

MODEL L75-A94

 MITSUBISHI ELECTRIC

**LASERVUE**<sup>®</sup>  
TRUE DIMENSION EXPERIENCE

Basic Owner's Guide





The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**MAINS DISCONNECTION:** The mains plug is used as the disconnect device. The mains plug shall remain readily operable.

**WARNING:** This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

**TV WEIGHT:** This TV is heavy. Exercise extreme care when lifting or moving it. Lift or move the TV with a minimum of two adults. To prevent damage to the TV, avoid jarring or moving it while it is turned on. Always power off your TV, unplug the power cord, and disconnect all cables before moving it.

#### Stand Requirement

Mitsubishi does not design, manufacture or sell matching bases for the L75-A94 model television. When selecting a stand, base, or other furniture to support the TV, please make sure it is designed with the appropriate dimensions for stability and to support the TV's weight plus the weight of any additional equipment you plan to store.

**Custom cabinet installation must allow for proper air circulation around the television.**

**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 THE 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.

#### Children and TV Viewing

The American Academy of Pediatrics discourages television viewing for children younger than two years of age.

## FCC Declaration of Conformity

Product: Projection Television Receiver  
 Models: L75-A94  
 Responsible Party: Mitsubishi Electric Visual Solutions America, Inc.  
 9351 Jeronimo Road  
 Irvine, CA 92618-1904  
 Telephone: 1 (800) 332-2119

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**Note:** 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 the 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.

**Changes or modifications not expressly approved by Mitsubishi could cause harmful interference and would void the user's authority to operate this equipment.**

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

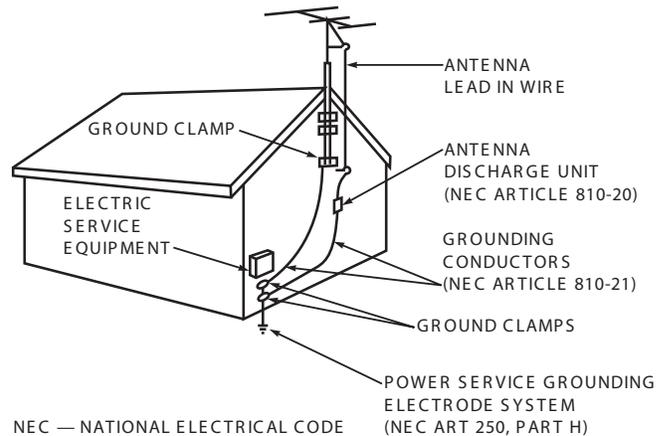
# Important Safety Instructions

Please read the following safeguards for your TV and retain for future reference. Always follow all warnings and instructions marked on the television.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



EXAMPLE OF ANTENNA GROUNDING



## Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

## Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

## ENERGY STAR®

This is an ENERGY STAR® qualified TV. Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.

This TV uses power within ENERGY STAR guidelines unless:

- Picture Mode is set to **Brilliant** or **Super Brilliant** (**Picture > Video** menu)
- Ambient Light Sensor is set to **Off** (**Setup > Energy** menu)

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## TV Software

- Do not attempt to update the software of this TV with software or USB drives not provided by or authorized by Mitsubishi Electric Visual Solutions America, Inc. Non-authorized software may damage the TV and will not be covered by the warranty.
- Automatic software updates will be downloaded over the internet to the TV if StreamTV is set up and connected to the internet.

**Note:** Features and specifications described in this owner's guide are subject to change without notice.

# Cleaning Recommendations

Normally, light dusting with a dry, non-scratching duster will keep your TV clean. If cleaning beyond this is needed, please use the following guidelines:

First, turn off the TV and unplug the power cord from the power outlet.

Occasionally clean dust build-up from the air-intake grilles on the back and sides of the TV. Clean using a vacuum cleaner with a brush attachment.

## Top and Sides of the TV

- Gently wipe down your TV with a soft, non-abrasive cloth such as cotton flannel, microfiber, or a clean cloth diaper, lightly moistened with water. Dry with a second dry, soft, non-abrasive cloth.



- For oily dirt, add a few drops of mild liquid detergent, such as dishwashing detergent, to the water used to moisten the cloth. Rinse with a second cloth moistened only with water. Dry with a third dry, soft, non-abrasive cloth.

## Screen

- Follow the instructions for the top and sides, wiping gently in an up and down motion.
- Clean the entire screen evenly, not just sections of the screen.
- Do not allow liquid to drip down the screen, as some liquid may enter the TV through the gap between the screen and screen frame.
- You may purchase Mitsubishi Screen Cleaner, part number CLEANER-VSS, by calling 1 (800) 553-7278.

## General Cleaning Precautions

- DO NOT allow liquid to enter the TV through the ventilation slots or any crevice.
- DO NOT use any strong or abrasive cleaners, as these can scratch the surfaces.
- DO NOT use any cleaners containing ammonia, bleach, alcohol, benzene, or thinners, as these can dull the surfaces.
- DO NOT spray liquids or cleaners directly on the TV's surfaces.
- DO NOT scrub or rub the TV harshly. Wipe it gently.

# Laser Safety

## Laser Safety

- This TV is in compliance with the requirements of IEC 60825-1 Ed. 2(2007).
- This TV is a CLASS 1 laser product. This TV poses no risk to eyes or skin during normal use. An exposure hazard may exist only if the protective housing is removed.
- This TV contains a CLASS 4 laser device, which by itself may be hazardous. However, this TV incorporates a protective housing, optics and electronics such that there should be no exposure to unsafe levels of laser light during normal operation and proper service.
- Do not open this product. No consumer controls are inside. Only a trained LASERVUE® technician should service this TV. Please call Mitsubishi for assistance at 1 (877) 675-2224.

## Safe Operation

- Always inspect the TV for damage after moving it. If the cabinet or screen is physically damaged, DO NOT connect the TV to an AC outlet. Call 1 (877) 675-2224 for assistance.  
DO NOT power on the TV until it has been repaired by qualified service personnel authorized by Mitsubishi. See “Service and Customer Support” page 29.
- **Caution.** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Use external or remote controls to operate the product. Connection to signal sources and power are accomplished through the external connectors.

## Damage and Repair

- There are no user serviceable components in this TV. Do not attempt to disassemble any part of the TV.
- If damaged, the device must not be powered on or used until it is repaired by qualified service personnel authorized by Mitsubishi. See “Service and Customer Support” page 29.
- Under no circumstances shall attempts be made to operate this device without the screen in place or if any portion of the enclosure, including the screen, is cracked, broken, a liquid is spilled onto the TV or is otherwise damaged.



*This label is located on the right lower back of the television set.*



*This class-4 label and similar service warning labels are located inside the back cover of the television in an area that should not be accessed by the user under any circumstances.*

*An additional class-4 label is located at the lower front access panel under the front decorative bezel.*



*This class-4 label is located at the center back of the TV under the outer cover.*

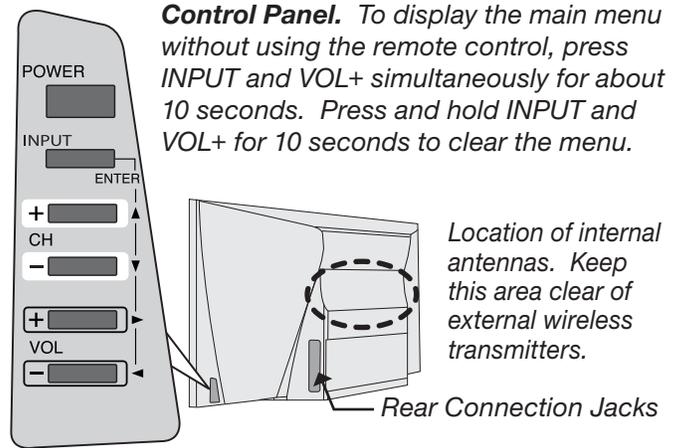
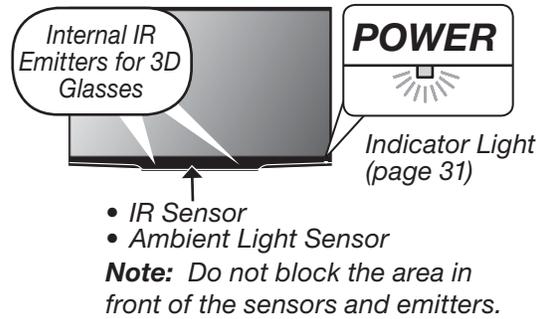
# 1 Basic Setup and Operation

## Package Contents

Please take a moment to review the following list of items to ensure that you have received everything.

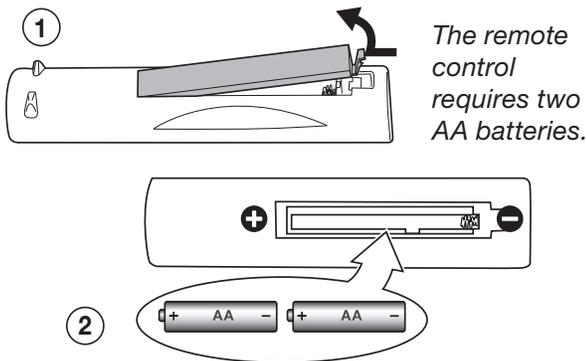


## TV Overview



## Installing the Remote Control Batteries

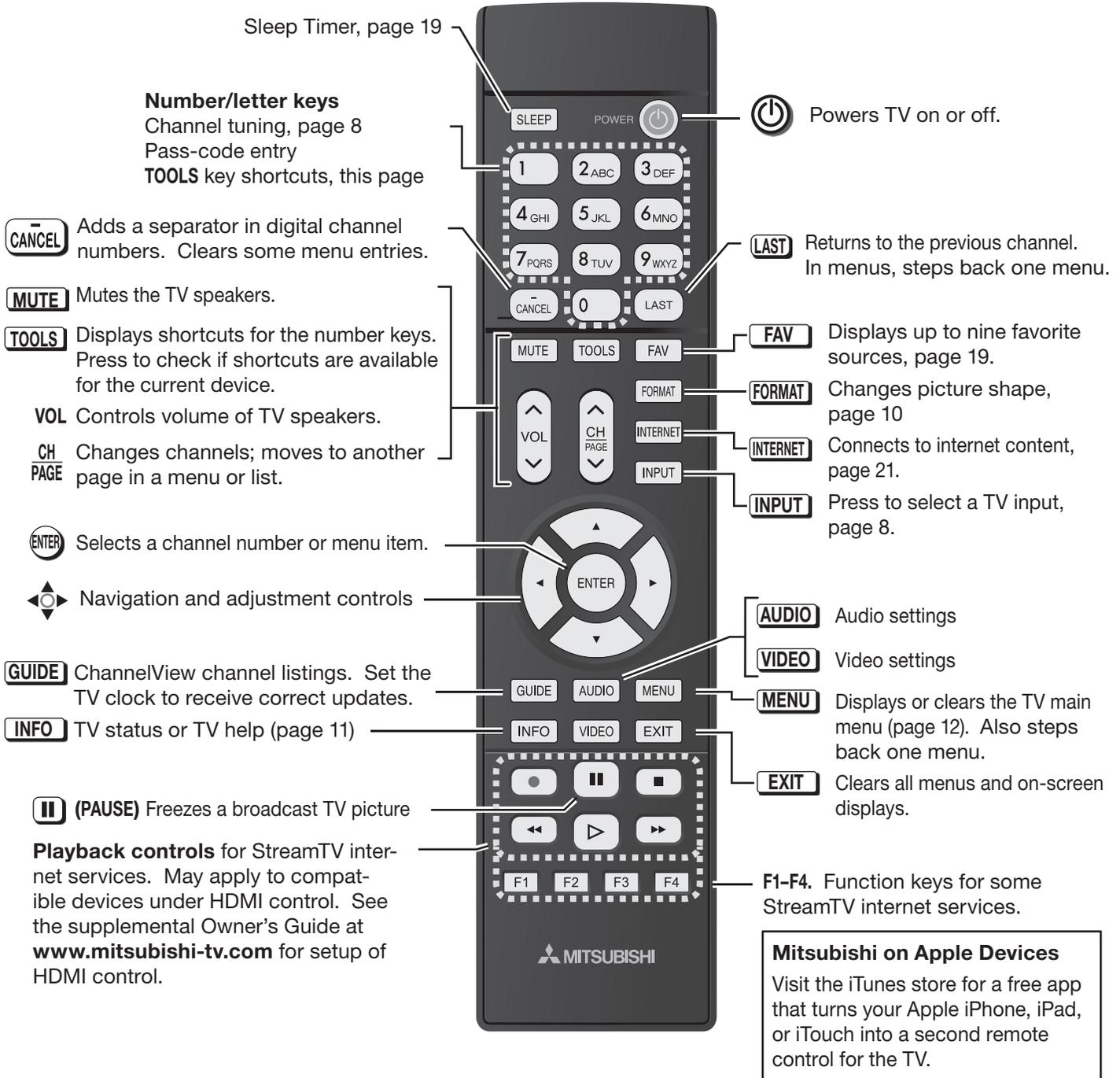
1. Remove the remote control's back cover by gently pressing in the tab and lifting off the cover.
2. Load the batteries, making sure the polarities (+) and (-) are correct. For best results, insert the negative (-) end first.
3. Snap the cover back in place.



