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23		WatchFree+	
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25		Lock By Apps	
26	Store Demo		

10.1 Menu Language

	Menu Language settings	Notes
1	English	
2	Español	Native language for user - not translated
3	Français	Native language for user - not translated

10.1.1 Menu Language Requirements

	Menu Language settings
1	The menu language for the TV OSD applies to the TV platform display but not the language heard.
2	After changed, the selected language is used thereafter for all annunciations and notifications on the TV and the SmartCast app.

10.2 TV Information

	Heading	Setting	Definition
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1	TV		
2		TV Name	
3		Serial Number	Serial Number reordered: lead with the first 2 digits. Tech support request to confirm user reports serial number from system info not back panel.
4		Model Name	
5		Firmware	
6		Cast	Cast version
7		VIZIOS	VIZIO OS version
8		Conjure	Chromium version
9		SCPL	SmartCast Platform version
10		SC Config	SC Config e.g. HomeTest 24.7
11		Last Update	<p>Date of last DLM update from the install manager including but not limited to version updates to the following modules as needed:</p> <ul style="list-style-type: none"> • Vizio OS • Conjure • ACR • AppleTV • DAI • Vizio NDK • ToolkitX • VZ Airplay • Vizio SDK <p>Currently a DLM update is limited to one module but multiple modules is expected in the future.</p>
12		Input	Current source
13		Uptime	
14		watchfree	version
15		home	version
16		avod	version
17	NETWORK	Connection	Wi-Fi 2.4 Ghz, Wi-Fi 5 Ghz, Wired, none
18		Wi-Fi Network	network name
19		IP Type	IPv4, IPv6 or IPv4 and IPv6
20		IPv4 IP Address	IPv4 with 32 bit or N/A
21		IPv4 Default Gateway	
22		IPv4 Subnet Mask	
23		IPv6 Address	128 bit (may require 2 lines even in HEX) or N/A
24		IPv6 Default Gateway	
25		IPv6 Prefix Length	
26		Pref. DNS Server	Lists IPv4, then IPv6
27		Alt. DNS Server	Lists IPv4, then IPv6
28		RJ45 MAC	
29		WLAN MAC	
30		Wi-Fi Signal Strength	<p>RSSI Signal Strength per antenna</p> <p>RSSI value converted to qualitative word:</p> <ul style="list-style-type: none"> • Excellent: – 100 Mbps and above • Good: – 99 to 50 Mbps • Fair: – 49 to 20 Mbps • Weak: – 20 Mbps and under • Not connected: - 90 dBm and lower or connection lost or never connected

31		Wi-Fi Security	<ul style="list-style-type: none"> • Open • WPA TKIP • WPA2 AES • WPA2 TKIP • WPA/PSK • WPA2+WPA3 AES • WPA3 SAE • WPA3 Enhanced Open Mode
32		Wi-Fi Module	revert back to include brand name with digits
33	VIDEO		
34		Resolution	Resolution of source. n/a if no source or graphics such as VIZIO Home page.
35		Frame Rate	Vertical Frame Rate is a dynamic setting updated every second n/a if no source or graphics such as VIZIO Home page.
36		Audio In	PCM, AAC, DTS, DTS-HD, DTS-X and to satisfy Dolby requirement: <ul style="list-style-type: none"> • Dolby Audio • Dolby Atmos: If TV speakers are audio source, per the Dolby license agreement, if Dolby Atmos comes into TV, the Input Change Control may not display the Dolby Atmos logo. This is true even though TV Speakers downgrades to Dolby Audio. This is why Input Change Control displays the Dolby Audio logo. Blank if no audio
37		Audio Out	PCM, DTS, DTS-HD, DTS-X, Dolby Audio DD, Dolby Audio DD+, Dolby Atmos DD+, Dolby Atmos MAT, Dolby Atmos TrueHD, blank if no audio
38		HDR	No, Dolby Vision, HDR10, HDR10+, HLG; UHD TVs only No display for D series
39		VRR	Yes, No; dynamic setting updated every second
40	APPLICATION		
41		VIZIO NDK	VIZIO NDK is version for AppleTV and other TBD applications as needed.
42		AirPlay	
43		AirPlay Internal	Apple AirPlay web app version
44		Apple TV	Apple TV is the application version
45		Cobalt	
46	REMOTE		
47		Remote Status	<ul style="list-style-type: none"> • Paired, connected • Paired, not connected • Not paired, not connected
48		Battery Level XX%	N/A if not paired
49		Remote Firmware	N/A if not paired
50		Bluetooth Firmware	N/A if not paired (version in the remote)
51		Bluetooth MAC address	N/A if not paired
52		Bluetooth Driver	VIZIO version (e.g.VIZIO.3.0.416.0 instead of MTK5691.3.0.416.0.
53	ULI		
54		ESN	Version detected in software. Customer support request, reverted to ESN.
55		SV	System firmware version
56		REG	yes/no
57		NP	number of provisional objects
58		Netflix ESN	ESN for native Netflix (no Netflix ESN for Cast)
59		UID	ULPK index

