

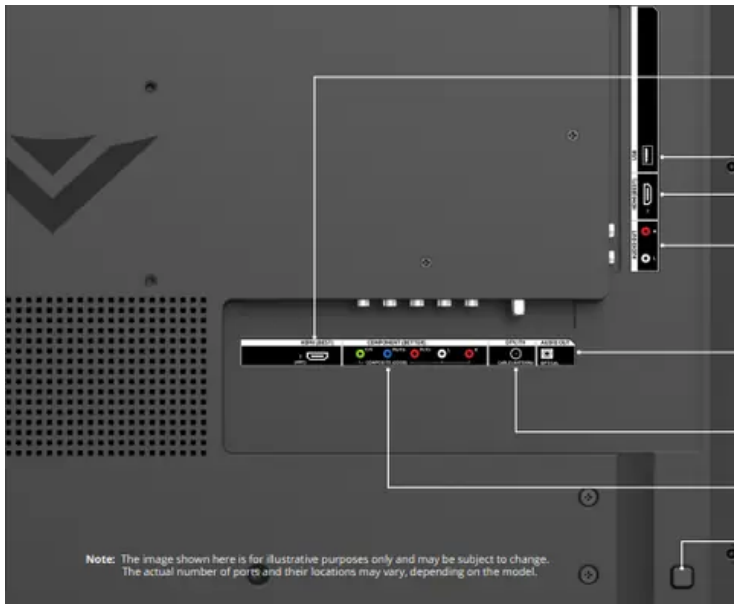
## Getting to Know Your TV



**REMOTE SENSOR & POWER INDICATOR**

When using the remote, aim it directly at this sensor.  
The power indicator flashes on when the TV turns on, then goes out after several seconds.  
To keep the power indicator on as long as the TV is on, see *Turning the Power Indicator On or Off* on page 33.

FRONT PANEL



- HDMI** - Connect an HDMI device.
- USB** - Connect a USB thumb drive to view photo.
- HDMI** - Connect an HDMI device.
- Stereo Audio Out** - Connect an RCA audio device, such as sound bar.
- Optical Audio Out** - Connect an optical/SPDIF audio device, such as home audio receiver.
- Coaxial** - Connect a coaxial cable from cable, satellite, or antenna.
- Component/Composite** - Connect a component or composite device.
- Power** - Press to turn on the TV, Press and hold to turn the TV off.
- Input** - Press once to access the input menu.

*Note:* The image shown here is for illustrative purposes only and may be subject to change.  
The actual number of ports and their locations may vary, depending on the model.

REAR PANEL



## USING THE REMOTE



1. Power - Turn TV on or Off.
2. Input - Change the currently displayed input.
3. Exit - Close the on-screen menu.
4. Menu - Display the on-screen menu.
5. Arrows - Navigate the on-screen menu.
6. OK / Enter - Select the highlighted option / Confirm channel or passcode entered using the number pad.
7. Back - Go to the previous on-screen menu.
8. Guide - Display the info window.
9. Volume Up/Down - Increase or decrease the loudness of the audio.
10. V Button - Displays the multimedia menu.

11. Channel Up/Down - Change the channel.
12. Mute - Turn the audio on or off.
13. Last - Return to the last viewed channel.
14. Number Pad - Manually enter a channel.
15. Wide - Change the display mode.
16. Dash - Use with number pad to manually enter a digital sub-channel. (e.g. 18-4 or 18-5)

### **Replacing the Batteries**



1. Remove the battery cover by pressing down on the arrow markings and sliding out.
2. Insert two batteries into the remote control. Make sure that the (+) and (-) symbols on the batteries match the (+) and (-) symbols inside the battery compartment.
3. Replace the battery cover.

### **Completing the First-Time Setup**

The first time you turn on the TV, the Setup App will guide you through each of the steps necessary to get your TV ready for use.

Before you begin the first-time setup:

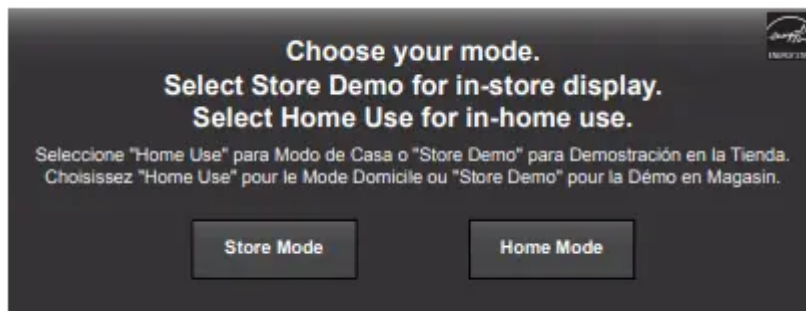
- Your TV should be installed and the power cord should be connected to an electrical outlet.
- Your devices should be connected.
- If you have a wireless network, have the wireless password ready.
- If you are connecting to your network with an Ethernet cable, connect it to the Ethernet port on the TV.

**To complete the first-time setup:**

1. Press the Power button on the remote. The TV powers on and the Setup App starts.



2. Use the Arrow buttons on the remote to highlight Home Use and press OK.



3. Use the Arrow buttons on the remote to highlight your preferred language, and then press the OK button.



4. Use the Arrow buttons on the remote to highlight your TV source and press OK.



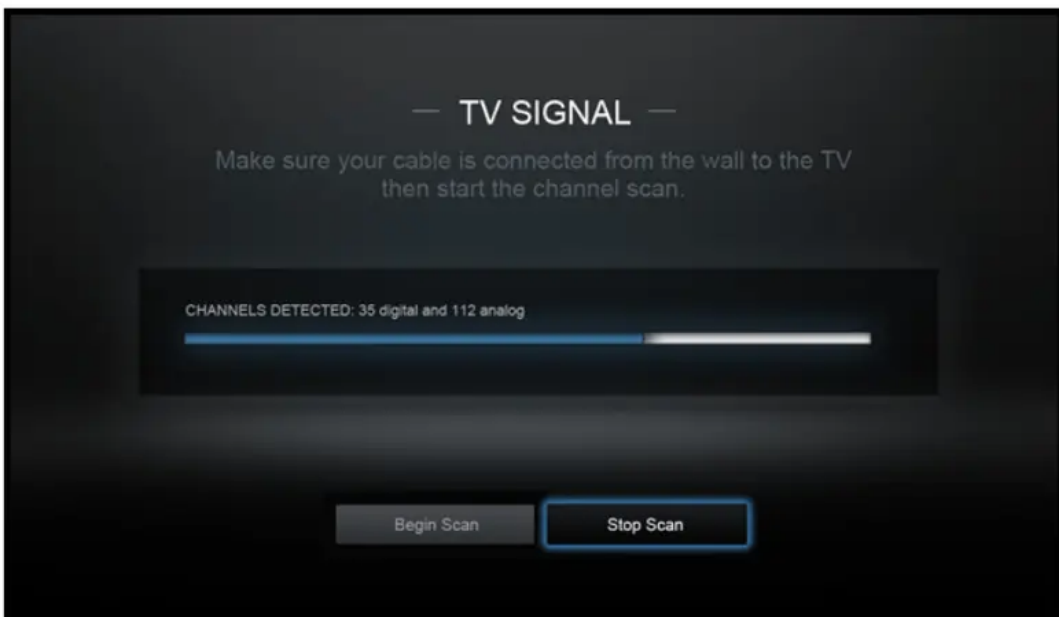
If you have cable TV, select whether you have a cable box or if you connect the TV

directly to a cable from the wall.



5. If the TV Signal channel scan screen appears, the TV will need to scan for channels, which takes several minutes.

Use the arrow buttons on the remote to highlight Begin Scan and press OK .



Otherwise, use the Arrow and OK buttons on the remote to select the input your TV source is connected to.

When you are finished, the message "Setup is complete." will appear. The First-Time

Setup is complete.



Note: Number of ports may differ by TV.

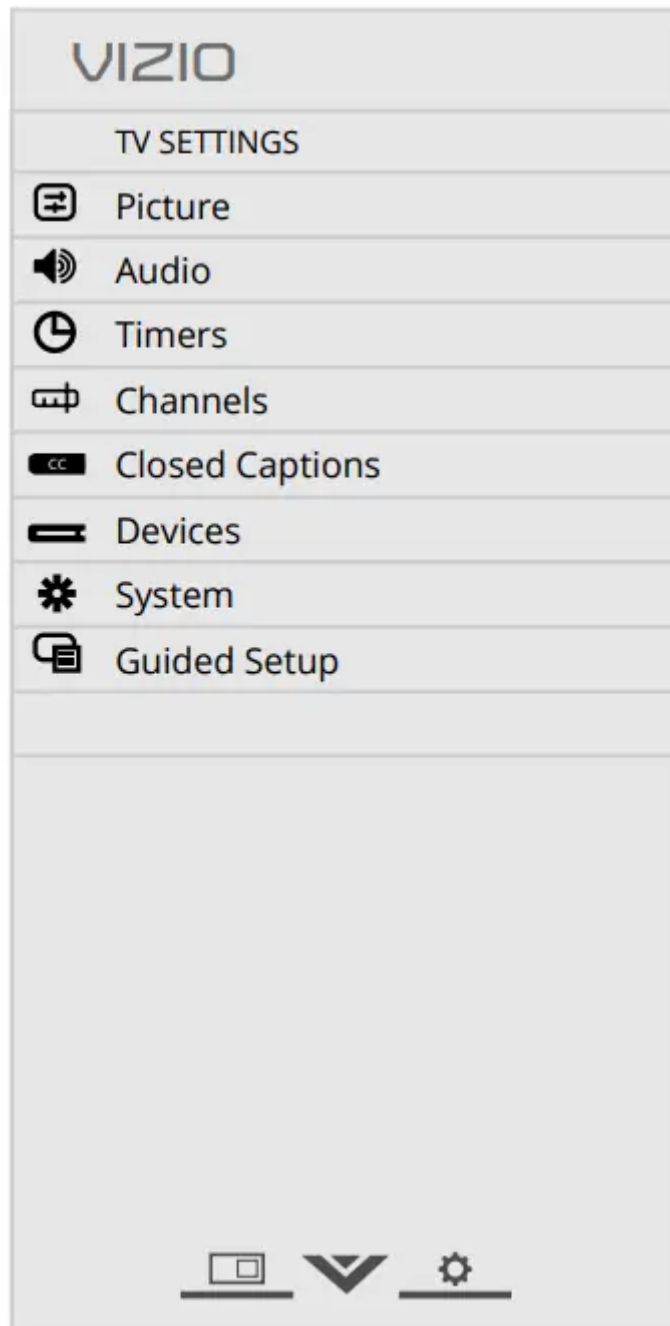
## Using the On-Screen Menu

Your TV features an easy-to-use on-screen menu.