## Before You Begin

1. Review the important safety, installation, and operating information at the beginning of this book.
2. Choose a location for your TV.
  - See the stand requirements on page 1.
  - Allow at least four inches of space on all sides of the TV to help prevent overheating. Overheating may cause premature failure of the TV.
  - Avoid locations where light may reflect off the screen.
3. Install the batteries in the remote control.
4. Plug the TV into an AC power outlet.

## Remote Control



### The TOOLS Key and Menu

Press the **TOOLS** key to see the **Tools** menu. Press number keys to activate shortcuts. Your **Tools** menu may differ from the sample, depending on your setup.

- Shortcuts specific to the current device are in the third column.
- Shortcuts may be available for a CEC-enabled device. See the supplemental Owner's Guide at [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com).

#### Picture shortcuts

#### Sound shortcuts

PICTURE	SOUND	TV
1 Bright	2	3 CC
4 Natural	5 Surround	6
7	8 Stereo	9

#### Device-Specific Shortcuts

Availability varies, depending on equipment features and setup.

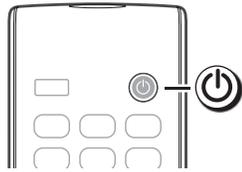
**3 CC.** Turns closed captions on/off (**ANT** input only)

*Sample Tools menu*

## First-Time Power-On

1. Install batteries in the remote control. See page 5.

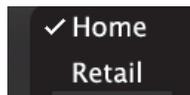
2. Aim the emitter (bulb) end of the remote control at the TV and press the **POWER** key . Wait for the **Welcome** screen.



3. If you wish to change the menu language to **Español**, press **▼** and press **ENTER**.



4. Press **▶** to move to the energy-mode selections. Select **Home**.



5. Press **▶** to highlight **EXIT**. Press **ENTER** to clear the menu.



### Welcome Screen Energy Options

- Mitsubishi recommends the **Home** setting, which uses power within ENERGY STAR<sup>®</sup> guidelines.
- The **Retail** setting looks best under the bright lighting often found in commercial settings. In this mode, the TV uses power in excess of ENERGY STAR guidelines.

This table compares energy choices offered in the **Welcome** screen.

	Home	Retail
<b>Picture Mode</b>	<b>Bright</b>	<b>Super Brilliant</b>
<b>Ambient Light Sensor Sensitivity</b>	<b>Maximum</b>	<b>Off</b>

Use the **Picture > Video** menu to change the Picture Mode. Use the **Setup > Energy** menu to control sensitivity of the Ambient Light Sensor.

## Setting Up and Using TV Inputs

### The ANT (Antenna) Input

If using an antenna or direct cable service (no cable box), connect the incoming coaxial cable to the TV's **ANT** input. Refer to page 16.

**You must perform a channel scan to enable reception of digital channels. If you skip this step, the TV can receive only analog channels.** The channel scan will search for high-definition and standard-definition channels available in your area. **Note:** Direct cable service will not include scrambled or premium channels.

### Memorizing Channels with Channel Scan

- Power on the TV.
- Press **MENU** and open the **Setup > Channel** menu.



Start channel memorization from the **Setup > Channel** menu.

3. Press **▼** to enter the menu.

4. Highlight **Ant Air** if connected to an over-the-air antenna. Highlight **Ant Cable** for service over direct cable (no cable box). Press **ENTER** to add a check.



5. Select the scan type.

- For first-time setup, highlight **All channels**.
- To scan for channels not already in memory, highlight **Add only new channels**. Press **ENTER** to add a check.



6. Highlight **Scan** and press **ENTER**. Channel memorization may take up to 15 minutes to complete.



**To stop channel memorization before completion, press CANCEL.**

At any time after Channel Scan,

- Use the **Setup > Channel > Edit** menu to add or delete individual channels to or from memory.
- Repeat the **All channels** scan if you reposition the antenna or move the TV to a new geographic area with a different channel line-up.

## Setting Up and Using TV Inputs, continued

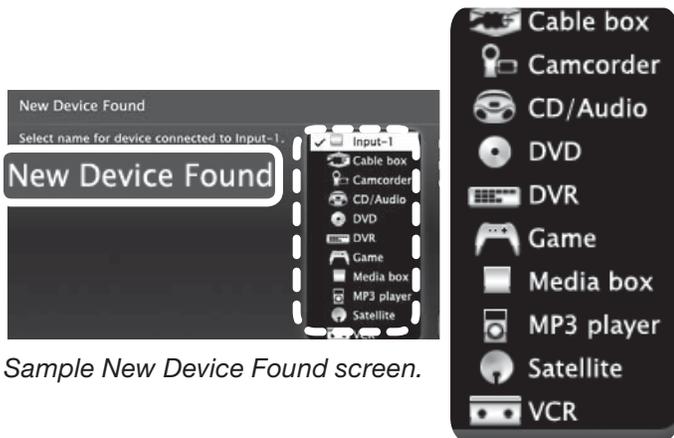
### Setting Up Inputs with Auto Input Sensing

Learn more about Auto Input Sensing on page 27.

1. Power on the TV.
2. Power on the devices to ensure detection.
3. Connect one device to the TV, making note of the TV input jack.

The TV will display the **New Device Found** screen if the connection type is detectable.

4. Highlight the device type in the on-screen list and press **ENTER**. The name you select here will appear in the **Input Selection** menu.

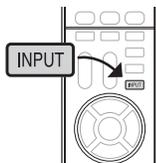


Sample New Device Found screen.

5. Press **EXIT** to close the **New Device Found** screen.
6. Repeat the preceding steps for each additional device you want to add.

### Selecting an Input to Watch

1. Press **INPUT**.
2. Press **◀ ▶** and **▼** to highlight an input icon.



Sample Input Selection menu, DVD input selected

3. Press **ENTER** to switch to the input.

**Note:** In most cases, to see a named icon for a connected device (as in the samples), you must first assign a name either

- When the device is first connected and the **New Device Found** menu offers a choice of names.
- By using the **Inputs > Name** menu to assign or change a name at any time after the TV has detected the connection.

### More About the Input Selection Menu

- To assign helpful names to the icons, see the **Inputs > Name** menu.
- To remove unwanted Antenna or HDMI device icons from the **Input Selection** menu, see the **Inputs > Name** menu.
- To rearrange the icons, use the **Inputs > Order** menu.

Detailed information on using these menus is in the supplemental Owner's Guide at [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com).

### Watching Broadcast TV

#### TV Connected to an Antenna or Direct Cable Service (no cable box)

**Note:** Perform channel memorization to enable reception of digital channels. See page 7.

1. Press **INPUT** to display the **Input Selection** menu.
2. Highlight the antenna or cable icon and press **ENTER**.



Sample Input Selection menu, antenna input selected

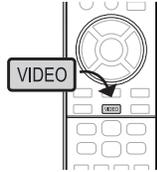
3. To tune to a channel from the **ANT** input, use any of these methods.
  - Enter the channel number using the number keys on the remote control and press **ENTER**.  
For a two-part digital channel, such as 3-1, press **3 CANCEL 1 ENTER**.
  - Press **CH** to change channels one channel at a time.
  - Press and hold **CH** to speed through channels.
  - Press **LAST** to return to the previous channel.
  - Use the Fav (Favorites) feature to tune to up to nine favorite channels. See page 19.
  - Press **GUIDE** to display ChannelView channel listings. Highlight a channel number, then press **ENTER** to tune.
  - Set up ChannelView custom channel banks and use the **CH** key to tune within predefined groups of channels.

## Basic TV Operation

### Picture Settings

To get the best picture under different viewing conditions, set the Picture Mode first before changing other video settings.

1. Press **VIDEO**.
2. Press **▼** until the **Picture Mode** option displays.



3. Press **▶** to make one of these selections:

Name	When to Use
<b>Super Brilliant</b>	Under retail lighting; not recommended for home use.
<b>Brilliant</b>	Under very bright lighting
<b>Game</b>	With gaming consoles (inputs named <b>Game</b> or <b>PC</b> only)
<b>Bright</b>	For most daytime viewing
<b>Natural</b>	For most nighttime viewing
<b>Cinema</b>	When viewing movies made for theatrical release; offers an extended color gamut.

**Note:** If the picture is too dim for your viewing environment, even after changing the Picture Mode, go to the **Setup > Energy** menu and set **Ambient Light Sensor Sensitivity** to **Off**.

4. Press **▼** to display the name of another adjustment.
5. Press **◀ ▶** to make the adjustment.
6. Wait a few seconds and the display will clear.

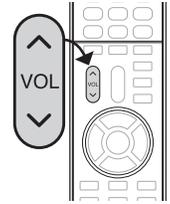
More picture adjustments can be found in these menus:

- **Picture > Video**
- **Picture > Picture Plus**
- **Picture > Perfect**
- **Picture > 3D Mode** (page 24)

### Audio Controls

#### Controlling Sound Volume

Press **VOL** to adjust the sound level of the TV speakers.



#### Changing Audio Settings (TV Speakers Only)

1. Press **AUDIO**.
2. Press **▼** to display the name of the adjustment you want.
3. Press **◀ ▶** to change.



#### Using an External Sound System

To switch from the internal TV speakers to an external sound system:

1. Press **AUDIO**.
2. Press **▼** to display the **TV Speakers** option.
3. Press **▶** to select either **On** (to hear sound from the TV speakers) or **Off** (to hear sound from an external sound system).

See page 17 for suggestions on connecting your sound system to the TV.

#### Disconnecting an A/V Receiver

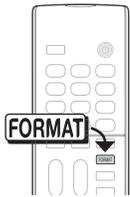
When you disconnect an A/V receiver, change the **TV Speakers** setting to **On** to hear sound from the TV speakers. Use the **Sound > Audio > TV Speakers** menu.

#### HDMI Control (CEC-Enabled HDMI A/V Receiver)

The TV's remote control may operate some functions of your HDMI A/V receiver. See the supplemental Owner's Guide at [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com).

## Basic TV Operation, continued

### The FORMAT Key and Picture Shape



Press the **FORMAT** key to cycle through picture shapes for the current image. The TV will remember the format you last used on each input.

For more on TV formats and signal types, see the supplemental Owner's Guide at [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com).

#### Important

**Black bars at the edges of the screen are common in HD pictures. Black bars are not a defect of the TV.**

- Broadcasters add black bars to fill the 16:9 screen area while preserving the original aspect ratio of older material not created for modern HD TVs.
- Your cable box, satellite receiver, or other device may also have controls for altering the shape of the broadcast picture. If your device offers output in native format, try using it with the TV picture formats.

#### Sample Uses of the FORMAT Key

You can use the **FORMAT** key to display the image as originally intended or to reduce or eliminate black areas at the edges.



*High-definition signal with squarish 4:3 image embedded. The image is narrower than the 16:9 screen; unused areas at the sides are filled with black.*

Press  
**FORMAT**



*Wide Expand mode stretches the picture sideways to fill the screen.*



*Standard 2.35:1 anamorphic DVD image; unused areas at the top and bottom are filled with black (letterbox effect).*

Press  
**FORMAT**



*Zoom mode. The picture fills the screen. All four edges are cropped in this mode.*

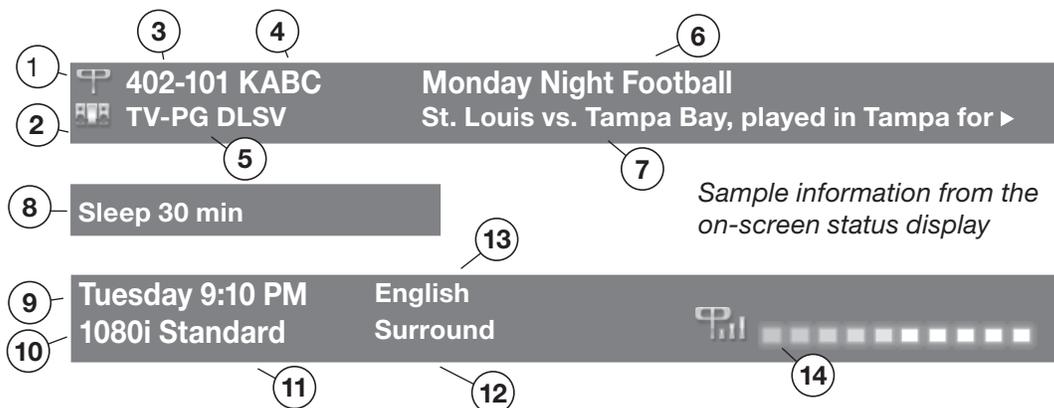
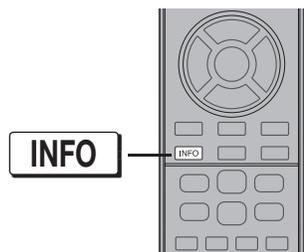
### More TV Features

See the supplemental Owner's Guide at [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com) for more on these and other topics.

- Parental controls (**Lock** menu). Requires first setting a pass code.
- TV Clock (**Setup > Clock** menu). Set the TV Clock if you plan to use the TV Timer, ChannelView channel listings, or the TV's **Lock by Time** feature.
- Changing input names in the **Input Selection** menu (**Inputs > Name** menu)
- Viewing digital camera images
- HDMI (CEC) control of other A/V devices
- Using the TV with a computer

## Status Display

Press the **INFO** key to see the on-screen status display. The most common displays are shown here.



