

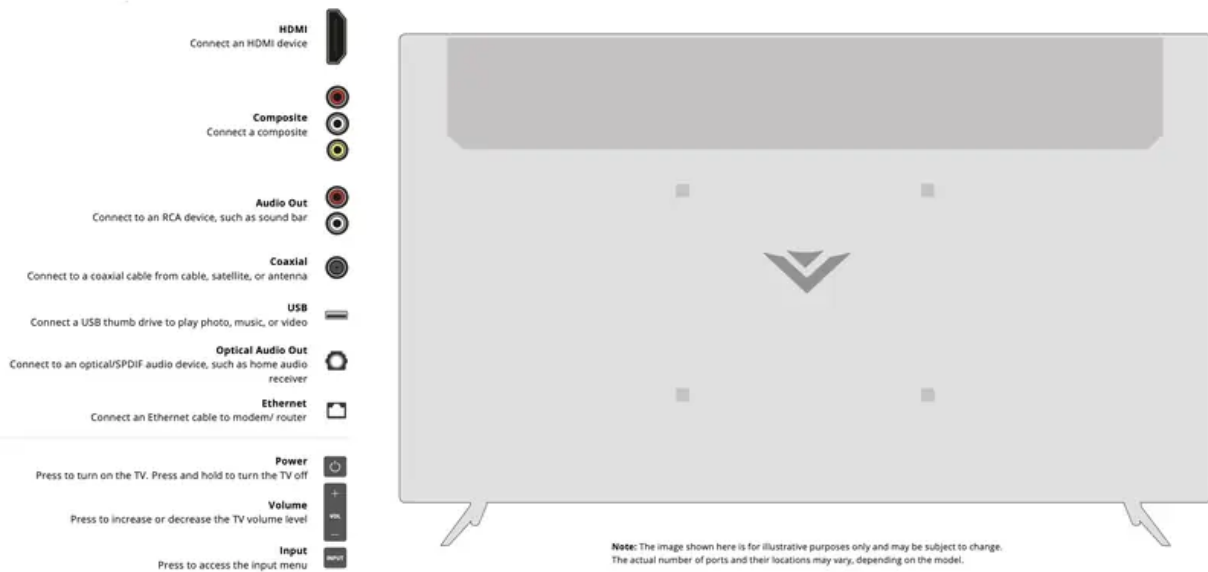
Getting to Know Your TV

FRONT PANEL



Remote Sensor and 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, see *Turning the Power Indicator On or Off* on page 33.

REAR PANEL—M556-G4 & M656-G4



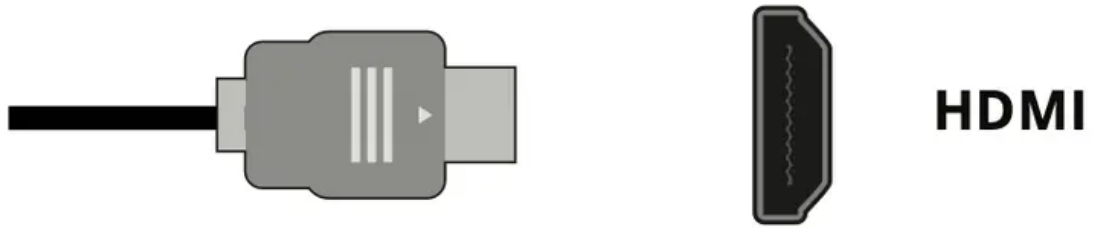
Connecting a device — AUDIO & VIDEO CABLE TYPES

Your TV can be used to display output from most devices .

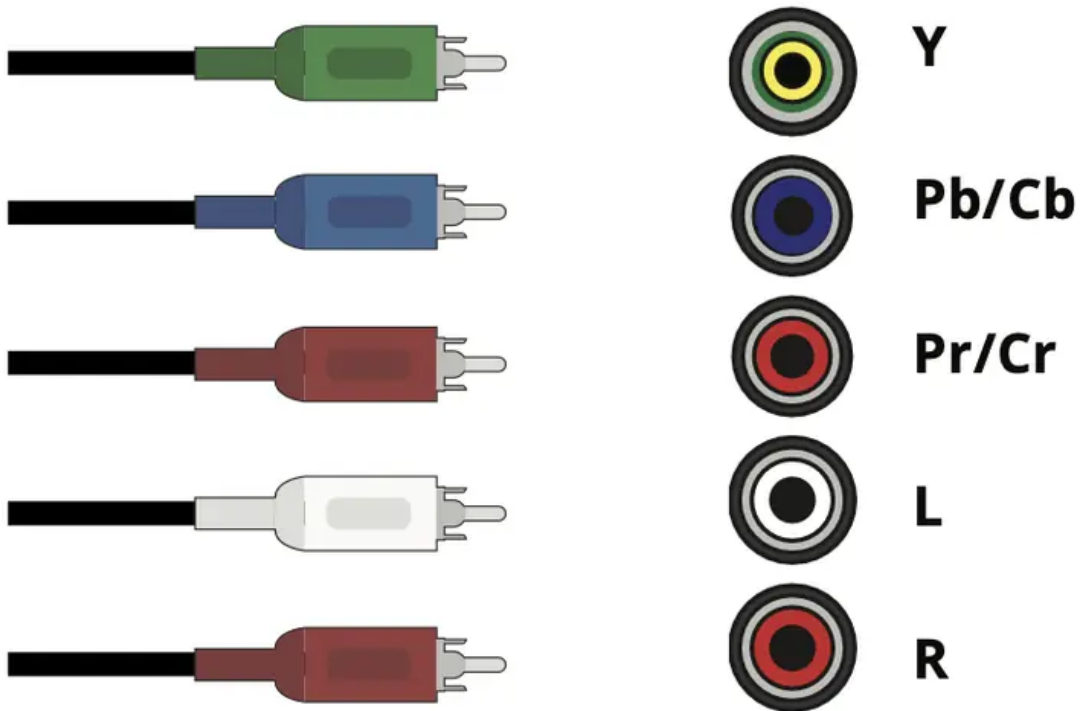
1. Verify that your device has a video port that matches an available port on the TV (HDMI, Composite, etc .).
2. Connect the appropriate cable (not included) to the TV and the device .
3. Turn the TV and your device on .

4. Set the TV's input to match the connection you used (HDMI-1, HDMI-2, etc .) .

HDMI CABLE

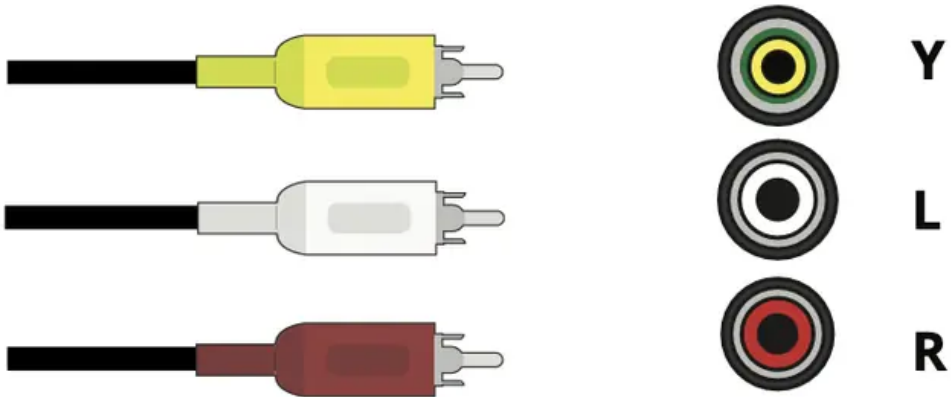


COMPONENT CABLE—ONLY ON M706-G3



COMPOSITE (AV) CABLE

(Shared with Component input)



COAXIAL CABLE

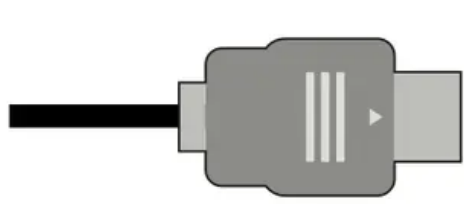


Connecting a device — AUDIO CABLE TYPES

Your TV can be output sound to an audio device, such as a receiver or sound bar .

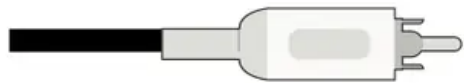
1. Verify that your device has an audio port that matches an available port on the TV (optical, RCA, etc)
2. Connect the appropriate cable (not included) to the TV and the device .
3. Turn the TV and your device on .

HDMI CABLE



HDMI

COMPONENT AND/OR COMPOSITE CABLE

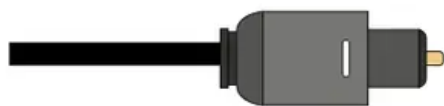


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OPTICAL/SPDIF CABLE



Optical

Note: The actual ports and their locations may vary, depending on the TV model .

WALL-MOUNTING THE TV

First you will need a wall mount. Consult the provided table below to find the appropriate mount for your TV .

Be sure the mount you choose is capable of supporting the weight of the TV .

