



# 3D DLP™ HOME-CINEMA TELEVISION MODELS

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**WD-73640**

**WD-73C11**

**WD-73CA1**

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
## BASIC OWNER'S GUIDE


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

- For questions:
  - Visit our website at [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com).
  - E-mail us at [TVSupport@mevsa.com](mailto:TVSupport@mevsa.com).
  - Call Consumer Relations at 800-332-2119 for operational or connection assistance.
- For information on **System Reset**, please see the back cover.
- To order replacement or additional remote controls, visit our website at [www.mitsuparts.com](http://www.mitsuparts.com) or call 800-553-7278.



	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

 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:** 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.

Cet appareil ne doit pas être exposé à des gouttes ou à des éclaboussures et aucun objet rempli d'un liquide, comme un vase, ne doit être placé sur l'appareil.

**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

CAUTION: Use these Mitsubishi TV models only with the Mitsubishi stand model shown here. Other stands can result in instability and possibly cause injury.

TV Model	Stand Model
WD-73640, WD-73C11, WD-73CA1	MB-S73A

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

#### 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.

**For assistance call 1(800) 332-2119**

## FCC Declaration of Conformity

Product: Projection Television Receiver  
 Models: WD-73640  
 WD-73C11  
 WD-73CA1  
 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.**

## Canadian Notice

For Model WD-73CA1  
 This Class B digital apparatus complies with Canadian ICES-003.  
 Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Children and TV Viewing

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

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

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**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.

## Lamp Replacement

For lamp-replacement instructions, see Appendix B.

### To Order a Replacement Lamp Under Warranty

Visit our website [www.mitsuparts.com](http://www.mitsuparts.com) or call (800) 553-7278. Please have television model number, serial number, and proof of purchase available.

### To Order a Replacement Lamp After Warranty

Visit our website at [www.mitsuparts.com](http://www.mitsuparts.com) or call (800) 553-7278. Please have the television model number available. Order new lamp part number **915B455011**.

**For assistance call 1(800) 332-2119**

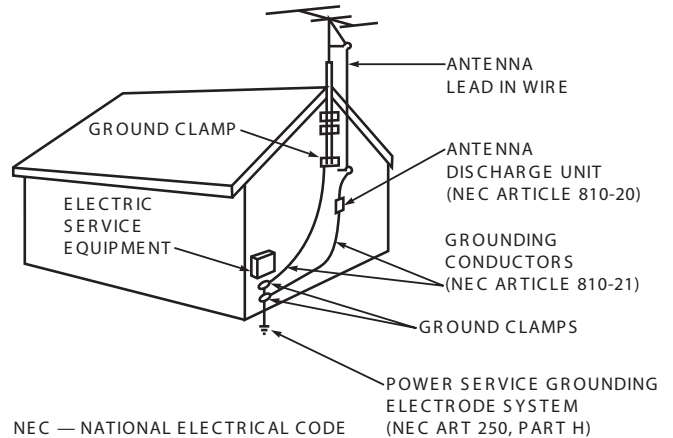
# Important Safety Instructions

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.

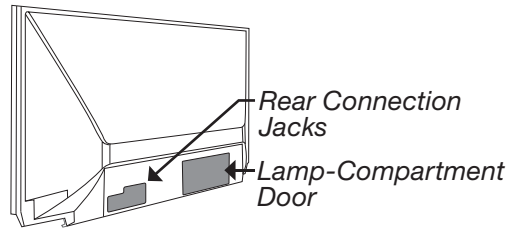
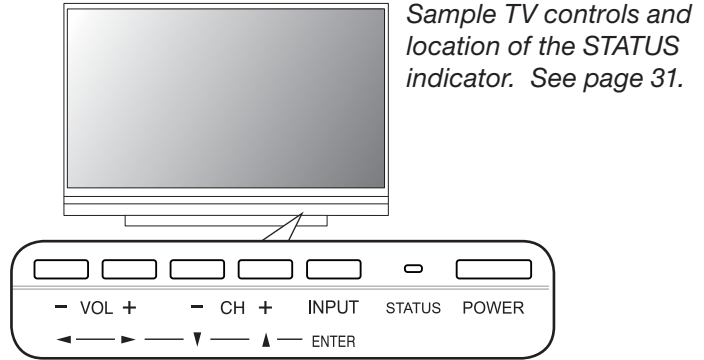
# 1 Basic Setup and Operation

## Package Contents

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

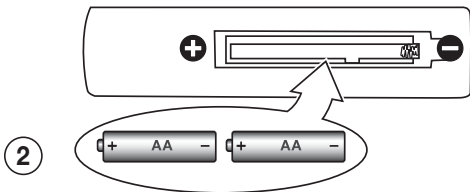
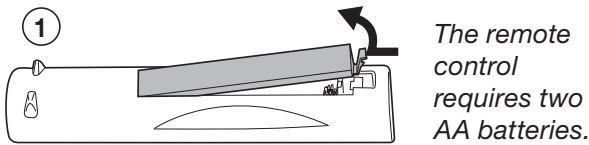


## TV Overview



### 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.



### TV Control Panel

Buttons on the control panel duplicate some keys on the remote control.

To display the main menu, press **INPUT** and **VOL+** simultaneously for about 10 seconds. Press and hold **INPUT** and **VOL+** for 10 seconds to clear the menu.