Sample information from the on-screen status display

### About Channel Numbers

#### Channel Numbers for Over-the-Air Reception or Reception by Direct Cable

**Note:** All signals are automatically converted to 1080p for display.

#### Standard-Definition Analog Channels

Cable Reception Channel 3



Receiving Standard-Definition Analog Signal (480i)

#### Standard-Definition Digital Channels

Over-the-Air Antenna Reception Main Channel 7 Sub-Channel 1



Receiving Standard-Definition Digital Signal (SD)

#### High-Definition Digital Channels

Over-the-Air Antenna Reception Main Channel 7 Sub-Channel 1



Receiving High-Definition Digital Signal (HD)

- |  |         |     |     |      |            |
|--|---------|-----|-----|------|------------|
|  | Antenna | DVD | DVR | Game | Sat. Rcvr. |
|  |         |     |     |      |            |
1. Current Input. Examples:

---

  2. Audio Indicator. Key:  
 TV speakers External sound system Mute

---

  3. Channel number (antenna source only)  
 Digital channel includes major and sub-channel numbers.

---

  4. Digital channel name (if broadcast); antenna source only.

---

  5. V-Chip rating
    - Antenna source only for digital signal
    - Antenna or **VIDEO** composite jack for analog signal

---

  6. Program name (if broadcast); digital antenna source only

---

  7. Program description (if broadcast); digital source, antenna only. Press the **INFO** key additional times to see more of the description.

---

  8. Sleep Timer remaining time

---

  9. Day and time

---

  10. Signal type being received. All signals are automatically converted to 1080p for display. See "Signal Definitions" on this page.

---

  11. Screen format in use

---

  12. Program audio indicator (antenna source only)

---

  13. Available language (digital source, antenna only)

---

  14. Signal-strength indicator (digital source, antenna only)

---

### Signal Definitions

**480i:** Standard-definition, older type interlaced signals from the **ANT**, composite **VIDEO**, component **Y Pb Pr**, or **HDMI** jacks.

**480p:** Standard-definition progressive-scan signals on the **ANT**, component **Y Pb Pr**, or **HDMI** jacks.

**720p and 1080i:** High-definition signals received through the **ANT**, component **Y Pb Pr**, or **HDMI** jacks. These signals are always 16:9 (widescreen), but may contain embedded 4:3 images with sidebars.

**1080p:** High-definition signals from a PC, Blu-ray player, or some satellite and set-top boxes; **HDMI** inputs only.

## TV Menus

Press **MENU** on the remote control to open the main menu. Find detailed descriptions of all menus in the supplemental Owner's Guide at [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com).



### Picture

<b>Video</b>	Basic picture settings
<b>Picture+</b>	Specialized picture controls
<b>Reset</b>	Reset of sound and picture adjustments for the current input
<b>Perfect</b>	Fine-tuning of color settings
<b>Advanced</b>	Highly customized picture adjustments for each input. <b>Mitsubishi recommends these adjustments be made only by a trained professional installer.</b>
<b>3D Mode</b>	Setup for 3D viewing. See page 24.



### Sound

<b>Audio</b>	Basic audio settings
<b>Global</b>	Settings for the <b>AVR AUDIO OUTPUT</b> jacks (analog audio output)



### Captions

Settings for closed captions



### Setup

<b>Language</b>	Menu language
<b>Clock</b>	Set the TV clock to use the TV Timer, to use ChannelView listings, or to lock the TV by time.
<b>Timer</b>	Setup for the TV Timer. The Timer tells the TV to power on automatically at a time you set. Set the TV clock before using the TV Timer.
<b>Channel</b>	Setup for a channel scan on the <b>ANT</b> input; addition to or deletion of channels from TV memory
<b>Energy</b>	Controls for TV energy usage
<b>Network</b>	Setup for internet connectivity. See page 21.



### Inputs

<b>Name</b>	Name assignments for TV inputs
<b>HDMI Control</b>	Setup for HDMI Control (CEC) of external devices
<b>Order</b>	Setup of icons in the Input Selection menu
<b>StreamTV</b>	Account deactivation; clears your personal data from the TV.
<b>Demo</b>	Demonstrations of selected TV features
<b>Update</b>	Instructions for updating TV software.



### Lock

<b>Parental</b>	Controls to limit TV use by content ratings (composite video and antenna input only)
<b>Time</b>	Setup to lock the TV by time of day. Set the TV clock before using this menu.
<b>Channel</b>	Setup to lock specific channels (antenna input only)
<b>Panel</b>	Control-panel lock
<b>Other</b>	Controls to limit TV use based on rating systems that may come into effect in the future (digital channels on the antenna input only)

# 2 TV Connections

## Before You Begin

### Auto Input Sensing

The TV's Auto Input Sensing feature automatically recognizes many connections and prompts you to identify the type of device connected. See pages 8 and 27 for more on Auto Input Sensing.

### Connection Types

Use the connection types available on your input devices that will give the best video quality. For example, choose HDMI over component video; choose component video over composite video.

### Picture Quality

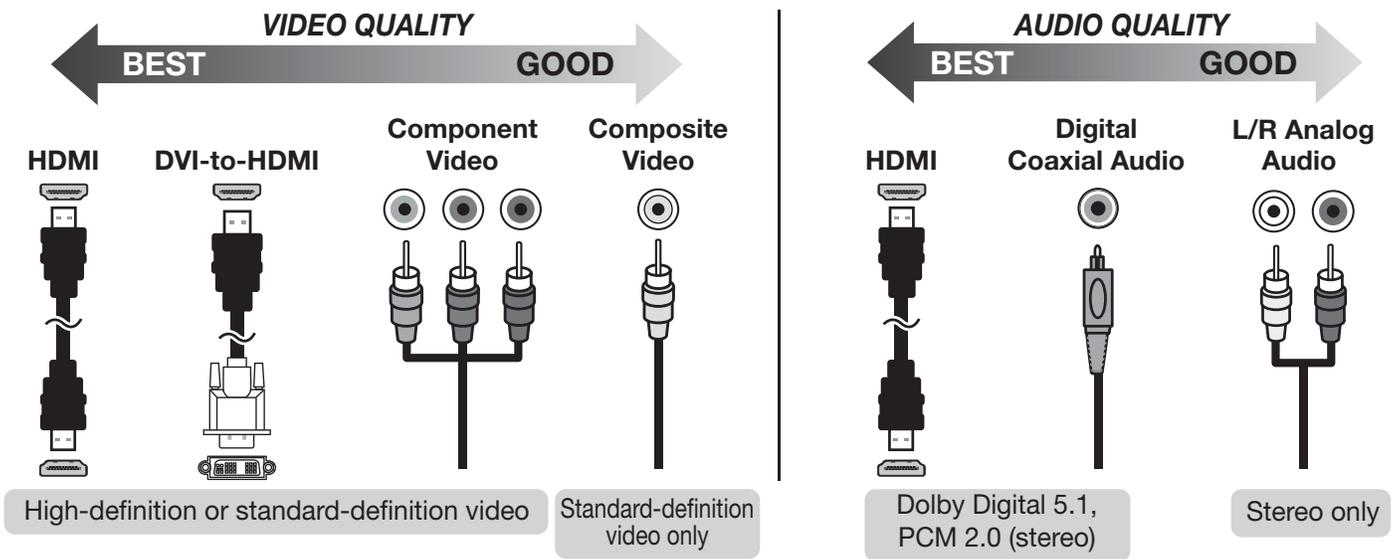
For best picture quality, route signals directly from the source device to the TV.

### Surround Sound

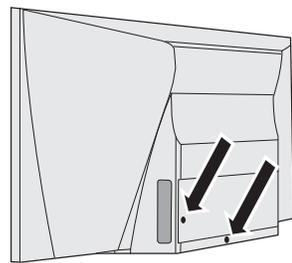
The TV accepts PCM stereo or Dolby Digital 5.1 over the **ANT** and HDMI inputs and passes the audio out on the **DIGITAL AUDIO OUTPUT** jack.

**IMPORTANT**  
Accessories such as cables, adapters, splitters, or combiners required for TV connections are not supplied with the TV. These items are available at most electronics stores.

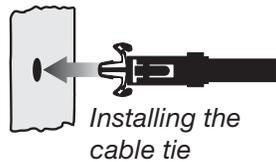
## Connection Types and Audio/Video Quality



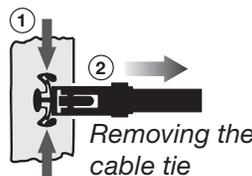
## Cable Routing



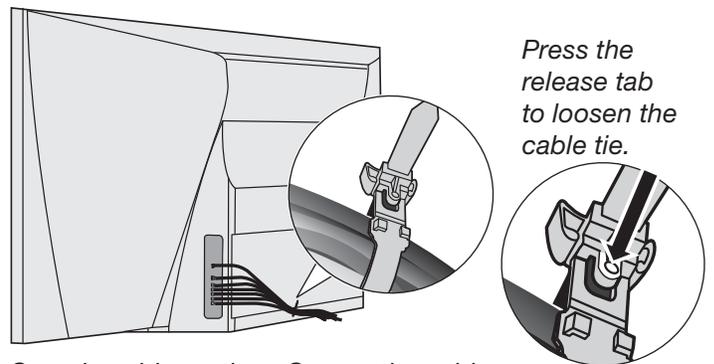
Install the cable tie (supplied) in one of the mounting holes.



Installing the cable tie



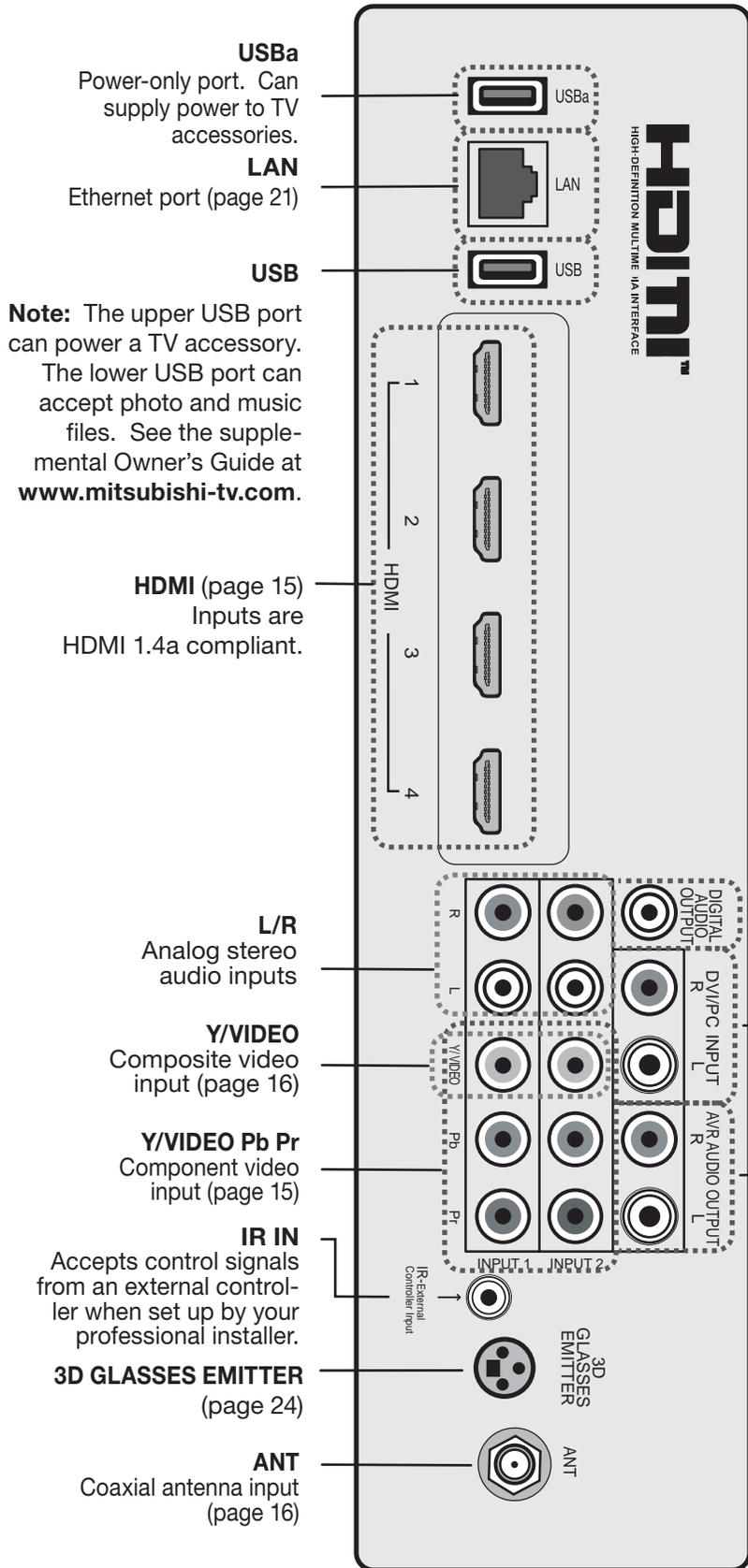
Removing the cable tie



Sample cable routing. Secure the cable bundle with the release tab facing out.

Press the release tab to loosen the cable tie.