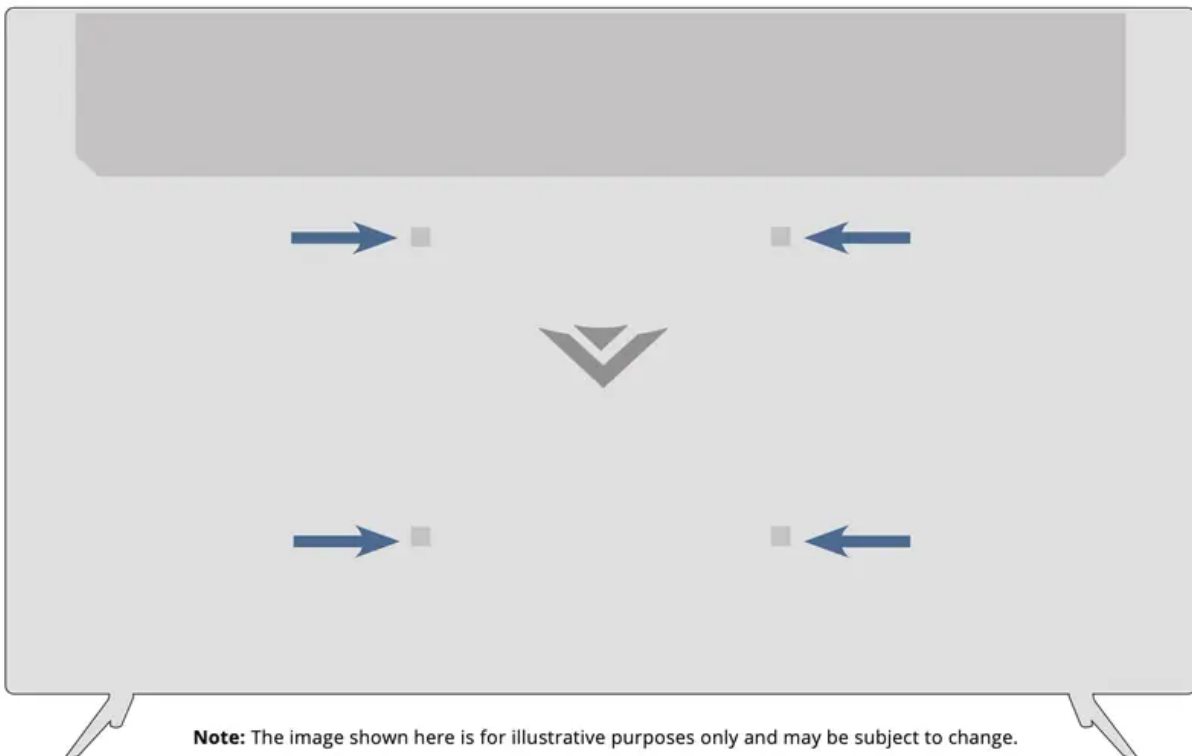
To install your TV on a wall:

1. Disconnect any cables connected to your TV .

2. Place the TV face-down on a clean, flat, stable surface. Be sure the surface is clear of debris that can scratch or damage the TV .
3. If attached, remove the stands by loosening and removing the screws .
4. Attach your TV and wall mount to the wall by carefully following the instructions that came with your mount . Use only with a UL-listed wall mount bracket rated for the weight/ load of your TV .

TIP: Installing a TV on a wall requires lifting . To prevent injury or damage to the TV, ask someone to help you .

WARNING: Do not use the screws that are included inside the wall mount holes to mount TV .



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.

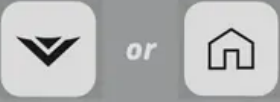
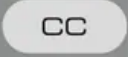


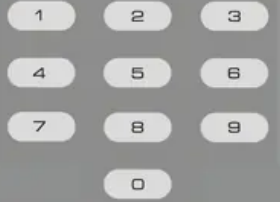
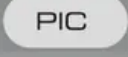
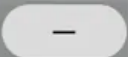
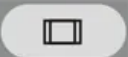

	M556-G4	M656-G4	M706-G3
Screw Size:	M6	M6	M6
Hole Depth:	17.9 mm	19.3 mm	12 mm
Hole Pattern:	400 mm x 200 mm	400 mm x 200 mm	400 mm x 400 mm
Weight w/o Stand:	31.00 lb (14.06 kg)	41.89 lb (19.00 kg)	56.90 lb (25.81 kg)

USING THE REMOTE

Note that specific buttons may vary depending on your model.

	<p>Power Turn television on or off</p>
	<p>Input Change the currently displayed input</p>
	<p>App Launcher Quickly launch the pictured app</p>
	<p>Menu Display the settings menu</p>
	<p>Exit Close the on-screen menu</p>
	<p>Arrow Buttons Navigate the on-screen menus</p>
	<p>OK/Play/Pause Select the highlighted menu option and play or pause content</p>
	<p>Back Go to the previous on-screen menu</p>
	<p>Info Display the info window</p>
	<p>WatchFree™ Access WatchFree channels <i>(not available in Canada)</i></p>
	<p>Volume Up/Down Increase or decrease the loudness of the audio</p>



	<p>SmartCast HomeSM Button Launch SmartCast Home/Return to SmartCast Home Screen</p>
	<p>Closed Caption Open the closed caption menu <i>Open Accessibility menu by holding down this button for 5 seconds.</i></p>
	<p>Mute Turn the audio on or off</p>
	<p>Last Return to the channel last viewed</p>
	<p>Number Pad Manually enter a channel</p>
	<p>Pic Cycle through the different picture setting modes <i>Enabled/disable talk back feature*</i></p>
	<p>Dash Use with number pad to manually enter a digital sub-channel (for example, 18-4 or 18-5)</p>
	<p>Wide Change the picture display size/aspect ratio <i>Enable/disable zoom mode*</i></p>
	<p>Channel Up/Down Change the channel</p>

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.

TV Settings



Picture



Audio



Network



Timers



Channels



Closed Captions



Input Settings



System



User Manual

From this menu, you can:

- Adjust the picture settings

- Adjust the audio settings
- Adjust the network settings
- Set up timers
- Adjust the channel settings
- Set up closed captioning
- Name and adjust Inputs
- Adjust TV settings
- View the user manual

NAVIGATING THE ON-SCREEN MENU

To open the on-screen menu:

1. Press the MENU button on the remote .
2. Use the Arrow buttons to highlight a menu option, and press the OK button to select that option.

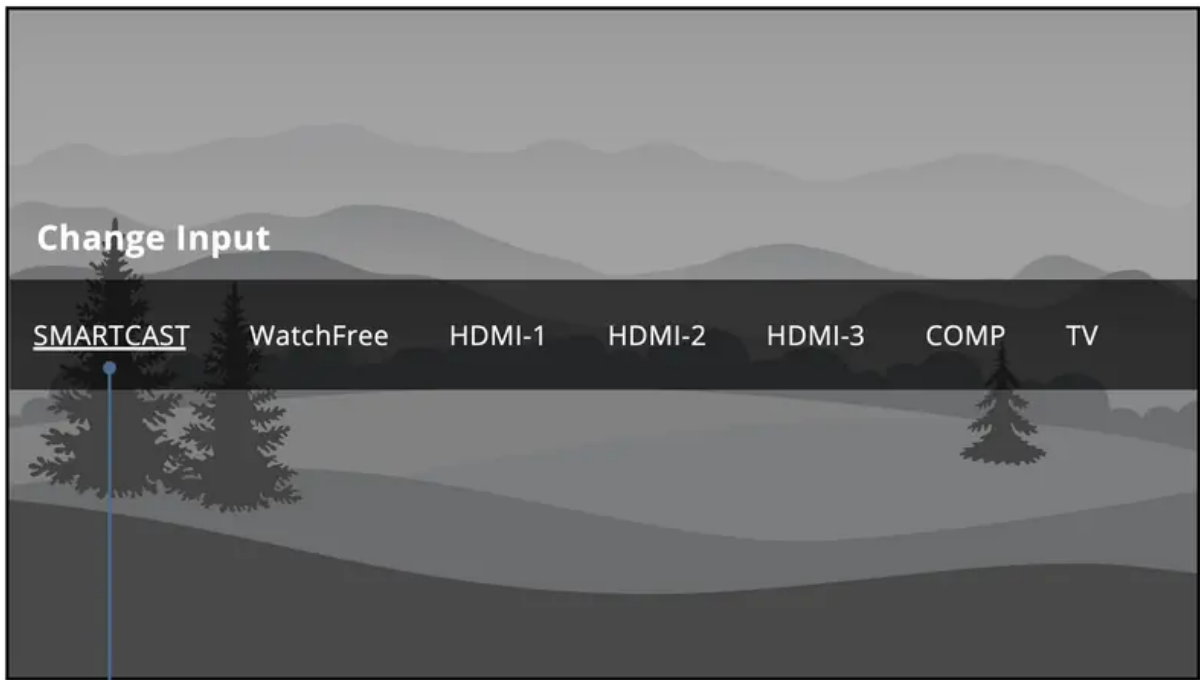
TIP: While navigating the on-screen menu, you can press the BACK button at any time to return to the previous menu screen . The EXIT button will close the on-screen menu .

CHANGING THE INPUT SOURCE

External devices, such as DVD players, Blu-ray Players, and video game consoles, can be connected to your TV . To use one of these devices with your TV, you must first change the input source using the Input menu.

To change the input sources:

1. Press the INPUT button on the remote. The input menu is displayed.
2. Use the Arrow buttons or the INPUT button on the remote to highlight the input you wish to view. The corresponding inputs are named on the back of your TV.
3. Press OK or release the INPUT button. The selected input is displayed .



Input Name

The underlined input on the left is the current input selected. Inputs may vary by TV.

TIP: You can change the input names that appear on the Input menu to make your devices easy to recognize . See Renaming Devices on the Input Menu on page 29.

CHANGING THE SCREEN ASPECT RATIO

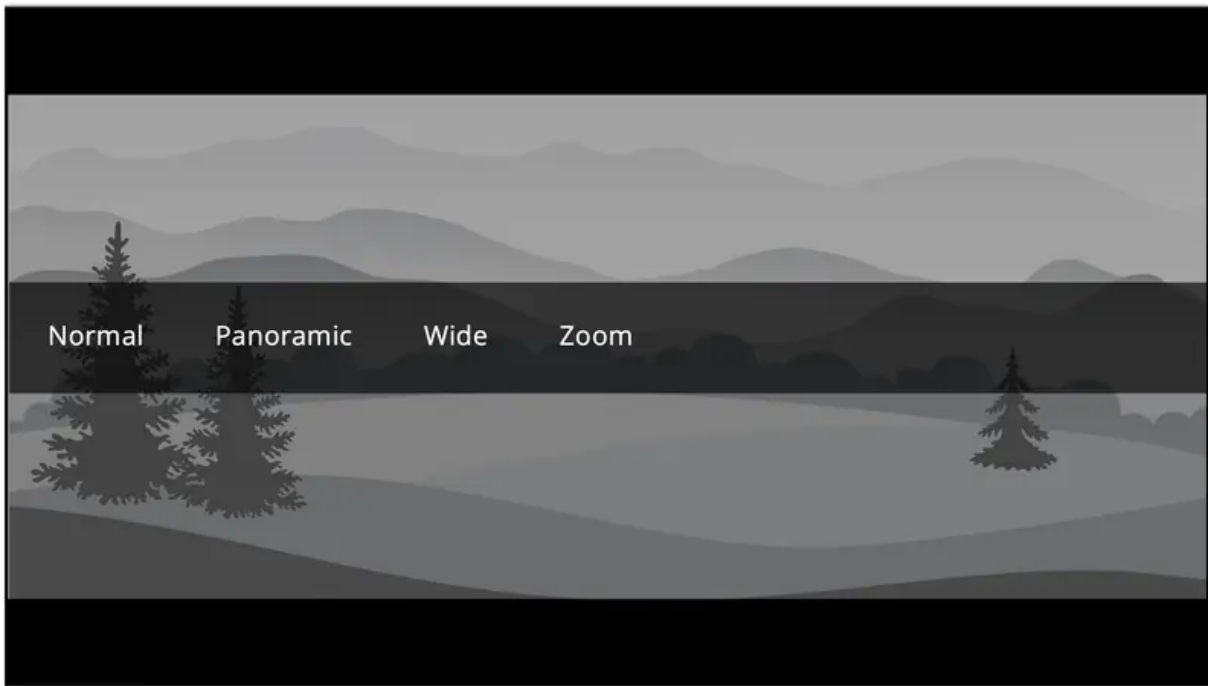
To change the screen aspect ratio: Menu > System > Aspect Ratio

Use the Arrow buttons to highlight the aspect ratio you wish to view and press OK .