### System Reset

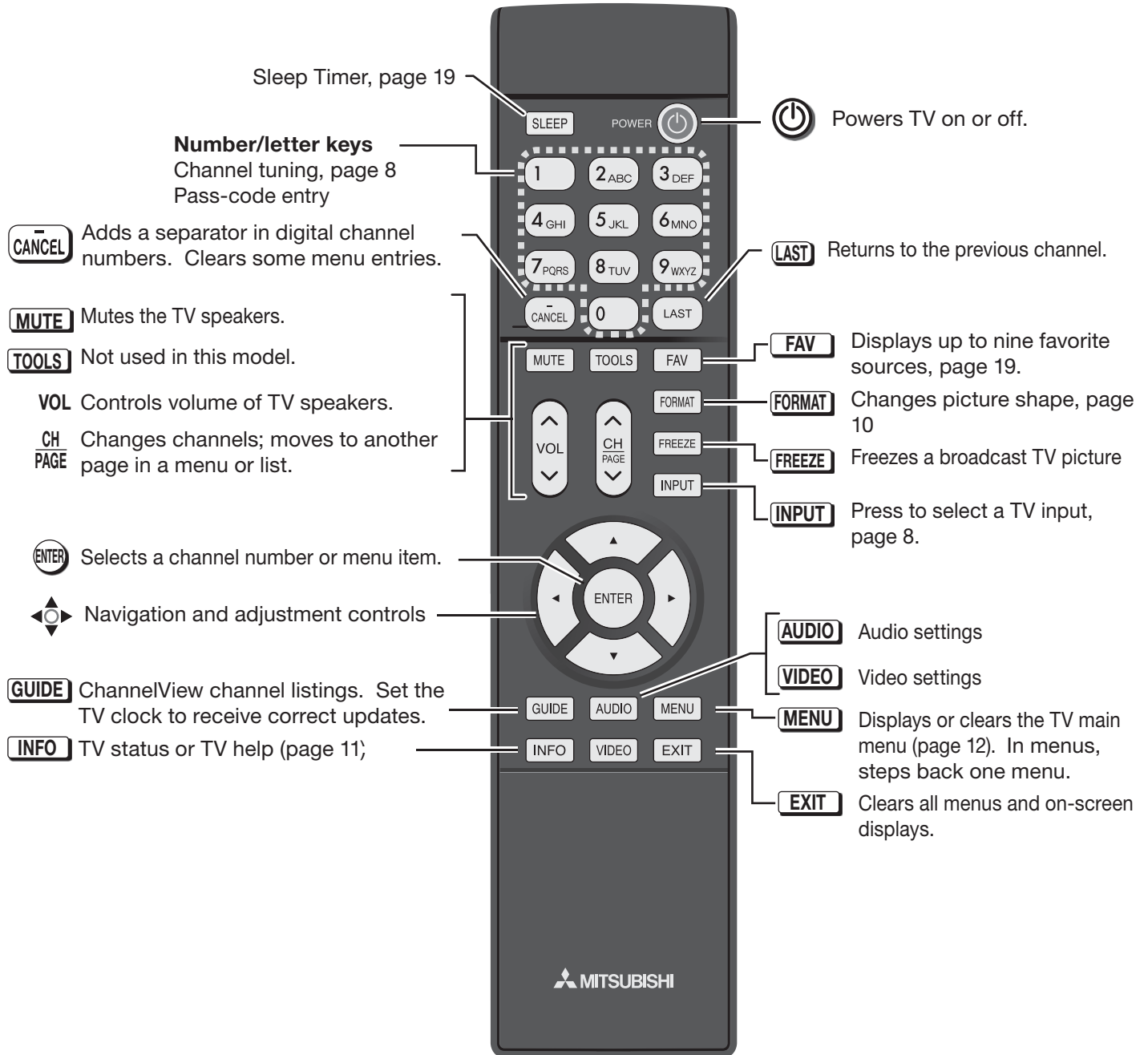
If the TV fails to respond to the remote control, the control-panel buttons, or will not power on/off, perform System Reset. Press and hold the **POWER** button on the control panel for ten seconds.

### 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 2.
  - 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

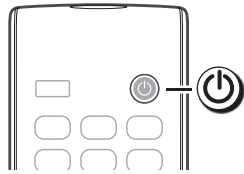
Aim the remote control at the TV screen. The TV can detect control signals over the entire screen area.



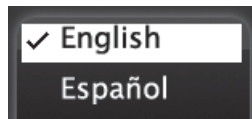
## First-Time Power-On

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

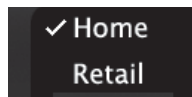
2. Aim the emitter (bulb) end of the remote control at the TV and press the **POWER** key . Wait for the **Welcome** screen.



3. If you wish to change the menu language to **Español**, press **▼** then **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 produces a picture suitable for home viewing and uses less power.
- The **Retail** setting looks best under the bright lighting often found in commercial settings. In this mode, the TV uses more power than when in the **Home** setting.

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

	Home	Retail
<b>Picture Mode</b>	<b>Bright</b>	<b>Brilliant</b>
<b>Lamp Energy</b>	<b>Standard</b>	<b>Bright</b>

- Use the **Picture > Video** menu to change the Picture Mode.
- Use the **Setup > Energy** menu to change **Lamp Energy**.

## 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

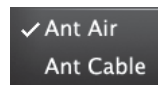
- Power on the TV.
- Press **MENU** and open the **Setup > Channel** menu.



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.

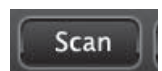


5. Select the scan type.

- 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 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

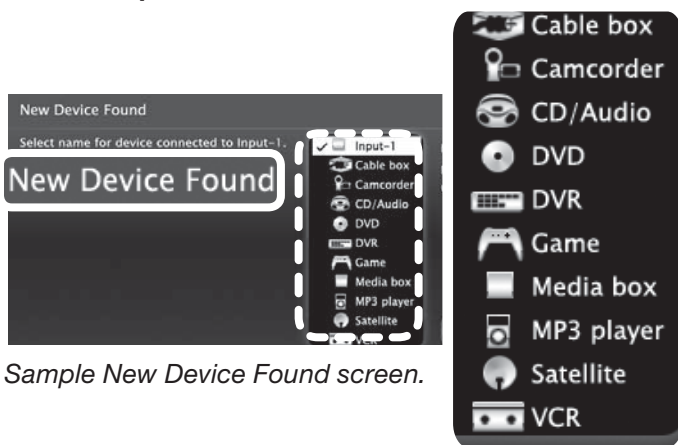
### Setting Up Inputs with Auto Input Sensing

Connection information starts on page 13. Learn more about Auto Input Sensing on page 24.

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.

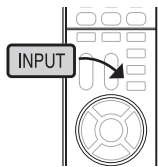


Sample New Device Found screen.

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.

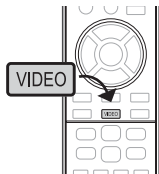


## Basic TV Operation

### 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>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

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.

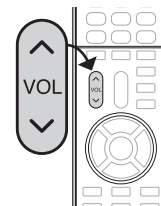
More picture adjustments can be found in these menus:

- **Picture > Video**
- **Picture > Picture Plus**
- **Picture > 3D Mode** (page 21)

### 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

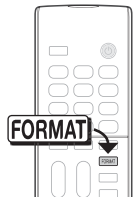
When you disconnect an A/V receiver, change the **TV Speakers** setting to **On** to hear sound from the TV speakers. Use the **Sound > Audio > TV Speakers** menu.

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

The TV's remote control may control some functions of the 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.*

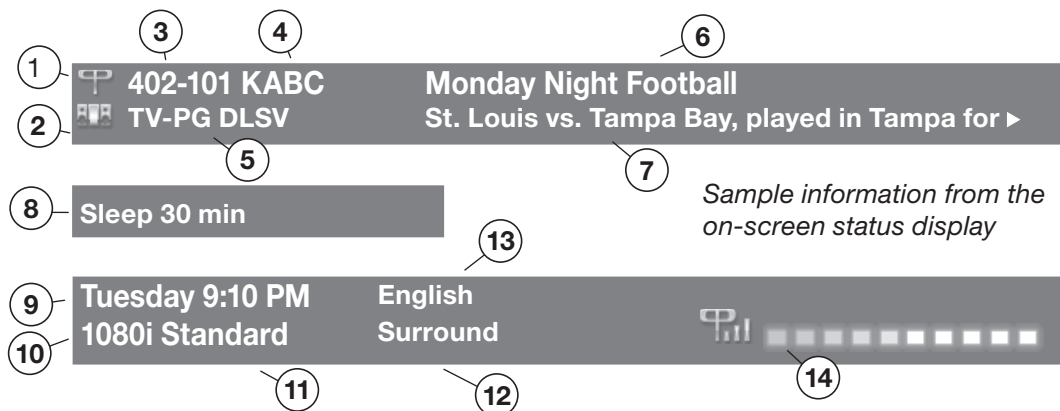
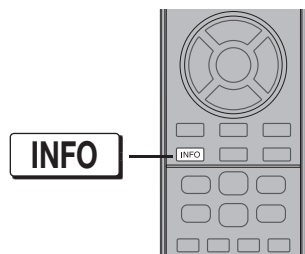
### More TV Features

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)
- 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 (models WD-73640 and WD-73C11, U.S. only)   | <ul style="list-style-type: none"> <li>• Antenna source only for digital signal</li> <li>• Antenna or <b>VIDEO</b> composite jack for analog signal</li> </ul> |     |             |            |                       |  |      |
| 6.  | Program name (if broadcast); digital antenna source only  |  |     |             |            |                       |  |      |
| 7.  | Program description (if broadcast); digital source, antenna only. Press the <b>INFO</b> key additional times to see more of the description if available. |  |     |             |            |                       |  |      |
| 8.  | Sleep Timer remaining time  |  |     |             |            |                       |  |      |
| 9.  | Day and time  |  |     |             |            |                       |  |      |
| 10. | Signal type being received. 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.