### Input and Output Jacks



**HDMI Cable Categories**

HDMI cables are available as Standard and High-Speed types.

- High-Speed HDMI Cables.** Blu-ray players, newer DVD players, video games, 3D content, and set-top boxes require High-Speed HDMI cables, suitable for clock frequencies up to 340 MHz or data rates of up to 10.2 gigabits per second. Use high-speed cables for 1080p HD signals carrying extended color encodings (i.e., 30 or more bits, also called Deep Color). High-Speed HDMI cables are also suitable for standard HDTV signals.
- Standard HDMI Cables.** Standard HDMI cables may be unmarked. They are suitable for standard HDTV 720p, 1080i, and 1080p signals with 8-bit color depth. Use Standard HDMI cables for clock frequencies up to 74.25 MHz or data rates of up to 2.23 gigabits per second.

### HDMI Device

**Examples: HDTV Cable Box, Satellite Receiver, or DVD/Blu-ray Player**

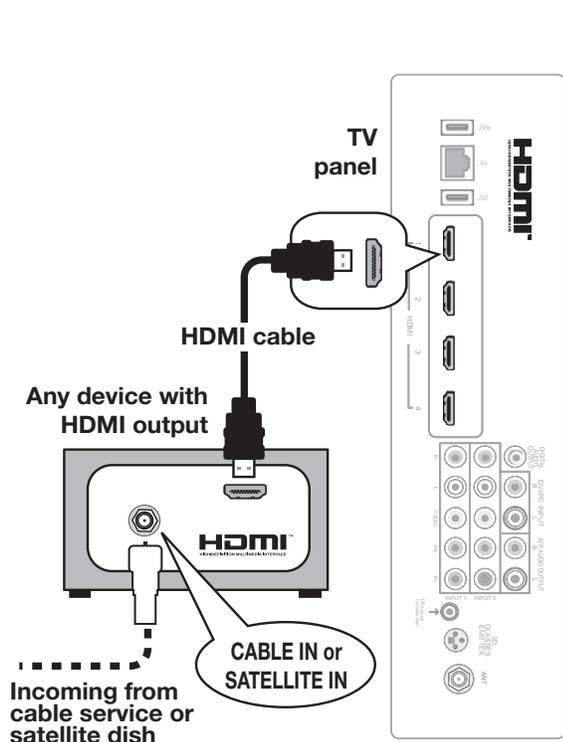
Required: HDMI cable.

Connect an HDMI cable from the TV to the device's HDMI output. HDMI-connectable devices provide video and audio through a single cable.

Mitsubishi recommends using high-speed HDMI cables to connect newer devices incorporating HDMI technology. See "HDMI Cable Categories" on the opposite page for more on HDMI cable types.

**Note:**

- This connection carries high-definition video, 3D video, and Dolby Digital 5.1 audio signals.
- This connection supports copy protection (HDCP).



### Y Pb Pr Component Video Device

**Examples: HDTV Cable Box, Satellite Receiver, or DVD/Blu-ray Player**

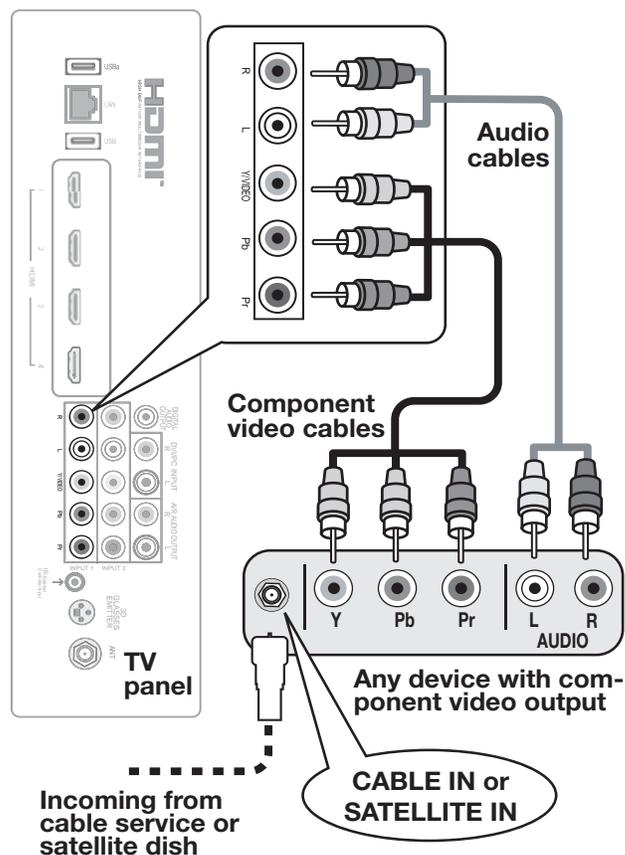
If your source device has an HDMI output, use the connections for an HDMI device described on this page instead of component video.

Required:

- Component video cables
- RCA-type analog audio cables

**Note:**

- This connection carries high-definition video signals.
- To hear digital surround sound from an A/V receiver, connect the digital audio output from the device directly to your digital A/V receiver.



### DVI Video Device

#### Examples: Computer or Older A/V Device

**Note:**

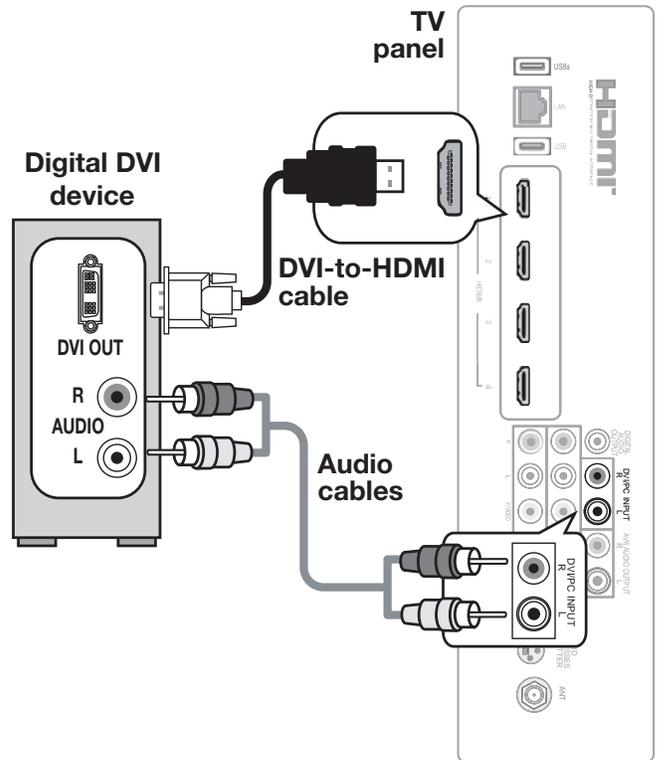
- This connection can carry high-definition video signals.
- The HDMI connection supports copy protection (HDCP).

Connect a DVI device (digital only) to one of the TV's HDMI input jacks.

**Required:**

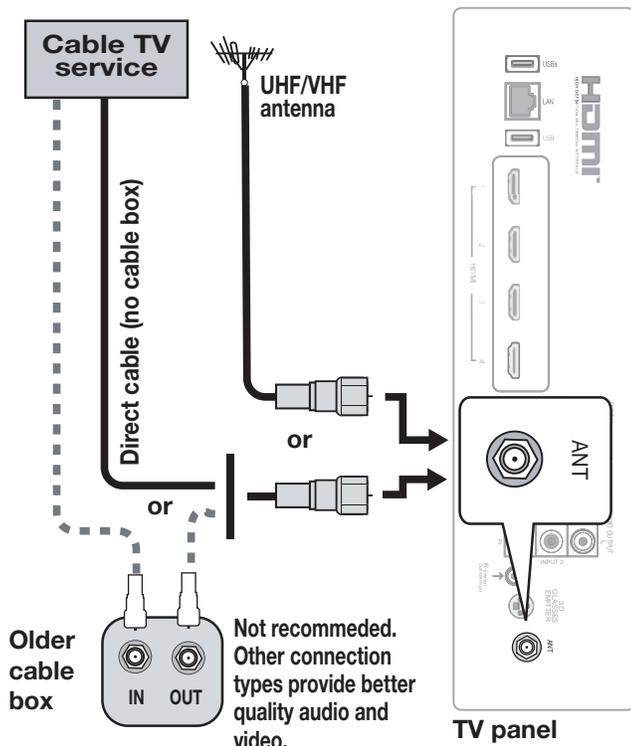
- RCA-type analog audio cables
- DVI-to-HDMI cable or DVI/HDMI adapter and HDMI cable

Some devices require a connection using an analog output first in order to view on-screen menus and to select DVI as the output. Please review your equipment instructions for DVI connectivity and compatibility.



### Antenna or Cable TV Service

Connect the incoming cable to the TV's ANT input. Reception over direct cable (no box) is limited to non-scrambled analog and digital channels.



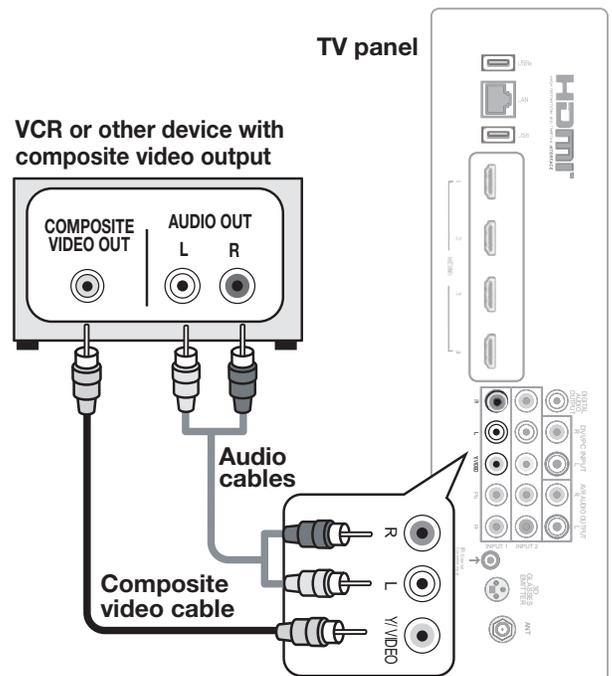
### Composite Video Device

#### VCR or other device with composite video output

**Note:** This connection does not support high-definition video signals.

**Required:**

- Composite video cable (usually yellow)
- RCA-type analog audio cables



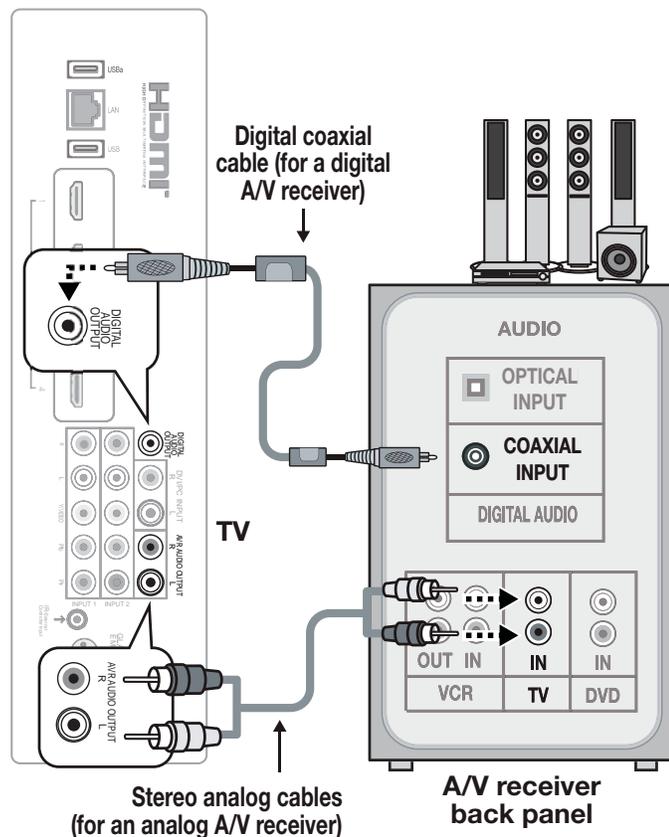
## A/V Receiver with Coaxial or Analog Output

Most setups require either a digital audio cable or analog stereo audio cables. To send audio from TV channels received on the **ANT** input or devices connected directly to the TV, you must use one of the connections shown below.

The TV makes all incoming audio available in both digital and analog formats:

- Analog incoming audio is available as output in digital stereo format on the **DIGITAL AUDIO OUTPUT** jack and as analog stereo on the **AVR AUDIO OUTPUT** jacks.
- Digital incoming audio is available as analog output on the **AVR AUDIO OUTPUT** jacks and as digital audio on the **DIGITAL AUDIO OUTPUT** jack.

See page 9 for tips on using an external sound system.



### Note:

- On rare occasions, the audio portion of an HDMI signal may be copy-restricted and cannot be output from the TV as a digital signal. To hear these copy-protected signals through the A/V receiver, use the connection for an analog A/V receiver.
- Check the A/V receiver's Owner's Guide for information concerning use of the A/V receiver's digital input.