Your TV can display images in different modes: Normal, Wide, Zoom, and Panoramic.

- **Normal (default)** — No change to aspect ratio .
- **Wide** — Stretches a 4:3 aspect ratio to fill 16:9 screen. If a 16:9 image, adds black bars to top and bottom .
- **Zoom** — Expands image both horizontally and vertically by 14% .
- **Panoramic*** — Stretches a 4:3 image to fill 16:9 screen with an algorithm so the center doesn't look stretched .

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



TIP: The aspect ratio cannot be changed for Ultra HD content or HDR content .

ADJUSTING THE PICTURE SETTINGS

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

To adjust the picture settings: Menu > Picture > Picture Mode

1. Use the Arrow buttons on the remote to highlight Picture Mode, then use the Left/Right Arrow buttons to change the picture mode:

Standard — Sets the picture settings to the default settings .

Calibrated — Sets the picture settings to values ideal for watching TV in a brightly-lit room .

Calibrated Dark — Sets the picture settings to values ideal for watching TV in a dark room .

Vivid — Sets the picture settings to values that produce a brighter, more vivid picture .

Game — Reduces throughput delays and optimizes the picture settings for displaying game console output.

Computer — Optimizes the picture settings for displaying computer output.

2. 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:

Picture

Picture Mode

Calibrated

Backlight



Brightness



Contrast



Color



Tint



Sharpness



More Picture

Picture Mode Edit

Color Calibration

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.

Adjusting More Picture Settings

To adjust more picture settings: Menu > Picture > More Picture

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

More Picture

Color Temperature	Cool
Black Detail	Off
Active Full Array [®]	Off
Clear Action [®]	Off
Reduce Noise	
Game Low Latency	Off
Film Mode	On
Gamma	2.1

- **Color Temperature** — Change the white balance of the picture . Refer to the section on Adjusting the Color Temperature on page 17.

- **Black Detail** — Adjusts the average brightness of the picture to compensate for large areas of brightness.
- **Active Full Array** ® — Based on the content, dynamically adjusts and balances the brightness and the contrast ratio of the picture by locally adjusting backlight zones.
- **Clear Action** ® — Reduces blur in scenes with fast action but limits the range for the backlight setting.
- **Reduce Noise:**
 - **Reduce Signal Noise:** Lessens artifacts in the image caused by the digitizing of image motion content.
 - **Reduce Block Noise:** Reduces pixelation and distortion for mpeg files.
 - **Game Low Latency** — Reduces video delay (lag) when gaming.
- **Film Mode** — Optimizes the picture for watching films. Select On 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.

Adjusting the Color Temperature

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

To adjust the color temperature: Menu > Picture > More Picture > Color Temperature

Use the Arrow buttons on the remote to highlight a color temperature preset and then press OK .

- **Normal** — Optimized for television viewing.
- **Cool** — Produces a blue-hued picture.
- **Computer** — Optimizes the picture for use as a PC monitor.

Color Temperature

Normal

Cool

Computer

Adjusting the Picture Mode Edit Settings

Picture Mode Edit Settings allow you to make precise adjustments to the picture .

To adjust the Picture Mode Edit settings: Menu > Picture > Picture Mode Edit

Use the Arrow buttons to highlight the setting you wish to adjust, then press OK to change the setting:

- **Save Picture Mode** — Save a custom picture mode.
- **Lock Picture Mode** — Prevent changes to custom picture modes.
- **Reset Picture Mode** — Reset the picture mode settings to factory default values.
Only available on customized preset modes.

Picture Mode Edit

Save Picture Mode

Lock Picture Mode

Reset Picture Mode - Vivid

Saving a Custom Picture Mode

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

To save a custom picture mode: Menu > Picture > Picture Mode Edit > Save Picture Mode > Enter a Name > Save

- 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.

Save Picture Mode

— 

a	b	c	d	e	f	g	h	i
j	k	l	m	n	o	p	q	r
s	t	u	v	w	x	y	z	0
1	2	3	4	5	6	7	8	9
.@#		äêí	Space					

Locking/Unlocking a Custom Picture Mode

Custom picture modes can be locked/unlocked with a unique PIN to prevent accidental changes to their settings . If not previously set, you can set up your system PIN code here .

To lock all custom picture modes: Menu > Picture > Picture Mode Edit > Lock Picture Mode > Enter Your PIN > Save

To unlock all custom picture modes: Menu > Picture > Picture Mode Edit > Lock Picture Mode > Off > Enter Your PIN



Lock Picture Mode

Enter the System PIN to lock all custom picture modes.

System Pin Code

A horizontal row of four gray rectangular boxes, each representing a digit of a PIN code. The boxes are empty and have a uniform gray color.

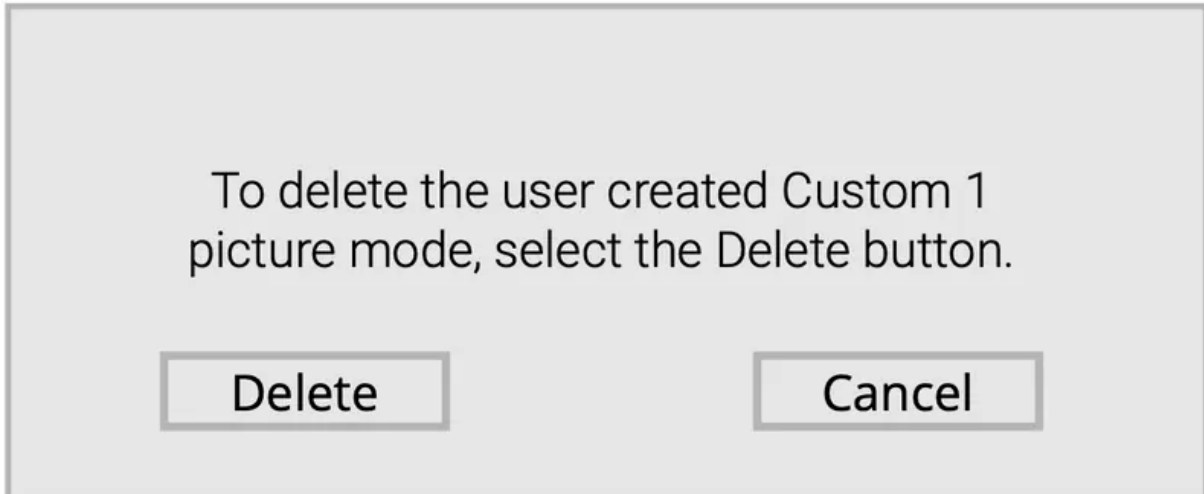
TIP: To set a custom PIN passcode, see [Setting a System PIN](#) on page 34.

Deleting a Custom Picture Mode

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

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

To delete a custom picture mode: Menu > Picture > Picture Mode Edit > Delete Picture Mode > Delete



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: Menu > Picture > Picture Mode Edit > Reset Picture Mode > Reset



Adjusting the Color Tuner Settings

The Color Tuner settings allow you to adjust the color management system, 2 point white balance, 11 point white balance, turn color channels off for testing, and display SMPTE, flat, ramp, and uniformity analyzer test patterns.

WARNING: 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 access the color tuner table: Menu > Picture > Color Calibration > Color Tuner

To turn color channels off and on:

1. Use the Arrow buttons on the remote to highlight Red, Green, or Blue.
2. Press the OK button to turn the color channel off or on. An X appears over a color channel that has been turned off.
3. Only two color channels can be turned off at the same time.

TIP: Any changes made affect the color temperature setting. Select the preferred color temperature setting first. See Adjusting the Color Temperature on page 17.

To adjust the color management system/2 point white balance settings:

1. 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 .
2. Use the Left/Right Arrow buttons to adjust the value. When you are finished press the OK button to save the setting .

To adjust the 11 Point White Balance settings:

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			

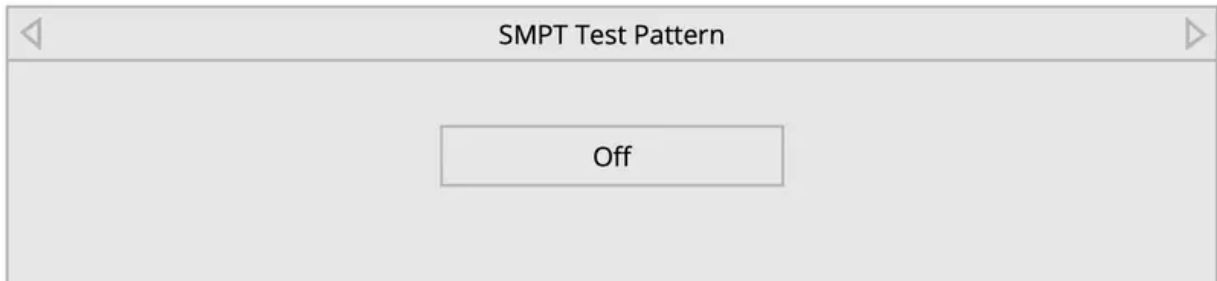
1. From the Color Tuner table, use the Arrow buttons to highlight the top bar and then press the Left/Right Arrow buttons until the 11 POINT WHITE BALANCE menu is displayed.