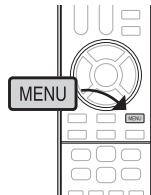
**480p:** Standard-definition progressive-scan signals on the **ANT**, component **Y Pb Pr**, or **HDMI** jacks.

**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>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 21.



### Sound

Basic audio settings



### 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



### 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>Update</b>	Instructions for updating TV software.



### Lock

<b>Parental</b>	Controls to limit TV use by content ratings (composite video and antenna inputs only). Offered on WD-73640 and WD-73C1, U.S. 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). Offered on WD-73640 and WD-73C1, U.S. 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 24 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

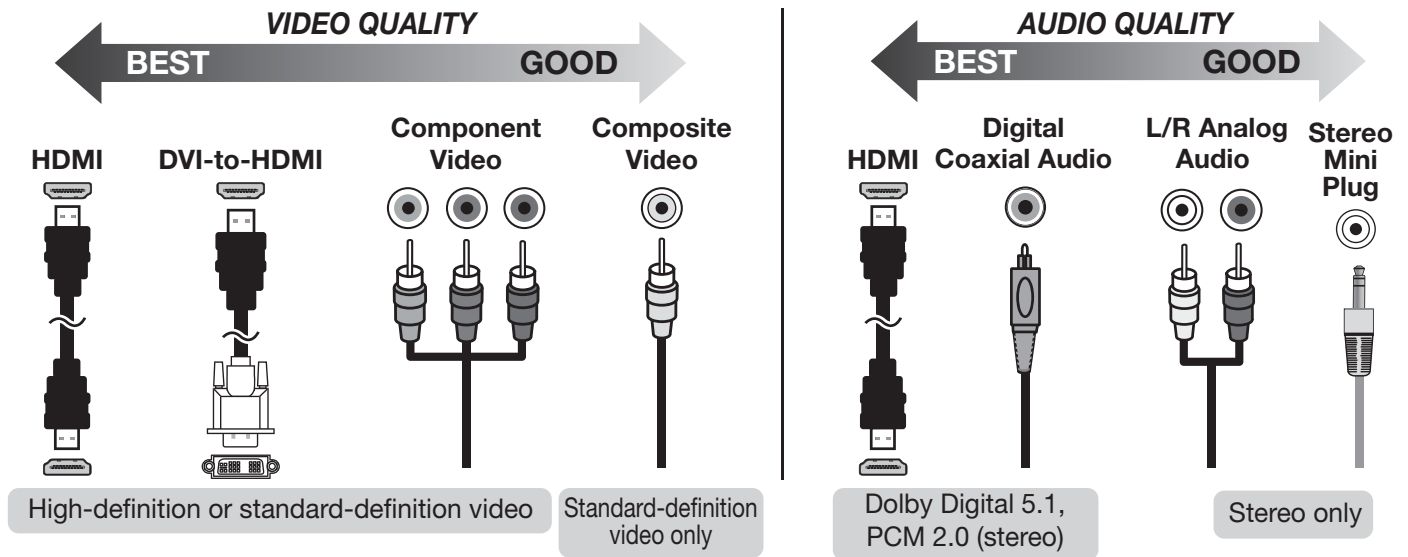
For best picture quality, route signals directly from the source device to the TV.

### Surround Sound

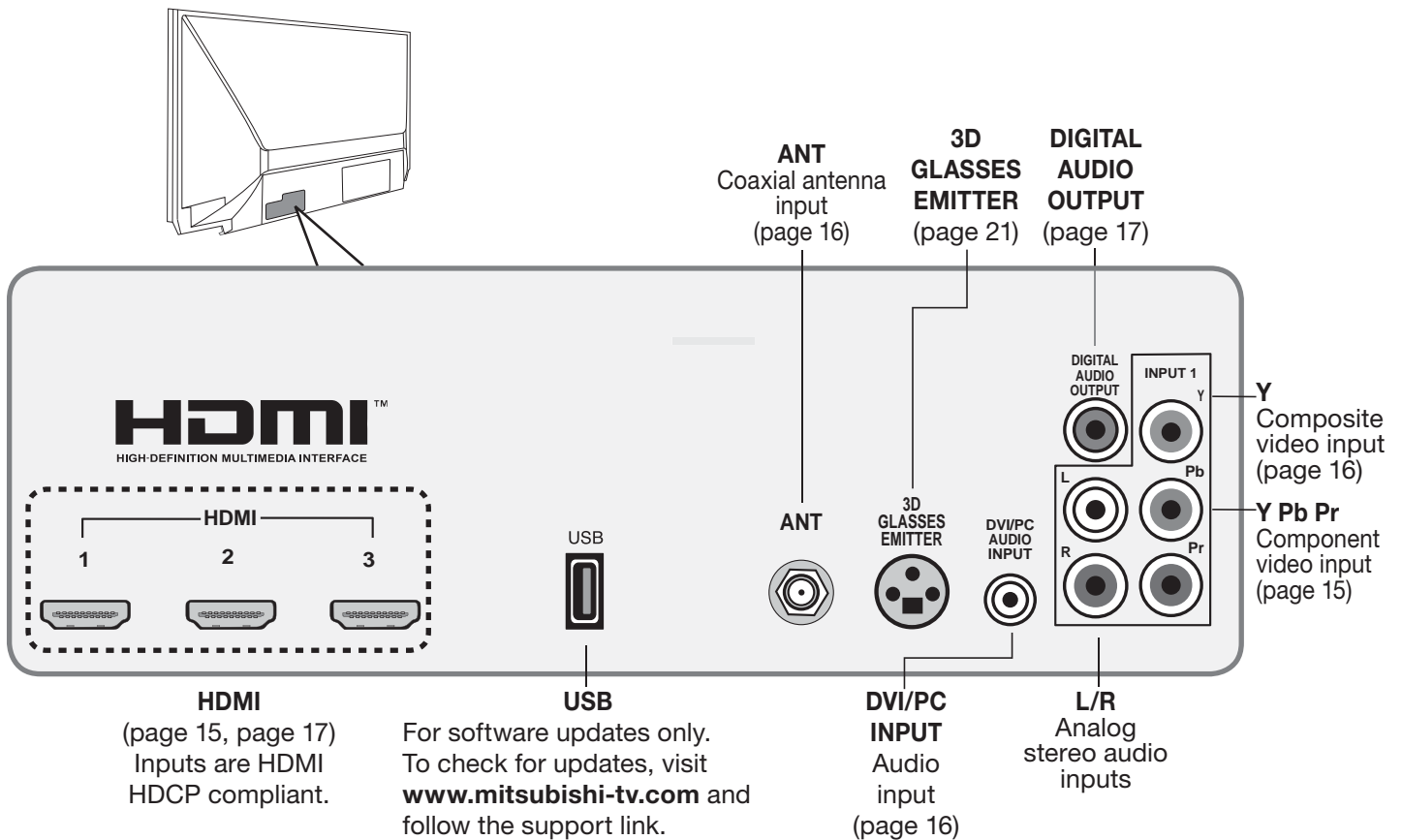
The TV accepts PCM stereo or Dolby Digital 5.1 over the **ANT** and HDMI inputs and passes the audio out on the **DIGITAL AUDIO OUTPUT** jack.