## A/V Receiver with HDMI Output

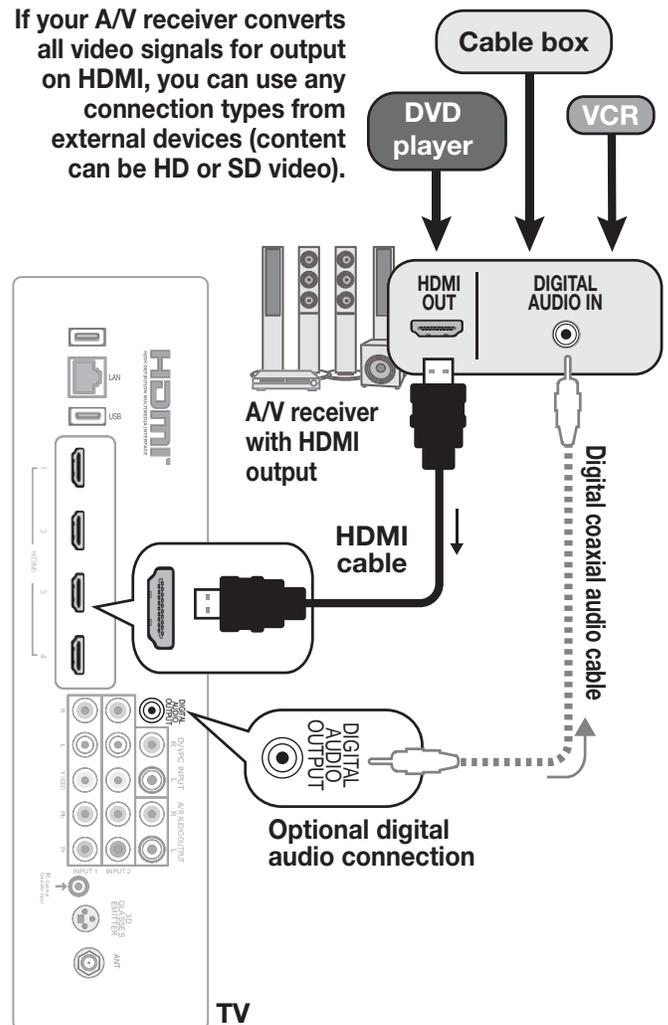
Required: HDMI cable

This option allows you to view and hear content from devices connected to an A/V receiver. The A/V receiver can send audio and video to the TV over a single HDMI cable.

You can add an optional audio connection from the TV's audio output. The optional audio connection allows you to hear, through the A/V receiver, devices connected to the TV only, e.g., an antenna on the **ANT** input.

See page 9 for tips on using an external sound system.

If your A/V receiver converts all video signals for output on HDMI, you can use any connection types from external devices (content can be HD or SD video).



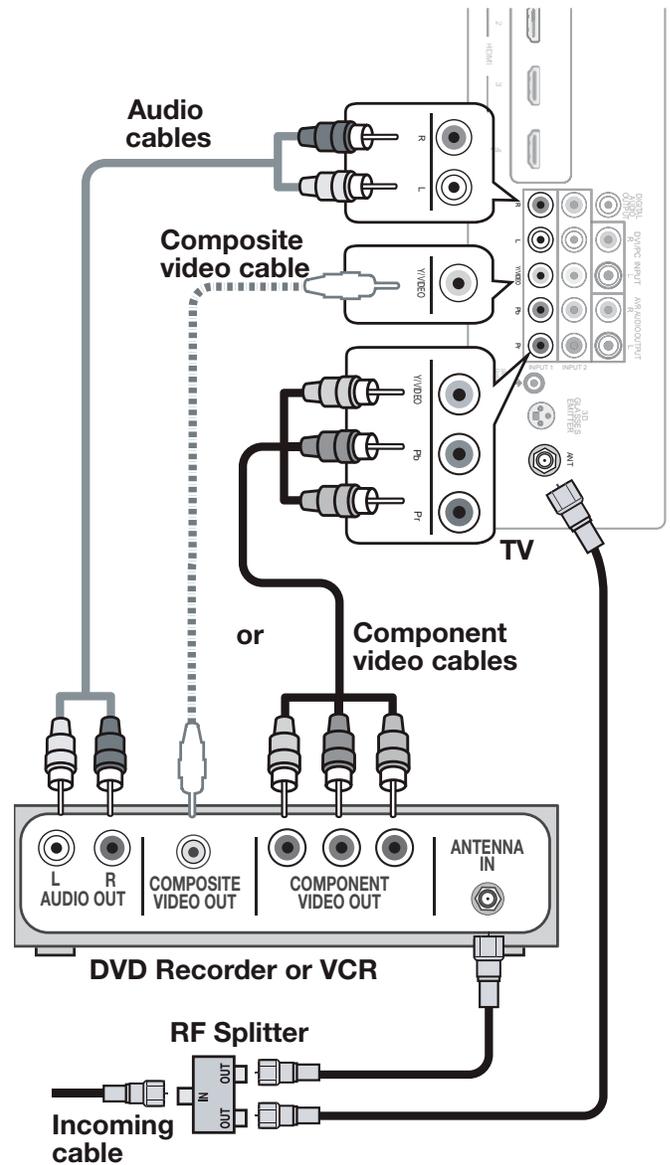
## VCR or DVD Recorder to an Antenna or Wall Outlet Cable

### Required:

- Video cables
  - Component video cables (red/blue/green)
  - or
  - Composite video cable (usually yellow)
- RCA-type analog audio cables
- Two-way RF splitter
- Two coaxial cables

### Note:

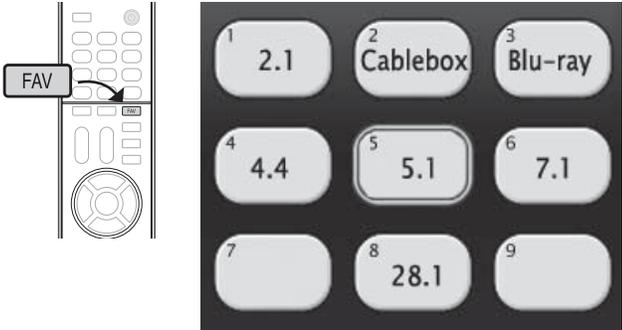
- Use composite video only if component video or HDMI are unavailable. A composite video connection cannot carry high-definition video signals.
- If your recording device has an analog-only tuner, you must use a digital converter box to enable recording of digital broadcasts.



# 3 TV Features

## FAV (Favorites)

The **FAV** key gives you quick access to favorite program sources. Sources can be channels from the **ANT** input or devices connected to the TV. You can store up to nine favorites.



Sample Favorites menu. Switch to favorite channels or inputs using number keys.

**Adding Favorites**

1. Press **INPUT** and switch the TV to the input you want to add. If adding a channel, switch to the **ANT** input and tune to the channel.
2. Press the **FAV** key.
3. Move the highlight to the number position you want to assign to the channel or input.
4. Press **ENTER**.

**Removing**

1. While watching TV, press the **FAV** key.
2. In the **Favorites** menu, highlight the channel or input you want to remove.
3. Press **CANCEL**.

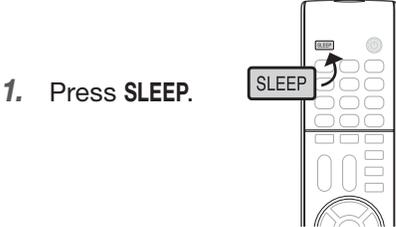
**Tuning**

1. While watching TV, press the **FAV** key.
2. Press the number key for the channel or input you want.

## Sleep Timer

The Sleep Timer turns the TV off after the length of time you set. To set the TV to turn on at a certain time of day, see the **Setup > Timer** menu.

### Setting the Sleep Timer



1. Press **SLEEP**.
2. Press **SLEEP** additional times to increase the time in 30-minute increments up to the maximum of 120 minutes.
3. Press **EXIT** or wait five seconds without pressing any keys for the message to clear.

### Viewing or Changing the Sleep Timer

1. Press **SLEEP** to display the on-screen message.
2. Press **SLEEP** additional times to change the time before the TV powers off. To cancel the Sleep Timer, press **SLEEP** repeatedly until **OFF** is displayed.

## ChannelView Channel Listings

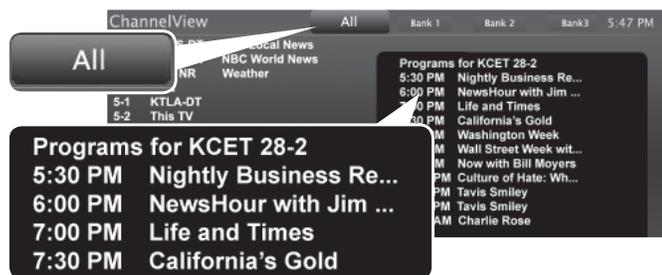
ChannelView displays program descriptions sent by broadcasters. This information may be unavailable in some areas. In addition, many cable companies do not send program information with every digital channel. In such cases, ChannelView cannot display channel information.

### About ChannelView

ChannelView™ shows memorized channels on the **ANT** input. It displays channel names and program information for digital channels. No program information is displayed for analog channels.

ChannelView allows you to set up three banks of custom channels for convenient access. You can save groups of channels by content (e.g., news, sports, children's programming) or by TV user.

**Note:** You must first set the TV Clock to receive ChannelView listings. Use the **Setup > Clock** menu.

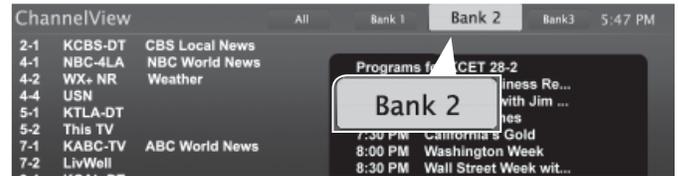


ChannelView, "All" tab. Programs are listed on the right.

### Using ChannelView Listings

Task	Action
Display/hide ChannelView listings ( <b>ANT</b> input only).	Press <b>GUIDE</b> .
Move through channels one by one.	Press <b>▲</b> or <b>▼</b> .
Move through channels quickly.	Press and hold <b>CH</b> .
Jump to listings for a specific channel.	Enter the channel number. Press <b>CANCEL</b> once to add a dash; press <b>CANCEL</b> twice to clear the channel number.
Tune to a highlighted channel.	Press <b>ENTER</b> .
Update program information for a highlighted digital channel.	Press the <b>INFO</b> key (the screen may briefly go blank).
Display program descriptions, if available. The description will appear at the bottom of the screen.	<ol style="list-style-type: none"> <li>Press <b>▶</b> to move into the program area.</li> <li>Press <b>▲▼</b> to move between programs.</li> </ol>
Display more program description for the current channel (if available).	Press <b>INFO</b> .

### ChannelView Custom Channel Banks



Select a channel bank to customize.

1. Press **GUIDE** to display ChannelView.
2. Press **MENU** to move the highlight to the bank header.
3. Press **◀▶** to select Bank 1, 2, or 3.
4. With the bank name highlighted, press **ENTER** to enter setup mode where you can select channels to include in the bank.

Task	Action
Move between banks	Press <b>◀▶</b> .
Move into the channel list	Press <b>▼</b> .
Add or delete a channel from the bank	<ul style="list-style-type: none"> <li>Highlight the channel and press <b>ENTER</b>. A check indicates the channel has been added.</li> <li>Press <b>ENTER</b> again to clear the check and remove the channel.</li> </ul>
Remove all channels from the selected bank	Press <b>CANCEL</b> .
Enter or exit setup mode	Press <b>MENU</b> .

5. Press **EXIT** when finished with setup.

### Using Custom Channel Banks

- While watching TV, press **CH**. The TV will tune only to channels stored in the current bank.
- To change to a different channel bank:
  1. Press **GUIDE**.
  2. Press **MENU**.
  3. Press **◀▶** to highlight the desired bank.
  4. Press **EXIT**.
- To allow tuning to any channel in memory, select the **All** bank.

## StreamTV™ Internet

Internet services let you access many popular on-line applications providing both free and paid content.

**Note:** From time to time you may notice changes to the internet interface as new features are added.

### Required for StreamTV internet media:

- Broadband internet service (at least 2 Mbps for SD, 4 Mbps for HD, and 8 Mbps for 1080p HDX)
- Category-5 Ethernet cable **or** a wireless router
- Computer access to the websites of content providers when initial account activation is required for service.
- A credit card to cover the cost of paid content.

## Home Network Setup

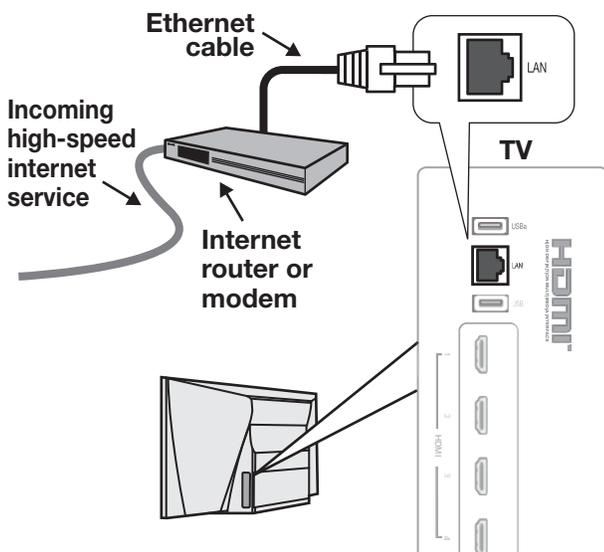
Before using StreamTV internet media, you must connect the TV to the internet using either an Ethernet cable or a wireless connection as described here.