11 Point White Balance				
	Gain	Red	Green	Blue
	5%	0	0	0



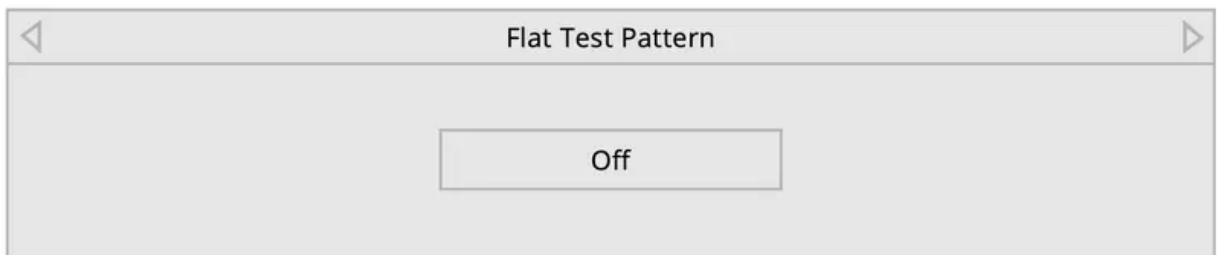
2. Use the Arrow buttons on the remote to highlight the Gain and Color values you wish to adjust . Press the OK button and use the Left/Right Arrow buttons to adjust the value. When you are finished, press the OK button to save the setting .

To show or hide the SMPTE Test Pattern: Menu > Picture > Color Calibration > Color Tuner > SMPTE Test Pattern



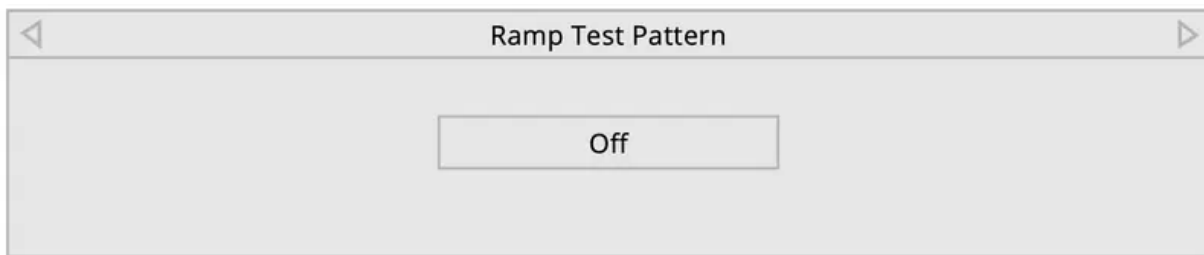
1. Use the Arrow buttons on the remote to highlight Off . Use the Left/Right Arrow buttons to select On to show the SMPTE Pattern.
—or—
2. To hide the SMPTE Test Pattern, use the Left/Right Arrow buttons to select Off .

To show or hide the Flat Test Pattern: Menu > Picture > Color Calibration > Color Tuner > Flat Test Pattern



1. 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—
2. To disable the Flat Test Pattern, use the Left/Right Arrow buttons to select Off .

To show or hide the Ramp Test Pattern: Menu > Picture > Color Calibration > Color Tuner > Ramp Test Pattern

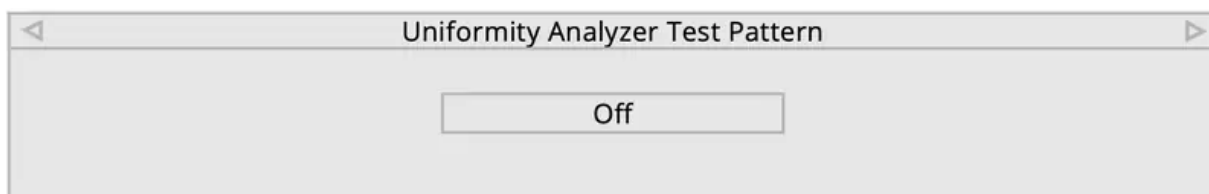


1. Use the Arrow buttons on the remote to highlight Off . Use the Left/Right Arrow buttons to select the color for the ramp test pattern . Selecting a color immediately shows that color ramp .

—or—

2. To hide the Ramp Test Pattern, use the Left/Right Arrow buttons to select Off .

To show or hide the Uniformity Analyzer Test Pattern: Menu > Picture > Color Calibration > Color Tuner > Uniformity Analyzer Test Pattern



1. Use the Arrow buttons on the remote to highlight Off . Use the Left/Right Arrow buttons to select On to show the Uniformity Analyzer Test Pattern .

—or—



2. To hide the Uniformity Analyzer Test Pattern, use the Left/Right Arrow buttons to select Off .

ADJUSTING THE AUDIO SETTINGS

To adjust the audio settings: Menu > Audio > OK

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

Audio

Speakers		Auto
Volume Control Display		On
Surround Sound		On
Volume Leveling		On
Balance		
Lip Sync		
Digital Auto Out		Auto
Analog Audio Out		Fixed

- **Speakers** — Turn the built-in speakers On or Off.
- **Volume Control Display** — Turn the on-screen volume display slider On or Off.

- **Surround Sound** — Surround sound uses DTS TruSurround™ to deliver an immersive surround sound experience from the TV's internal speakers . TruSurround completes the entertainment experience by providing deep, rich bass, crisp details, and clear, intelligible dialog. Select On or Off.
- **Volume Leveling** — Volume leveling uses DTS TruVolume™ to maintain consistent volume levels during transitions between program content, AV formats, and input sources. Select On or Off. In a few cases, volume leveling may artificially suppress volume increases, making it difficult to hear dialog or flattening sudden noises. If this occurs, turn volume leveling off.
- **Balance** — Adjusts the loudness of the audio output from the left and right speakers .

TIP: When the TV speakers are set to On, DTS signals cannot be passed through digital audio outputs .

- **Lip Sync** — Adjusts the synchronization between the display image and the accompanying audio track.
- **Digital Audio Out** — Changes the type of processing for digital audio out and HDMI ARC output when connected to a home theater audio system . Select Auto, PCM, Dolby D or Bitstream .
 - To hear talk back when Talk Back function is enabled, digital audio out must be set to PCM .
- **Analog Audio Out** — Sets the volume control properties for the RCA connector when connected to a home theater audio system . Select Variable if you are controlling the volume with the TV's volume controls, or select Fixed if an external audio device (sound bar or AV receiver) will control the volume .

TIP: You must select Bitstream for audio with more than two channels (e .g ., 3 .0, 5 .0, or 5 .1) .

ADJUSTING THE NETWORK SETTINGS

Your TV is Internet-ready, featuring both an Ethernet port and built-in high-speed wireless internet .

TIP: If your TV is connected to a network with an Ethernet cable, you will not see the wireless network connection menu. You must unplug the Ethernet cable to set a wireless network connection.

Connecting to a Wireless Network

To connect to a wireless network whose network name (SSID) is being broadcast: Menu > Network > Choose your network > Enter in the password > Connect

Network

Wired Connection

Disconnected

Wireless Access Points

Manual Setup

Hidden Networks

Test Connection

If you do not see your wireless network displayed, click on: More Access Points > Highlight your wireless network > Enter in the password > Connect

Changing the Manual Setup Settings

Advanced users can fine-tune the network settings using the Manual Setup feature. The security settings on your router may require you to enter the TV's MAC address .

To change advanced network settings: Menu > Network > Manual Setup > Off



Manual Setup

IP Address	— . — . — . —
Subnet Mask	— . — . — . —
Default Gateway	— . — . — . —
Pref. DNS Server	— . — . — . —
Alt DNS Server	— . — . — . —
RJ45 Mac	0:0:0:0:0:0
Wireless Mac	0:0:0:0:0:0

1. Use the Arrow and OK buttons to adjust each setting:

IP Address — The IP address assigned to the TV.

Subnet Mask — The subnet Exit 2D.

Default Gateway — Your network's default gateway address.

Pref. DNS Server — Your preferred domain name server address.

Alt. DNS Server — Your alternate domain name server address.

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

To find the TV's MAC address: Menu > Network > Manual Setup

You can find your TV's MAC address at the bottom of the list. The MAC addresses for the connections in use are displayed:

- **RJ45 MAC** — The Ethernet or RJ45 MAC address may be needed to set up your network when you have connected the TV to your network when you have connected the TV to your network with an Ethernet (Cat 5) cable .
- **Wireless MAC** — The Wireless (Wi-Fi) MAC address may be needed to connect your TV to your network with Wi-Fi.

Connecting to a Hidden Network

To connect to a wireless network whose network name (SSID) is not being broadcast: Menu > Network > Hidden Network > Enter the Access Point Name > Connect > Enter in the password

Testing Your Network Connection

To test your network connection: Menu > Test Connection

Enter Access Point Name

Enter your access point name. This is used to connect to an access point with a hidden SSID.

a	b	c	d	e	f	g	h	i
j	k	l	m	n	o	p	q	r
s	t	u	v	w	x	y	z	0
1	2	3	4	5	6	7	8	9
.@#	↑	äêí	Space			✕		

SETTING TIMERS

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

To setup a sleep timer: Menu > Timers

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.



Timer

Sleep Timer Off

Auto Power Off 10 Minutes

Blank Screen

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: Menu > Timers > Auto Power Off > Off

Using the Blank Screen Feature

To help save LED life, your TV screen can turn on or off while audio is streaming.

To use the Blank Screen feature: Menu > Timers > Blank Screen

To exit Blank Screen, press any key (except the volume and mute keys) .

SETTING UP CHANNELS

You can use the TV's Channels menu to:

Channels

Find Channels

Skip Channels

Analog Audio

Stereo

Digital Audio

English

Parental Control

- Find channels
- Select channels to skip

- Select analog audio mode
- Select the language for digital audio
- Set parental controls

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: Menu > Channels > Find Channels

Find Channels

Channels Found

Digital 8

Analog 12

45% Complete 

Wait until the channel scan is 100% complete . Highlight Done and press OK .

- If the channel scan is canceled, the channels that were already discovered are retained .
A new channel scan will clear all channels .



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 26.

To remove a channel:

Skip Channels

0 Test 0

1 Test 1

2 Test 2

3 Test 3

4 Test 4

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

2. 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.