To open the on-screen menu, press the MENU button on the remote.

From this menu, you can:

- Adjust the Picture settings
- Adjust the Audio settings
- Activate the Sleep Timer
- Adjust the Channel settings
- Set up Closed Captioning
- Name Inputs
- Adjust the TV Settings
- Access the Guided Setup



## NAVIGATING THE ON-SCREEN MENU

To open the on-screen menu, press the MENU button on the remote.

Use the Arrow buttons to highlight a menu option, and press the OK button to select that option.



**NOTE:** While navigating the on-screen menu, you can press the BACK button at any time to return to the previous menu screen. The EXIT button will close the on-screen menu.

## ADJUSTING THE PICTURE SETTINGS

Your TV display can be adjusted to suit your preferences and viewing conditions.

If you've changes to the settings for a picture mode, an asterisks appears after its name (see Saving a Custom Picture Mode on page 16).

### To adjust the picture settings:

1. Press the MENU button on the remote. The on-screen menu is displayed.

2. Use the Arrow buttons on the remote to highlight Picture and press OK. The PICTURE menu is displayed.
3. Use the Arrow buttons on the remote to highlight Picture Mode, then use the Left/Right Arrow buttons to change the picture mode:
  - Standard mode sets the picture settings to the default settings.
  - Calibrated mode sets the picture settings to values ideal for watching TV in a brightly-lit room.
  - Calibrated Dark mode sets the picture settings to values ideal for watching TV in a dark room.
  - Vivid mode sets the picture settings to values that produce a brighter, more vivid picture.
  - Game mode reduces throughput delays and optimizes the picture settings for displaying game console output.
  - Computer mode optimizes the picture settings for displaying computer output.



4. To manually change each of the picture settings, use the Up/ Down Arrow buttons on the remote to highlight that picture setting, then use the Left/Right Arrow buttons to adjust the setting:
  - Backlight - Adjusts the LED brightness to affect the overall brilliance of the picture. Backlight cannot be adjusted when starting from some picture modes.
  - Brightness - Adjusts the black level of the picture. When this setting is too low, the

picture may be too dark to distinguish details. When this setting is too high, the picture may appear faded or washed out.

- **Contrast** - Adjusts the white level of the picture. When this setting is too low, the picture may appear dark. When this setting is too high, the picture may appear faded or washed out. If the setting is too high or too low, detail may be difficult to distinguish in dark or bright areas of the picture.

- **Color** - Adjusts the intensity of the picture colors.

- **Tint** - Adjusts the hue of the picture. This setting is useful in adjusting the flesh tones in the picture. If flesh appears too orange, reduce the level of color before adjusting tint.

- **Sharpness** - Adjusts the edge sharpness of picture elements. It can be used to sharpen non-HD (high definition) content; however, it will not produce detail that does not otherwise exist.

5. When you have finished adjusting the picture settings, press the EXIT button on the remote.

## Adjusting the More Picture Settings

### To adjust the More Picture settings:

1. From the PICTURE menu, use the Arrow buttons on the remote to highlight More Picture and press OK. The MORE PICTURE menu is displayed.

2. Use the Arrow buttons to highlight the setting you wish to adjust, then press Left/Right Arrow buttons to change the setting:

- **Color Temperature** - See Adjusting the Color Temperature on page 15..

- **Black Detail** - Adjusts the average brightness of the picture to compensate for large areas of brightness. Select Off, Low, Medium, or High.

- **Backlight Control** - Dynamically improves the contrast ratio of the picture by adjusting the backlight. Select Off or On.

- **Reduce Signal Noise** - Diminishes artifacts in the image caused by the digitizing of image motion content. Select Off, Low, Medium, or High.

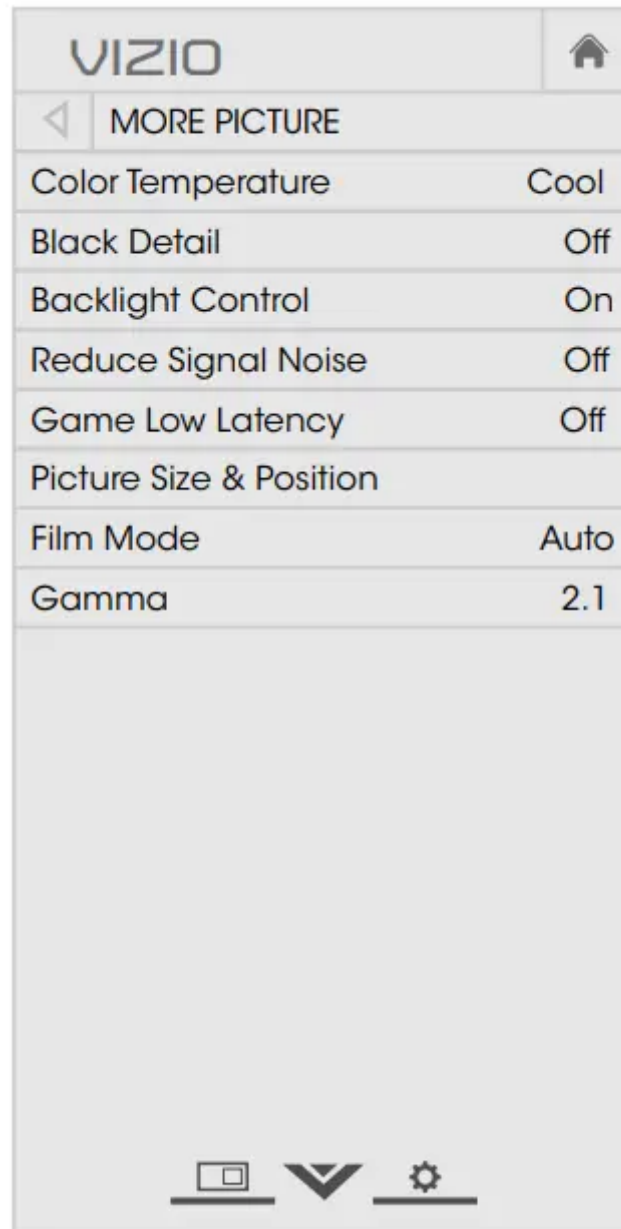
- **Game Low Latency** - Select On to reduce video delay (lag) when gaming.

- **Picture Size & Position** - Highlight Picture Size & Position and press OK. The PICTURE SIZE & POSITION menu is displayed.

- **Picture Size** Increase or decrease the vertical and horizontal size of the displayed picture. Use the Left/ Right Arrow buttons to adjust the horizontal size of the displayed picture. Use the Up/Down Arrow buttons to adjust the vertical size of the displayed picture. Press the OK button when you are finished.

- **Picture Position** Adjust the vertical and horizontal positions of the picture to ensure the image is centered and completely fills the screen. Use the Left/Right Arrow buttons to adjust the horizontal position of the displayed picture. Use the Up/Down Arrow buttons to adjust the vertical position of the displayed picture. Press the OK button when you are finished.

- **Film Mode** - Optimizes the picture for watching film. Select Auto or Off.
  - **Gamma** - Set the shape of the Gamma curve. Use lower Gamma values for bright room conditions, and higher values when it's dark.
3. When you have finished adjusting the More Picture Settings, press the EXIT button on the remote.



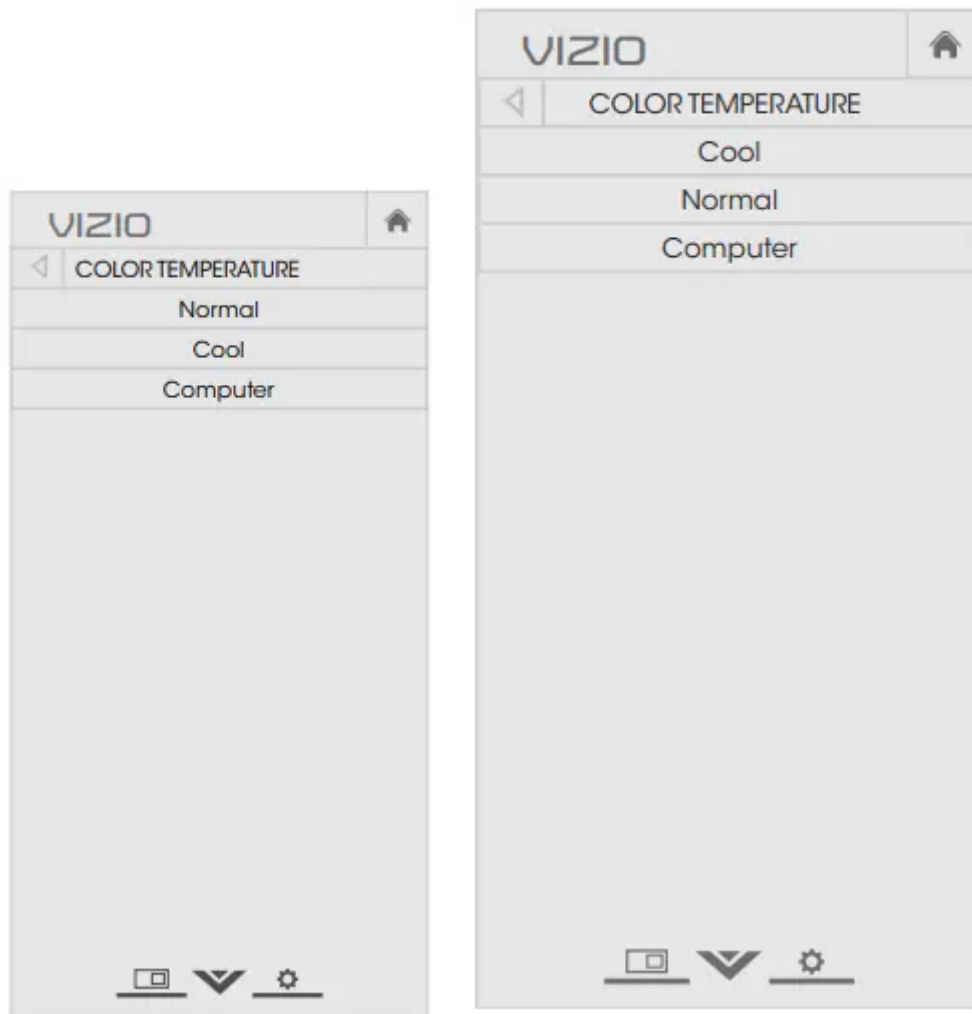
### Adjusting the Color Temperature

Adjusting the color temperature changes the white balance of the picture.

