for the sub language.



### MONO broadcast

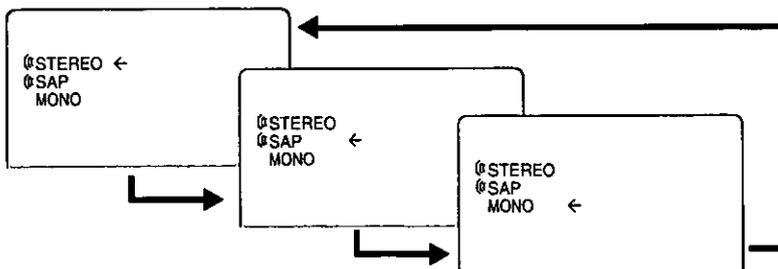
Normal monaural sound broadcast.



## Selecting Audio Mode for Live TV Viewing

**1** Press **AUDIO** to select the desired audio mode in Live TV or recording mode. (Arrow shows selection.)

- Each press **AUDIO** will change the audio mode as shown below.



### NOTE

- Playback of Replay Shows and delayed live broadcasts occurs in the same audio mode that the live show was recorded in.

# V-Chip Control

## Important

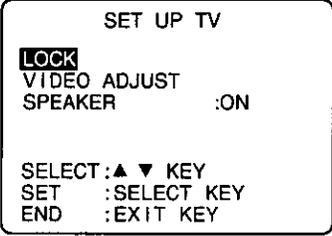
If a remote control button does not work when pressed, press **IHDR/TV** button on the remote and try the button again.

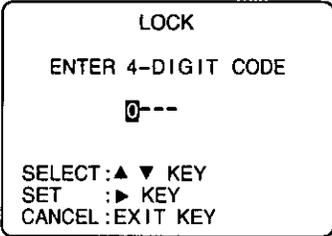
The TV/HDR Combo has a built-in V-Chip Control which allows you to block unwanted TV usage on US MOVIE and US TV PROGRAM ratings.

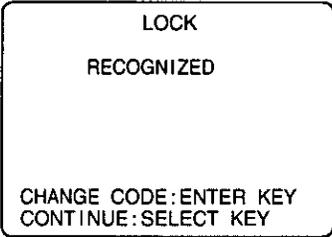
## Entering Secret Code

A 4-digit code must be entered to view a blocked program or change rating settings.

- Press **ACTION** to display the SET UP TV screen.

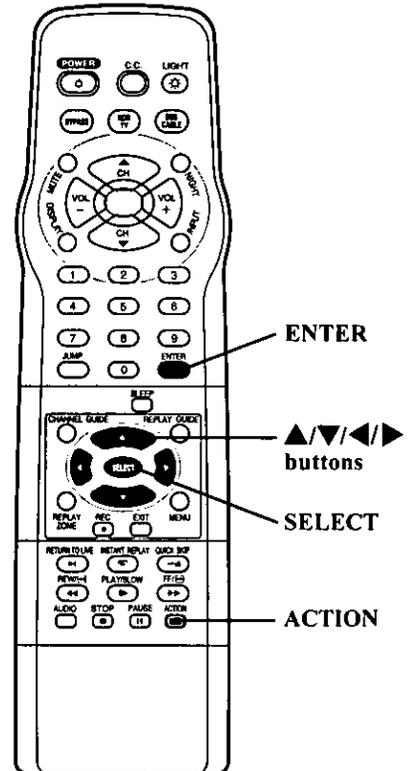

- Press ▲/▼ to highlight "LOCK," then press **SELECT** to select it.


- Press ▲/▼ to select a number, then press ▶ to set.

  - To make corrections, Press ◀▶ to move the cursor, then press ▲/▼ to make the correction.
  - Repeat this step until all 4-digits are entered.
  - Take care that you are not observed while entering the secret code.
- Press **SELECT** to save after completed.

  - The right screen appears.
- Press **SELECT** to display the rating screen.

  - If you don't need the rating settings, press **EXIT** twice to exit.



For **US MOVIE Ratings**, go to page 46.

For **US TV PROGRAM Ratings**, go to page 47.

## NOTES

- DO NOT forget your secret code.
- Once ratings are set, restricted tapes or programs cannot be accessed unless the secret code is entered.
- If HDR Main Menu, Replay Zones, Replay Guide, Channel Guide, Messages, Find Shows, or Setup screen are displayed, **ACTION** will not work.

## To Change Your Secret Code...

- You will need your current code.
- Do steps 1~4.
  - In step 5, press **ENTER** to clear the current code.
  - Repeat steps 3~5 to enter new code.

# V-Chip Control (continued)

## Setting U.S. MOVIE Ratings

Be sure you've completed "Entering Secret Code" steps on page 45.

- 1** Press ▲/▼ to highlight "US MOVIES," then press SELECT to set "ON" or "OFF."
- ON -> V-Chip Control is activated.
  - OFF -> V-Chip Control is deactivated.

```

LOCK
US MOVIES : OFF
CHANGE SETTINGS
US TV PROGRAMS : ON
CHANGE SETTINGS
SELECT : ▲ ▼ KEY
SET : SELECT KEY
CANCEL : EXIT KEY
    
```

- 2** Press ▲/▼ to highlight "CHANGE SETTINGS," then press SELECT to display the next screen.

- 3** Press ▲/▼ to highlight "VIEW NR PROGRAMS," then press SELECT to set "YES" or "NO."

```

VIEW NR PROGRAMS? : YES
UNLOCKED
G
PG
PG-13
R
NC-17
X
CONTAINS NO RATING
SELECT : ▲ ▼ SET : SELECT
END : EXIT KEY
    
```

**NR (Not Rated) PROGRAMS**  
Some movies, such as old or foreign movies, may have no ratings.

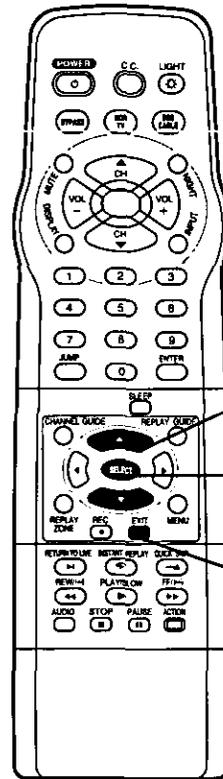
- 4** Press ▲/▼ to highlight ratings to be blocked (see below), then press SELECT to set.

```

VIEW NR PROGRAMS? : YES
G UNLOCKED
PG
PG-13
R
NC-17
X
GENERAL AUDIENCE
SELECT : ▲ ▼ SET : SELECT
END : EXIT KEY
    
```

- 5** Press EXIT to continue the next setup and go to page 47.
- If you don't need US TV PROGRAMS Rating settings, press EXIT three times to exit.

• If locked, will change to green.



### NOTE

- Some rental movies do not include V-Chip data.

### US MOVIE RATINGS

G	GENERAL AUDIENCE: All ages admitted.
PG	PARENTAL GUIDANCE: Some material may not be suitable for children.
PG-13	PARENTS CAUTIONED: Some material may be inappropriate for children under 13.
R	RESTRICTED: Children under 17 must be accompanied by a parent or adult.
NC-17	OVER AGE 17 ONLY: No one 17 and under admitted.
X	ADULT ONLY:

### Important

If a remote control button does not work when pressed, press IIDR/TV button on the remote and try the button again.

## Setting U.S. TV PROGRAM Ratings

Be sure you've completed "Entering Secret Code" steps on page 45.