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: Menu > Channels > Analog Audio

- **Stereo** — More than one speaker channel is being used . Sounds may be dispersed through different speakers depending on how the audio is programmed.
- **SAP (Secondary Audio Program)** — Typically used for audio in a different language other than the native one used in the program .
- **Mono** — All speakers are producing the same sound; there is no distinction between left or right sounds.

Analog Audio

Stereo

SAP

Mono

To use the Digital Language feature: Menu > Channels > Digital Audio

Select the preferred audio language. Available languages or video description depend on the broadcast content.

Digital Audio

English

Spanish / Video Description

French

USING PARENTAL CONTROLS

The TV's parental controls allow you to prevent the TV from displaying certain channels or programs unless a PIN is used .

Accessing the Parental Controls Menu

To access the PARENTAL CONTROLS menu you must first set up a system PIN: Menu > Channels > Parental Controls > Enter in PIN

TIP: To set a custom PIN passcode, see Setting a System PIN on page 34.

The Parental Controls menu only appears when:

- You are using the tuner to 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 .

TIP: Other devices have their own parental control settings.

Enabling or Disabling Program Ratings

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



To enable or disable the Program Rating feature: Menu > Channels > Parental Controls > Locks > ON/OFF

Locking and Unlocking Channels

When a channel is locked, it cannot be accessed . Locking a channel is a good way to prevent children from viewing inappropriate material .

To lock or unlock a channel: Menu > Channels > Parental Controls > Channel Locks

Highlight the channel you want to lock or unlock and press OK .

- When a channel is locked, the Lock icon appears  locked . The channel is not accessible unless the system PIN is entered .
- When a channel is unlocked, the Lock icon appears  unlocked .


Blocking and Unblocking Content by Rating


A channel may sometimes broadcast programs that are meant for a variety of audiences (some for children and some for adults) . You might not want to block the channel completely using a channel lock, but you can block certain programs from being viewed .

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 Arrow buttons to highlight the rating type and press OK .

When the rating type is blocked, the Lock icon appears  locked . Content with this rating and all higher ratings cannot be viewed .

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 .

SETTING UP CLOSED CAPTIONING

Your TV can display closed captions for programs that include them . Closed captions display a transcription of a program's dialogue .

TIP: If the program you are viewing is not being broadcast with closed captions, the TV will not display them .

To activate or deactivate closed captions: Menu > Closed Captions > Closed Captions > Off/On

Closed Captions

Closed Captions	Off
Analog Closed Captions	CC1
Digital Closed Captions	CS1
Digital Style	

1. Use the Arrow buttons on the remote to highlight either Analog or Digital Closed Captions

2. Use the Left/Right Arrow buttons on the remote to select the caption channel you wish to display, then press EXIT.

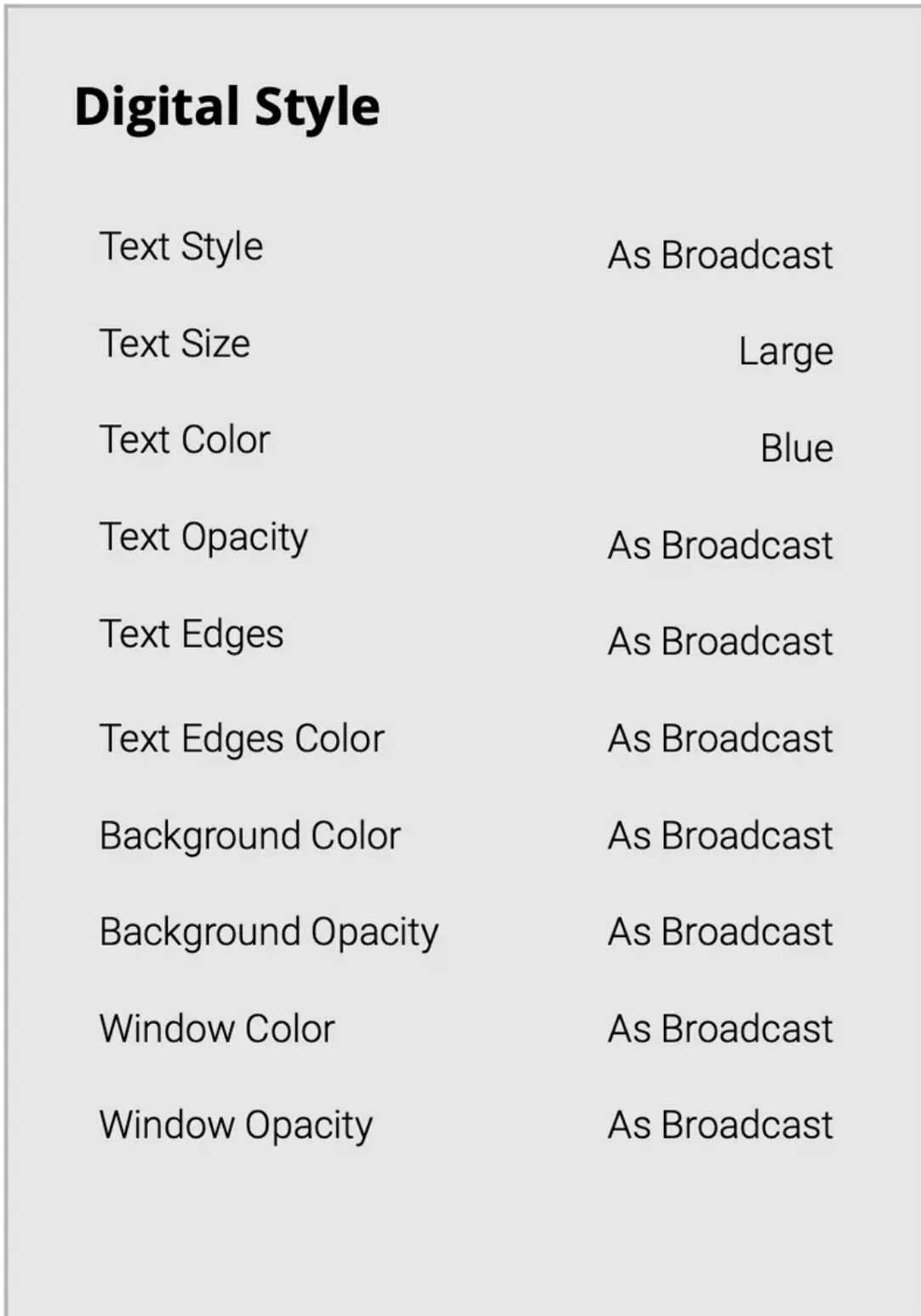
TIP: The Closed Captions menu does not appear when an HDMI input is selected . Closed captions are available when using the tuner or a composite video cable.

Changing the Appearance of Digital Closed Captions

Digital closed captions can be displayed according to your preference . See the diagram on the next page for an explanation of the parts of the closed caption area .

To change the appearance of digital closed captions: Menu > Closed Captions > Digital Style

1. Use the Left/Right Arrow buttons on the remote to select Custom. The Digital Style menu appears as shown.



2. Use the Up/Down Arrow buttons on the remote to highlight the setting you wish to change, then use the Left/Right Arrow buttons to change the setting:

Caption Style — Choose As Broadcast to keep default settings or Custom to manually

change each setting.

Text Style — Change the font used for the closed captioning text.

Text Size — Make the text larger or smaller.

Text Color — Change the color of the text.

Text Opacity — Change the transparency of the text.

Text Edges — Change the effects at the edges of the text, such as raising the edges or adding drop shadows.

Text Edges Color — Change the color of the text edge effects.

Background Color — Change the color of the background directly behind the text .

Background Opacity — Change the transparency of the background directly behind the text.

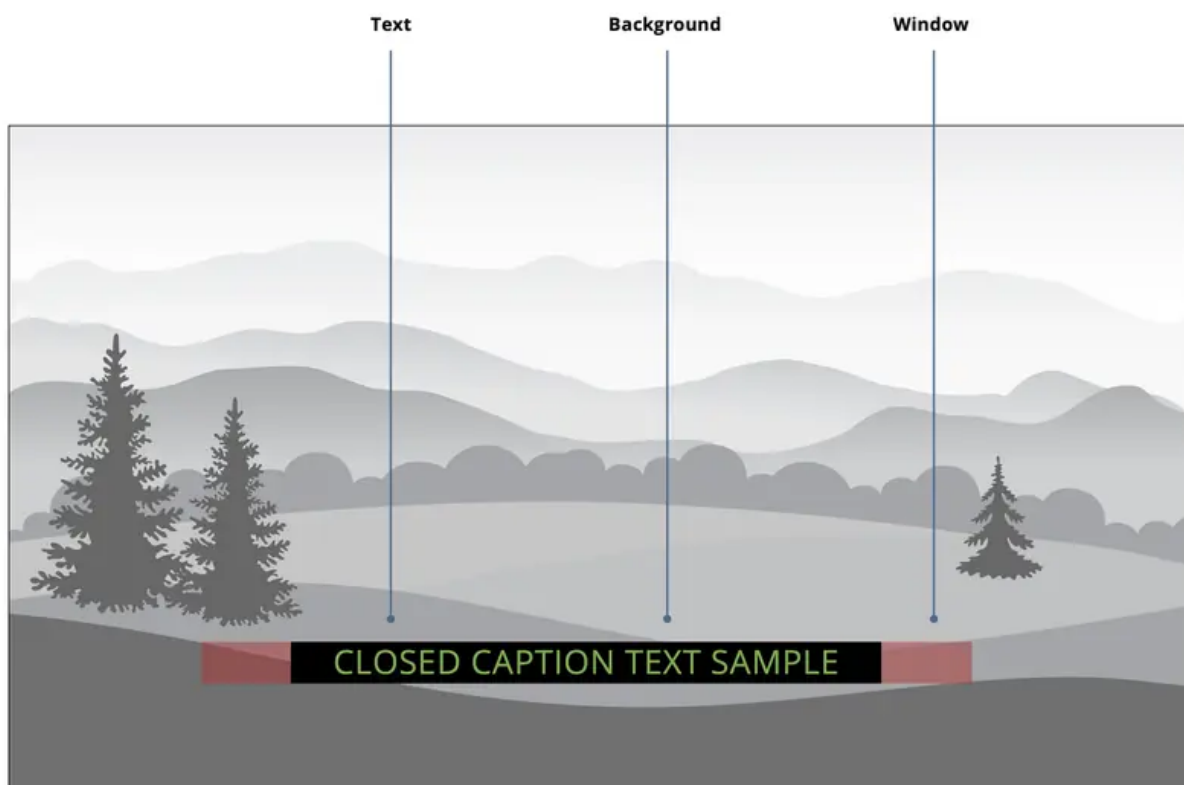
Window Color — Change the color of the closed captioning box.