#### To adjust the color temperature:

1. From the MORE Picture menu, use the Arrow buttons to highlight Color Temperature, then press OK.

2. Use the Arrow buttons on the remote to highlight a color temperature preset and then press OK.
  - **Cool** produces a blue-hued picture.
  - **Normal** is optimized for television viewing.
  - **Computer** optimizes the picture for use as a PC monitor.
3. When you have finished adjusting the color temperature, press the EXIT button on the remote.



### Adjusting the Picture Mode Edit Settings

Picture Mode Edit Settings allow you to make precise adjustments to the picture and to create picture modes to save groups of picture settings.

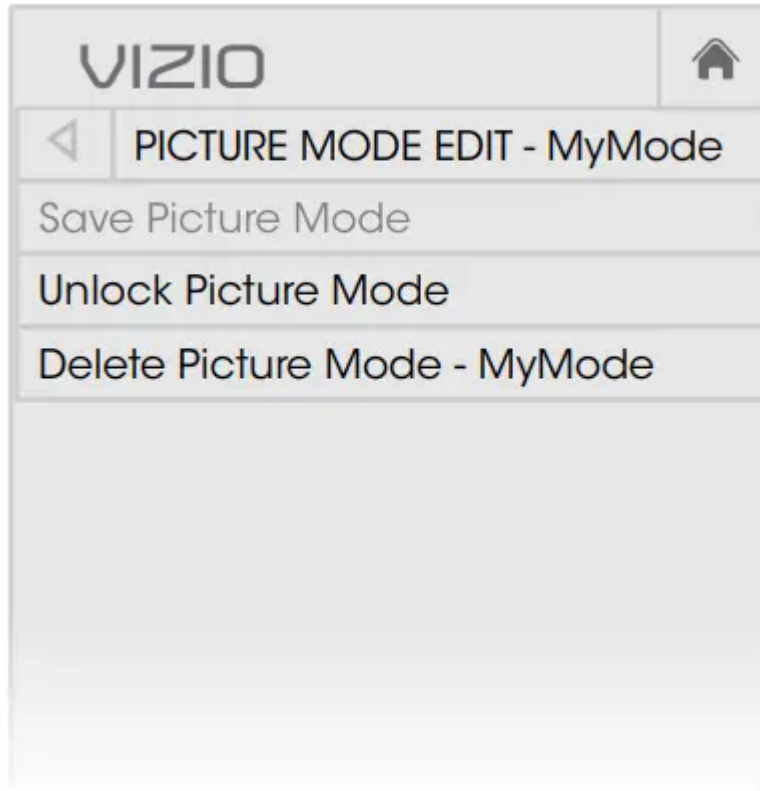
**To adjust the Picture Mode Edit settings:**

1. From the PICTURE menu, use the Arrow buttons to highlight More Picture, and then press the OK button. The MORE PICTURE menu is displayed.



2. Use the Arrow buttons to highlight the setting you wish to adjust, then press OK to change the setting:
  - **Save Picture Mode**- Saves the settings for a custom picture mode.
  - **Lock Picture Mode**- Prevent changes to custom picture modes.
  - **Unlock Picture Mode** - Allow changes to custom picture modes. (Available after a custom picture mode is locked)
  - **Delete Picture Mode** - Delete a custom picture mode. Inputs assigned to that custom picture mode will be set to Calibrated picture mode. (Available after a custom picture mode is saved)

- **Reset Picture Mode** - Reset the picture mode settings to factory default values.



### **Saving a Custom Picture Mode**

Custom picture modes allow you to save a group of custom settings for various viewing conditions and video sources.

- Changes made while on any preset picture mode will add an asterisk on the top right corner of the preset mode.
- The custom picture mode is not automatically saved.

To save a custom picture mode:

1. From the PICTURE MODE EDIT menu, use the Arrow buttons to highlight Save Picture Mode, and then press OK. The SAVE PICTURE MODE menu is displayed.
2. Use either the on-screen keyboard or keyboard on your remote control to enter a name for your custom picture mode.
3. Highlight Save and press OK.
4. Press the EXIT button to exit the menu screens.



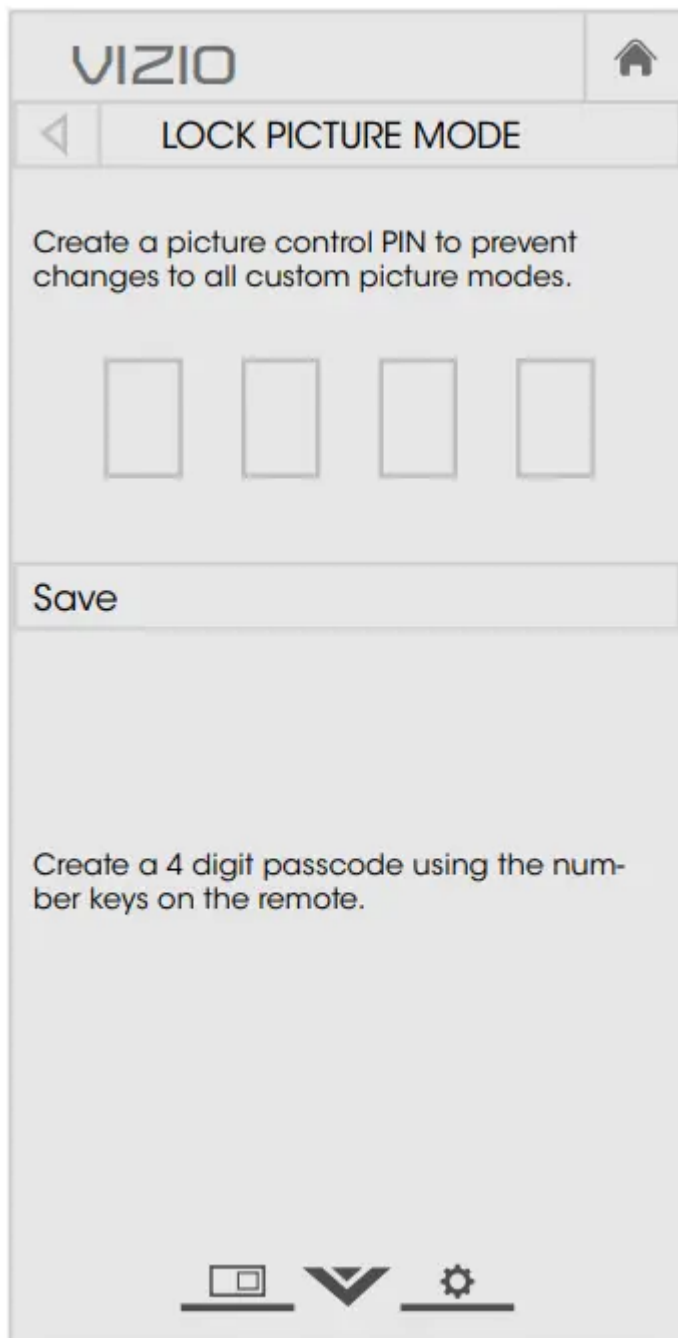
### Locking and Unlocking the Custom Picture Mode

Custom picture modes can be locked with a unique PIN to prevent accidental changes to their settings.

#### To lock all custom picture modes:

1. From the PICTURE MODE EDIT menu, use the Arrow buttons to highlight Lock Picture Mode, and then press OK. The LOCK PICTURE MODE menu is displayed.
2. Use the Number Pad on your remote to enter a unique 4-digit PIN.
3. Highlight Save and then press the OK button.

4. Press the EXIT button to exit the menu screens.



**To unlock all custom picture modes:**

1. From the PICTURE MODE EDIT menu, use the Arrow buttons to highlight Unlock Picture Mode, and then press OK. The UNLOCK PICTURE MODE menu is displayed.
2. Use the Number Pad on your remote to enter your 4-digit PIN.
3. Make any desired changes to the picture modes.
4. Relock the picture modes, if desired. You must create a new 4-digit PIN.
5. Press the EXIT button to exit the menu screens.

**Deleting a Custom Picture Mode**



Custom picture modes that are no longer needed can be deleted.

**NOTE:** Inputs assigned to a deleted custom picture mode become assigned to the Calibrated picture mode.

**To delete a custom picture mode:**

1. From the PICTURE MODE EDIT menu, use the Arrow buttons to highlight Delete Picture Mode, and then press OK. The DELETE PICTURE MODE window is displayed



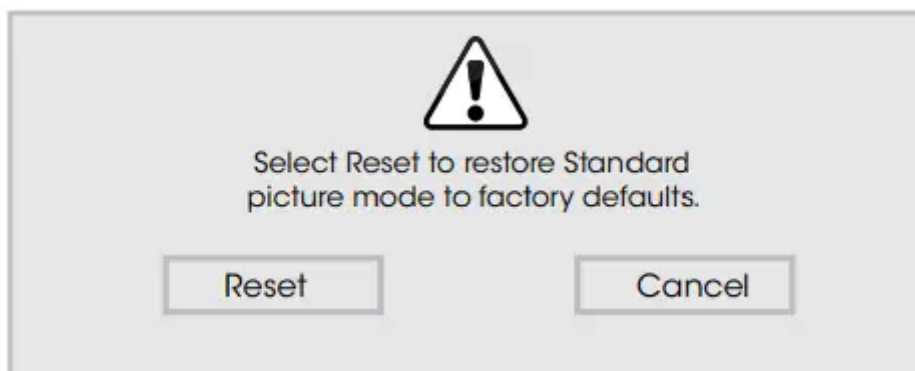
2. Use the Left/Right Arrow buttons to highlight DELETE and press OK.
3. Press the EXIT button to exit the menu screens.

**Resetting a Picture Mode**

A preset picture mode that has been edited can be restored to the factory default settings.

To reset a customized preset picture mode:

1. From the PICTURE MODE EDIT menu, use the Arrow buttons to highlight Reset Picture Mode, and then press OK. The RESET PICTURE MODE window is displayed.
2. Use the Left/Right Arrow buttons to highlight Reset and press OK .
3. Press the EXIT button to exit the menu screens.