**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



## 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

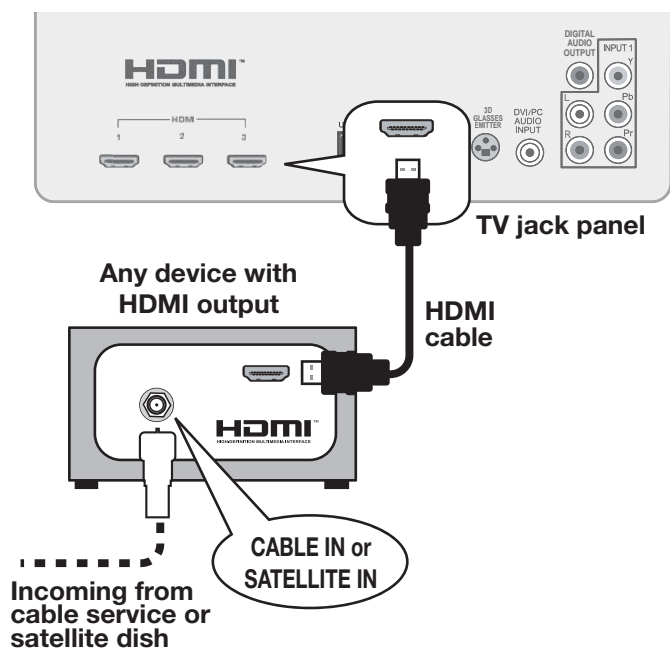
Required: HDMI cable.

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

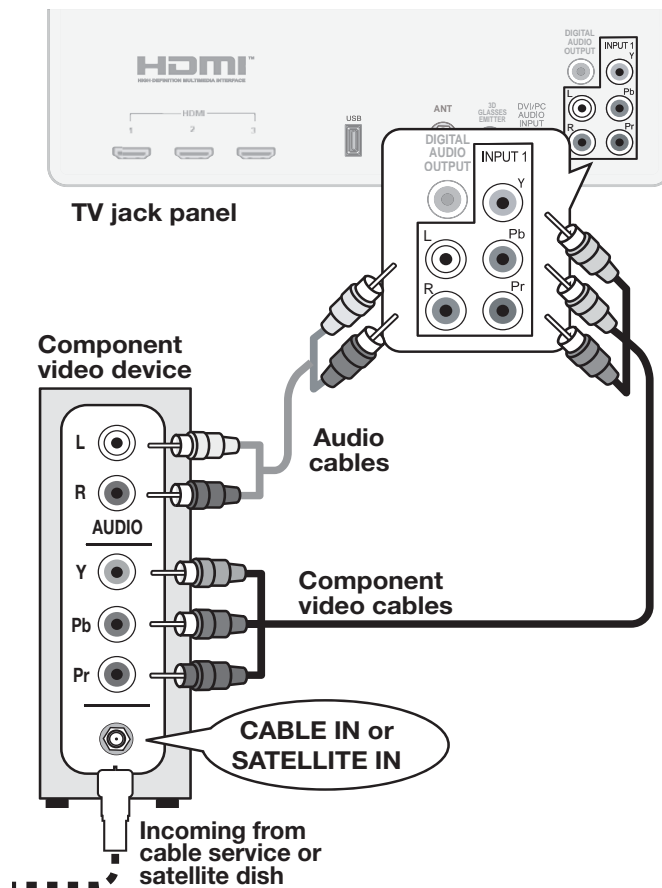
If your source device has an HDMI output, use the connections for an HDMI device described on this page instead of component video.

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:**

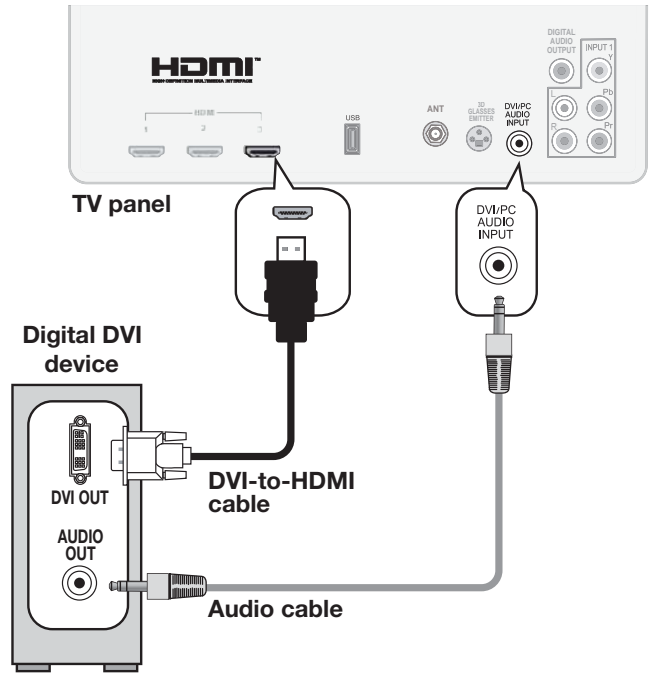
- This connection can carry high-definition video signals.
- The HDMI connection supports copy protection (HDCP).

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

**Required:**

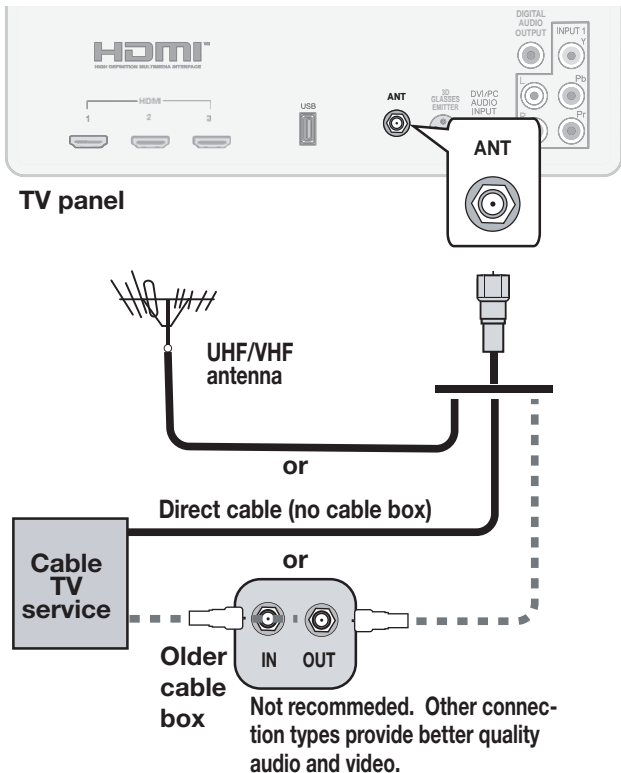
- Analog audio cable with stereo mini-plug
- DVI-to-HDMI cable or DVI/HDMI adapter and HDMI cable

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.