**1** Repeat steps 1-3 on page 46. (In step 1, select "US TV PROGRAMS.")

```

LOCK

US MOVIES :OFF
CHANGE SETTINGS

US TV PROGRAMS :ON
CHANGE SETTINGS

SELECT:▲▼ KEY
SET :SELECT KEY
CANCEL:EXIT KEY

```

### NR (Not Rated) PROGRAMS

Some TV shows, such as news, sports, weather, bulletins, and emergency information may have no ratings.

```

VIEW NR PROGRAMS? : YES
TV-Y UNLOCKED
TV-Y7 FV

TV-G
TV-PG V S L D
TV-14 V S L D
TV-MA V S L

CONTAINS NO RATING
SELECT:▲▼ SET:SELECT
END :EXIT KEY

```

**2** Press ▲/▼ to highlight ratings to be blocked (see below), then press SELECT to set.

- You may select from standard TV ratings (chart 1), or customize to a specific content ratings (chart 2).

```

VIEW NR PROGRAMS? : YES
TV-Y UNLOCKED
TV-Y7 FV

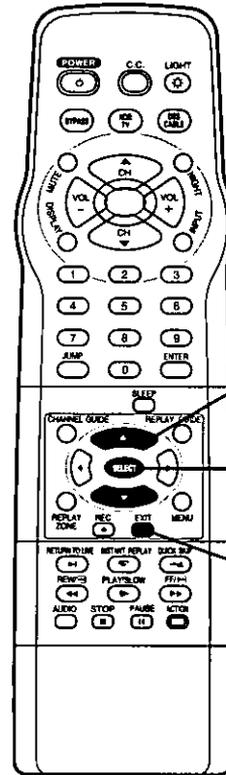
TV-G
TV-PG V S L D
TV-14 V S L D
TV-MA V S L

FOR ALL CHILDREN
SELECT:▲▼ SET:SELECT
END :EXIT KEY

```

**3** Press EXIT three times to exit.

• If locked, will change to green.



### US TV PROGRAMS RATINGS: Chart 1

TV-Y	FOR ALL CHILDREN: Content specifically geared to young viewers ages 2-6.
TV-Y7	FOR AGE AND OLDER: May contain mild physical or comedic violence which may frighten children under 7.
TV-G	GENERAL AUDIENCE: Contains little or no violence, strong language, or sexual dialogue or situations.
TV-PG	PARENTAL GUIDANCE: May contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	PARENTS CAUTIONED: May contain sophisticated themes, sexual situations, strong language, and more intense violence.
TV-MA	MATURE AUDIENCE: May contain mature themes, profane language, graphic violence, and sexual situations.

### US TV PROGRAMS RATINGS: Chart 2

FV	Fantasy Violence
V	Violence
S	Sexual Situations
L	Adult Language
D	Sexually Suggestive Dialogue

## Blocking Message

Be sure you've completed "Entering Secret Code" steps on page 45.

- If V-Chip Control is activated, and a program or movie exceeds the ratings you have set, a message will appear and sound is muted.

```

PROGRAM RATING EXCEEDED
RATING:PG-13

```

### To Continue Viewing a Blocked Program

After entering your 4 digit secret code, go to step 1 on page 46 and select "OFF" to deactivate V-Chip Control.

- The US MOVIES and US TV PROGRAMS ratings you set will be retained.

# Troubleshooting

Please note that the Panasonic Web site at [www.panasonic.com](http://www.panasonic.com) is also a great place to ask operational and troubleshooting questions. If, after reading the troubleshooting information on our Web site and in this manual, you find you still have unanswered questions, please contact Technical Support by phone at 1-888-843-9788.

Connections	Solution
When attempting to connect to the ReplayTV Service in Setup, I get one of the following error messages: "no dial tone," "modem timed out," "no response from modem," or "network connection error."	<ul style="list-style-type: none"> <li>• Confirm that there is no dial tone on the line by hooking up a phone to it and listening for the dial tone.</li> <li>• If you have call waiting, confirm that it has been disabled by entering the correct telephone prefix number in "Setup." Contact your phone company to obtain the correct dialing prefix information.</li> <li>• The TV/HDR Combo cannot connect to the ReplayTV Service if your phone line has a stutter dial tone. If you have a message service that enables a stutter dial tone when you have messages, you will need to delete/save all of your messages in order to disable the stutter dial tone.</li> <li>• Confirm that the line that you are dialing out on is an analog line.</li> <li>• Unplug the AC Power Plug from AC outlet. Wait one minute, then reattach the AC Power Plug (the TV/HDR Combo will restart itself). Once the TV/HDR Combo has restarted, press <b>POWER</b> on the TV/HDR Combo remote to exit standby mode. Proceed as instructed by the on-screen instructions.</li> </ul>
While setting up the TV/HDR Combo, I realized that the nearest phone outlet is too far away to connect to the TV/HDR Combo directly.	<ul style="list-style-type: none"> <li>• If you do not have a phone jack near the TV/HDR Combo, you can use a wireless phone jack instead. In particular, the Phonex Wireless Modem Jack (Part # PX-421) has been qualified to work with the TV/HDR Combo. It operates at speeds up to 33.6K BPS. Wireless phone jacks can be found at most electronics stores. (Panasonic offers the Phonex Wireless Modem Jack.)</li> </ul>
Currently, the only phone line near my TV/HDR Combo is being used by my DSS receiver/cable box.	<ul style="list-style-type: none"> <li>• The TV/HDR Combo ships with a telephone splitter. This will allow you to plug the TV/HDR Combo and your cable box/DSS receiver into the same phone line.</li> </ul>
Setup	Solution
When setting up my TV/HDR Combo, the correct cable company does not appear as a menu item in Setup.	<ul style="list-style-type: none"> <li>• Contact the Panasonic Technical Support department by phone at 1-888-843-9788. Please provide the following information: 1) Complex name (if applicable), 2) Community, 3) State, 4) Cable Provider Name, 5) Cable Provider contact information, and 6) Problem description. In most cases, the correct information can be added to the ReplayTV Service database within 48 hours.</li> </ul>
When entering my phone number in Setup, I am only able to enter the first 6 digits.	<ul style="list-style-type: none"> <li>• This is correct! The TV/HDR Combo only needs the first 6 digits of your phone number. The last four (4) numbers will appear as follows: XXXX</li> </ul>
Monitor	Solution
No picture and sound.	<ul style="list-style-type: none"> <li>• Make sure your antenna system is correctly set.</li> <li>• Completely insert Power Plug into an AC outlet and press <b>POWER</b>.</li> </ul>
Poor reception.	<ul style="list-style-type: none"> <li>• Check signal source, connections, and the TV/HDR Combo setup selections.</li> </ul>
Poor picture.	<ul style="list-style-type: none"> <li>• Check <b>COLOR</b> setting. (See page 42.)</li> </ul>
Channel cannot be selected.	<ul style="list-style-type: none"> <li>• Only the channel being recorded can be viewed on this TV/HDR Combo.</li> </ul>
Remote Control	Solution
The green light on the TV/HDR Combo remote does not blink when I press a button on the remote.	<ul style="list-style-type: none"> <li>• Replace the batteries in the remote control with 2 new AA batteries.</li> </ul>
The TV/HDR Combo remote control does not operate my cable box or DSS receiver, or is not performing commands properly.	<ul style="list-style-type: none"> <li>• Make sure you're pointing the TV/HDR Combo remote directly at the device, and that there is nothing blocking the path of the infrared signal between the remote and the TV/HDR Combo. If that doesn't work, try all of the codes listed for your brand of device in the "Cable/DSS Universal Remote Control" section of this guide. Many setup codes may allow for partial functionality, however, only one code will operate your device correctly. Make sure that all of the devices you are setting up can be operated with an infrared remote.</li> </ul>