60		Dev ID (Device/Core ID)	truncate 32 characters to 8 left most characters
61		Prov ID (provisional/DRMP ID)	truncate 32 characters to 8 left most characters
62		DA	device agent, such as 3.5.11
63		Country	As per geofencing one of the following: USA, Canada, Mexico and for all others, Unknown.
64	CHANNEL		<ul style="list-style-type: none"> • If source is tuner, all settings are displayed. • If source is not tuner, display Tuner module only
65		Physical Channel	e.g. 28-1
66		Frequency	<ul style="list-style-type: none"> • e.g. 55.70 (display in MHz)
67		Modulation	8VSB
68		Status	Channel acquired
69		Signal Strength	e.g. 0
70		Tuner Module	tuner brand revert back to brand name with digits

10.3 TV Name

	TV Name Requirements	Notes
1	TV Name is included in the Info status and the sidebar header.	
2	The TV name can be changed with the onscreen keyboard. A maximum of 24 characters is supported.	
3	If a 25th character is attempted, a notification displays.	
4	The TV font includes a character set limited to letters, digits and a specific set of symbols, emoticons are not supported.	If TV name is created with emoticons or a foreign character set using SmartCast mobile, when displayed on the TV, the emoticons or unsupported characters in the TV name are replaced with a box.

10.4 Time

	Time settings	Notes
1	Time and data, static display	If unknown, display "Time not available".
2	Automatic Time	When network connected, supported by geofencing.
3	Time Zone	
4	Daylight Saving Time	
5	Time Format	

10.4.0 Time and Date Requirements

	Time and Date Requirements	Notes
1	When time is unknown (network never connected), the time in the Info Bar as well as the Time menu is blank (nothing displayed, not 00:00).	

10.4.1 Automatic Time

	Automatic Time Requirements	Notes
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1	Automatic Time includes settings: <ul style="list-style-type: none"> • Checked ((default) • Unchecked 	
2	When networked connected the time is provided. There are two states: <ul style="list-style-type: none"> • Checked, automatic time applies from UTC • Unchecked, manual time applies and time is not provided from UTC 	Time is automatically displayed based on UTC from the Internet.
3	Includes a check box with checked as the default.	<ol style="list-style-type: none"> 1. Checked supports geofencing to set time automatically. After network connected, Geolocation defines the time zone and DST offset to UTC time. 2. Time Zone and DST in the Time menu are grayed out.
4	If check box for automatic time is unchecked then Time Zone and DST in the Time menu are selectable.	
5	UTC time from the network are offset by manual selection of Time Zone and DST.	
6	If the TV is not network connected, then time can be acquired from the scanned tuner.	DELETED - never implemented

10.4.2 Time Zone

	Time Zone settings	Notes
1	HST (GMT-10)	Includes all UTC time zones in the world
2	AKST (GMT-9)	
3	PST (GMT-8)	default
4	MST (GMT-7)	
5	CST (GMT-6)	
6	EST (GMT-5)	
7	AST (GMT-4)	
8	ART (GMT-3)	
9	AT (GMT-2)	
10	WAT (GMT-1)	
11	GMT (GMT+0)	
12	CET (GMT+1)	
13	EET (GMT+2)	
14	MSK (GMT+3)	
15	AMT (GMT+4)	
16	PKT (GMT+5)	
17	OMSK (GMT+6)	
18	KRAT (GMT+7)	
19	CST (GMT+8)	
20	JST (GMT+9)	
21	AEST (GMT+10)	

22	SAKT (GMT+11)	
23	NZST (GMT+12)	
24	IDLW (GMT-12)	
25	NT (GMT-11)	

10.4.3 Daylight Saving Time

	Daylight Saving Time settings	Description
1	Auto (default)	When DST is in effect in the spring, the time is advanced one hour, and in the fall, when standard time zone resumes, time falls back one hour.
2	On	DST is always applicable and must be turned off if no longer in effect.
3	Off	DST never applies, desirable for regions such as Arizona and Hawaii where DST does not apply.