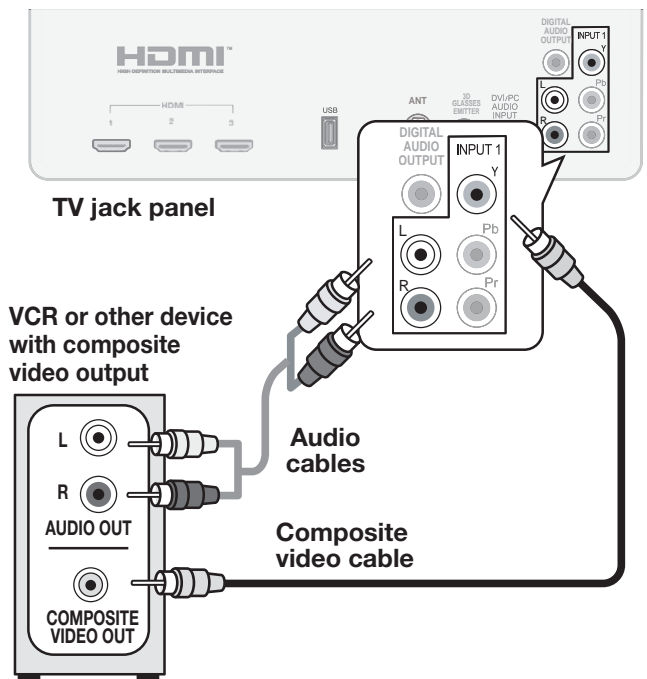
### Composite Video Device

#### 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

Required:

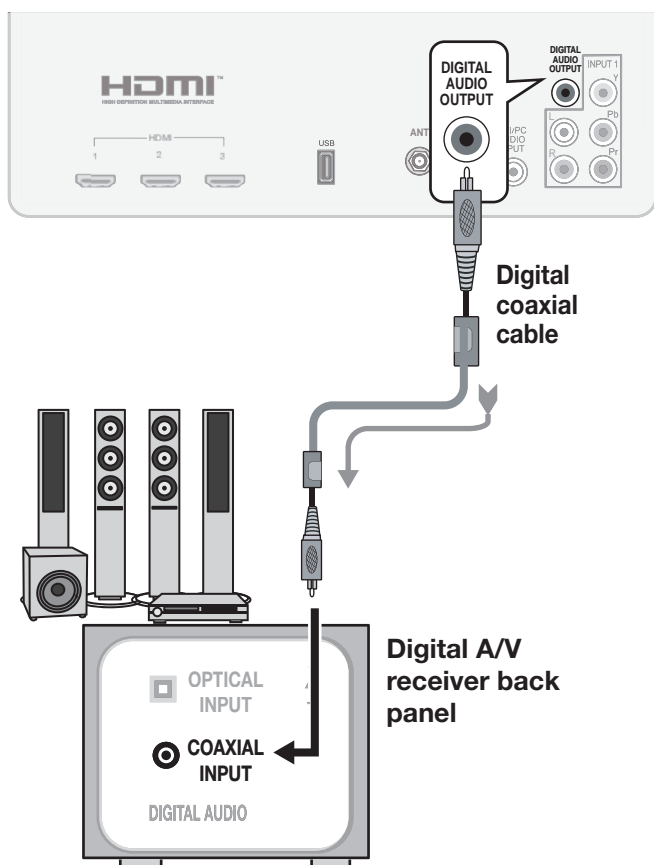
Digital coaxial audio cable

To send audio from TV channels received on the **ANT** input or from devices connected directly to the TV, you must use this connection.

The TV makes all incoming audio available as an output in digital format on the **DIGITAL AUDIO OUTPUT** jack:

- Analog incoming audio is available as output in digital stereo format.
- Digital incoming audio is available as digital audio.

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..

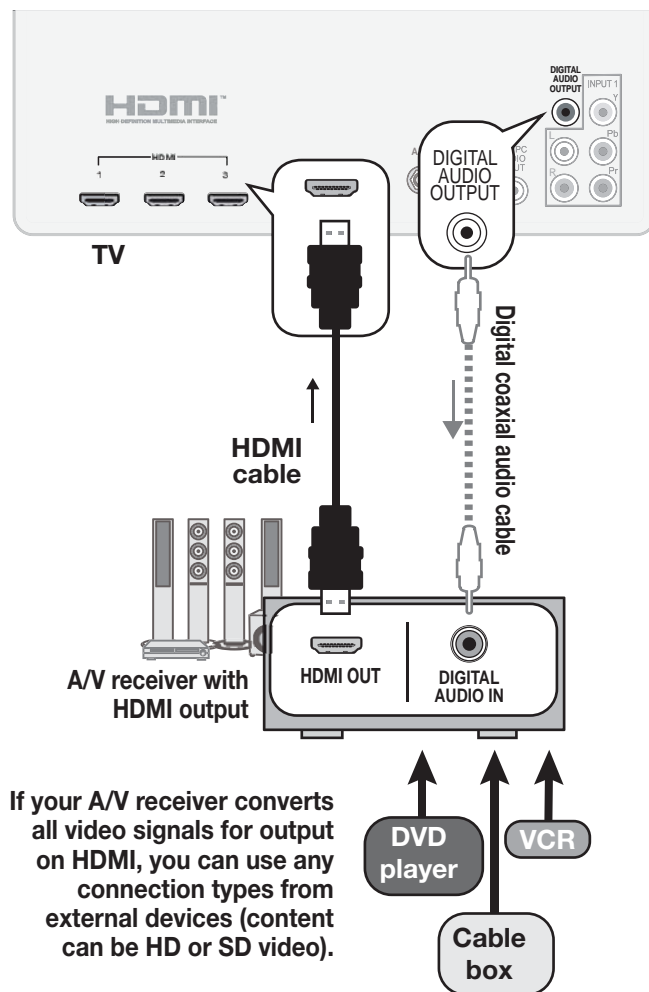
## A/V Receiver with HDMI Output

Required: One 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.