**Adjusting the Color Tuner Settings**

The Color Tuner settings allow you to adjust the HSB color and 11 point white balance, turn color channels off for testing, and display color bar, flat, and ramp test patterns.



The Color Tuner, 11 Point White Balance, and test patterns allow technicians to manually calibrate the TV. Calibration requires specialized training, an input with precisely set colors, and a specialized light meter.

To adjust the HSB color settings:

1. From the COLOR CALIBRATION menu, use the Arrow buttons to highlight Color Tuner, and then press OK. The Color Tuner menu is displayed.

Color Tuner						
	Red	Green	Blue	Cyan	Magenta	Yellow
Hue	0	0	0	0	25	-14
Saturation	-1	5	-4	0	-2	0
Brightness	-24	0	-22	0	0	0
Offset	0	0	0			
Gain	0	0	0			

2. Use the Arrow buttons on the remote to highlight the Hue, Saturation, Brightness, Offset, or Gain of the color you wish to adjust. Press the OK button.
3. Use the Left/Right Arrow buttons to adjust the value. When you are finished press the OK button to save the setting.
4. When you are finished adjusting the color tuner settings, press the EXIT button.

To turn color channels off and on:

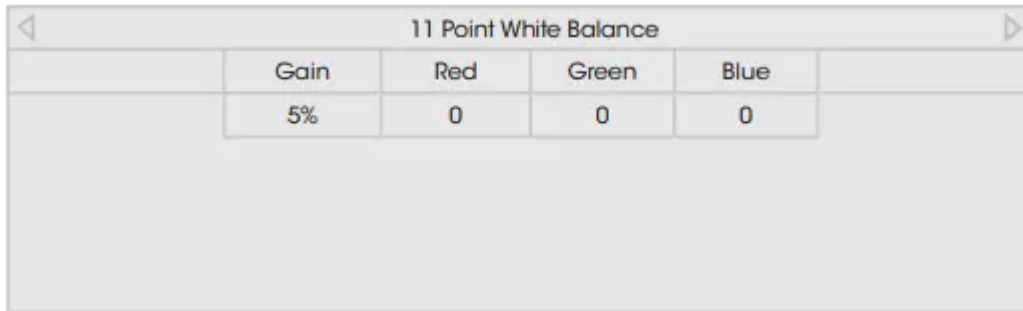
1. From the COLOR CALIBRATION menu, use the Arrow buttons to highlight Color Tuner, and then press OK. The Color Tuner menu is displayed.

Color Tuner						
	Red	Green	Blue	Cyan	Magenta	Yellow
Hue	0	0	0	0	25	-14
Saturation	-1	5	-4	0	-2	0
Brightness	-24	0	-22	0	0	0
Offset	0	0	0			
Gain	0	0	0			

2. Use the Arrow buttons on the remote to highlight Red, Green, or Blue.
3. Press the OK button to turn the color channel off or on. An X appears over a color channel that has been turned off.
4. Use the Arrow buttons to highlight another color channel to turn off or on. Only two color channels can be turned off at the same time.
5. When you are finished with the color channels, press the EXIT button.

To adjust the 11 Point White Balance settings:

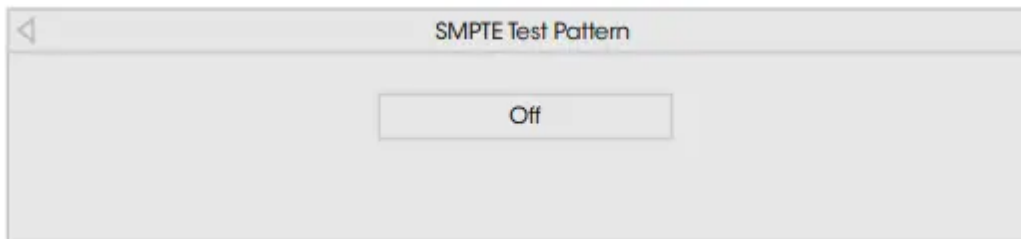
1. From the Color Tuner menu, use the Arrow buttons to highlight Color Tuner, and then press the Left/Right Arrow buttons until the 11 Point White Balance menu is displayed.



2. Use the Arrow buttons on the remote to highlight the Gain and Color values you wish to adjust. Press the OK button and use the Left/Right Arrow buttons to adjust the value. When you are finished, press the OK button to save the setting.
3. When you are finished, press the EXIT button.

To show or hide the SMPTE Test Pattern:

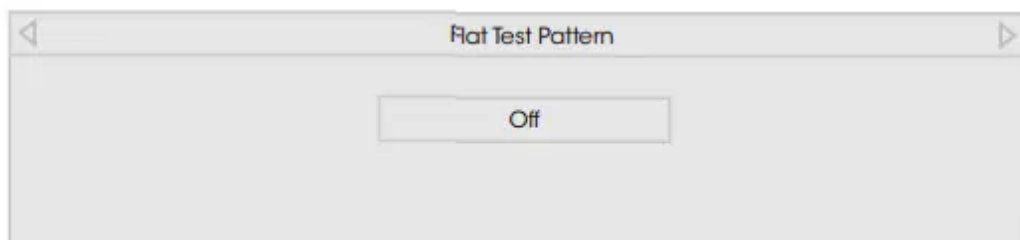
1. From the Color Tuner menu, use the Arrow buttons to highlight Color Tuner, and then press the Left/Right Arrow buttons until the SMPTE Test Pattern menu is displayed.



2. Use the Arrow buttons on the remote to highlight Off. Use the Left/Right Arrow buttons to highlight On to show the SMPTE Pattern. —or— To hide the SMPTE Test Pattern, use the Left/Right Arrow buttons to highlight Off.
3. When you are finished, press the EXIT button.

To show or hide the Flat Test Pattern:

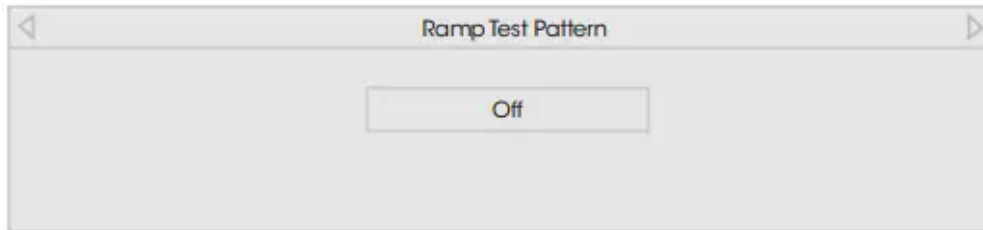
1. From the Color Tuner menu, use the Arrow buttons to highlight Color Tuner, and then press the Left/Right Arrow buttons until the Flat Test Pattern menu is displayed.



2. Use the Arrow buttons on the remote to highlight Off. Use the Left/Right Arrow buttons to select the percentage brightness for the flat test pattern. Selecting a percentage immediately shows the flat pattern at that brightness. —or— To disable the Flat Test Pattern, use the Left/Right Arrow buttons to highlight Off.
3. When you are finished, press the EXIT button.

To show or hide the Ramp Test Pattern:

1. From the Color Tuner menu, use the Arrow buttons to highlight Color Tuner, and then press the Left/Right Arrow buttons until the Ramp Test Pattern menu is displayed.



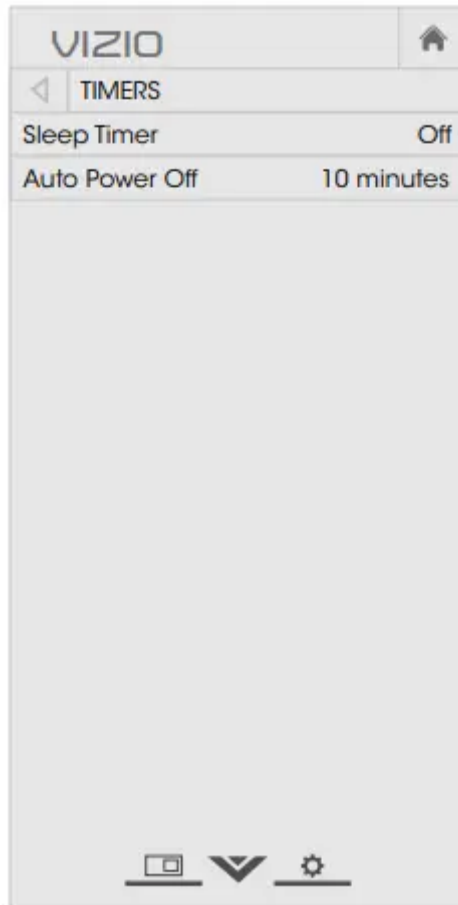
2. Use the Arrow buttons on the remote to highlight Off. Use the Left/Right Arrow buttons to select the color for the ramp test pattern. Selecting a color immediately shows that color ramp. —or— To hide the Ramp Test Pattern, use the Left/Right Arrow buttons to highlight Off.
3. When you are finished, press the EXIT button.

## SETTING TIMERS

### Setting the Sleep Timer

When activated, the TV's sleep timer will turn the TV off after a set period of time.

1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight Timers and press OK. The TIMERS menu is displayed.
3. Use the Left/Right Arrow buttons on the remote to highlight the period of time after which you want the TV to go to sleep: 30, 60, 90, 120, or 180 minutes. If you don't want the sleep timer to activate, change the setting to Off.
4. When you have finished setting the sleep timer, press the EXIT button on the remote.



### Setting the Auto Power Off Feature

To help save energy, your TV is set by default to turn off after 10 minutes without a video or audio signal. This feature can be deactivated.