10.4.3.1 Daylight Saving Time Requirements

	Daylight Saving Time Requirements	Notes
1	Daylight Saving Time, Auto setting, is provided to ensure time automatically changes with DST if applicable for the time zone.	
2	Daylight Saving Time is grayed out if Automatic Time is checked.	
3	If Automatic Time is selected, then always include Daylight Saving Time offset in System Time if applicable. (DST setting does not apply)	The DST offset of the time is applied based on geolocation and time of year.
4	Automatic Time is NOT selected and Daylight Saving Time is Automatic, include DST offset in System Time.	The DST offset of the time is applied based on manual selection of the time zone.
5	When Automatic time is NOT selected and Daylight Saving Time is OFF, ignore geolocation response including DST offset.	

10.4.4 Time Format

	Time Format settings	Notes
1	12 hour (default)	
2	24 hour	

10.4.4.1 Time Format Requirements

	Time Format Requirements	Notes
1	The time format can be displayed in either 12 hour format (with AM/PM) or in 24 hour format.	

10.5 Manage Input List

	Input Name Requirements	Notes
1	<p>Selection of Manage Input List displays a selection of two settings :</p> <ul style="list-style-type: none"> • Rename • Hide 	Only HDMI ports can be renamed or hidden. Antenna can no longer be hidden as futureplan is to eventually remove.

10.5.1 Rename

	Rename Requirements	Notes
1	Selectable list of HDMI ports with the name of the port.	If no change is desired (input not renamed or CEC/SPD IF name is satisfactory), then no further action is taken.
2	For the selected HDMI port, a list of predefined names displays with a Custom selection at the end. <ul style="list-style-type: none">• Port Name• Blu-ray• Cable Box• Computer• DVD• DVR• Game• Satellite• Xbox• Custom	Added Xbox because no self report of device name with CEC.
3	If a device name is selected from the list then <ul style="list-style-type: none">• return to the list of HDMI ports• the assigned name displays as the setting instead of the port name	
4	Selection of Custom displays keyboard entry with: <ul style="list-style-type: none">• Help text at the top "Enter a custom input name of up to 15 characters"• text entry field• alphanumeric keyboard to allow entry of a custom name• Save and Cancel buttons	
5	Selection of the Save button from the keyboard entry returns to the list of predefined names with "Custom" replaced the the new name.	
6	Maximum number of characters is 15. If a 16 th character is attempted, a notification displays.	Name limited to 15 characters in VIZIO Home and VIZIO Home input tray.
7	The TV font includes a character set limited to letters, digits and a specific set of symbols, emoticons are not supported.	If TV name is created with emoticons or a foreign character set using SmartCast mobile, when displayed on the TV, the emoticons or unsupported characters are replaced with a box.

10.5.1.1 Input Name requirements

	Input Name Uses CEC Name Requirements	Notes
1	Inputs can be named in three ways: <ul style="list-style-type: none">• automatically through CEC• HDMI SPD IF• entering a custom name:• select a predefined name• type in a name.	
2	In the Input selector or input section in VIZIO Home the assigned name displays instead of the port name.	

10.5.1.2 Input Name uses CEC Name

	Input Name Uses CEC Name Requirements	Notes
1	When a hot plug detection of an HDMI input occurs, the CEC device name applies: TV input is automatically renamed to the CEC name detected during discovery.	If a CEC name is not included at discovery display HDMI-X.
2	The CEC identified name can be changed to a user input name.	