**Important**  
If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

Remote Control	Solution
<p>I'm using an IR blaster to control my cable box or DSS receiver and I'm having trouble changing channels using the TV/HDR Combo remote.</p>	<ul style="list-style-type: none"> <li>• This may be dependent on how many digits you needed to enter to tune to a specific channel using the remote control for your cable box or DSS receiver, prior to hooking up the TV/HDR Combo. For example, if you needed to enter 0 - 5 to tune to channel 5, you need to "tell" the TV/HDR Combo this information during the on-screen setup. To update this information, go back to "Setup" to adjust the code for your cable box or DSS receiver.               <ol style="list-style-type: none"> <li>1. Press <b>MENU</b> on the TV/HDR Combo remote.</li> <li>2. Choose "Setup" from the Main Menu, then choose "Change Dialing &amp; Input Settings."</li> <li>3. From the Setup Summary screen, choose the input that your cable box or DSS receiver is connected to.</li> <li>4. Proceed through the steps to configure your box until you reach the screen that asks for your cable box or DSS receiver setup code.</li> <li>5. Press the <b>▼</b> button to clear the setup code:                   <ol style="list-style-type: none"> <li>A. If your TV/HDR Combo required 2 digits to tune to a one-digit channel, enter the code for your TV/HDR Combo but replace the first digit with the number 6.</li> <li>B. If your TV/HDR Combo required 3 digits to tune to a one-digit channel, enter the code for your TV/HDR Combo but replace the first digit with the number 8.</li> </ol> </li> </ol> <p>See page 16 to find your code.</p> <ol style="list-style-type: none"> <li>6. Continue through the remaining screens and complete the setup.</li> <li>7. Once you have completed setup, try changing the channels on your cable box or DSS receiver.</li> <li>8. If you are still having trouble changing channels, repeat step 5 above with the following changes:               <ul style="list-style-type: none"> <li>• If you used step 5A, replace the number 6 with the number 7.</li> <li>• If you used step 5B, replace the number 8 with the number 9.</li> </ul> </li> </ol> </li> </ul>
<p>My cable box sometimes fails to change channels when using the TV/HDR Combo remote control.</p>	<ul style="list-style-type: none"> <li>• If you are using the IR blaster, your cable box receives IR commands from both the TV/HDR Combo remote and the IR blaster. Some cable boxes can be confused by this. You can prevent your cable box from receiving the commands from the TV/HDR Combo remote control by affixing an opaque covering around the area where you have placed the IR emitter on your cable box. Don't cover the IR emitter.</li> </ul>
<p>The TV/HDR Combo does not respond when I press buttons on the remote control. Or, the image on my TV screen is "frozen."</p>	<ul style="list-style-type: none"> <li>• Press and hold <b>INPUT</b> and <b>CH ▼</b> on the front of the TV/HDR Combo for 10 seconds, then release. The TV/HDR Combo will restart in a few moments.</li> <li>• Unplug the AC Power Plug for one minute then plug it back in. The TV/HDR Combo will restart and power on in a few moments.</li> </ul>
Miscellaneous	Solution
<p>When selecting a show from the Channel Guide, I get a screen that fades to blue.</p>	<ul style="list-style-type: none"> <li>• Typically, this is caused by a weak video source. Contact Technical Support for further suggestions by phone at 1-888-843-9788. Phone support personnel answer calls between 6:00 AM and 6:00 PM (PST), Monday through Friday.</li> </ul>
<p>When viewing show content through the TV/HDR Combo, shows appear to be in black and white.</p>	<ul style="list-style-type: none"> <li>• This condition will exist if you have a composite input source going into the TV/HDR Combo on LINE 2, but the input source in Setup (on LINE 2) is set to S-Video. Go to "Changing Dialing &amp; Input Settings" on page 18 to correct the information.</li> </ul>
<p>When I select a channel in the Channel Guide, the channel number does not change on my DSS receiver or cable box.</p>	<ul style="list-style-type: none"> <li>• If you're using an IR blaster connection to control channel changing, verify that you have affixed the IR blaster directly in front of the IR detector on your cable box or DSS receiver.</li> <li>• Confirm that you have selected the correct IR code for your cable box or DSS receiver. (See page 16 for a list of codes.)</li> </ul>
<p>When I select a channel in the Channel Guide, I get a blue screen that states "no video source..."</p>	<ul style="list-style-type: none"> <li>• Confirm that you subscribe to the channel in question.</li> <li>• Verify that the A/V connections going from your cable box/DSS receiver to the TV/HDR Combo are correct.</li> <li>• Verify that all your devices are turned on.</li> </ul>
<p>When selecting a show in the Channel Guide, I get a solid blue screen.</p>	<ul style="list-style-type: none"> <li>• Confirm that you have the correct input source specified in Setup. Go to "Changing Dialing &amp; Input Settings" on page 18 to correct the information.</li> </ul>
<p>The "FAN LOCK DETECTED PLEASE REFER TO MANUAL" message appeared.</p>	<ul style="list-style-type: none"> <li>• The TV/HDR Combo is in need of repair. Contact Technical Support for further suggestions by phone at 1-888-843-9788. Phone support personnel answer calls (Monday-Friday 9am-9pm EST, Saturday-Sunday 9am-7pm EST including Holidays).</li> </ul>
<p>I can not record pictures from my video camera on my TV/HDR Combo.</p>	<ul style="list-style-type: none"> <li>• The TV/HDR Combo is not designed to record the pictures from other devices.</li> </ul>

# Frequently Asked Questions

Questions	Answers
I can't find the IR Blaster code for my cable box or satellite receiver.	Call Panasonic customer support at 1-888-843-9788 to get the latest IR Blaster codes.
The IR Blaster code listed for my cable box/DSS receiver does not work.	Try substituting a 6, 7, 8, or 9 for 0 in the first digit of the code.
The remote changes are inconsistent when changing channels.	Affix an opaque covering around the IR Blaster, covering all IR receiver area not covered by the IR Blaster.
The audio and video are not in sync with each other.	Ensure that the audio from signal source is connected to the TV/HDR Combo, rather than being connected to a separate amp/receiver.
I can't find a local telephone number to dial for my nightly connection to the ReplayTV Service.	Servers and access numbers are constantly being updated; check messages on the TV/HDR Combo frequently for updated telephone numbers.
My TV/HDR Combo is unable to connect to the ReplayTV Service.	Make sure your TV/HDR Combo is connected to a telephone wall jack. If it is necessary to use a wireless jack, insure that it is 33.6K BPS capable.
I see unexplained error codes during QuickSetup.	Unplug the AC Power Plug for one minute to reset the TV/HDR Combo, or call 1-888-843-9788 for assistance.
My channel guide listings are not correct.	Verify that you have selected the correct cable box/DSS service provider in Setup.
Can I watch live TV on one channel while recording live TV on another channel?	No, but you can record live TV while watching a previously record program.
The screen appears "frozen" in place.	Reset the TV/HDR Combo. (Refer to page 58.)
Can I save recorded programs to my VCR?	See page 37 for more information on saving recorded shows to your VCR.
How often does the TV/HDR Combo connect to ReplayTV Service.	Every night around at 3:00 am.
Can I change the nightly connection time?	No.
How can program recording time be extended to compensate for overruns, for example sporting events and award shows?	When recording this type of event we recommend that you also record the program immediately following.
The remote control does not work.	Verify if the HDR/TV button lights up when you press the button on the remote. If the remote does not light up, replace the batteries with fresh AA batteries. Reset the TV/HDR Combo if you still have problems. (Refer to page 58 for resetting.)
No channel information is listed in channel guide.	Call 1-888-843-9788 to connect to ReplayTV Service forcibly.
I changed channels using the Channel Guide, but my DSS receiver did not change channels.	Use the setup menu to verify that you are using the correct connection settings and IR Blaster codes.
The TV/HDR Combo sometimes reverts to the previous channel displayed.	If using the IR Blaster, substitute 6, 7, 8, or 9 for 0 in first digit of code being used. If using serial cable, check connections.
"No video source" is displayed.	Press <b>BYPASS</b> to place the TV/HDR Combo into <b>BYPASS</b> mode. Or check that signal source is powered on, and check connections and settings.
I can not watch pictures from my other devise (for example, VCR or DVD) on my TV/HDR Combo clearly.	Try to place the TV/HDR Combo into <b>BYPASS</b> mode. (See page 17.)