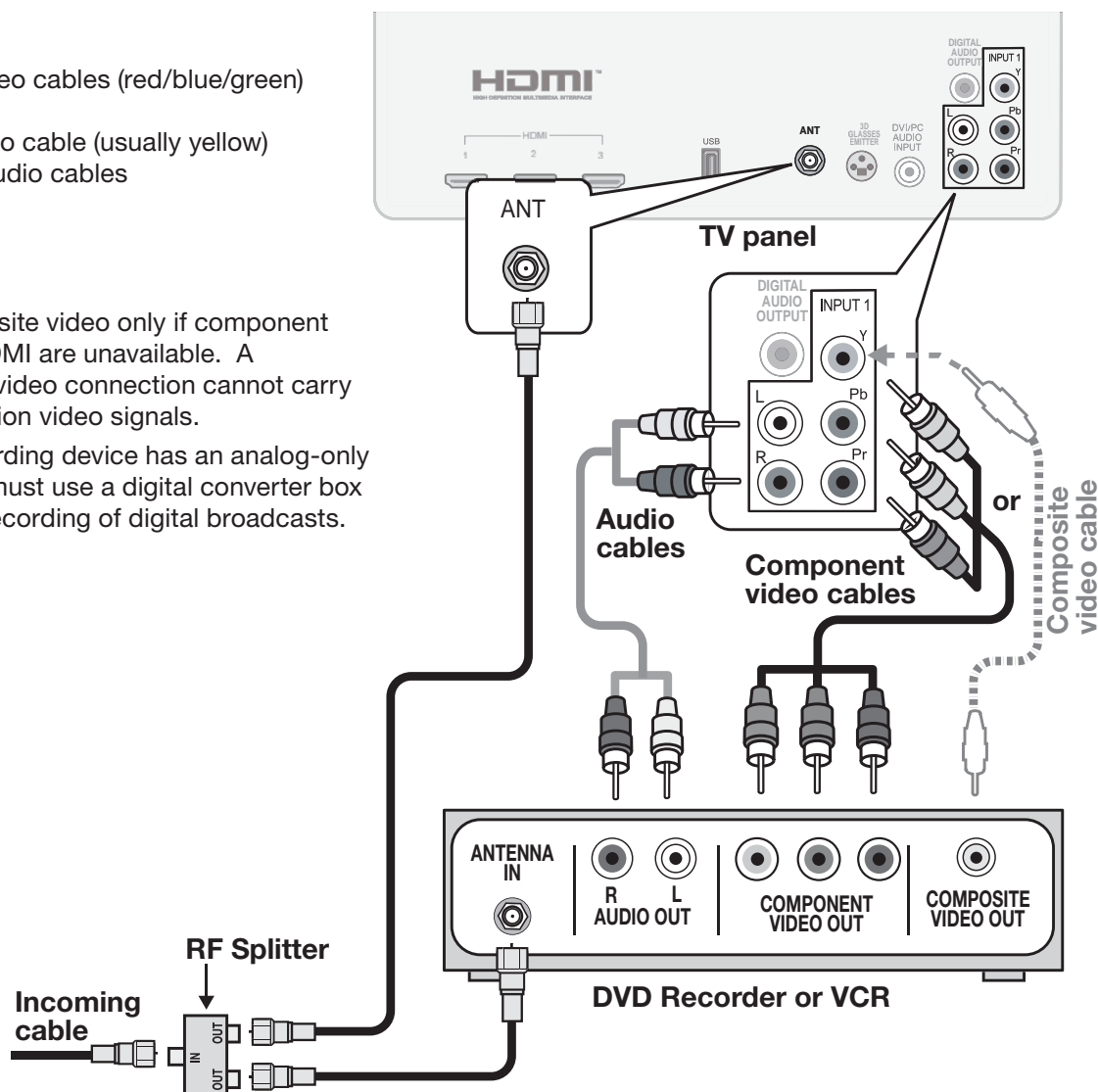
## VCR or DVD Recorder to an Antenna or Wall Outlet Cable

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:**

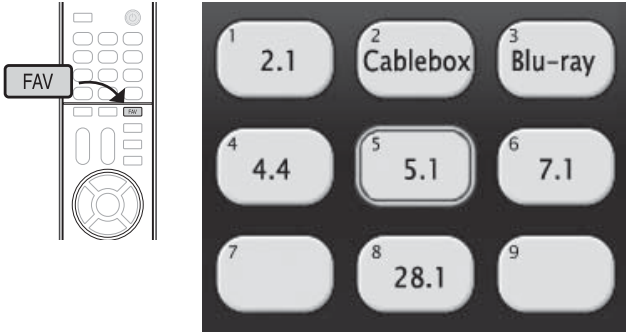
- Use composite video only if component video or HDMI are unavailable. A composite video connection cannot carry high-definition video signals.
- If your recording device has an analog-only tuner, you must use a digital converter box to enable recording of digital broadcasts.



# 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**.

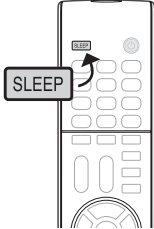
**Tuning**

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

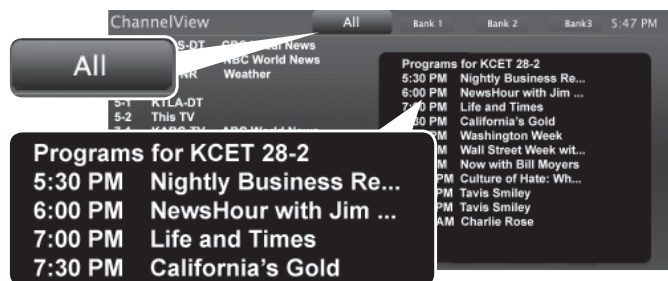
ChannelView displays program descriptions sent by broadcasters. This information may be unavailable in some areas.

### 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 correct ChannelView listings. Use the **Setup > Clock** menu.

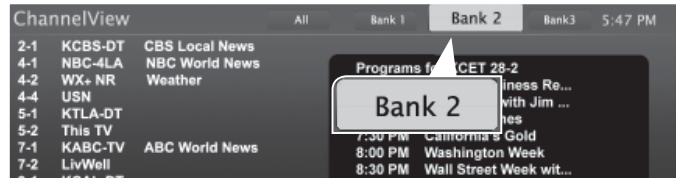


ChannelView "All" tab. Programs are listed on the right.

### 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>1. Press <b>▶</b> to move into the program area.</li> <li>2. 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.

## 3D Video

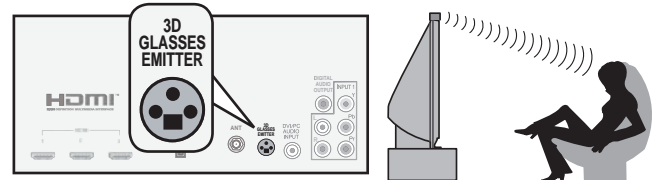
To display 3D content, your Mitsubishi TV requires:

- Active-shutter 3D glasses compatible with any one of the following:
  - A matching external synchronization emitter connected to the TV's back panel
  - DLP link
- A compatible 3D source device connected to the TV via HDMI 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)

## Initial Setup

1. If your 3D glasses came with a synchronization emitter, connect the emitter 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 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.

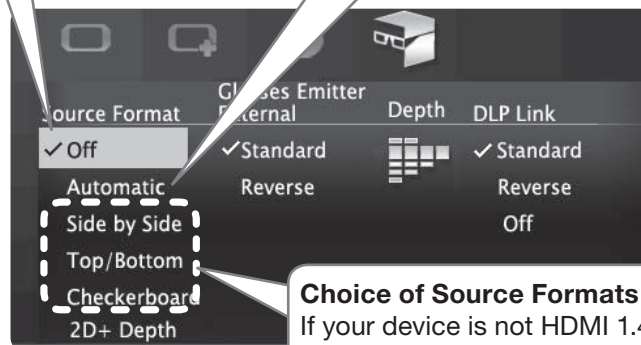
### Off

- 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.