**Note:** Make sure the TV is on any input other than USB. Press the **INPUT** key to change.

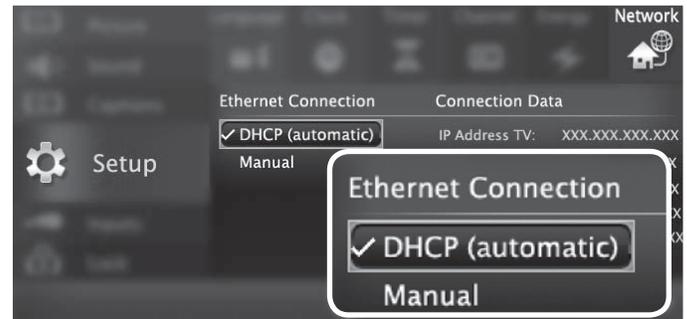
### Wired Ethernet Connection

#### DHCP (automatic)

1. Connect the TV to your network router with a Category-5 Ethernet cable (not supplied).



2. Open the **Setup > Network** menu to review settings.



Setup > Network, DHCP connection

3. Press **EXIT** to clear the menu.

#### Manual

**Note:** Manual setup is available only for a wired connection.

1. Connect the TV to your network router with a Category-5 Ethernet cable (not supplied).
2. In the **Setup > Network** menu, highlight **Manual** and press **ENTER**.
3. Press **▶** to move to the **Connection Data** area.
4. Input the connection data.
5. After entering connection data, press **ENTER** to connect.
6. Change any of the following if needed:
  - Default Gateway
  - DNS
  - Subnet Mask

### Wireless Connection

This TV is IEEE 802.11n-compliant and can communicate directly with your wireless router.

1. Disconnect the Ethernet cable if present.
2. Open the **Setup > Network** menu. After a few moments, detected networks will appear listed on the screen in order of signal strength.



Setup > Network menu, wireless connection

## StreamTV™ Internet, continued

- Highlight the desired network and press **ENTER** to connect. A check will appear next to the connected network. Press **CH/PAGE** to see more networks if the list fills more than one screen.



*Setup > Network menu after connecting. The active network is checked and connection data displays.*

- If connecting to a secure network, enter the network key or password when prompted. Special remote control keys you may need:

Key	Use for
1	Digit 1 and special characters !@#\$%^*_ - + = . SPACE ?
CANCEL	<ul style="list-style-type: none"> <li>Clears the password box of an old entry from a prior session.</li> <li>Deletes one character during password entry.</li> </ul>
▲ ▼	Toggle between upper and lower case

- Press **ENTER** to connect.

**Note:** If you notice RF interference from the TV's internal network transmitter, turn off the transmitter. Open the **Setup > Network** menu. Select **Off** and press **ENTER**.

To reconnect later, open the **Setup > Network** menu, highlight the network, and press **ENTER**.

## Using StreamTV Internet Media

- After establishing internet connectivity as described in "Home Network Setup," page 21, switch the TV to any input other than USB.
- Press the **INTERNET** key to display services.
- Press **ENTER** to launch an application.

## Troubleshooting

### If You Are Unable to Connect to the Internet

- Check all power and data connections.
- If you can reach the internet with a computer or other device on the same internet service used by the TV, consult the router or modem owner's guide for reset instructions.
- If you cannot reach the internet, contact your service provider. You may be asked for network information such as the TV's IP address. Go to the **Setup > Network** menu to see connection data.

### For Further Assistance

If you are having trouble connecting your TV or accessing internet applications, contact Mitsubishi Customer Care at 1 (877) 675-2224.

## StreamTV™ Internet, continued

### VUDU

Internet services provided by VUDU™ Apps let you access many popular on-line applications. In addition to free content, VUDU's movie service lets you buy and rent movies through the TV. Visit [www.VUDU.com](http://www.VUDU.com) to learn more about available movie titles, prices, and services offered.

### Getting Started with VUDU Movies

1. After establishing internet connectivity as described in "Home Network Setup," page 21, switch the TV to any input other than USB.
2. Press the **INTERNET** key to display services from VUDU Apps.
3. Select the VUDU movie service.
4. Browse the VUDU movie catalog and offerings.
5. When you are ready to rent or buy a movie, you will be prompted to activate your VUDU account. Follow the on-screen instructions and use a computer to go to [www.VUDU.com/activation](http://www.VUDU.com/activation). A credit card is required for activation.

For a list of routers and switches recommended for use with VUDU services, see the **Support > FAQ** section at [VUDU.com](http://VUDU.com).

Once your account is activated, you can rent and buy movies using only the TV and the TV's remote control.

If you are having difficulty with your VUDU account, contact VUDU Customer Care at [www.VUDU.com/support](http://www.VUDU.com/support).

### Other VUDU Support

Reset your VUDU account password	Using a computer, go to <a href="http://www.VUDU.com">www.VUDU.com</a> (reset requires access to e-mail).
Reset your parental controls pass code	Call VUDU Customer Care at 1-888-554-VUDU (8838).

## Using VUDU Apps and VUDU Movies

Navigate VUDU's menus with the keys on the TV's remote control. Browse the movie catalog, watch movie previews, set parental controls, and rent or buy movies.

- Key functions vary according to context and may change with newer versions of VUDU.
- Some VUDU screens include instructions identifying available key functions.

**CANCEL.** Usually acts like the backspace key during text entry.

**ENTER.** Confirms a selection.



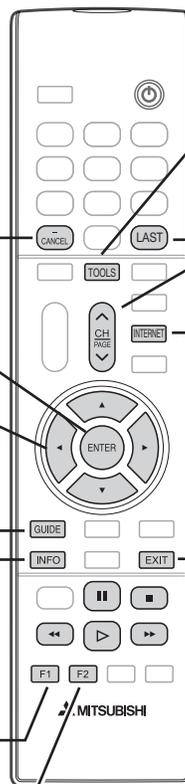
- Directional navigation
- In VUDU Apps, press ▲ ▼ to display more applications.

**GUIDE.** In some contexts, returns to the VUDU home menu.

**INFO.** In VUDU's movie service, displays more options for the current selection if available.

**F1.** Displays a VUDU help menu if available.

**F2.** Displays the VUDU system menu if available.



**TOOLS.** Use the **Tools** menu to perform A/V reset while in VUDU movies or some VUDU Apps.

**LAST.** Goes to a previous screen.

**CH/PAGE.** Jumps to the previous or next page of menu items.

**INTERNET.** Displays the VUDU Apps internet menu. Switch the TV to any input other than USB before connecting to the internet.

**EXIT.** Closes the current screen and goes to a home screen.

Playback keys.

## 3D Video

To display 3D content, your Mitsubishi TV requires:

- Active-shutter 3D glasses compatible with any one of the following:
  - The TV's internal emitters
  - A matching external synchronization emitter connected to the TV's back panel
  - DLP link

Glasses compatible with the TV's internal emitters are:

- XPAND model 3DG-X103 IR glasses made for Mitsubishi 3D TVs
- XPAND model X103 Universal IR glasses

For more information, visit the 3D TV page at [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com).

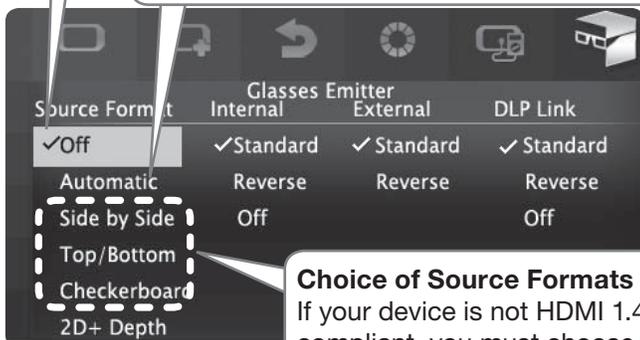
- A compatible 3D source device connected to the TV via HDMI or StreamTV internet and outputting a 3D signal in one of these formats:
  - Frame Packing 1080p/24-Hz or 720p/60-Hz
  - Top-Bottom 1080p/24-Hz or 720p/60-Hz
  - Side-by-Side format, 1080p, 24/30/60-Hz; 720p, 60-Hz
  - Checkerboard format, 1080p, 60-Hz; (lower resolutions may be supported but will not fill the screen)

### Off

- Turns off 3D images; displays 3D content as 2D (you may see two images).
- Restores normal TV adjustment options when viewing an ordinary 2D signal.

### Automatic

- Switches the TV to 3D mode and selects the correct 3D format when the TV detects a 3D signal from an HDMI 1.4a-compliant device.
- Automatically switches the TV out of 3D mode when receiving a normal 2D signal.



### Choice of Source Formats

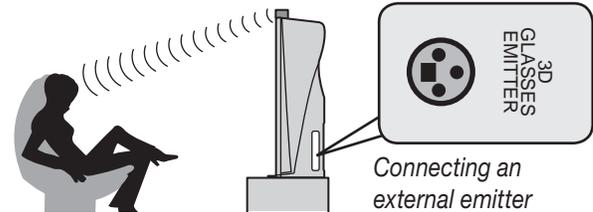
If your device is not HDMI 1.4a compliant, you must choose the correct setting from this list.

Use the Picture > 3D Mode menu to enable 3D video.

## Initial Setup

1. If your 3D glasses came with a synchronization emitter, connect the unit to the **3D GLASSES EMITTER** jack. Place the emitter at the front of the TV where there is a clear path to the glasses.

**Note:** No emitter is required if using the TV's internal emitters or DLP Link.

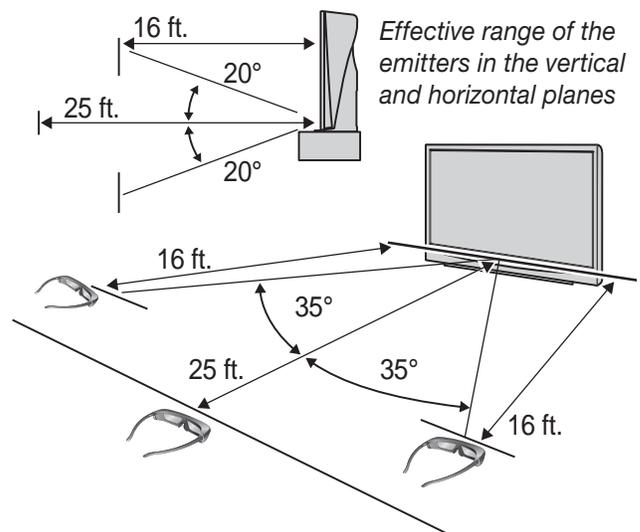


2. Power on the TV and the source device.
3. Connect the source device to the TV's HDMI input.
4. When the **New Device Found** screen displays, name the input.
5. Press **EXIT** to close the **New Device Found** screen.

## Notes on the TV's Internal Emitters

If using glasses compatible with the TV's internal IR emitters, keep a clear path from the glasses to the emitter.

Internal IR Emitters for 3D Glasses



## 3D Video, continued

### Watching 3D Video

Active 3D glasses are required. All glasses in use at the same time must use the same control type. Halogen lights, fluorescent lights, or direct sunlight can interfere with operation of the glasses.

1. Switch the TV to the 3D video device. Press **INPUT** then highlight the icon for the 3D video device. Press **ENTER**.

**Note:** Before watching 3D images from an internet source, it is important to establish the internet connection first before enabling 3D mode.

2. Press **MENU** and select the **Picture > 3D Mode** menu.
3. For **Source Format**, select **Automatic** and press **ENTER**. Press **EXIT** to close the menu.
  - If the image looks correct, the device is HDMI 1.4a compliant; always keep the setting at **Automatic** for this device.
  - For non-compliant 3D sources, open the **Picture > 3D Mode** menu and select a source format based on how the picture looks:

#### Side by Side

Two images, screen split vertically



#### Top/Bottom

Two images, screen split horizontally



#### Checkerboard

Blurry double image (always required for checkerboard signals)



4. Press **EXIT** to close the menu.
5. If the image does not appear correct (e.g., objects appear to be moving in instead of out), open the **Picture > 3D Mode** menu. Highlight the **Reverse** setting for the current control type and press **ENTER** to add a check.
6. When finished watching 3D video:
  - If your 3D video device is HDMI1.4a compliant, keep the setting on **Automatic**.
  - If you manually selected a source format in the **Picture > 3D** menu, open the menu again and select **Automatic** or **Off**.

### Other Options in the 3D Menu

<b>Glasses Control Off Settings</b>	The <b>Off</b> settings disable output from the selected emitter. Use <b>Off</b> in the unlikely event of IR interference with other devices.
<b>2D+ Depth</b>	When selected, generates a simulated 3D image from an ordinary 2D image. Requires use of active-shutter 3D glasses.

### Notes on Using 3D Video Settings

3D signals and 3D settings affect some TV functions. Switch to a non-3D source to regain full TV operation.