**Important**  
If a remote control button does not work when pressed, press HDR/TV button on the remote and try the button again.

Questions	Answers
How does the TV/HDR Combo get new features?	The TV/HDR Combo downloads the latest version of ReplayTV's software every night.
The TV/HDR Combo locks up on the "Please Wait" screen.	Reset the TV/HDR Combo. (Refer to page 58 for resetting.)
Is the TV/HDR Combo compatible with C-Band Satellite?	No.
When watching a recorded show, sometimes the picture breaks up.	Check the signal strength of your cable box or DSS receiver. Record fast action programs in High Quality.
The TV/HDR Combo is not dialing out.	Check telephone line connections. If using a wireless jack, insure that it is 33.6K BPS capable.
My PPV (Pay Per View) channels are not listed in the channel guide. How can I watch or record them?	You can record Pay Per View programming directly by selecting the desired INPUT and setting the signal source (cable box or DSS receiver) on the desired channel.
I want to use a wireless telephone jack. Which one should I use?	Any wireless telephone jack that supports a minimum of 33.6K BPS, should work. Wireless telephone jacks can be found electronic stores.
How do you reset the TV/HDR Combo?	Hold INPUT and CH ▼ button on the TV/HDR Combo together for ten seconds. If this does not work, remove AC Power Plug from the TV/HDR Combo for one minute.
How do you set up an "A" or "B" Cable box?	If an A/B cable switch is present in your setup, the TV/HDR Combo will not know if the switch is set to A or B. The TV/HDR Combo will record shows assuming the switch is set correctly. Make sure the switch is set to the proper side, A or B, before recording.
My zip code is not listed on the setup screen. What should I do?	Select an alternate zip code close to your area.
"Out of memory" is displayed.	Reset the TV/HDR Combo. (Refer to page 58.)
My cable or DSS service provider is not listed in setup.	Call 1-888-843-9788 for assistance.
All my recording space has been filled. How can I record more shows?	Press REPLAY GUIDE and remove unnecessary recordings. You may also want to schedule some of your guaranteed shows as non-guaranteed shows.
Is the TV/HDR Combo compatible with PAL or SECAM signals?	No.
What should I do if I forget my Secret Code for the V-Chip Lock?	Hold STOP and EXIT on the TV/HDR Combo for an approximately ten seconds until the TV monitor turns off. After the TV monitor turns off, you will be able to reset a Secret Code for the V-Chip Lock again.

**If you have a problem that has not been addressed here, please contact Technical Support at 1-888-843-9788. Phone support personnel answer calls (Monday-Friday 9am-9pm EST, Saturday-Sunday 9am-7pm EST including Holidays).**

# Software License Agreement

## Software license agreement

**IMPORTANT — READ CAREFULLY:** By pressing "PLAY" and accepting to continue with the setup process to begin using the software in your ReplayTV Product ("Product"), you agree to be bound by the terms of this Software License Agreement (this "Agreement"). If you do not agree to the terms of this Agreement, you may promptly return the Product to the point of purchase for a refund of your purchase price, or you may contact ReplayTV for instructions on where to ship the Product, at ReplayTV's cost, for a full refund of the purchase price after inspection.

- 1. License Grant; Restrictions.** Subject to the terms of this Agreement, ReplayTV, Inc. grants you a non-exclusive, non-transferable license, without the right to sublicense, to use all software included with the Product or subsequently provided to you, and related documentation (together, "Software") solely for your internal, noncommercial use and solely in connection with your use of the Product and access to the ReplayTV Service ("RTVS"). You acknowledge and agree that ReplayTV may periodically update, modify or enhance the Software remotely through the RTVS, and that any registration or other information provided by you may be used or disclosed by ReplayTV pursuant to the terms of ReplayTV's Privacy Policy, as that policy may be modified by ReplayTV from time to time. You further agree that: (a) use of the Software or the Product with any third party service competitive with the RTVS is a violation of this Agreement and is grounds for ReplayTV's termination thereof; (b) you will not attempt to modify, enhance, disassemble, decompile, reverse engineer or otherwise attempt to gain access to the source code to the Software; and (c) you will not attempt to remove or unbundle the Software from the Product. Any resale or transfer of the Product by you will be subject to the terms and conditions of this Agreement.
- 2. Ownership.** ReplayTV, Inc. and its licensors own and retain all proprietary rights, including all patent, copyright, trade secret, trademark and other intellectual property rights, in and to the Software and any corrections, bug fixes, enhancements, updates or other modifications to the Software. You acknowledge that the license granted under this Agreement does not provide you with title to or ownership of the Software, but only a right of limited use under the terms and conditions of this Agreement.
- 3. Confidential Information.** You agree that the Software contains confidential information, including trade secrets, know-how and other information, that is the exclusive property of ReplayTV, Inc. You agree to keep this information confidential and to not use or disclose this information to any third party except as authorized by this Agreement.
- 4. No Warranties.** TO THE MAXIMUM EXTENT PERMITTED BY LAW, ReplayTV, Inc. MAKES NO WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE SOFTWARE OR THE RTVS, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT OF THIRD PARTY RIGHTS AND THOSE ARISING FROM A COURSE OF DEALING OR USAGE OF TRADE. NO WARRANTY IS MADE THAT USE OF THE SOFTWARE OR THE RTVS WILL BE ERROR FREE OR UNINTERRUPTED, THAT ANY ERRORS OR DEFECTS WILL BE CORRECTED, OR THAT THE FUNCTIONALITY OF THE SOFTWARE OR THE RTVS WILL MEET YOUR REQUIREMENTS. BECAUSE SOME STATES/JURISDICTIONS DO NOT PERMIT ALL DISCLAIMERS OF WARRANTY, THESE LIMITATIONS MAY NOT APPLY TO YOU.
- 5. Limitation of Liability.** THE ENTIRE RISK ARISING OUT OF THE USE OR PERFORMANCE OF THE SOFTWARE AND THE PRODUCT REMAINS WITH YOU. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ReplayTV, Inc. AND ITS SUPPLIERS OR LICENSORS WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL, PUNITIVE, OR OTHER DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF PROFITS, BUSINESS INTERRUPTION, LOSS OF INFORMATION OR DATA, OR OTHER PECUNIARY LOSS) ARISING OUT OF THIS AGREEMENT OR THE USE OF OR INABILITY TO USE THE SOFTWARE OR THE RTVS, EVEN IF ReplayTV, Inc. OR ITS SUPPLIERS OR LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. BECAUSE SOME STATES/JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.
- 6. Termination.** This Agreement and the licenses granted hereunder shall terminate automatically if you fail to comply with the limitations described in this Agreement. No notice will be required from ReplayTV, Inc. to effectuate such termination. On termination of this Agreement, you must destroy all copies of the Software and accompanying documentation. Sections The obligations of ReplayTV, Inc. and You in Sections 2, 3, 4, 5, 6, 7 and 8 shall survive termination of this Agreement. Nothing in this Section 6 shall limit any other remedies that ReplayTV, Inc. may have for your breach of this Agreement.
- 7. Export Controls; Government Restricted Rights.** You acknowledge and agree that none of the Software or underlying information or technology may be downloaded or otherwise exported or re-exported (i) into (or to a national or resident of) Angola, Cuba, Iran, Iraq, Libya, North Korea, Sudan, Syria, or any other country to which the U.S. has embargoed goods; or anyone on the U.S. Treasury Department's list of Specially Designated Nationals or the U.S. Commerce Department's Table of Denial Orders. By using the Software, you represent and warrant that you are not a national or resident of any such country or on any such list. The Software is a commercial product, developed at private expense, and provided with restricted rights. Use, reproduction, release, modification or disclosure of the Software, or any part thereof, including technical data, by the Government is restricted in accordance with Federal Acquisition Regulation ("FAR") 12.212 for civilian agencies and Defense Federal Acquisition Regulation Supplement ("DFARS") 227.7202 for military agencies.
- 8. Miscellaneous.** This Agreement shall in all respects be governed by the laws of the State of California without reference to its principles of conflicts of laws. The United Nations Convention on Contracts for the International Sales of Goods shall not apply to this Agreement. You hereby agree that all disputes arising out of this Agreement shall be subject to the exclusive jurisdiction of and venue in the federal and state courts covering Santa Clara County, California, and you hereby consent to the personal and exclusive jurisdiction and venue of these courts.