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



### Choice of Source Formats

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

## 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**.
2. Press **MENU** and select the **Picture > 3D Mode** menu.
3. If using DLP Link glasses, select **DLP Link** setting **Standard**. Otherwise, leave **DLP Link** set to **Off**.
4. 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)



5. Press **EXIT** to close the menu.

6. 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 your glasses type and press **ENTER** to add a check.
7. 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 Emitter Off Setting</b>	The <b>Off</b> setting disables output from the 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. Adjust the effect using the <b>Depth</b> setting. 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 still 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.
- The **FORMAT** key is disabled while receiving a 3D signal.

## 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, and (2) Active Shutter 3D glasses with matching synchronization emitter 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)

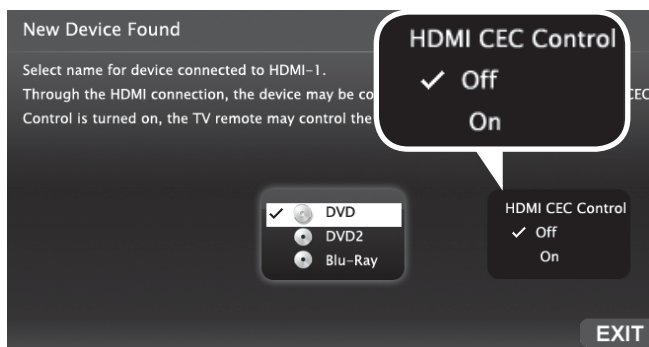
### Auto Input Sensing for Most Devices

When you first connect a device, the TV will:

- Detect the connected device and automatically switch to it.
- Prompt you to identify the device type.
- 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

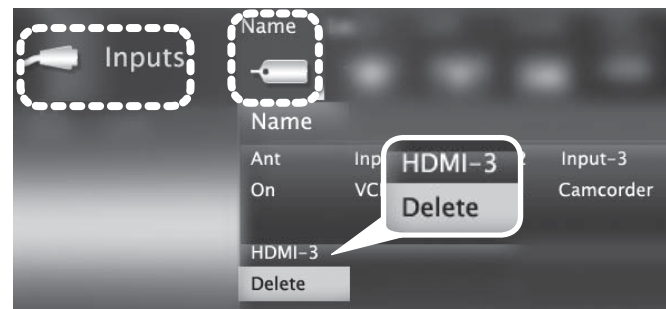
- Choose a different name for each input.
- The antenna input (**ANT**) is never detected. You can turn off the unused antenna input in the **Inputs > Name** menu.
- Change the device type displayed in the **Input Selection** menu by using the **Inputs > Name** menu.
- Some HDMI devices can automatically tell the TV what name to use in the **Input Selection** menu and you will be unable to change the name.

### 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: TV Care

### Lamp-Cartridge Replacement

**CAUTION:** If the television is on, press **POWER** to turn it off. Unplug the television and allow it to cool for at least one hour before attempting to replace the lamp cartridge.

#### Lamp

The light source for this television is a lamp, which is part of a lamp cartridge assembly. The life of the lamp can vary, based on the lamp itself, the air temperature around the TV while it is operating, the selected lamp mode, and your viewing patterns. Warmer air or poor ventilation shorten the lamp life, as does setting **Lamp Energy** to **Bright** and turning the television on and off frequently.

**Mitsubishi warrants the lamp for one (1) year from the date of original TV purchase at retail.**

**The lamp cartridge assembly is designed to be replaced by the TV owner. The cost of labor for a service technician to replace the lamp is not covered by the warranty.**

#### To Order a New Lamp

##### **To Receive a Replacement Lamp Cartridge Assembly Under Warranty**

- Visit our website at [www.mitsuparts.com](http://www.mitsuparts.com).
- Call (800) 553-7278. Please have model number, serial number, and TV purchase date available.

##### **To Purchase a Replacement Lamp Cartridge Assembly After Warranty**

Visit our website at [www.mitsuparts.com](http://www.mitsuparts.com) or call (800) 553-7278. Order the following:


### Lamp Part Number 915B455011

#### Lamp-Substitution Alert


MEVSA recommends that you use only genuine Replacement Lamp Assemblies purchased directly from Mitsubishi or a Mitsubishi Authorized Dealer or Mitsubishi Authorized Service Center. MEVSA advises that replacement lamps obtained separately from the Lamp Cartridge and/or Lamp Assemblies obtained from unauthorized sellers may be incorrect for your television, may not fit or perform properly and may even damage your television. MEVSA can not be responsible for the performance, reliability or safety of any replacement lamps that are obtained from unauthorized sources.

### WARNING


- Do not remove the lamp cartridge immediately after turning off the television. You may get burned because the lamp is very hot. Allow the television to cool for at least one hour before replacing the lamp cartridge.
- Do not remove the lamp cartridge except when replacing it. Careless treatment can result in injury or fire.
- Do not touch the lamp glass element. It may be very hot and break, causing injuries or burns.
- Be sure not to insert any metal or flammable object into the lamp cartridge opening, as it may cause fire or electrical shock. If a foreign object is inserted into the opening, unplug the AC cord of the TV and contact your dealer for service.
- Install the lamp cartridge securely. Failure to do so may cause a fire.
- Do not touch the lamp glass elements. Oils from your fingers may cause premature lamp failure.

 = MERCURY

THE LAMP INSIDE THIS PRODUCT CONTAINS MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance at [www.eiae.org](http://www.eiae.org)



CAUTION



**BURN DANGER! HOT SURFACES INSIDE!**  
 Touch lamp cartridge handle only. Do not touch lamp or lamp cartridge housing. Keep lamp cartridge horizontal during removal. Do not tilt as glass may come out and cause injury. Replace lamp cartridge only with the same part number 915B455011.

**WARNING**

THE ACCESS PANEL IS PROVIDED WITH AN INTERLOCK TO REDUCE THE RISK OF EXCESSIVE ULTRAVIOLET RADIATION. DO NOT DEFEAT ITS PURPOSE OR ATTEMPT TO SERVICE WITHOUT REMOVING PANEL COMPLETELY.

## Appendix B: TV Care, continued

### Replacement Procedure

#### Removing the Old Lamp Cartridge

1. Turn off TV power and unplug the TV. Allow the lamp to cool for at least one hour before proceeding.
2. After the lamp has cooled, remove the cover of the lamp compartment, located on the back of the TV. Refer to figures 1 and 2. Use a #2 (medium) Phillips screwdriver to loosen the screws securing the cover. Keep the screws and cover for re-installation.
3. With a medium Phillips screwdriver, loosen the screw securing the lamp cartridge until it disengage from the mating threads. This is a captive screw and cannot be separated from the lamp cartridge.
4. Fully open the bag supplied with the replacement lamp and set the opened bag aside.
5. Gently grasp the handle of the lamp cartridge and pull the old cartridge straight out. See figure 3.