Window Opacity — Change the opacity of the closed captioning box.

Typical choices include:

- **Opaque background, transparent window** — Only a strip of background appears behind the text, expanding as the text appears . This is the typical "As Broadcast" mode .
- **Opaque background and window in the same color** — When text appears, the entire line fills with color at once.

In the example, the closed caption text is green, the background is black, and the window is red .



CHANGING INPUT SETTINGS

To access input settings menu: Menu > Input Settings

Highlight the input device that you want to view/change and press OK .

Renaming Devices on the Input Menu

You can rename the inputs to make them easier to recognize on the Input menu . For example, if you have a DVD player connected to the component input, you can rename that input to display “DVD Player .” See Changing the Input Source on page 14 .

To change the name of an input: Menu > Input Settings

To use a preset input name:

- Highlight the Name Input row and press OK .
- Highlight the input name and use the Left/Right Arrow buttons on the remote to cycle through preset input names

—or—

To enter a custom name:

- Highlight the Name Input row and press OK .
- Enter your custom label using the on-screen keyboard and press OK .

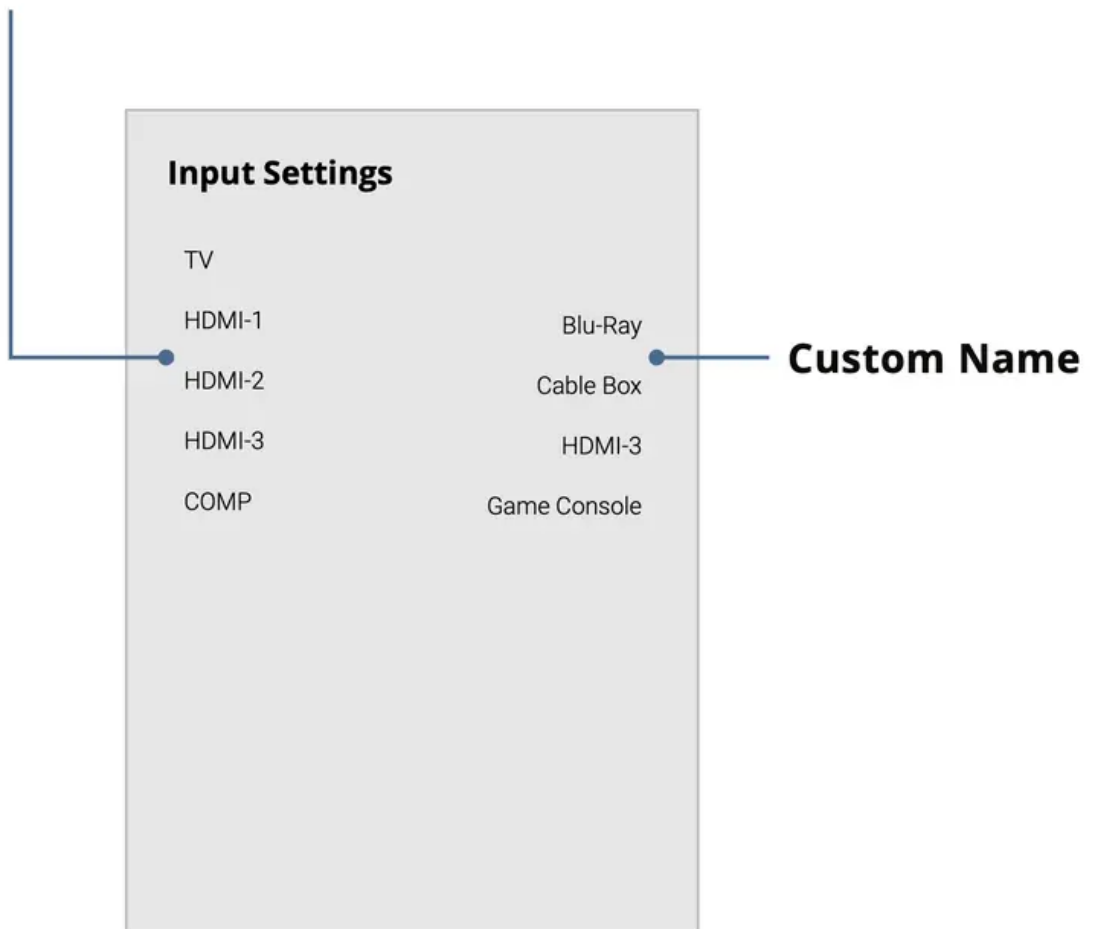
TIP: You cannot rename the tuner or WatchFree input .

Other settings include the following:

- **Full UHD Color*** — expanded color display .
- **Picture Size*** — configure the display size to enlarge or shrink the image to fill the screen .
- **Picture Position*** — move the vertical and horizontal position of the picture in relation to the screen .
- **Hide from Input Source** — hide inputs that are not being used . Hidden inputs will not be displayed in the input list .

*Only available if there is an input source . Not available for WatchFree . Menu items will be grayed out if not available.

Input Name



CHANGING THE TV SETTINGS

Using the System menu, you can:



System

Check for Updates

System Information

Menu Language English

Time & Local Settings

CEC

Power Mode Quick Start

Aspect Ratio Normal

TV Name Office TV

Mobile Devices

Accessibility

Reset and Admin

- Check for updates
- View system information
- Change the on-screen menu language

- Set time zone and local settings
- Adjust the CEC settings
- Adjust the power mode settings
- Adjust to preserve aspect ratio or fill the screen
- Name the TV
- Review and maintain the list of paired devices
- Adjust accessibility settings
- Reset the TV settings and setup administrative controls

Checking for System Updates

To check for a system update: Menu > System > Check for Updates

If an update is found, the TV will ask to confirm the update. If no update is found, the screen will note The TV is up-to-date.

Viewing System Information

To view technical data and status information about your TV and network connection: Menu > System > System Information

Changing the On-Screen Menu Language

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

To change the on-screen menu language: Menu > System > Menu Language

Highlight your preferred language (English, Español, or Français) and press OK .

Menu Language

English

Español

Français

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:
Menu > System > Time & Local Settings > Time Zone

To turn Daylight Saving Time on or off:

1. Highlight Daylight Saving Time and press OK . The Daylight Saving Time menu is displayed .
2. 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 .

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:

Set up your audio device and connect it to the HDMI-1(HDMI Arc) input on the TV . On your audio device, select the HDMI ARC input.

Menu > System > CEC

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 .

Adjusting the Power Mode

Your TV is set to Eco Mode by default. When the TV is powered off, the Eco Mode setting uses less than 0 .5W of power . Quick Start Mode enables your display to power on faster and also to turn on when powered from another device (such as when you are casting onto the TV) .

WARNING: Please note that by changing this setting the energy consumption required to operate this device will change .

To switch between Eco Mode and Quick Start Mode: Menu > System > Power Mode

Highlight either Eco Mode or Quick Start Mode and press OK.

Changing the TV Name

Naming your TV helps differentiate it from other cast devices you may have in your home .

To edit your TV name: Menu > System > TV Name > Enter a Name

TV Name

Living Room TV 

a	b	c	d	e	f	g	h	i
<u>j</u>	k	l	m	n	o	p	q	r
s	t	u	v	w	x	y	z	0
1	2	3	4	5	6	7	8	9
.@#		äêí	Space					

Managing Mobile Devices

Your TV can be paired with a mobile device so you can easily control your TV across multiple devices .

To see a list of paired devices or unpair a device: Menu > System > Mobile Devices

Highlight a device name to delete it and press OK.

Mobile Devices

Djae's Tablet

Ana's Phone

Work iPad

Accessibility Settings

VIZIO is committed to providing intuitive, user-friendly products . Your new VIZIO TV offers several accessibility features that can help you with easy navigation.

To access the Accessibility menu: Menu > System > Accessibility

Accessibility

Talk Back	Off
Speech Rate	Normal
Zoom Mode	Off
Video Description	Off

1. **Talk Back** — Enables your TV to speak all settings changes and adjustments using the remote in English.

2. **Speech Rate *** — Adjusts the rate in which Text-to-Speech is spoken . Select Slow, Normal (Default), or Fast.
3. **Zoom Mode** — Enlarges a section of the screen by approximately 200% .
4. **Video Description** — If included by the broadcaster, provides a narrated description of the action for the content.

To access the Closed Caption menu: Menu > Closed Captions

To access the Video Description menu: Menu > Channels > Digital Audio

TIP: You can also enable/disable accessibility features using the included remote . Please see Using the Remote on page 12.

USING THE RESET & ADMIN MENU

You can use the TV's Reset & Admin menu to restore the TV to its factory default settings as well as access other system settings .

Using the RESET & ADMIN menu, you can:

Reset & Admin

Reset to Factory Defaults

Soft Power Cycle

Power Indicator On

System PIN Code Off

USB Power Always On

Viewing Data

VIZIO Privacy Policy

Store Demo

- Reset the TV to factory settings
- Force the system to power off and on
- Create a system pin code to lock content and picture settings

- Turn USB power on or off.
- Enable or disable program offers and suggestions
- Enable or disable anonymous debug data for system performance .
- Start or stop the store demo mode

Restoring the TV to Factory Default Settings

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

To restore the TV to its factory default settings: Menu > System > Reset & Admin > Reset to Factory Settings

1. If you set a system PIN code, enter it now .
2. The TV displays, "Select Reset to restore all TV settings to factory defaults ."
3. Highlight Reset and press OK .
4. Wait for the TV to turn off. The TV will turn back on shortly afterward and the setup process will begin .

Performing a Soft Power Cycle

A soft power cycle forces the TV to turn off then on again.

Menu > System > Reset & Admin > Soft Power Cycle > YES

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 wireless or picture settings.

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: Menu > System > Reset & Admin > Power Indicator > ON/OFF

Setting a System PIN

You can set a system pin to lock content and picture modes, as well as prevent accidental system resets. The first time you select System PIN code, you will need to create a PIN .