If any of the provisions of this Agreement are held to be invalid under any applicable statute or rule of law, they are, to that extent, deemed omitted. The waiver of any breach or default, or any delay in exercising any rights shall not constitute a waiver of any subsequent breach or default. This Agreement constitutes the complete and exclusive agreement between you and ReplayTV, Inc. with respect to the subject matter hereof, and supersedes all prior oral or written understandings, communications or agreements. This agreement may not be modified except in writing duly signed by an authorized representative of ReplayTV, Inc.

# Limited Warranty

Panasonic Consumer Electronics Company,  
Division of Matsushita Electric Corporation of America,  
One Panasonic Way  
Secaucus, New Jersey 07094

Panasonic Sales Company,  
Division of Matsushita Electric of Puerto Rico, Inc.  
AVE. 65 de Infanteria, Km. 9.5 San Gabriel  
Industrial Park Carolina, Puerto Rico 00985

## PANASONIC Video Products Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

PRODUCT	PARTS	LABOR	SERVICE	CONTACT NUMBER
CAMCORDER	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS  NINETY (90) DAYS	Carry-In or Mail In	1-800-211-PANA(7262)
VCR	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail In	1-800-211-PANA(7262)
AV MIXER	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail In	1-800-211-PANA(7262)
TV-VCR Combination	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS	Carry-In: 21" CRT and Smaller  In-home or carry-in: 22" CRT and Larger	1-800-211-PANA(7262)
TV-HDR Combination	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS	Carry-In: 21" CRT and Smaller  In-home or carry-in: 22" CRT and Larger	1-888-843-9788

Batteries (if included) - New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days. Non-rechargeable batteries are not warranted.

Tape (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days.

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free contact number listed above, to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is required before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

### LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO RECORDING MEDIA) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

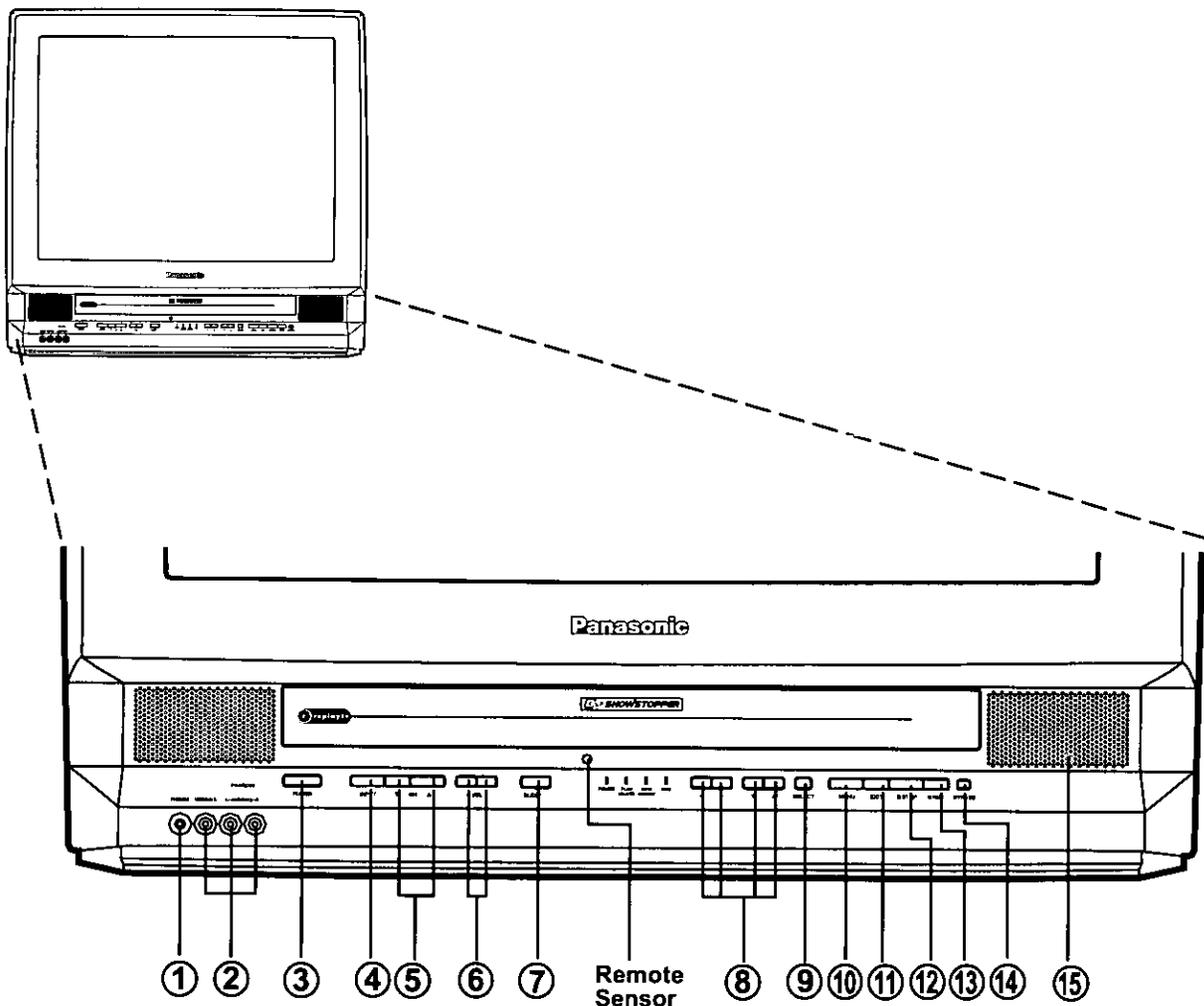
If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Department at the Panasonic Consumer Electronics Company address above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER.