#### To set the Auto Power Off feature:

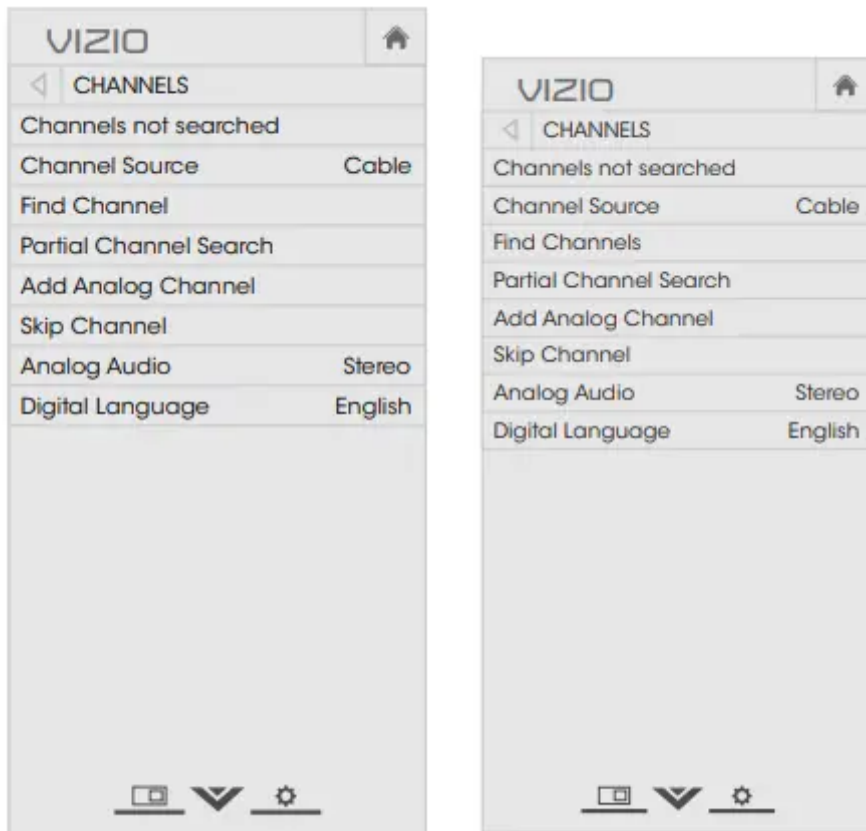
1. From the TIMERS menu, use the Up/Down Arrow buttons on the remote to highlight Auto Power Off.
2. Use the Left/Right Arrow buttons on the remote to change whether the TV will turn off. If you don't want the TV to turn off when there is no signal, change the setting to Off. Otherwise, select 10 minutes.
3. When you have finished setting the auto power off time, press the EXIT button on the remote.

## SETTING UP CHANNELS

You can use the TV's Tuner menu to:

- Select a channel source
- Find channels
- Perform a partial channel scan

- Manually add channels
- Select channels to skip



### Selecting a Channel Source

Select the type of tuner input you will be using. You can select either Antenna (Over-the-air) or Cable (Out-of-the-wall) connections.

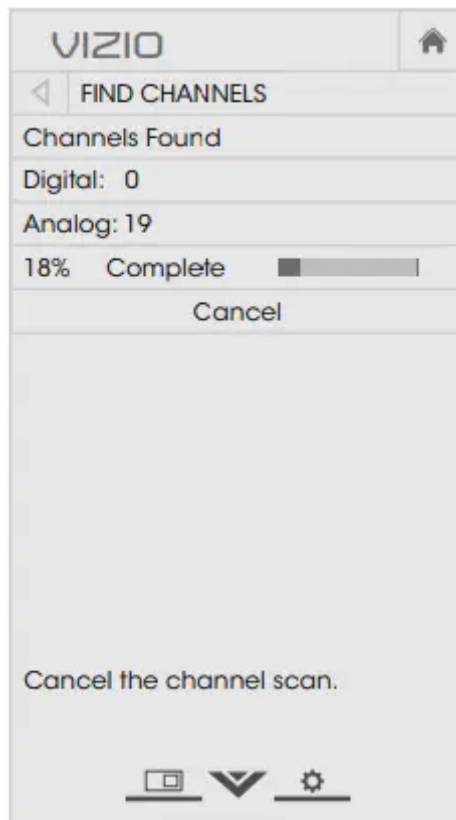
1. From the CHANNELS menu, highlight Channel Source and press OK. The CHANNEL SOURCE menu displays.
2. Highlight Antenna or Cable and press OK. Press EXIT.

### Scanning for Channels

The TV may need to scan for channels before it can display programs and their associated information. A channel scan is required for free over-the-air channels (using an antenna) and cable channels from an out-of-the-wall connection (without a cable box). Moving the TV to an area with different channels requires the TV to scan for channels again.

#### To perform an Auto Channel Scan:

1. From the CHANNELS menu, highlight Find Channels, and press OK. The channel scan begins.
2. Wait until the channel scan is 100% complete. Highlight Done and press OK.
3. Press the EXIT button on the remote.



If the channel scan is cancelled, only the channels that were already discovered are saved. A new channel scan clears all saved channels.

### **Adding New Channels**

Occasionally, you may need to add a new range of channels or add a new analog channel. You can do this by using the Partial Channel Search and Add Analog Channel options. This is quicker than scanning all possible channels.

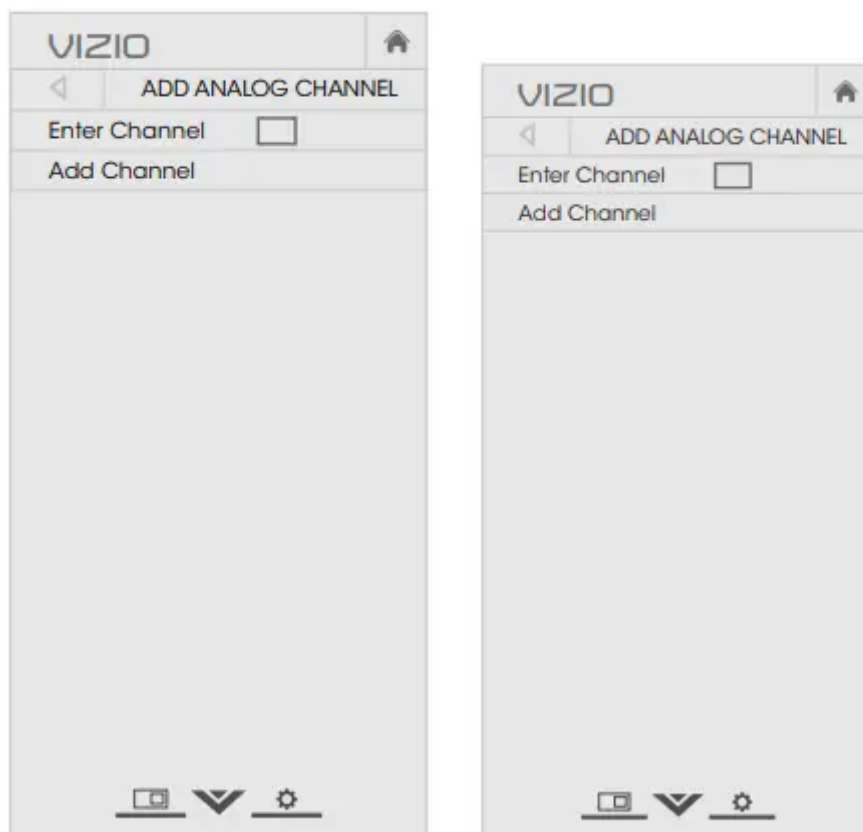
#### **To add a range of new channels:**

1. From the CHANNELS menu, highlight Partial Channel Search, and press OK. The PARTIAL CHANNEL SEARCH menu is displayed.
2. Highlight Scan Mode and select the type of channel you are adding: Analog, Digital, or Analog/Digital.
3. Highlight From Channel and enter the channel where you want to begin the scan. (Use the Left Arrow button to backspace. Use the Number Pad on the remote to enter the channel.)
4. Highlight To Channel and enter the channel where you want to end the scan. (Use the Left Arrow button to backspace. Use the Number Pad on the remote to enter the channel.)
5. Highlight Start and press OK. The partial channel search begins.
6. Wait until the partial channel search is 100% complete. Highlight Done and press OK.

7. Press the EXIT button on the remote.

### To add a single new analog channel:

1. From the CHANNELS menu, highlight Add Analog Channel and press OK. The ADD ANALOG CHANNEL menu is displayed.
2. Highlight Enter Channel # and use the Number Pad on the remote to enter the number of the channel you are adding
3. Highlight Add Channel and press OK. The TV scans for the channel.
4. When the TV is done scanning for the channel, press the EXIT button on the remote.



### Skipping Channels

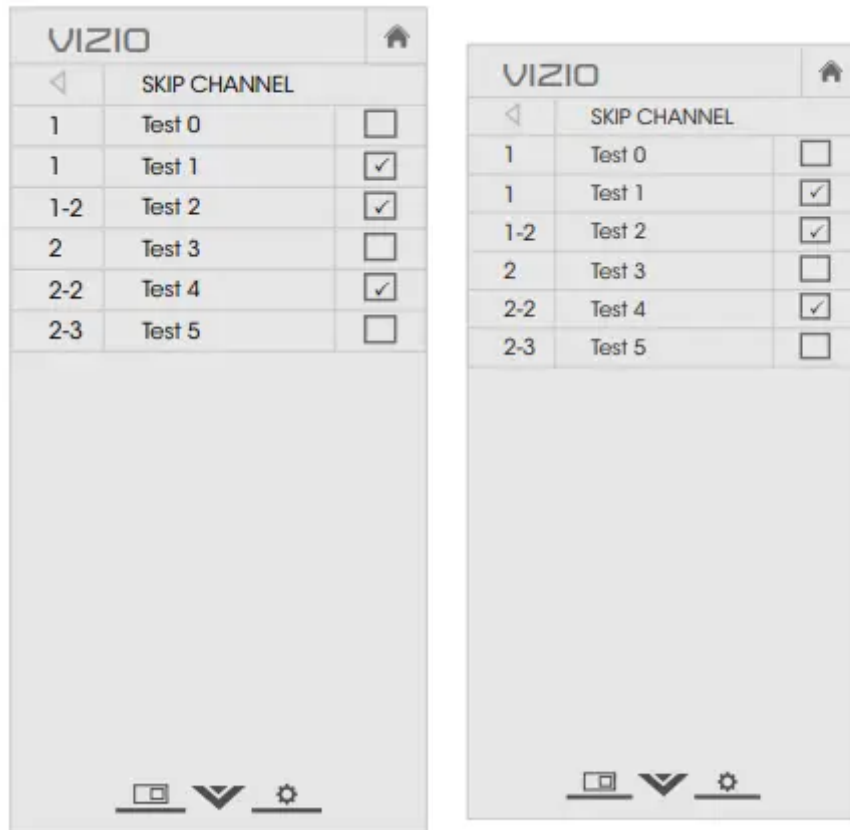
After a channel scan is completed, you may find that some channels are too weak to watch comfortably. There may also be some channels you do not want to view. You can remove these channels from the TV's memory with the Skip Channel feature.