If **Source Format** is set to **Automatic** or one of the named 3D formats **OR Source Format** is set to **Off** and the 3D video source is HDMI 1.4a compliant (picture may appear as 2D), the following limitations apply:

- Picture adjustments are limited. To make picture adjustments while watching normal 2D images from the device, temporarily set **Source Format** to **Off** to make the full range of adjustments accessible.
- While receiving a 3D signal,
  - The **FORMAT** key is disabled.
  - The **INTERNET** key is disabled.

## 3D Video, continued

### 3D Safety Requirements

- 3D Glasses are NOT designed as sunglasses or safety glasses and do not provide protection. 3D glasses should be worn only when viewing 3D material.
- Do not wear the wireless glasses in any situations that require unimpaired visual perception.
- Children under the age of 5 should not view 3D programming.

Under normal conditions, 3D viewing is safe for your movies or games. Some people may experience discomfort, however. To minimize the potential for experiencing visual problems or any adverse symptoms:

- Read and follow any and all safety warnings that accompany your 3D glasses or 3D source devices.
- Maintain a distance of no less than 2 to 2.5 times the screen height measurement away from the display. Viewing from too short a distance can strain your eyes.
- Take regular breaks, at least 5 minutes after every hour of 3D viewing.

If you experience any of the following symptoms, discontinue 3D viewing until the symptoms go away:

- nausea, dizziness, or queasiness
- headache, or eyestrain
- blurry vision
- double vision that lasts longer than a few seconds

**Do not** engage in any potentially hazardous activity (for example, driving a vehicle) until your symptoms have completely gone away. If symptoms persist, discontinue use and do not resume 3D viewing without discussing your symptoms with a physician.

**Do not** use the glasses where loss of balance or limiting your field of vision may be dangerous to you.

**Do not** use near staircases, ledges or balconies. You may risk falling during or after use.

#### Epilepsy

**WARNING! IF YOU OR ANY MEMBER OF YOUR FAMILY HAS A HISTORY OF EPILEPSY, CONSULT A PHYSICIAN BEFORE USING 3D VIDEO OR GAME PRODUCTS.**

A small percentage of the population may experience epileptic seizures when viewing certain types of TV images or video games that contain flashing patterns of light.

The following people should consult a physician before viewing 3D Games or Video:

- Anyone with a history of epilepsy, or who has a family member with a history of epilepsy
- Anyone who has ever experienced epileptic seizures or sensory disturbances triggered by flashing light effects.

**WARNING! SOME LIGHT PATTERNS MAY INDUCE SEIZURES IN PERSONS WITH NO PRIOR HISTORY OF EPILEPSY. DISCONTINUE 3D VIEWING IF YOU EXPERIENCE ANY OF THE FOLLOWING SYMPTOMS:**

- Involuntary movements, eye or muscle twitching
- Muscle cramps
- Nausea, dizziness, or queasiness
- Convulsions
- Disorientation, confusion, or loss of awareness of your surroundings

### Notice Concerning Format Compatibility

The Mitsubishi TVs will support the mandatory HDMI 1.4a 3D signals intended for the United States. Specifically, the TVs will support the 3D signals known as Frame Packing 1080p/24Hz and 720p/60Hz (primarily from Blu-ray players and gaming consoles), Side-by-Side in 1080i/60Hz, 1080p/24Hz/30Hz/60Hz and 720p/60Hz, Top/Bottom in 1080p/24Hz and 720p/60Hz, and Checkerboard 1080p/60Hz. However, there may be some 3D sources that are not compatible with the TVs.

In all cases: (1) 3D sources must connect to the TVs using the HDMI inputs or via StreamTV™ Internet Media; and (2) Active Shutter 3D glasses that match the TV's internal synchronization emitter, or Active Shutter 3D glasses with their own external matching synchronization emitter connected to the rear of the TV or DLP Link Active Shutter 3D glasses are required in order to view 3D content.

## Appendix A: Auto Input Sensing

### About Auto Input Sensing

This TV's Easy Connect™ Auto Input Sensing feature detects the following connections automatically:

- Analog video jacks
- HDMI inputs (when powered on)
- USB device containing photo and music files (JPG and MP3 formats).

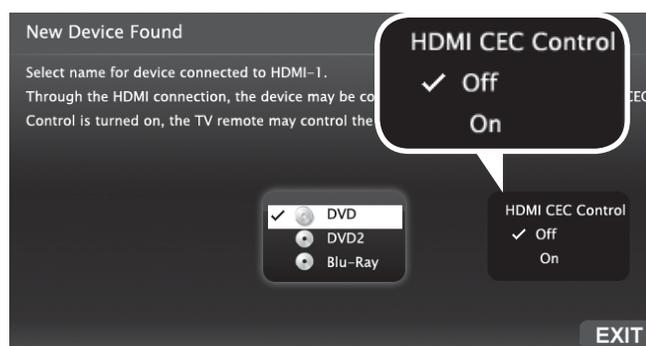
### Auto Input Sensing for Most Devices

When you first connect a device, the TV will:

1. Detect the connected device and automatically switch to it.
2. Prompt you to identify the device type.
3. Repeat these steps for other newly detected devices.

### When You First Connect a Device

- **Most Device Types.** Select the device type from the on-screen list. The device type you select here will appear as an icon in the **Input Selection** menu.
- **A/V Receiver.** For an HDMI-equipped A/V receiver, select **AVR** from the list of device types if the A/V receiver is not recognized automatically.
- **HDMI CEC Devices Compatible with the TV's HDMI Control Feature.** Compatible CEC-enabled HDMI devices are often recognized automatically by the TV. HDMI Control may allow you to control some functions of a CEC-enabled device. See the supplemental Owner's Guide at [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com).



*New Device Found* screen for a device with HDMI control enabled. Select **On** if you want to enable the TV's HDMI control of the device. In some cases, as in the example, you will also be prompted to select a device name.

### Tips on Auto Sensing

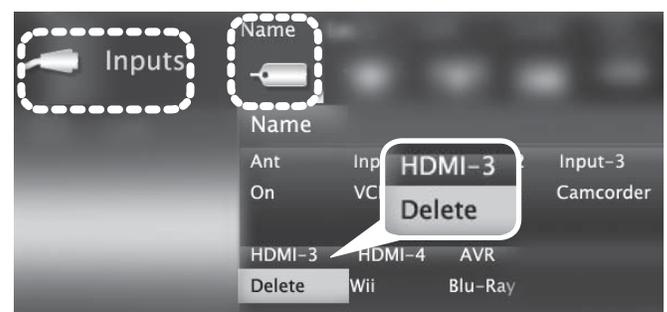
- Choose a different name for each input.
- The antenna (**ANT**) input is never detected. It can be turned off in the **Inputs > Name** menu.
- Change the device type displayed in the **Input Selection** menu by using the **Inputs > Name** menu.
- Some HDMI devices can automatically tell the TV what name to use in the **Input Selection** menu and you will be unable to change the name.
- The TV is unable to detect a new connection if the current input is USB or internet. Switch to a different input before connecting.

### Reactivating Auto Input Sensing for an HDMI Input

After you disconnect an HDMI device, Auto Input Sensing is temporarily disabled and the disconnected device still appears in the **Input Selection** menu.

Perform these steps:

1. Power off the device.
2. Disconnect the HDMI cable.
3. Press **MENU** on the TV remote control to enter the TV main menu.
4. Go to **Inputs > Name**.
5. Highlight the HDMI input name and press **ENTER** to select **Delete**.
6. Press **EXIT** to clear the menus.



*Inputs > Name* menu with **Delete** selected for HDMI-3.

7. Connect the new device and the **New Device Found** screen will display.

## Appendix B: Troubleshooting

### TV Reset Comparison Guide

You can resolve many common TV problems using the reset functions described in the following table.

#### IMPORTANT

**Before you change sound or picture settings:** If picture or sound settings seem wrong for a broadcast channel (a channel from the **ANT** input, a cable box, or satellite receiver), first check other channels from the same input before changing settings. If most other

channels from the same input seem correct, there is likely a problem with the broadcast rather than with the TV. Use care in this case, as changes you make to fix problems on individual channels also affect all other channels on the same input.

#### Note

Additional troubleshooting tips are in the supplemental Owner's Guide at [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com).

Reset Name	When to Use	How to Use	Resulting Action
<b>Format</b>	If the picture shape seems incorrect, use the <b>FORMAT</b> key to change the picture shape.	Press <b>FORMAT</b> to cycle through the picture shapes available for the signal.	The last-used format for the signal type will be recalled on the input. <b>Note:</b> Also check the aspect ratio feature on your cable box or satellite receiver as this may be altering the picture.
<b>PerfectColor™/ PerfectTint™ Reset</b> (for the single current input)	When the color intensities seem out of balance, use the PerfectColor/PerfectTint reset to reset the color balances to the original factory settings. Both PerfectColor and PerfectTint are reset at the same time.	<ol style="list-style-type: none"> <li>1. While viewing the input to reset, press <b>MENU</b> and go to <b>Picture &gt; Perfect</b>.</li> <li>2. Press <b>ENTER</b> to display the PerfectColor adjustment screen.</li> <li>3. Press <b>CANCEL</b> to reset the colors.</li> </ol>	All PerfectColor/PerfectTint sliders are reset to the original center position. The PerfectColor/PerfectTint settings for other inputs remain unchanged.
<b>A/V Memory Reset</b> (for the single current input)	When audio and/or video settings for a single input seem incorrect, use A/V Memory Reset to return the input to the original factory settings.	<ol style="list-style-type: none"> <li>1. While viewing the input to reset, press <b>MENU</b> and go to <b>Picture &gt; Reset</b>.</li> <li>2. Press <b>▼</b> to highlight <b>Reset</b>.</li> <li>3. Press <b>ENTER</b> again to reset.</li> </ol>	Most Audio and Video settings for the individual input are reset except for the global settings for audio Balance, Listen To, Language, Smooth120 (Smooth 120 Film Motion), and Advanced.
<b>A/V Reset</b> (for all inputs)	To reset audio and video adjustments for all inputs to the original factory settings.	While viewing the TV, press the control-panel buttons <b>INPUT</b> and <b>VOLUME DOWN</b> at the same time for at least two seconds.	Most Audio and Video settings are returned to the original factory settings, including global settings not affected by <b>Picture &gt; Reset</b> . Settings under <b>Picture &gt; Advanced</b> are unaffected.
<b>Channel Memorization</b>	To erase and re-memorize channels on the <b>ANT</b> input.	<ol style="list-style-type: none"> <li>1. Press <b>MENU</b> and go to <b>Setup &gt; Channel</b>.</li> <li>2. Highlight the reception mode, e.g. <b>Ant Air</b>, and press <b>ENTER</b>.</li> <li>3. Highlight <b>All Channels</b> and press <b>ENTER</b>.</li> <li>4. Highlight <b>Scan</b>.</li> <li>5. Press <b>ENTER</b> to start channel memorization.</li> </ol>	All previously memorized channels for the antenna input are erased and a new set of memorized channels is created. All channel information in the FAV menu, ChannelView, and Channel Lock is deleted. To add or delete individual channels, use the <b>Setup &gt; Channel &gt; Edit</b> menu.
<b>Lock Menu Pass Code</b>	To change your <b>Lock</b> menu pass code	Press the <b>9</b> and <b>LAST</b> keys simultaneously to temporarily unlock the TV. See the supplemental Owner's Guide at <a href="http://www.mitsubishi-tv.com">www.mitsubishi-tv.com</a> for more.	

## Appendix B: Troubleshooting, continued

Reset Name	When to Use	How to Use	Resulting Action
<b>Control-Panel Lock Release</b>	To re-enable the control-panel buttons after activation of the Control-Panel Lock	Press and hold the <b>INPUT</b> button on the control panel for ten seconds. If the TV is powered off, you can now press the <b>POWER</b> button to turn it on.	Allows the control panel to be unlocked if the remote control is misplaced.
<b>System Reset</b>	If the TV does not turn on or off, does not respond to the remote control or control-panel buttons, or has audio but no video.	Press and hold the <b>POWER</b> button on the control panel for ten seconds.	The TV will turn off. The green LED will flash quickly for about one minute. The changes you made most recently, before using <b>SYSTEM RESET</b> , may be lost.
<b>TV Reset</b> <b>IMPORTANT:</b> Use this reset only if other troubleshooting has been unsuccessful.	To reset all consumer-accessible settings and all memories to the original factory defaults.  Use TV Reset if the TV can respond to controls but TV behavior is abnormal.  <b>CAUTION:</b> All owner-performed setups and adjustments will be erased.	<ol style="list-style-type: none"> <li>1. While viewing the TV, press <b>MENU</b> to display the TV main menu.</li> <li>2. With the main menu displayed, press number keys <b>1 2 3</b> to display the <b>Reset</b> menu.</li> <li>3. <b>READ THE ON-SCREEN WARNING AND INSTRUCTIONS.</b> <ul style="list-style-type: none"> <li>• If you do not wish to use this reset, press <b>EXIT</b> or <b>MENU</b> to back out.</li> <li>• If you wish to continue, press <b>ENTER</b> to erase all memories and settings.</li> </ul> </li> </ol>	The TV will start the initialization process and then turn off. The front green LED will start flashing. All memory and settings outlined in this Owner's Guide will need to be set again.

### Service and Customer Support

#### Service

If you are unable to correct a problem with your TV, consult Mitsubishi Consumer Relations at 1 (877) 675-2224.