warvid 8/8/2000

# Location of Controls

## Front View of the TV/HDR Combo



**① PHONES Jack**  
Connect an earphone or headphones. (both not supplied)

**② INPUT LINE 3**  
Audio (L/R)/ Video input connector.

**③ POWER**  
Turns on or off the currently selected device.

**④ INPUT**  
Switch the input of the chosen device.

**⑤ CHANNEL ▲/▼**  
Selects the next higher or lower channel.

**⑥ VOLUME +/-**  
Raises or lowers the sound volume.

**⑦ SLEEP**  
Turns off the TV/HDR Combo automatically.

**⑧ SELECT ▲/▼/◀/▶**  
Control navigation (move the yellow highlight bar) around on-screen menus.

**⑨ SELECT**  
Use to choose options from a menu or guide.

**⑩ MENU**  
Displays the main menu.

**⑪ EXIT**  
Exit a selected on-screen menu or guide.

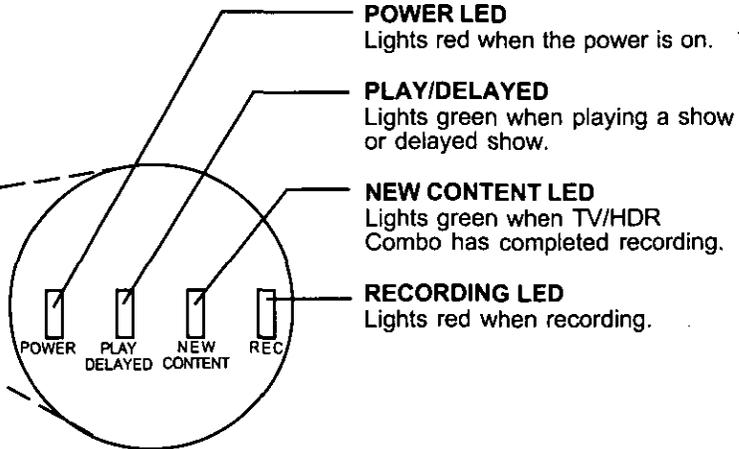
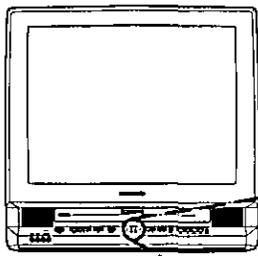
**⑫ STOP**  
Stops Recording or Playback.

**⑬ RECORD**  
Records Live show.

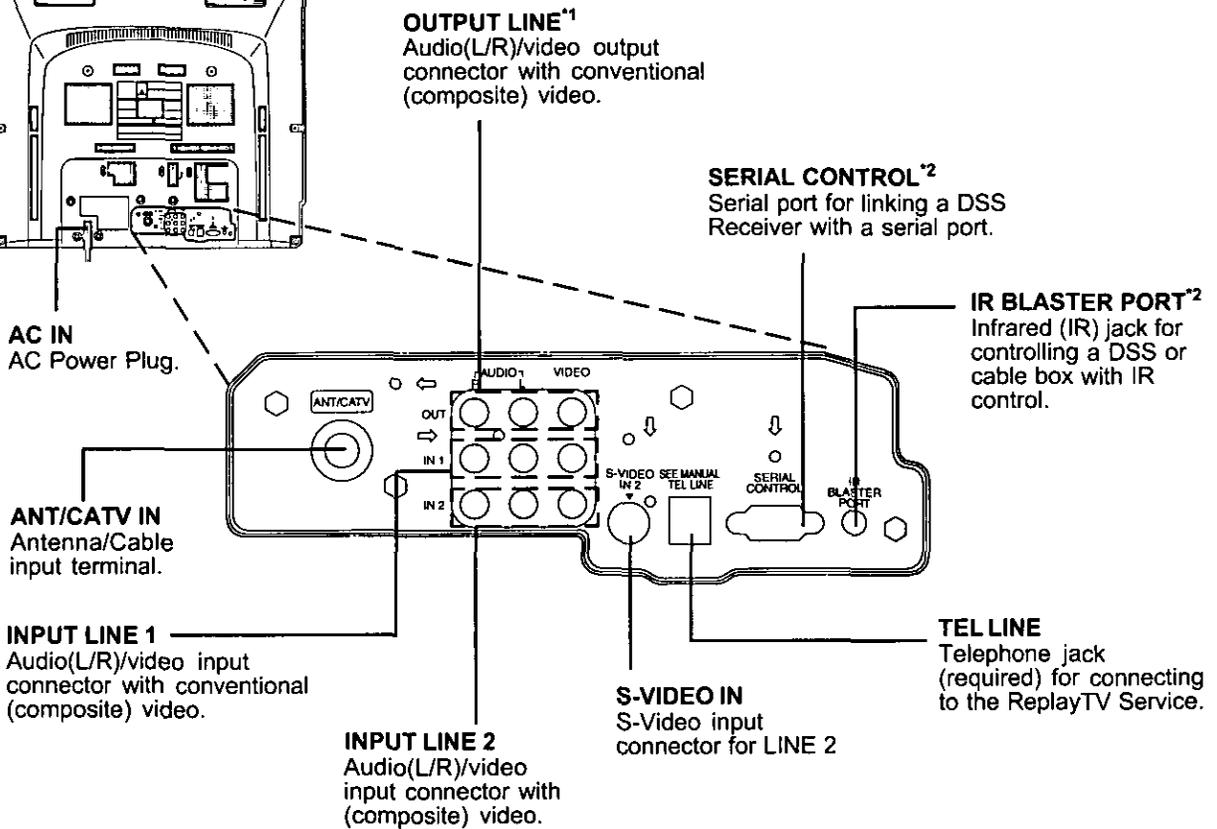
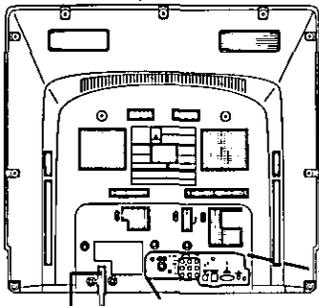
**⑭ BYPASS**  
View the copy protected or weak signal. And, watch Playback from other device.

**⑮ Built-In Speaker X2**  
Output the sound.

## Indicators on the Front Panel



## Rear View of the TV/HDR Combo



\*1 This connector is only for saving a recorded program to a videotape.

If you connect Audio cable from this connector to the Stereo Amplifier, change the "SPEAKER" setting to "OFF." (See page 43.)

\*2 Serial and IR controls are used only with DSS receiver equipment and cable boxes. Serial control can be used only with a DSS receiver that has a serial port.