**Warning:** Channels that have been removed with the Skip Channel feature can still be viewed if the channel is entered using the Number Pad. If you wish to completely block a channel from being viewed, use the parental controls. See Locking and Unlocking Channels on page 30.

### To remove a channel:

1. From the CHANNELS menu, highlight Skip Channel, and press OK. The SKIP CHANNEL menu is displayed.

- For each channel you wish to remove, use the Up/Down Arrow buttons on the remote to highlight the channel and press OK. A appears to the right of each channel you select.
- When you have selected all of the channels you wish to remove, press the EXIT button on the remote.



## LISTENING TO ALTERNATE AUDIO

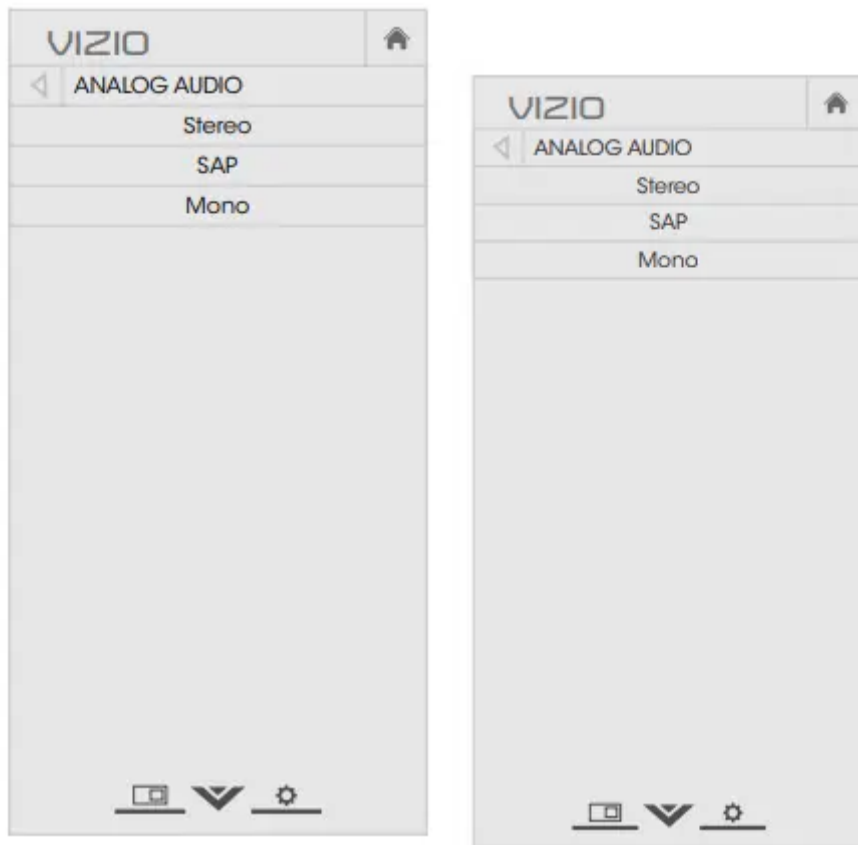
### Changing the Analog Audio Language

Some analog over-the-air (free) and cable channels broadcast programs in more than one language. The TV's Analog Audio feature allows you to listen to audio in an alternate language using Secondary Audio Programming (SAP).

**Warning:** Not all programs are broadcast in SAP. The Analog Audio Language feature only works when the program being viewed is being broadcast with Secondary Audio Programming.

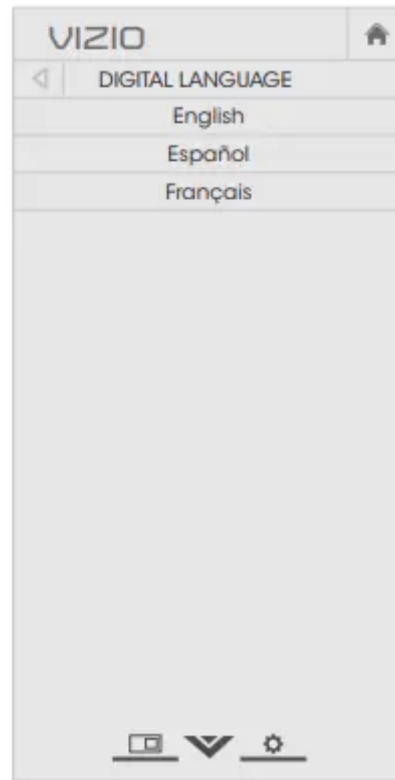
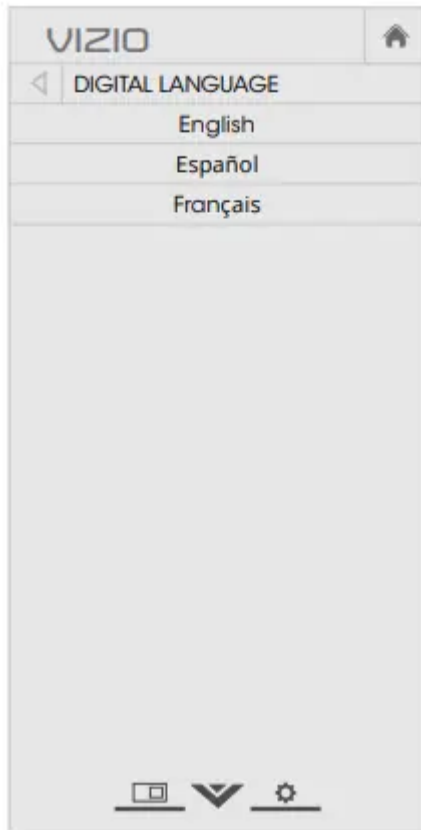
#### To use the Analog Audio feature:

- From the CHANNELS menu, highlight Analog Audio and press OK. The ANALOG AUDIO menu is displayed.
- Select Stereo, SAP (Secondary Audio Programming), or Mono. Press OK.
- Press the EXIT button on the remote.



**To use the Digital Language feature:**

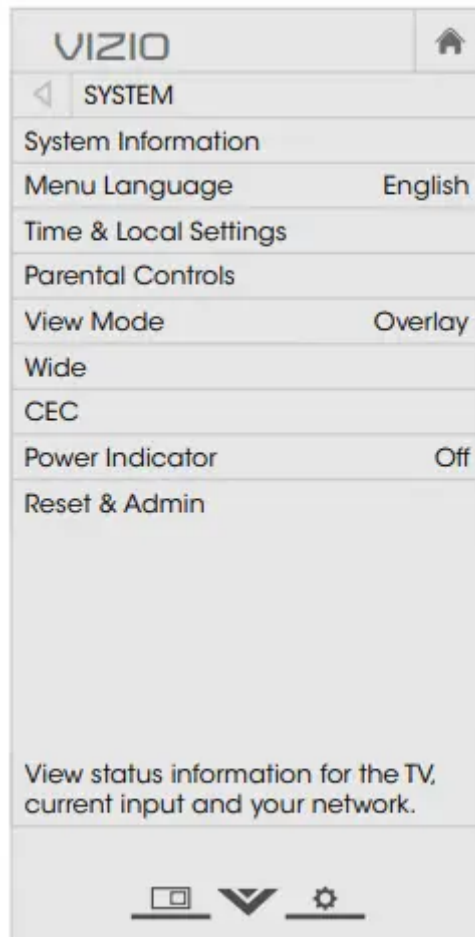
1. From the CHANNELS menu, highlight Digital Language and press OK. The DIGITAL LANGUAGE menu is displayed.
2. Select your preferred language: English, Español, or Français. Press OK.
3. Press the EXIT button on the remote.



## CHANGING THE TV SETTINGS

Using the system menu, you can:

- View technical system and networking information
- Change the on-screen menu language
- Set the time zone and local setting
- Set up parental controls
- Resize the video size
- Adjust wide mode
- Adjust the CEC settings
- Adjust when the power indicator is illuminated
- Reset the TV settings & set up administrative controls



## Viewing System Information

**To view technical data and status information about your TV and network connection:**

1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight System and press OK. The SYSTEM menu is displayed.
3. Highlight System Information and press OK.
4. Use the Up/Down Arrow buttons to scroll through the system information.
5. When you are finished reviewing the system information, press the EXIT button on the remote.

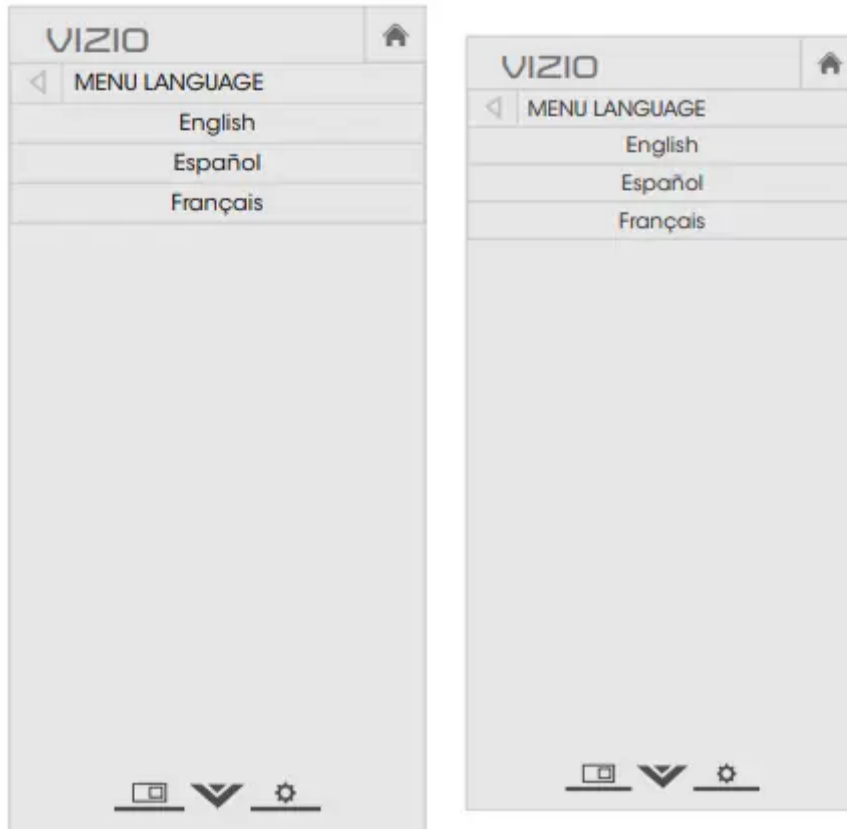
## Changing the On-Screen Menu Language

Your TV can display the on-screen menu in different languages.