To create a PIN: Menu > System > Reset & Admin > System PIN Code > Enter Your PIN > Save

System Pin Code

Change the PIN used for the System PIN.

New PIN

Confirm PIN

WARNING: You will need to enter your current PIN code the next time you access this menu or if you'd like to change your PIN.

Using the USB Power Feature

The USB port can be used to charge devices .

The two options for this feature are:

- **Always On** — Power is always available .
- **Off When TV Off** — Power is only available with the TV is on .

USB Power

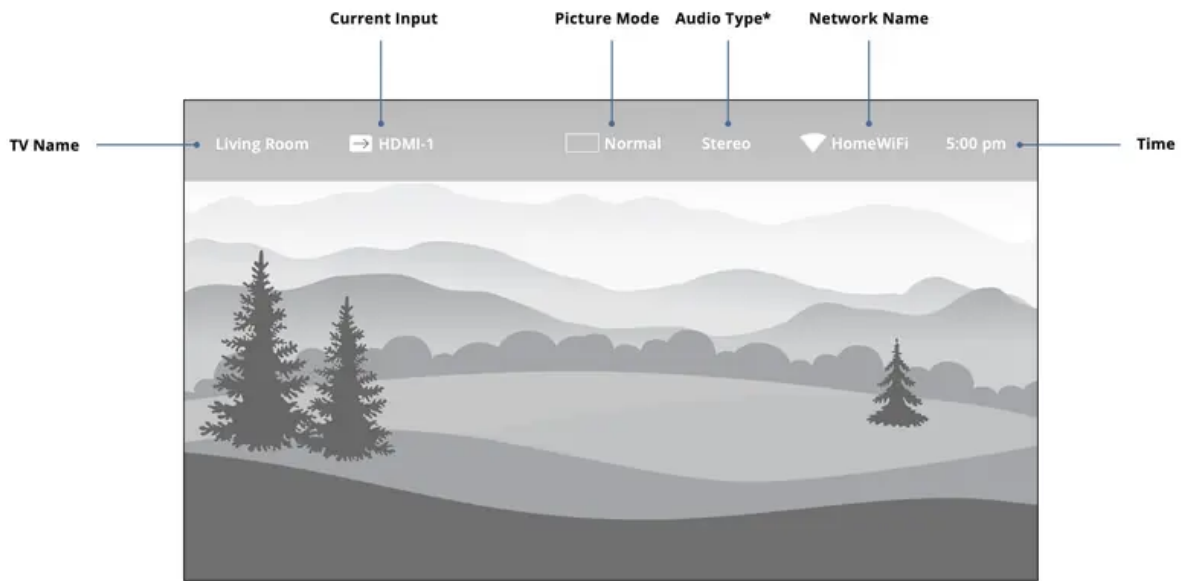
Always On

Off When TV Off

USING THE INFO WINDOW

Press the INFO button one time to display:

- TV name
- Current input
- Picture mode
- Audio type
- Network name
- Time



*When TV speakers are off and Dolby Atmos content is passed through the TV to a sound bar or

other audio device, the Dolby Atmos icon  will display with "Audio Out ."

SmartCast HomeSM

What is SmartCast Home?

SmartCast Home lets you discover, stream, and control your content like never before! Access top apps, like Netflix, Hulu, and Amazon Prime Video, by using the remote to easily browse and launch content directly from the home screen . SmartCast Home makes finding something to watch easy and fun.

How to Launch SmartCast Home:

Begin streaming with SmartCast Home by:

- Press the SmartCast Home  or  button on your remote .

—or—

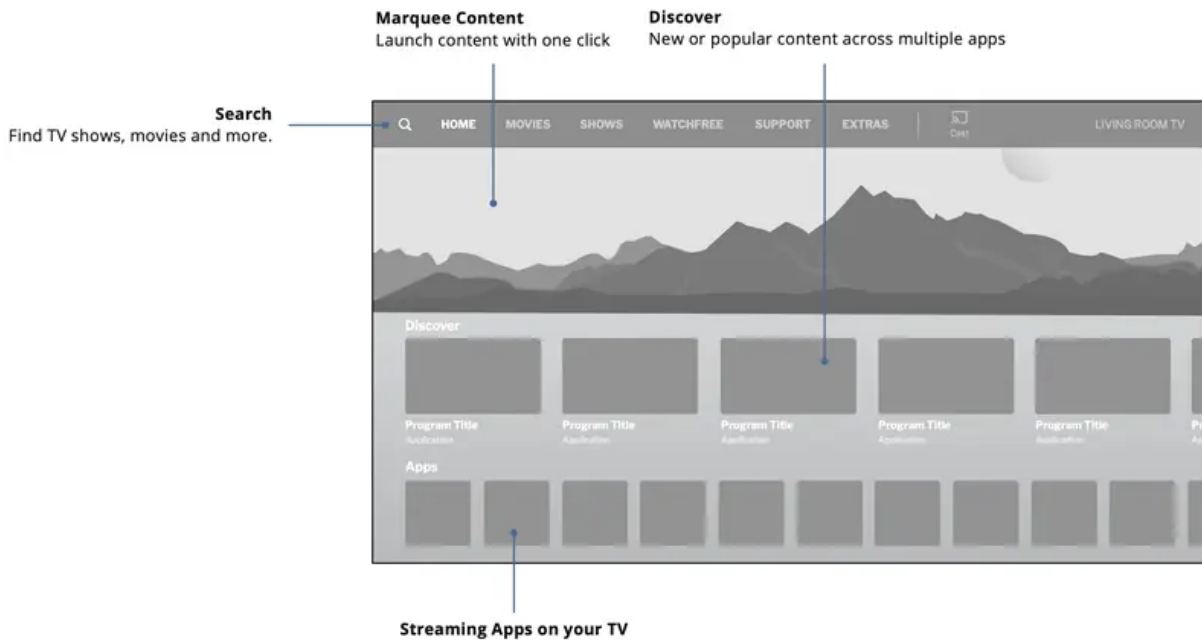
- Select SmartCast from the list of inputs .

What you can do with SmartCast Home

- Stream high quality entertainment .
- Launch top tier apps directly from the home screen .
- Unlock your photos and videos by mirroring your laptop or mobile device onto your TV .
- Rearrange apps on your home screen just the way you like it .
- Works with Google Assistant and other popular voice assistants .

With SmartCast Mobile, you can:

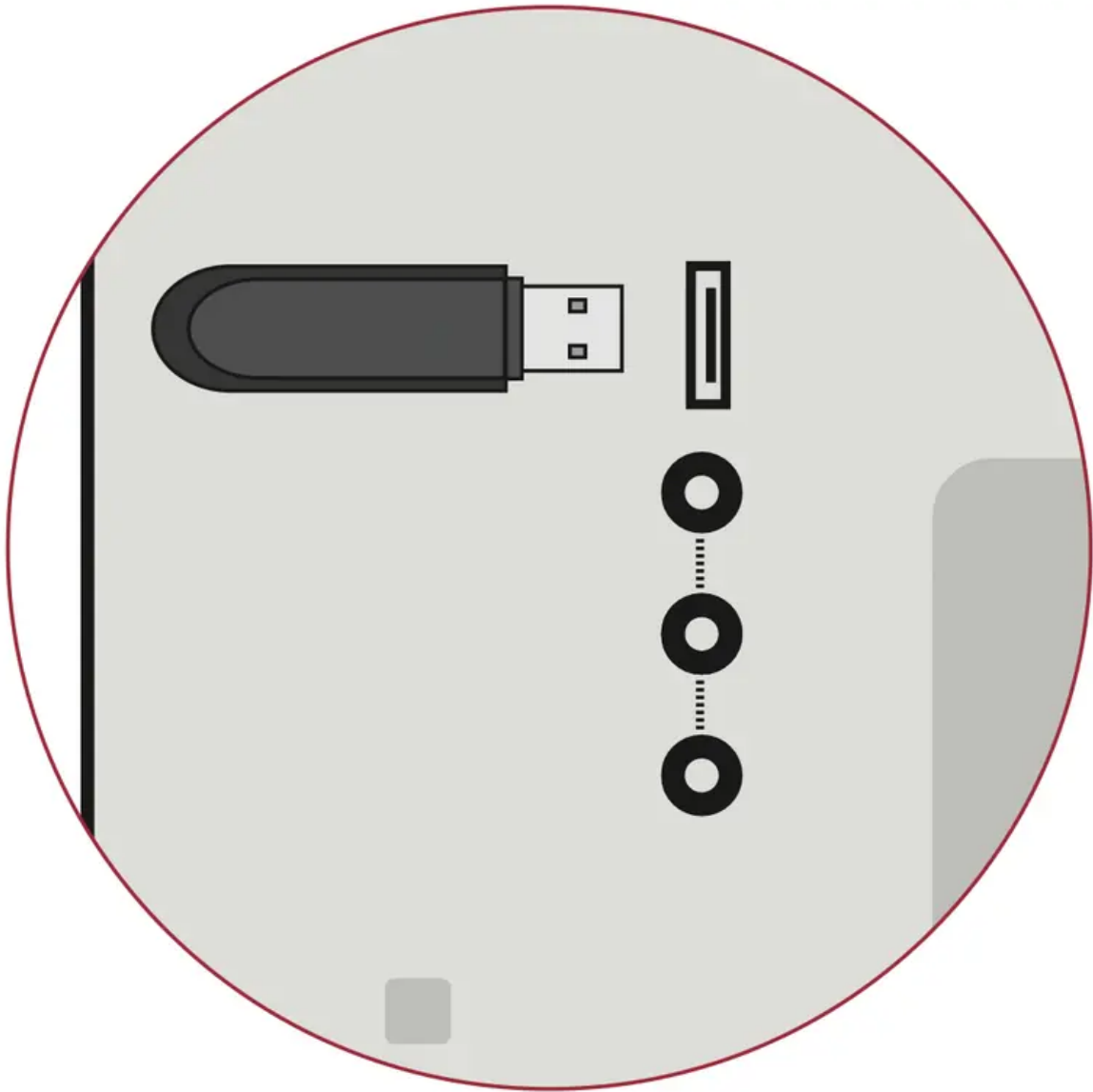
- Power on/off devices, play/pause content, and modify advanced settings, all from the palm of your hand .
- Easily enter text onto your TV/display from your mobile device using a full keyboard .
- Browse and discover movies, TV shows, music, live streams, and more, across multiple apps at once .
- Access a quick look at show ratings, synopsis, cast, crew, clips, and other details .