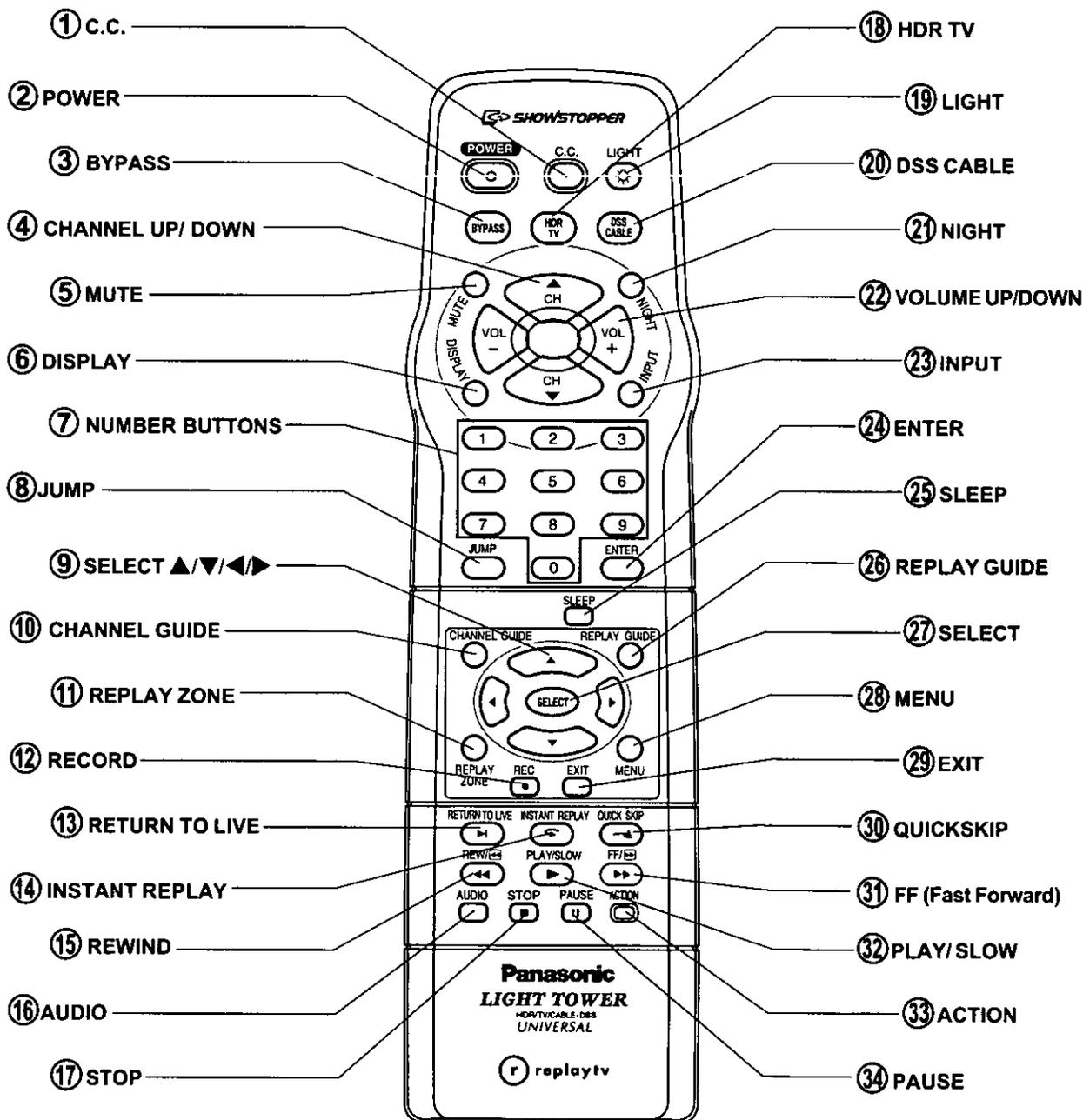
# Location of Controls (continued)

## Remote Control Buttons

### Light Tower™ Illuminated Remote Control

#### LIGHT button:

When the LIGHT button is pressed, the buttons which can be activated in the selected mode will light and the selected mode button (HDR TV or DSS CABLE) will flash for 5 seconds. If no buttons are pressed within 5 seconds, the light will turn off in order to conserve battery power. Also, while holding down the buttons, the selected mode button will flash so you will be able to see, in the dark, which mode has been selected.



- ① **C.C. (Close Caption)**  
Displays Closed Caption narration of the selected program.
- ② **POWER**  
Turns on or off the currently selected device (TV/HDR Combo, cable box, or DSS receiver).
- ③ **BYPASS**  
Enable you to watch the copy protected or weak signal. And, watch Playback from other device.
- ④ **CHANNEL Up/Down**  
Enable you to select the next higher (or lower) channel.
- ⑤ **MUTE**  
Turns sound on or off.
- ⑥ **DISPLAY**  
Activates the on-screen display function for each of your devices.
- ⑦ **Number buttons**  
Use the keypad (0-9) to directly select channels.
- ⑧ **JUMP**  
Allowing you to quickly jump back to the channel you were watching previously.
- ⑨ **Select Up/ Down/ Left/ Right**  
Control navigation (move the yellow highlight bar) around on-screen menus.
- ⑩ **CHANNEL GUIDE**  
Displays the Channel Guide, an on-screen guide of all the channels you receive.
- ⑪ **REPLAY ZONE**  
Takes you to the screen where you can create a Theme-based Replay channel and channels from topical television categories collected by the ReplayTV Service.
- ⑫ **REC**  
Records live show.
- ⑬ **RETURN TO LIVE**  
Return to live television after delayed show.
- ⑭ **INSTANT REPLAY**  
Skips back 7 seconds in a live or recorded show.
- ⑮ **REW**  
Rewinds live or recorded show.
- ⑯ **AUDIO**  
Select the audio mode for the currently receiving show.
- ⑰ **STOP**  
Stops recording or playback.
- ⑱ **HDR TV**  
Puts the remote control in the TV/HDR mode, giving you control of the TV/HDR features and functions.
- ⑲ **LIGHT**  
The buttons which can be activated in the selected mode will light and the selected mode button (HDR TV or DSS CABLE) will flash for 5 seconds.
- ⑳ **DSS/CABLE**  
Puts the remote control in a particular mode—to operate your DSS receiver or cable box. If a device does not respond when you press a remote control button (or responds incorrectly), press the HDR TV or DSS CABLE button first to choose which device to operate.
- ㉑ **NIGHT**  
Color and picture intensity levels are adjusted during night time.
- ㉒ **VOLUME Up/Down**  
Raises or lowers the sound volume on your television.
- ㉓ **INPUT**  
Press INPUT to switch the input of the chosen device. If you have more than one device connected to your TV/HDR Combo, you may have to scroll through several inputs to find the one that corresponds to the device you want to see on the screen.
- ㉔ **ENTER**  
Use the ENTER button on the TV/HDR Combo remote control after entering the appropriate channel number. If you press the ENTER button after selecting a show from the Channel Guide, it displays the popup menu.
- ㉕ **SLEEP**  
Turns off the TV/HDR Combo automatically. You can set 30 min., 60 min., or 90 min.
- ㉖ **REPLAY GUIDE**  
Displays the Replay Guide, a menu of the shows that has recorded for you.
- ㉗ **SELECT**  
Use to choose options from a selected menu or guide.
- ㉘ **MENU**  
Displays the main menu.
- ㉙ **EXIT**  
Exit a selected device's on-screen menu or guide.
- ㉚ **QUICKSKIP**  
Skips forward 30 seconds in a recorded show, allowing you to jump ahead through unwanted parts of the show. Also works for a live broadcast if you have used the STOP, PAUSE, or REW buttons.
- ㉛ **FF**  
Fast-forwarding the recorded or delayed show.
- ㉜ **PLAY/SLOW**  
Begins Playback after using PAUSE, REW, FF, or STOP. And, begins Slow playback in Playback mode.
- ㉝ **ACTION**  
Displays the SET UP TV menu.
- ㉞ **PAUSE**  
Becomes Pause mode after using REW, FF, or PLAY.

# Specifications and Resetting

## Specifications

### Display

Picture Tube 27 inch measured diagonally  
100° deflection Picture Tube

### General

Operating voltage 120VAC 60Hz  
Power Consumption 153 W (Power On)  
16 W (Power Off)  
Television System EIA Standard NTSC color  
Speaker 2 pieces  
Operating Temperature 5°C ~ 35°C (41°F ~ 95°F)  
Operating Humidity 10% ~ 75%

### Tuner

Broadcast Channels VHF 2~13, UHF 14~69  
CABLE Channels Midband A through I (14~22)  
Superband J through W (23~36)  
Hyperband AA~EEE (37~64)  
Lowband A-5~A-1 (95~99)  
Special CABLE channel 5A (01)  
Ultraband 65~94, 100~125

### Input Connectors

Tuner Type F  
Audio/Video Rear 2, Front 1  
S-Video Rear 1

### Output Connectors

Audio/Video Rear 1  
Telephone RJ-11, 2wire  
Serial Control DB-9  
IR Blaster Rear 1  
Phones Front 1

### Dimensions/Weight

Height 653 mm  
Width 688 mm  
Depth 550 mm  
Weight (net) 40.5 kg

### Record

HDD Capacity 30.4GB  
Video compression format MPEG2  
Audio compression format MPEG1 layer2  
Recording level Extended/Medium/High  
Recording time 30H/15H/10H\*

### MODEM

Speed 56kbps

## Resetting TV/HDR Combo

If the TV/HDR Combo does not respond when you press the buttons on the remote, press and hold **INPUT** and **CH▼** on the front of the TV/HDR Combo for 10 seconds, then release. The TV/HDR Combo will restart in a few moments.