**CAUTION:** Do not tilt or rotate the cartridge, as small glass fragments may fall out.

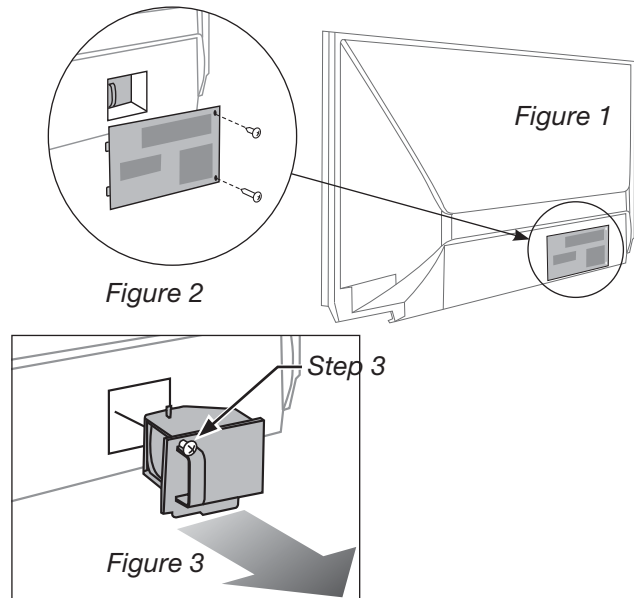
6. Without tilting or putting down the lamp cartridge, insert it into the opened bag. Close the bag while being careful not to let any glass particles fall out.

#### Installing the New Lamp Cartridge

1. **Do not touch** the glass parts of the new lamp cartridge. Insert the new cartridge into the TV in the same orientation as the old cartridge. Push on the cartridge housing until it is fully seated.
2. Gently tighten the lamp screw with the screwdriver. **AVOID OVERTIGHTENING!**
3. Replace the plastic cover and retaining screws.
4. **WASH YOUR HANDS THOROUGHLY, AS THIS LAMP CONTAINS MERCURY.**

#### Disposal of the Old Lamp Cartridge

Contact your local authorities or the Electronic Industries Alliance at [www.eiae.org](http://www.eiae.org) for lamp-disposal or recycling instructions. Do not dispose of the old lamp with common trash.



**Use only replacement lamp part number 915B455011.**

## Appendix B: TV Care, continued

### Cleaning Recommendations

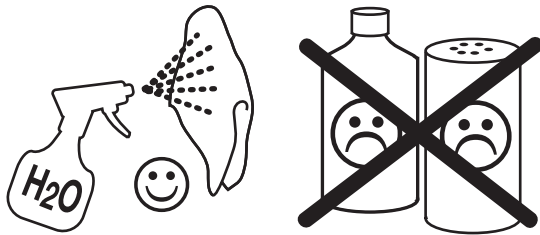
Normally, light dusting with a dry, non-scratching duster will keep your TV clean. If cleaning beyond this is needed, please use the following guidelines:

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.

### Care of the Remote Control

#### Remote Control Tips

- For longer life, use alkaline batteries.
- Do not mix old and new batteries.
- Be within 20 feet of the equipment.
- Do not press two or more keys at the same time unless instructed to do so.
- Do not allow the unit to get wet or become heated.
- Keep the unit out of direct sunlight.
- Avoid dropping on hard surfaces.
- Do not use harsh chemicals to clean. Use only a soft, lightly moistened cloth.

#### Low-Battery Indicator

If you press a key and the power key mode indicator blinks five times, replace the remote control's batteries.

## Appendix C: 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.

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>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, 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> .
<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.	
<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.

## Appendix C: Troubleshooting, continued

Reset Name	When to Use	How to Use	Resulting Action
<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 (800) 332-2119.

- DO NOT adjust any controls other than those described in this Owner's Guide or the on-line supplemental 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 (800) 332-2119.
  - E-mail: [TVSupport@mevsa.com](mailto:TVSupport@mevsa.com)
  - Website: [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com)

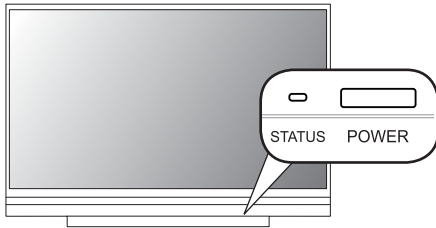
## Appendix C: Troubleshooting, continued

### 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> </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>

## Appendix C: Troubleshooting, continued

### Front-Panel STATUS 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 ⦿	<b>TV just powered off and lamp is cooling.</b> Sixty seconds after turning off TV, LED will start to blink. TV can be turned back on before blinking starts or after blinking stops, but not while the indicator is blinking. Normal operation.
Yellow ◐	<b>TV is too hot.</b> The TV will display a warning message and shut off if it overheats. <ul style="list-style-type: none"> <li>• Ambient room temperature may be too high. Turn off the TV and let the room temperature drop.</li> <li>• Clear blocked air vents. Ensure at least a four-inch clearance on all sides of the TV.</li> </ul>
Yellow ◐	<b>Lamp access door is not secure or no lamp installed.</b> TV will not operate until lamp access door is secured. See Appendix B.
Red ●	<b>Lamp failure.</b> Replace the lamp. See Appendix B.
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 1-800-332-2119 to receive Authorized Service Center information.</li> </ul> <p>You may be asked to count how many times the LED flashes each color to aid in troubleshooting.</p>

# Mitsubishi TV Software

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Version 2, June 1991

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**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 DLP Projection Television uses a single DLP chip to create the screen image. This technology creates the image using small dots, or picture elements (pixels). Your DLP Projection 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 the 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(800) 332-2119**

d. To obtain a replacement lamp, order the lamp directly from the MEVSA Parts Department at (800) 553-7278.

**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, 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.

7. In the event of any dispute under this limited warranty, jurisdiction and venue for resolving that dispute will be in the state where the television was purchased and the laws of such state will govern.



MITSUBISHI ELECTRIC VISUAL SOLUTIONS AMERICA, INC.  
9351 Jeronimo Road  
Irvine, CA 92618-1904

## Mitsubishi Home-Cinema Television Limited Warranty (Canada only)

**This limited warranty is valid only for products purchased, used and serviced in Canada. MITSUBISHI ELECTRIC VISUAL SOLUTIONS AMERICA, INC. ("MEVSA") warrants as follows to the original purchaser of this television from an authorized MITSUBISHI Audio/Video Dealer, should it prove defective by reason of against defects arising from improper workmanship and/or material:**

**a. Parts.** The lenticular (i.e. front picture) screen is warranted against defects in materials and workmanship for a period of thirty (30) days from the date of the original purchase at retail. The lamp and all other parts (except any software incorporated into this television) 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. 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. 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 it proves defective. For certain items that are designed to be replaced by the consumer, including (but not limited to) some Embedded Software and Lamps, 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 DLP Projection Television uses a single DLP chip to create the screen image. This technology creates the image using small dots, or picture elements (pixels). Your DLP Projection 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 or by calling MEVSA at 800-332-2119.

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.

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**For assistance call 1(800) 332-2119**

## 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, 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 Canada. 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 jurisdictions 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 province to province.



MITSUBISHI ELECTRIC VISUAL SOLUTIONS AMERICA, INC.  
9351 Jeronimo Road  
Irvine, CA 92618  
[www.Mitsubishi-tv.com](http://www.Mitsubishi-tv.com)

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ChannelView™, Easy Connect™, Plush 1080p®, are trademarks of Mitsubishi Electric Visual Solutions America, Inc.

**For assistance call 1(800) 332-2119**



**Website:**  
[www.mitsubishi-tv.com](http://www.mitsubishi-tv.com)

**E-mail:**  
[TVSupport@mevsa.com](mailto:TVSupport@mevsa.com)

**Call Consumer Relations for  
operational or connection assistance at  
800-332-2119**

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

**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** \_\_\_\_\_