**To change the on-screen menu language:**

1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight System and press OK. The SYSTEM menu is displayed.

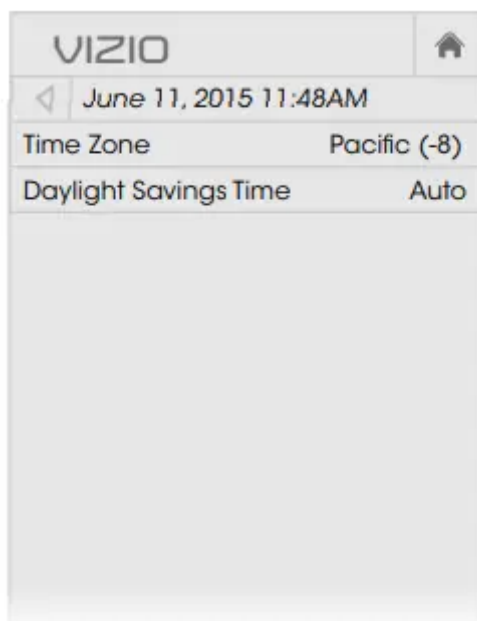
3. Use the Arrow buttons on the remote to highlight Menu Language and press OK. The MENU LANGUAGE menu is displayed.
4. Highlight your preferred language (English, Español, or Français) and press OK.
5. Press the EXIT button on the remote.



### Setting the Time and Local Settings

To ensure the correct time is displayed when you press the INFO button, set the TV's time zone:

1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight System and press OK. The SYSTEM menu is displayed.
3. Use the Arrow buttons on the remote to highlight Time & Local Settings and press OK. The menu headed by the local date and time is displayed.
4. Highlight Time Zone and press OK. The TIME ZONE menu is displayed.
5. Highlight your time zone and press OK.
6. Highlight Daylight Saving Time and press OK. The DAYLIGHT SAVING TIME menu is displayed. Choose On if it is currently Daylight Savings Time, Off if it is Standard Time, or Auto to have the system automatically detect Daylight Savings Settings.
7. Press the EXIT button on the remote.



## Using the Parental Controls

The TV's parental controls allow you to prevent the TV from displaying certain channels or programs without a password.

### The Parental Controls menu only appears when:

- You are using an the tuner receive your TV signals, such as when you are using an antenna for Over-the-Air signals or when connected to cable TV directly from the wall (no cable box).
- You have a device connected using a composite video cable or a coaxial cable, such as a VCR, satellite or cable box, or DVR.

**NOTE:** Other devices have their own parental control settings.

## Accessing the Parental Controls Menu

### To access the Parental Controls menu:

1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight System and press OK. The SYSTEM menu is displayed.
3. Use the Arrow buttons on the remote to highlight Parental Controls and press OK.
4. Enter your parental passcode. If you have not set a passcode, enter the default, 0000. The PARENTAL CONTROLS menu is displayed.

**NOTE:** To set a custom parental passcode, see Changing the Parental Control PIN on page 31.

## Enabling or Disabling Program Ratings

To manage program content according to its rating, you must enable the Program Rating feature.

### To enable or disable the Program Rating feature:

1. From the PARENTAL CONTROLS menu, highlight Locks and press OK. Type the parental passcode. The LOCKS menu is displayed.
2. Select On or Off and press OK.

### Locking and Unlocking Channels

When a channel is locked, it will be inaccessible. Locking a channel is a good way to prevent children from viewing inappropriate material.

#### To lock or unlock a channel:

1. From the PARENTAL CONTROLS menu, highlight Channel Locks and press OK. The CHANNEL LOCKS menu is displayed.
2. Highlight the channel you want to lock or unlock and press OK.
- 3.

When a channel is locked, the Lock icon appears



locked. The channel is not

accessible unless the parental passcode is entered.

- 4.

When a channel is unlocked, the Lock icon appears



unlocked. The channel is

accessible.

### Blocking and Unblocking Content by Rating

A channel may sometimes broadcast programs that are meant for children, and at other times broadcast programs that are meant for mature audiences. You may not want to block the channel completely using a channel lock, but you may wish to block certain programs from being viewed.

When this is the case, you can use the TV's Rating Block feature to block content based on its rating.

#### To block or unblock content by its rating:

1. From the PARENTAL CONTROLS menu, highlight the content type you want to adjust and press OK:

**USA - TV** - USA television program broadcasts.

**USA - Movie** - USA movie broadcasts.

**Canadian - English** - Canadian English television program broadcasts.

**Canadian - French** - Canadian French television program broadcasts.

2. For each rating type you want to block or unblock, use the Up/ Down and Left/Right Arrow buttons on the remote to highlight the rating type and press OK.

- 3.


When the rating type is blocked, the Lock icon appears



locked. Content with this

rating and all higher ratings cannot be viewed.

4.

When the rating type is unblocked, the Lock icon appears  unlocked. Content with this rating and all lower ratings can be viewed.

If you want to block all unrated content, highlight Block Unrated Shows and use the Arrow buttons on the remote to select On.

5. When you are finished adjusting the rating level blocks, press the EXIT button on the remote.

### **Changing the Parental Control PIN**

If you use the parental controls, you should change the passcode to prevent children from accessing inappropriate material.

#### **To change the parental control PIN:**

1. From the PARENTAL CONTROLS menu, highlight Change PIN and press OK. The CHANGE PIN menu is displayed.
2. In the NEW PIN field, use the Number Pad on the remote to enter your new 4-digit parental control PIN.
3. In the CONFIRM PIN field, use the Number Pad on the remote to re-enter your new 4-digit parental control PIN..
4. Write down your new parental control PIN and save it in a secure location.
5. Press the EXIT button on the remote.

### **Resetting the Content Locks**

#### **To reset the content locks to the factory-default settings:**

1. From the PARENTAL CONTROLS menu, highlight RESET LOCKS and press OK. The TV displays, "Select Reset to restore Parental Controls to factory defaults."
2. Highlight Yes and press OK.

### **Changing the View Mode Settings**

You can resize the video content to fit while the menu is open.

To change the view mode settings:

1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight System and press OK. The SYSTEM menu is displayed.
3. Use the Arrow buttons on the remote to highlight View Mode and press OK. The VIEW MODE menu is displayed.
4. Highlight your Viewport, Overlay, or Centered Overlay and press OK.
  - Viewport - The entire picture is visible in the space to the right of the menu.

- Overlay - The left-hand portion of the picture covered by the menu.
- Centered Overlay - The picture extends off of the right side of the screen.

5. Press the EXIT button on the remote.



## CHANGING THE SCREEN ASPECT RATIO

The TV can display images in five different modes: Normal, Stretch, Panoramic, Wide, and Zoom. Each mode displays the picture differently.

Some programs have black bars on the top or sides of the picture so that the picture keeps its original shape. Examples include wide-screen movies and older television programs.

### To change the screen aspect ratio:

- Press the WIDE button on the remote.
- Use the Arrow buttons to highlight the aspect ratio you wish to view and press OK.
  - **Normal** preserves the content's original aspect ratio and size.
    - Standard Definition (480i and 480p—old TV programs) - Since the 4:3 aspect ratio is not large enough to fill the TV's screen, black bars are added to the left and right of the display image.
    - 720p and 720i HD - Fills a 720p or 1080p screen.
    - 1080p and 1080i HD - Fills a 720p or 1080p screen.
  - **Stretch** expands a widescreen image to fill the screen from top to bottom and stretches it half as much from right to left. Figures appear tall and thin.

Standard Definition - Not available.

720p and 720i HD - If you are watching widescreen 1.85:1 content, the image will fill the screen. With 2.35:1 widescreen content, one-sixth of the image is cut off by the left and right sides of the screen.

1080p and 1080i - Not available.

- **Panoramic** stretches a 4:3 aspect ratio picture to the left and right edges of the screen. The center of the image is not stretched, but the sides of the image are extremely stretched. If you are watching widescreen (1.85:1 or 2.35:1) content with black bars on the top and bottom, the black bars will still appear on the top and bottom of the display image.

Standard Definition (480i and 480p) - Fills the screen from the left to right edges.

720p and 720i - Not available.

1080p and 1080i - Not available

- **Wide** stretches a 4:3 aspect ratio picture to the edges of the screen. Since the picture is being stretched, the display image may appear distorted—figures appear short and fat. If the program is already formatted for widescreen viewing (1.85:1 or 2.35:1), then black bars will appear on the top and bottom of the display image.

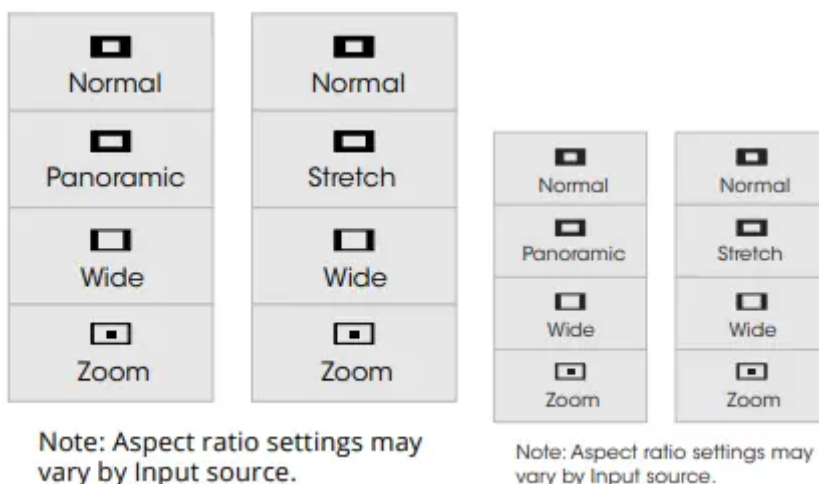
- **Zoom** expands images evenly in all directions (33% taller and 33% wider) with black bars to fit the screen. A 720p image will fill a 1080p screen.

Standard Definition - Not available.

720p and 720i HD - Fills a 1080p screen

1080p and 1080i - Not available.