\* Actual available recording time is not maximum because the "Welcome Video" is already recorded in the Replay Guide. To make the most of the available recording time, delete the welcome video from the Replay Guide or save it to a videotape. (For saving, see page 31.)

# Index

<b>A</b>		
Audio Mode for Live TV Viewing .....	44	
<b>B</b>		
Blocking Message .....	47	
Broadcast Types .....	44	
BYPASS mode .....	17, 23	
<b>C</b>		
Cable Box Universal Remote Control Setup .....	40	
Cancelling a Recording .....	26	
Caption On Mute .....	42	
Channel Guide Screen .....	24	
Closed Caption .....	42	
Code Numbers for Setup .....	16	
Code Numbers for Universal Remote Control .....	41	
Connections		
Cable Box .....	8	
DSS Receiver .....	8	
Cable Box and DSS Receiver .....	9, 10	
Cable Box and AV Receiver .....	10	
DSS Receiver and AV Receiver .....	10	
Cable Box, DSS Receiver and VCR .....	11	
Cable Box, DSS Receiver, AV Receiver and VCR ..	11	
Connections, Telephone Line .....	12	
Connections, Serial Cable or IR Blaster .....	12	
VCR/Video Game/Camcorder/Digital Still Camera ..	17	
Copy Protected Programming Viewing .....	23	
<b>D</b>		
Delete a Show .....	39	
DSS Receiver Universal Remote Control Setup .....	40	
<b>F</b>		
Fast Forward .....	21	
Finding All Episodes of a Show .....	32	
Finding Matching Shows .....	32	
Finding Shows .....	30	
Frame Advance .....	22	
Frequently Asked Questions .....	50, 51	
<b>G</b>		
Guaranteed and Non-guaranteed Recording .....	38	
<b>I</b>		
Important Safeguards and Precautions .....	2	
Indicators on Front Panel .....	55	
Input Mode .....	17	
Instant Replay .....	20	
<b>L</b>		
Light Tower™ Illuminated Remote Control .....	56	
Live Television Viewing .....	20	
Loading the Batteries .....	7	
<b>M</b>		
Main Menu .....	19	
MTS Broadcast/ TV Stereo System .....	44	
MUTE .....	43	
<b>N</b>		
NIGHT Mode .....	43	
<b>O</b>		
On-Screen Keyboard .....	31	
On-Screen Setup .....	14-16	
<b>P</b>		
Package Contents .....	7	
Pause .....	21	
Phone Jack Using .....	43	
Picture Adjusting .....	42	
Preserving a Show .....	36	
<b>Q</b>		
QuickSkip .....	23	
<b>R</b>		
Recording Shows .....	25-33	
Currently Airing Show Recording .....	25	
Multiple Episodes Recording .....	26	
Show Categories Recording .....	28	
Single Upcoming Show Recording .....	25	
Theme Based Recording .....	29	
Recording Space Managing .....	38	
Record Options .....	27	
Remote Control Buttons .....	56, 57	
Replay Channels .....	34	
Replay Channel Seeing .....	35	
Replay Guide Screen .....	34	
Resetting the TV/HDR Combo .....	58	
Rewind .....	21	
<b>S</b>		
Saving Shows to Videotape .....	37	
Secret Code .....	45	
Service Center List .....	Back Cover	
SET UP TV menu .....	19, 42, 43, 44	
Show-based Replay Channel .....	33	
Show Selecting .....	24	
Sleep Timer .....	43	
Slow Motion .....	22	
Software License Agreement .....	52	
Specifications .....	58	
Speaker ON/OFF .....	43	
<b>T</b>		
Theme-based Replay Channels .....	33	
Troubleshooting .....	48, 49	
<b>U</b>		
Unit, Front/ Rear View .....	54, 55	
Universal Remote Control .....	40	
US MOVIE/ TV PROGRAM Ratings .....	46, 47	
<b>V</b>		
V-Chip Control .....	45, 46, 47	
Volume Adjusting .....	43	
<b>W</b>		
Warranty .....	53	
Watching a Show .....	36	
Watching Playback from Other Devices .....	17	
Weak Signal Viewing .....	23	
Welcome Video .....	18	

# Service Center List

## PRODUCT INFORMATION-OPERATION ASSISTANCED-LITERATURE REQUEST-DEALER LOCATIONS

For all Customer Service Inquires please call: **1-888-843-9788**

Monday – Friday 9am-9pm EST, Saturday-Sunday 9am-7pm EST (including Holidays).

## PANASONIC WEB SITE

<http://www.panasonic.com/video>

You can purchase parts and accessories by visiting our Web Site

## PRODUCT SUPPORT – PRODUCT REPAIR

Should you require assistance with installation, operating information, or service for your TV-HDR Combo, Please contact the Panasonic Customer Call Center at:

**1-888-843-9788**

Monday – Friday 9am-9pm EST, Saturday-Sunday 9am-7pm EST (including Holidays).

## PRODUCT SUPPORT – ACCESSORIES

For Accessory Purchases (Customer Orders Only) Please Call:

**1-800-332-5368**

Panasonic Service Company 20421 84<sup>th</sup> Avenue South, Kent, WA 98032

Monday – Friday 6am – 5pm PST, Saturday 6am – 10:30am PST

## FACTORY SERVICENTERS LOCATIONS

### CALIFORNIA

6550 Katella Avenue  
Cypress, CA 90630

800 Dubuque Avenue  
S. San Francisco,  
CA 94080

20201 Sherman Way  
Suite 102  
Canoga Park, CA 91306

3878 Ruffin Road  
Suite A  
San Diego, CA 92123

### COLORADO

1640 South Abilene  
Street Suite D  
Aurora, CO 80012

### FLORIDA

3700 North 29th Avenue  
Suite 102  
Hollywood, FL 33020

### GEORGIA

8655 Roswell Road  
Suite 100  
Atlanta, GA 30350

### ILLINOIS

9060 Golf Road  
Niles, IL 60714

1703 North Randall  
Road Elgin, IL 60123  
(Pick-up / Drop-off only)

### MARYLAND

62 Mountain Road  
Glen Burnie, MD 21061

### MASSACHUSETTS

60 Glacier Drive  
Suite G  
Westwood, MA 02090

### MICHIGAN

37048 Van Dyke  
Avenue  
Sterling Heights,  
MI 48312

### MINNESOTA

7850-12th Avenue South  
Airport Business Center  
Bloomington, MN 55425

### OHIO

2236 Waycross Road  
Civic Center Plaza  
Forest Park, OH 45240

### PENNSYLVANIA

2221 Cabot Blvd  
West Suite B  
Langhorne, PA 19047

### TEXAS

13615 Welch Road  
Suite 101  
Farmers Branch,  
TX 75244

### WASHINGTON

20425-84th Avenue  
South Kent, WA 98032

### HAWAII

99-859 Iwaiwa Street  
Aiea, Hawaii 96701  
Phone (808) 488-1996  
Fax (808) 486-4369

## Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:

Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Phone (787)750-4300 Fax (787)768-2910

As of May 2000

Panasonic Consumer Electronics Company,  
Division of Matsushita Electric Corporation of America  
One Panasonic Way Secaucus,  
New Jersey 07094

Printed in U.S.A.  
LSQT0288A