Playing USB Media

The USB Media Player allows you to connect a USB flash drive to your TV and play music, video, or photos .





Preparing Your USB Drive to Play USB Media

To display USB media, you must first save your videos onto a USB flash drive:

- The USB flash drive must be formatted as FAT32.
- Files on the USB flash drive must end in a supported file extension (.mp3, .jpg, etc) .
- The player is not designed to play media from external hard drives, MP3 players, cameras, or smartphones .

Displaying USB Media

To display your USB media:

1. Connect your USB flash drive to the USB port on the side of the TV.
2. The TV will recognize the USB . Use the Arrow Keys on the remote to select the content you want to play.

—or—

3. Select USB from the bottom streaming icons on the SmartCast Home SM page .

TIP: You can display your photos in Fullscreen . Select the photo, press OK, then highlight Fullscreen and press OK .

Removing the USB Drive from the TV

To safely remove your USB flash drive from the TV:

1. Turn the TV off .
2. Disconnect your USB flash drive from the USB port on the side of the TV.

WARNING: Do not remove the USB flash drive while the TV is on. Doing so may damage the drive

Playing USB Media: Music

Back Button
Highlight this button and press **OK** to return to the previous screen.

Now Playing Information
Displays song title, album title, and artist name.

Progress Bar
Displays the duration of the currently-playing song. The bar will lengthen as the song progresses.

Album Art
If included on the USB thumb drive and associated with your music, the album art will display here.

Connected Sources
Displays connected USB devices.

Current Folder
My Music

Playback Control

Toggle Music/Photos
Browse Photos

Sort by Album/Artist/Track
Sort: Artist: A - Z
View: Folders

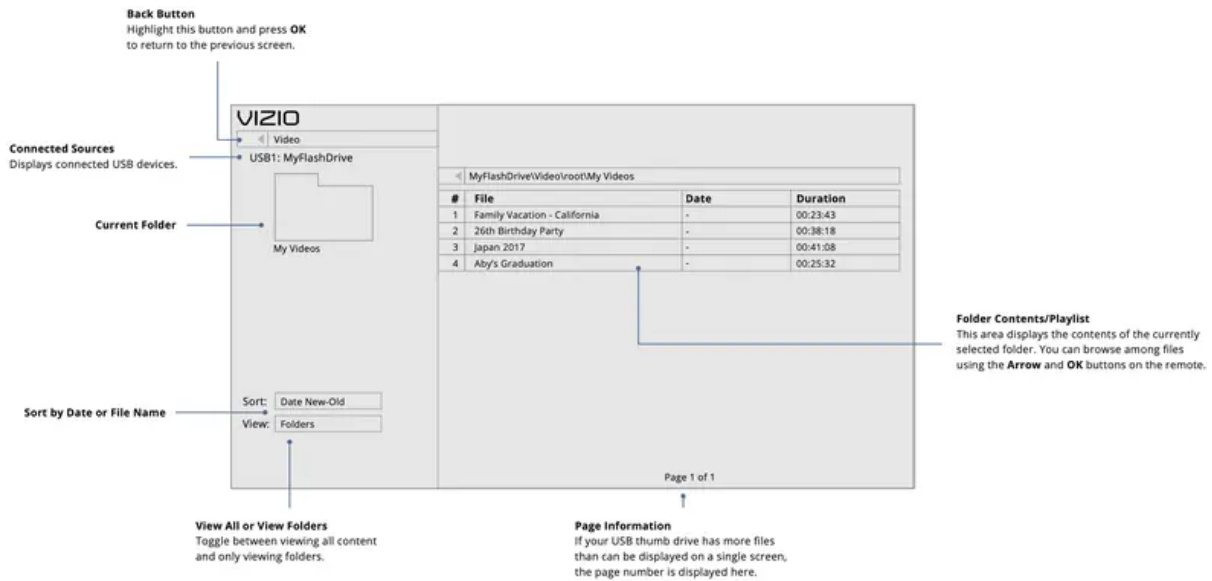
View All or View Folders
Toggle between viewing all content and only viewing folders.

Page Information
If your USB thumb drive has more files than can be displayed on a single screen, the page number is displayed here.

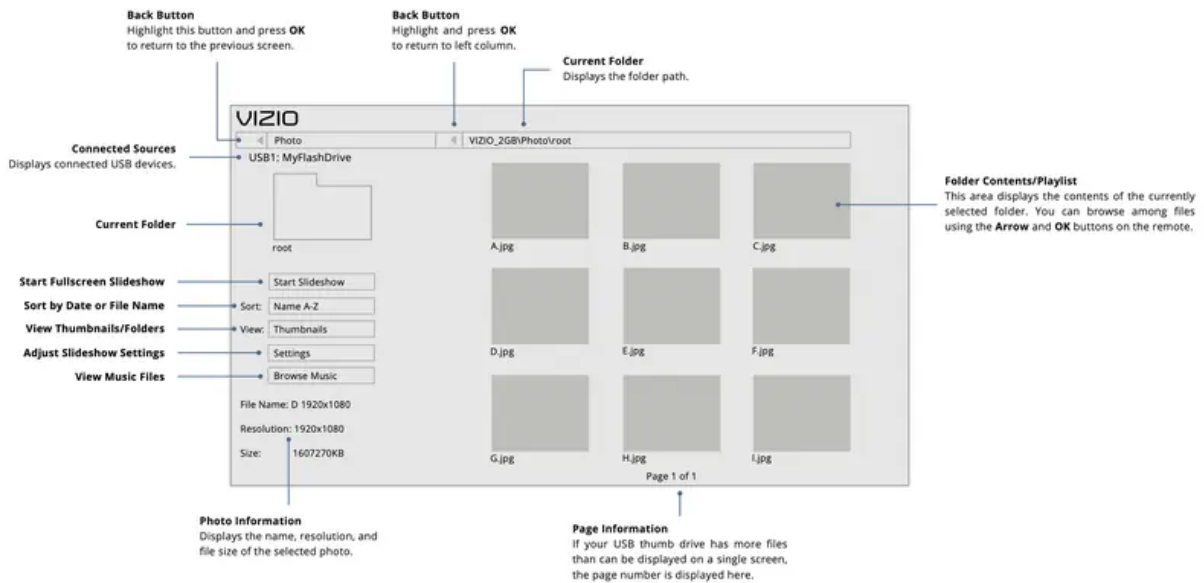
Folder Contents/Playlist
This area displays the contents of the currently selected folder. You can browse among files using the **Arrow** and **OK** buttons on the remote.

#	Track	Album	Artist	Duration
1	Starry Summer	Summer Mix	JCheesy	2:42
2	Downspin	Summer Mix	JCheesy	6:20
3	Mango Dream	Beach Mix	Ana Banana	8:46
4	Crystal Waters	Beach Mix	The Dash	4:21
5	Smooth Waves	Breezy Mix	Rio Steve	7:58

Playing USB Media: Video



Playing USB Media: Photo



Help Topics

The remote is not responding.

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

The TV displays “No Signal”.

- Press 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 24.

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 back 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 16 .
- Press the INPUT button on the remote to select a different input source.

The sound is flat or dialog is not audible.

- Turn off Volume Leveling. See Adjusting the Audio Settings on page 21.

How do I stream apps like Netflix to my VIZIO SmartCast™ TV?

- Download and open a Chromecast-enabled apps on your mobile device . Then tap the Cast button .

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 16.
- Select a pre-set picture mode. VIZIO recommends selecting Calibrated .
- Check all cables to ensure they are securely attached .

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 21.
- 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 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 TV image does not cover the entire screen .

- If you are using TV, AV, or Component with 480i input, go to: Menu > System > Aspect Ratio 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 .

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 12 .

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 TV 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 15 .

How do I download the VIZIO SmartCast Mobile™ App?

- Make sure your phone or tablet is connected to a Wi-Fi network . Open a browser on your phone or tablet .
- Navigate to [vizio .com/smartcastapp](http://vizio.com/smartcastapp) and follow the on-screen instructions to download the VIZIO SmartCast Mobile™ App .

How do I change the Inputs?

- Press the INPUT button on the back of the TV to cycle through the Inputs .
- Press the INPUT button on the basic remote to cycle through the Inputs .
- Make sure the VIZIO SmartCast Mobile™ app is installed on your phone or tablet . Open the VIZIO SmartCast Mobile app . Tap on the Device list and select your TV . Tap on the Input key and select the Input of your choice .

How do I connect to my Wi-Fi network?

- On your TV remote, press the Menu button then go to Network > Select your Wi-Fi name > Enter password .
- Open the VIZIO SmartCast Mobile™ app on your phone or tablet . Tap on the device list and select your Display .
- Tap on the Settings icon > Network > Wireless Access Points . Select your Wi-Fi network from the list, enter the Wi-Fi password, and tap Connect .

How do I exit Demo Mode

- Press and hold the INPUT button on the back of the TV to exit the demo mode .

How do I watch Cable/Antenna TV channels?

- If you subscribe to cable or satellite, simply connect an HDMI cable (not included) to the receiver .
- If you use external antennas to watch local broadcast channels, use a coaxial cable to connect .

Some of my Channels are missing.

- Press the MENU button on your TV remote and select the channels option . Then select Find Channels.
- Open the VIZIO SmartCast Mobile app on your phone or tablet .
- Click on: Control > Your TV/Device Name > Settings Icon > Channels > Find Channels .

How do I disable/enable Viewing Data?

- Press the MENU button on your remote and select the System option . Select Reset & Admin. Then select Viewing Data to turn the feature on or off.
- Open the VIZIO SmartCast Mobile app on your phone or tablet .

- Click on: Control > Your TV/Device Name > Settings Icon > System > Reset & Admin > Viewing Data Slider.

The television will not turn on using Alexa or Google Assistant .

- Ensure the television is in Quick Start mode .
- Tap on Menu > System > Power Mode > Quick Start .

How do I know I am getting 4K resolution or HDR content such as Dolby Vision?

- As you are watching content on the television, press the INFO button on the remote or VIZIO SmartCast Mobile app. You will see the current resolution being displayed along with the version of video .
- HDR will show as a Dolby Vision icon, HDR10 or HLG .

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.