**TIP:** The aspect ratio cannot be changed for Ultra HD content or for any video content on HDMI-5.



### Adjusting the CEC Settings

The CEC function on your TV enables you to control devices connected to HDMI (ARC) input with the included remote, without any programming. Using CEC, your VIZIO TV remote can control:

- Power on/off
- Volume

- Mute

**Warning:** Not all HDMI devices support CEC. See your device's user manual for details.

**To enable, disable, or adjust CEC settings:**

1. Set up your audio device and connect it to the HDMI-1(HDMI Arc) input on the TV
2. On your audio device, select the HDMI ARC input
3. Press the MENU button on the remote. The on-screen menu is displayed.
4. Use the Arrow buttons on the remote to highlight System and press OK. The SYSTEM menu is displayed.
5. Use the Arrow buttons on the remote to highlight CEC and press OK. The CEC menu is displayed.
6. Highlight CEC and press OK. Select a setting and then press OK.
  - CEC - To use CEC, you must select Enable.
  - Device Discovery - To determine if your device is connected and supports CEC, select Device Discovery and then press OK.
7. Press the EXIT button on the remote.

**Turning the Power Indicator On or Off**

The Power Indicator on the front of your TV normally does not glow when the TV is on. You can change this setting if you prefer the light to be on.

**To turn the Power Indicator Light on or off:**

1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight System and press OK. The SYSTEM menu is displayed.
3. Highlight Power Indicator and press OK.
4. Use the Up/Down Arrow buttons to select On or Off, then press OK.

**USING THE RESET & ADMIN MENU**

You can use the TV's Reset & Admin menu to restore the TV to its factory default settings.

**Restoring the TV to Factory Default Settings**

All of the on-screen menu settings can be reset to the factory defaults.

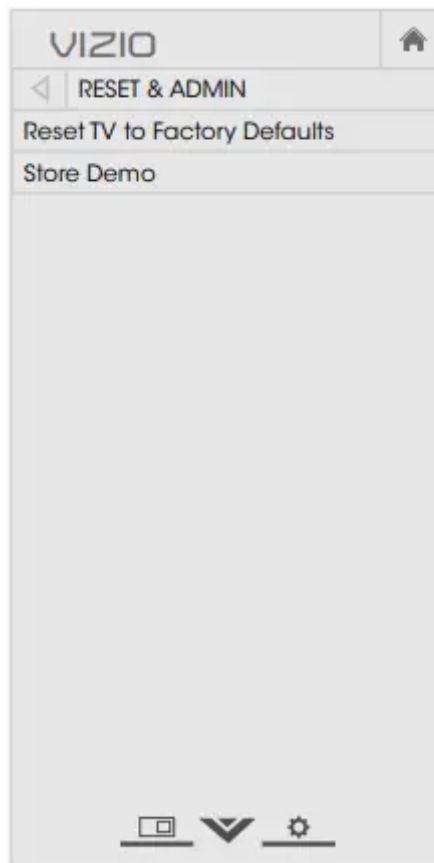
**Warning:** If you restore the TV to the factory default settings, all changes you have made to the settings will be lost!

This includes any V.I.A. Plus Apps that you have added and any changes you have made to the settings for those Apps.



### To restore the TV to its factory default settings:

1. Press the MENU button. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight System and press OK. The SYSTEM menu is displayed.
3. Highlight Reset & Admin and press OK. The RESET & ADMIN menu is displayed.
4. Highlight Reset TV to Factory Defaults and press OK.
5. If you have changed the default parental control PIN, enter it now. The TV displays, "Select Reset to restore all TV settings to factory defaults and clear all account information."
6. Highlight Reset and press OK.
7. Wait for the TV to turn off. The TV will turn back on shortly afterward and the Setup App will begin.



## Troubleshooting

### The remote is not responding.

- Make sure the batteries are properly inserted matching the - and + symbols.
- Replace the batteries with fresh one

**The TV displays “No Signal.”**

- Press the INPUT button on the remote control to select a different input source.
- If you are using cable TV or antenna connected directly to the TV, scan for channels. See Scanning for Channels on page 31.

**There is no power.**

- Ensure the TV is plugged into a working electrical outlet.
- Ensure the power cable is securely attached to the TV.
- Press the Power/Standby button on the remote or on the side of the TV to turn the TV on.

**The power is on, but there is no image on the screen.**

- Ensure all cables are securely attached to the TV.
- Ensure all devices are connected correctly. Devices differ; see your device's user manual for details.
- Adjust Brightness, Contrast, or Backlight. See Adjusting the Picture Settings on page 22.
- Press the INPUT button on the remote to select a different input source.

**There is no sound.**

- Press Volume Up on the remote control.
- Press the MUTE button on the remote to ensure mute is off.
- Check the audio settings. See Adjusting the Audio Settings on page 28.
- Check the audio connections of external devices (Blu-ray player, game console, cable/satellite box) that are connected to the TV.
- If you are using an antenna, the signal strength of the channel may be low. Ensure your antenna is connected securely to the TV and move the antenna around the room or close to a window for the best signal.

**The sound is flat or dialog is not audible.**

- Turn off Volume Leveling. See Adjusting the Audio Settings on page 28.

**The colors on the TV don't look right.**

- Adjust the Color and Tint settings in the Picture menu. See Adjusting the Picture Settings on page 22.
- Select a pre-set picture mode. See Adjusting the Picture Settings on page 22. VIZIO recommends selecting Calibrated.
- Check all cables to ensure they are securely attached.

### **The buttons on the remote aren't working.**

- Ensure you are only pressing one button at a time.
- Point the remote directly at the TV when pressing a button.
- Replace the remote batteries with new ones. See Replacing the Batteries on page 9.

### **The image quality is not good.**

- For the best image quality, view high-definition programs using digital sources. Connect your devices with HDMI cables.
- If you are using an antenna, the signal strength of the channel may be low. Ensure your antenna is connected securely to the TV and move the antenna around the room or close to a window for the best signal.


### **The picture is distorted.**

- Move the TV away from electrical appliances, cars, and fluorescent lights.
- Ensure all cables are securely attached.

### **The display image does not cover the entire screen.**

- 



If you are using TV, AV, or Component with 480i input, press the  button on the remote to change the screen mode.

### **The TV has pixels (dots) that are always dark.**

- Your HD TV is precision-manufactured using an extremely high level of technology. However, sometimes pixels may not display correctly. These types of occurrences are inherent to this type of product and do not constitute a defective product.

### **I see “noise” or static on the screen.**

- When your TV's digital capabilities exceed a digital broadcast signal, the signal is up-converted (improved) to match your TV's display capabilities. This up-converting can sometimes cause irregularities in the image.
- If you are using an antenna, the signal strength of the channel may be low. Ensure your antenna is connected securely to the TV and move the antenna around the room or close to a window for the best signal

### **When I change input source, the display image changes size.**

- The TV remembers the viewing mode on each input source. If the viewing mode on the new input source differs from the one on the input source you switch from, the difference may be noticeable.
- See Changing the Screen Aspect Ratio on page 27..

# Specifications

D32hn-E0	
Screen Size:	32"
Viewable Area:	31.51"
Dimensions w/ Stand:	28.70" x 19.09" x 7.87"
Dimensions w/o Stand:	28.70" x 17.13" x 2.91"
Weight w/ Stand:	10.36 lbs
Weight w/o Stand:	9.48 lbs
LCD Backlight:	Direct LED
Refresh Rate:	60 Hz
Maximum Resolution:	1366 x 768 (720p)
Dynamic Contrast Ratio:	200,000:1
Pixel Pitch:	0.51075 mm (H) X 0.51075 mm (V)
Viewing Angle:	178° (H) / 178° (V)
HDMI Inputs:	2
Component Video Inputs:	1
Composite Inputs:	1 (Shared with Component)
RF Antenna Input:	1
USB Port:	1
Audio Outputs:	RCA Analog Stereo Output, Optical Digital
OSD Language:	English, French, Spanish

D32hn-E0	
Remote Control Model:	XRT020
Certifications:	UL, cUL, FCC Class B, BET7/ICES-003 Class B, IC, HDMI (CEC, ARC), Dolby Digital
Voltage Range:	120 V @ 60 Hz
Power Consumption:	22 W
Standby Power:	<0.5W
Zero Bright Pixel Guarantee:	Yes

D39hn-E0	
Screen Size:	39"
Viewable Area:	38.50"
Dimensions w/ Stand:	34.75" x 22.68" x 8.27"
Dimensions w/o Stand:	34.75" x 20.51" x 2.91"
Weight w/ Stand:	14.11 lbs
Weight w/o Stand:	13.67 lbs
LCD Backlight:	Direct LED
Refresh Rate:	60 Hz
Maximum Resolution:	1366 x 768 (720p)
Dynamic Contrast Ratio:	200,000:1
Pixel Pitch:	0.62475 mm (H) X 0.62475 mm (V)
Viewing Angle:	178° (H) / 178° (V)
HDMI Inputs:	2
Component Video Inputs:	1
Composite Inputs:	1 (Shared with Component)
RF Antenna Input:	1
USB Port:	1
Audio Outputs:	RCA Analog Stereo Output, Optical Digital
OSD Language:	English, French, Spanish

D39hn-E0	
Remote Control Model:	XRT020
Certifications:	UL, cUL, FCC Class B, BET7/ICES-003 Class B, IC, HDMI (CEC, ARC), Dolby Digital
Voltage Range:	120 V @ 60 Hz
Power Consumption:	29 W
Standby Power:	<0.5W
Zero Bright Pixel Guarantee:	Yes

D48n-E0	
Screen Size:	48"
Viewable Area:	47.60"
Dimensions w/ Stand:	42.80" x 27.60" x 9.80"
Dimensions w/o Stand:	42.80" x 25.20" x 2.90"
Weight w/ Stand:	25.13 lbs
Weight w/o Stand:	24.25 lbs
LCD Backlight:	Direct LED
Refresh Rate:	60 Hz
Maximum Resolution:	1920 x 1080 (1080p)
Dynamic Contrast Ratio:	200,000:1
Pixel Pitch:	0.549 mm (H) X 0.549 mm (V)
Viewing Angle:	178° (H) / 178° (V)
HDMI Inputs:	2
Component Video Inputs:	1
Composite Inputs:	1 (Shared with Component)
RF Antenna Input:	1
USB Port:	1
Audio Outputs:	RCA Analog Stereo Output, Optical Digital
OSD Language:	English, French, Spanish

D48n-E0	
Remote Control Model:	XRT020
Certifications:	UL, cUL, FCC Class B, BET7/ICES-003 Class B, IC, HDMI (CEC, ARC), Dolby Digital
Voltage Range:	120 V @ 60 Hz
Power Consumption:	43W
Standby Power:	<0.5W
Zero Bright Pixel Guarantee:	Yes

## Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

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