- DO NOT adjust any controls other than those described in this Owner's Guide or the on-line supplemental Owner's Guide.
- DO NOT remove the protective back cover of your TV.

#### Customer Support

- To order replacement or additional remote controls, visit our website at [www.mitsuparts.com](http://www.mitsuparts.com) or call 1 (800) 553-7278.
- For questions:
  - Call Consumer Relations at 1 (877) 675-2224.
  - E-mail: [TVsupport@mevsa.com](mailto:TVsupport@mevsa.com)
  - Website: [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com)

## Appendix B: Troubleshooting, continued

### Common Picture Problems

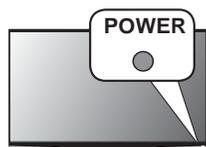
	Symptom	Remarks
1.	Picture does not look like a high-definition picture.	<p>Compare the picture to the TV's test picture (Picture &gt; Picture+ menu) to check if the source signal is supplying a lesser-quality image.</p> <p>Not all signals are high-definition signals. To receive high-definition programming from your cable or satellite provider, you must subscribe to the provider's high-definition service. Some over-the-air broadcasts are in high-definition and can be received with a high-quality antenna suited to your location.</p>
2.	TV has sound but no picture.	<ul style="list-style-type: none"> <li>• Press MENU on the remote control. If the menu displays, then there is a problem with the incoming signal.</li> <li>• Check that all video inputs are plugged in firmly to the correct input jacks.</li> <li>• Press and hold the POWER button on the control panel for ten seconds to perform System Reset.</li> </ul>
3.	A color program appears as a black and white image, or the colors are dim, or the screen is black.	<ul style="list-style-type: none"> <li>• If using component video, check that the red, green, and blue input cables are correctly connected to the red, green, and blue component video jacks.</li> <li>• If using composite video, check that the incoming cable is connected to the TV's green Y/VIDEO jack.</li> <li>• The PerfectColor color balance has been incorrectly set. Reset the PerfectColor balance.</li> </ul>
4.	Picture from an HDMI input is noisy (poor quality).	<ul style="list-style-type: none"> <li>• Compare the picture to the TV's test picture (<b>Picture &gt; Picture+</b> menu) to check the source of the noise.</li> <li>• Upgrade a standard (unmarked) HDMI cable to a high-speed HDMI cable.</li> </ul>

### Network

Symptom	Remarks
I cannot connect the TV to the network.	Go to the <b>Setup &gt; Network</b> menu. Obtain the TV MAC address and provide it to the router.

## Appendix B: Troubleshooting, continued

### Front-Panel Indicator Light



#### Key

- Off
- Steady On
- ◐ Slow Blinking
- ⊙ Fast Blinking

LED Color	TV Condition
None ○	<b>TV is powered off.</b> Normal operation.
Green ●	<b>TV is powered on.</b> Normal operation.
Green ◐	<b>TV powered off, auto-on TV Timer is set.</b> Normal operation. TV can be turned on at any time.
Green ⊙	TV power just turned on. A picture will appear shortly. Normal operation. <ul style="list-style-type: none"> <li>• TV just plugged into AC outlet.</li> <li>• AC power just restored after power failure.</li> <li>• TV is rebooting after power fluctuation or receiving abnormal digital signals from a digital channel or digital device.</li> </ul> Wait approximately two minutes for blinking to stop before turning on. Normal operation.
Red/ Yellow ◐	<b>TV may require service.</b> <ul style="list-style-type: none"> <li>• Hold power button on front panel for 10 seconds to reset TV.</li> <li>• If LED continues to flash red and yellow after reset, turn off the TV and unplug it from the AC power source. Wait one minute and then plug the set back in.</li> <li>• If LED continues to flash red and yellow, go to <a href="http://www.mitsubishi-tv.com">www.mitsubishi-tv.com</a> or call 1 (877) 675-2224 to receive Authorized Service Center information.</li> </ul>

# Mitsubishi TV Software

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Version 2, June 1991

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## Mitsubishi LASERVUE® Television Limited Warranty

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- a. **Parts.** All parts (except any software incorporated into this television and Lenticular screen surface) are warranted for a period of one (1) year from the date of the original purchase at retail. We will repair or replace, at our option, any defective part without charge for the part. Lenticular (i.e. front picture) screen surface is warranted against defect in materials and workmanship for a period of thirty (30) days from the date of the original purchase at retail. Parts used for replacement may be replaced with those of like kind and quality and may be new or remanufactured. Parts used for replacement are warranted for the remainder of the original warranty period.
- b. **Embedded Software.** MEVSA warrants that all software developed by MEVSA and incorporated into this television set (the “Embedded Software”) will perform in accordance with the functional description of Embedded Software in all material respects, but MEVSA does not warrant that the Embedded Software is error-free. MEVSA also does not warrant that the Embedded Software will be compatible under HDMI CEC software standards with products produced by any other manufacturer. The limited warranty contained in this section shall continue for a period of one (1) year from the date of the original purchase at retail. If, after prompt notice within the warranty period, MEVSA determines that the Embedded Software has failed to perform in accordance with such functional description in all material respects and if such failure is not due to accident, misuse, modification or misapplication of the Embedded Software, then MEVSA shall modify the nonconforming Embedded Software and make available the modified Embedded Software at no charge to you, which at MEVSA’s sole discretion may be fulfilled by means of modification or replacement software contained on a replacement memory card or made available through download via the Internet or email for Customer installation. The foregoing shall be MEVSA’s sole obligation to you under this limited warranty. All rights under this limited warranty on the Embedded Software also subject to your acceptance of and compliance with the terms of the Software License Agreement applicable to this television, and this limited warranty on the Embedded Software shall be null and void if the Embedded Software is modified or changed in any manner except as specifically authorized by MEVSA.
- c. **Labor.** For thirty (30) days after the original purchase at retail, we will repair or replace, at our option the Lenticular Screen if the surface proves defective. For certain items that are designed to be replaced by the consumer, including (but not limited to) some Embedded Software, the consumer is solely responsible for any replacement labor. For all other parts, we will provide the labor for a warranty repair by an authorized MITSUBISHI service center without charge for one (1) year from the original date of purchase at retail.
- d. **Notice.** To obtain warranty service, you must notify an authorized MITSUBISHI service center of any defect within the applicable warranty time period.
- e. This LASERVUE Television uses a single DLP chip to create the screen image. This technology creates the image using small dots, or picture elements (pixels). Your LASERVUE TV is manufactured to a high level of performance and quality, in fact, 99.99% perfect in the number of properly functioning pixels. As in other display technology, sometimes a pixel is continuously active, inactive or the incorrect color. Our standard is clear; MEVSA warrants only that the percentage of properly functioning pixels will be not less than 99.99% of all pixels.  
BEFORE REQUESTING SERVICE, please review the instruction booklet to insure proper installation and correct customer control adjustment. If the problem persists please arrange for warranty service.

### 1. TO OBTAIN WARRANTY SERVICE:

- a. Contact your nearest authorized MITSUBISHI service center, whose name and address can be obtained from your MITSUBISHI dealer, by writing at the address provided below, calling MEVSA at 800-332-2119, or by using the support feature of our website at [www.Mitsubishi-tv.com](http://www.Mitsubishi-tv.com).
- b. Warranty service will be provided in your home or, if required, at an authorized service shop, provided that your television is located within the geographic territory customarily covered by an authorized MITSUBISHI service center. If not, you must either deliver your television to an authorized service location at your own expense, or pay for any travel and/or transportation costs the service center may charge to and from your home. Actual service labor will be provided without charge.
- c. Proof of purchase date from an authorized MITSUBISHI dealer is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. **THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION OF COVERAGE UNDER THIS LIMITED WARRANTY.** However, please return the Owner Registration Card so that we can contact you should a question of safety arise which could affect you.

**For assistance call 1(877) 675-2224**

## 2. THIS LIMITED WARRANTY DOES NOT COVER:

- a. Up to .01% pixel outages (small dot picture elements that are dark or incorrectly illuminated).
- b. Damage to the lenticular screen or Fresnel lens, screen frame, cosmetic damage or to any other damage where such damage is caused by unauthorized modification, alteration, repairs to or service of the product by anyone other than an authorized MITSUBISHI service center; physical abuse to or misuse of the product (including any failure to carry out any maintenance as described in the Owner's Guide including air vent cleaning or any product damaged by excessive physical or electrical stress); any products that have had a serial number or any part thereof altered, defaced or removed; product use in any manner contrary to the Owner's Guide; freight damage; or any damage caused by acts of God or other factors beyond the reasonable control of MEVSA, such as power surge damage caused by electrical system or lightning. This limited warranty also excludes service calls where no defect in the product covered under this warranty is found, service calls related to unsatisfactory audio or visual reception or signal unless caused by a defect in the product that is covered under this limited warranty, all costs, expenses or any other damages arising from product installation, removal from or re-installation into custom installations or on wall mountings, or set-ups, any adjustments of user controls (including contrast, brightness, color, tint, fine tuning, sharpness), other adjustment necessary to prepare the unit for display or use, connection with any external audio receiver, antenna, cable or satellite systems, or service of products purchased or serviced outside the U.S.A. Please consult the operating instructions contained in the Owner's Guide furnished with the product for information regarding user controls.

3. ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO A TERM OF ONE YEAR.

4. UNDER NO CIRCUMSTANCES SHALL MEVSA BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, OR OTHERWISE.

5. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental, special, or consequential damages, so the above limitations or exclusions may not apply to you.

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



MITSUBISHI ELECTRIC VISUAL SOLUTIONS AMERICA, INC.  
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## Mitsubishi Electric Visual Solutions America, Inc. (MEVSA) Internet Applications Policy

MEVSA Internet Applications affords the opportunity to access third party Internet product offerings or services ("Third Party Services") on certain Mitsubishi TVs. The Third Party Services accessible herein are provided as per our agreement with these third parties. These agreements are subject to change, interruption, suspension (including termination) at any time and for various reasons. MEVSA makes no warranties or representations that any particular Third Party Service will be accessible, available, function in any particular manner or function at all.

### Internet Access Required for Third Party Services; Updates:

To use these Third Party Services, you must obtain high-speed/broadband access to the Internet (such as DSL, cable or T1 lines), either directly or through devices that access the Internet and pay any service fees associated with such access. In addition, you must provide all equipment necessary to make such connection to the Internet including a modem or other Internet access device. Each individual third party Internet product may require different minimum Internet connection speed. The usability and availability of a functional Mitsubishi television and its internet connected feature may highly be dependent and varied based on high-speed/broadband internet access, connection speed, bandwidth, other equipment(s), third party applications, firmware updates and other factors outside of MEVSA's control and/or responsibility which may also be independent of the actual operation of the television. It is further understood that Mitsubishi televisions are integrated with sophisticated technologies (software and hardware) which may

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exhibit delayed boot-up/shutdown time and/or interrupted services. You further understand that the Third Party Services specifications and functionality are constantly evolving and that we may directly, or indirectly via third parties, update or change the Third Party Services, in whole or in part, at any time and without notice to you. Such updates may be required for you to use certain aspects of the Third Party services or to continue to connect to the Third Party Services.

**Availability of Content on Third Party Services:**

MEVSA or said third parties providing Third Party Services reserve the right to delete data from their servers, or prevent access to their servers or to change data categories, product offerings or service levels for any reason that MEVSA or said third parties deem sufficient in their sole discretion at any time, without notice. MEVSA may also impose additional or different limits on the use of or access to certain Third Party Services, in any case and without notice or liability. Some or all of the data or functionality of the Third Party Services may require additional payment and/or subscription by you. However, in no event will you be charged for any Third Party Services unless those charges are made known to you in advance. MEVSA makes no warranties or representations of any kind as to the accuracy, currency, or completeness of any information contained on the data servers of such third party providers of any Third Party Services. Furthermore, we do not review, control, or endorse the content, products or services of Third Party Services or their data servers.

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Imaging Science Foundation Certified Calibration Controls

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**For assistance call 1(877) 675-2224**



**Website:**  
www.mitsubishi-tv.com

**E-mail:**  
TVsupport@mevsa.com

**Call Consumer Relations for operational or connection assistance at  
1 (877) 675-2224**

**To order replacement or additional remote controls,  
Visit our website [www.mitsuparts.com](http://www.mitsuparts.com)  
or call 1 (800) 553-7278**

This manual provides basic connection, setup, and operating instructions. Please visit our website at [www.Mitsubishi-tv.com](http://www.Mitsubishi-tv.com) to view or download a supplemental Owner's Guide that describes additional features of this TV. Follow the Support link to the Product Documents page.



#### **SYSTEM RESET**

If the TV does not respond to the remote control, control-panel buttons, or will not power on/off, press and hold the **POWER** button on the control panel for ten seconds.

The TV will turn off. Power on the TV and the green LED will flash quickly for about one minute. Recent settings changes may be lost.

#### **For Your Records**

Record the model number, serial number, and purchase date of your TV. The model and serial numbers are on the back of the TV. Refer to this page when requesting assistance with the TV.

**MODEL NUMBER** \_\_\_\_\_  
**SERIAL NUMBER** \_\_\_\_\_  
**PURCHASE DATE** \_\_\_\_\_  
**RETAILER NAME** \_\_\_\_\_  
**LOCATION** \_\_\_\_\_



For information on System Reset, please see inside back cover.



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