3	If a different CEC device is later discovered, then the user input name is replaced with the CEC assigned name for the new device.	
4	If the CEC device is removed the HDMI port falls back to the customized name (not the HDMI port name).	Align with Apple requirement.
5	<p>For VIZIO Soundbars input name assigned as follows:</p> <ul style="list-style-type: none"> VIZIO 2022 Atmos and AiO use the simplified name: VIZIO Elevate (both M and P skus) VIZIO AIO <ul style="list-style-type: none"> VIZIO: For all other soundbars display as VIZIO soundbar 	<p>Deleted the following for all soundbars excluding Elevate and AIO:</p> <ul style="list-style-type: none"> VIZIO + simplified name e.g. VIZIO-P514a, VIZIO-SB46514
6	<p>For CEC device connected to an audio device (not directly connected to TV)</p> <ul style="list-style-type: none"> Gray out the port name (HDMI-1) and predefined names. The grayed out port name is for the audio device. A custom name can be entered to replace discovered CEC name 	For example HDMI-1 for port name and HDMI-1 for the preferred name if the device is connected to an eARC sound bar.

10.5.1.3 Non-VIZIO Audio Devices Named Audio System

	Requirement	
1	Non-VIZIO sound bars or audio devices are named "Audio System"	

10.5.1.4 Input Name uses Xbox SPD IF name

	Input Name uses Xbox SPD IF name Requirements	
1	If no CEC name detected during discovery then detect the name with HDMI Source Product Description Infoframe (SPD IF) if available.	

10.5.2 Hide

	Hide Settings	Notes
• ¹	<ul style="list-style-type: none"> HDMI-1 HDMI-2 HDMI-3 (if supported) HDMI-4 (if supported) 	A list of HDMI ports with a checkbox displays.
2	Checkbox unchecked (default)	HDMI port displays in the Input list
3	Checkbox checked	HDMI port is hidden and does not display in the list

10.5.2.1 Hide Requirements

	Hide From Input List Requirements	Notes
1	Hide allows a user to hide HDMI inputs that are not connected.	Antenna can't be hidden as future plan is to remove it in favor of WatchFree+.
2	The hidden inputs do not display in the Input list.	
3	<p>The TV supports hot plug detection of HDMI ports. If Hide is set for an HDMI port and a device is connected:</p> <ul style="list-style-type: none"> Hot plug (5V connection signal) annunciates detection of the connected device HDMI input is included in the Input list. Setting remains Hidden so if the device is removed then the input is again hidden from the Input list. 	<p>Intended for temporary devices such as a camcorder.</p> <p>5V connection signal is used by TV to detect the connected source device.</p> <p>Hot Plug Detection is used by the source device to detect the sink (TV).</p>

4	Hide can be checked for any HDMI port but if a device is connected, the HDMI port remains visible in the input list.	
5	<p>VIZIO Home is current source with Last Used and More Inputs tiles.</p> <ol style="list-style-type: none"> 1. The HDMI input listed as the Last Used source changed from unchecked (visible) to checked (hidden). 2. From VIZIO Home, remove the Last Used tile (input that was hidden). 3. More Inputs remains without a Last Used input. 4. When another input is selected then the next time VIZIO Home display, the Last Used input tile displays again. 	

10.6 Sleep Timer

	Sleep Timer Settings	Notes
1	Off (default)	
2	30 minutes	
3	60 minutes	
4	90 minutes	
5	120 minutes	
6	180 minutes	

10.6.1 Sleep Timer Requirements

	Sleep Timer requirements	Notification
1	Twenty seconds before the Sleep Timer expires, a warning notification displays.	Hello! Sleep Timer will soon power off your TV. To cancel, press the 'volume' key on your remote.
2	Any key press from the remote resets the sleep timer to Off and removes the notification.	Not limited to volume, any remote key press resets the sleep timer.
3	If the sleep timer is disabled from a key press, then the TV notification is removed. If not, then sleep timer turns the TV off.	
4	When the sleep timer powers down the TV, the setting also is reset to the default (Off).	

10.7 Power

	Setting header	Notes
1	Input at Power On	
2	Power Mode	
3	USB Power	
4	Power Indicator	
5	Auto Power Off	
6	Blank Screen	

10.7.1 Input at Power On

	Input at Power On settings	Notes
1	VIZIO Home (default)	

2	Last Used TV Input	Behavior for fielded skus prior to this feature
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10.7.1.1 Input at Power On: VIZIO Home

	Requirements VIZIO Home at power On	Details
1	<p>At power on do not switch to VIZIO Home remain on current source:</p> <ul style="list-style-type: none"> • if no network/network not connected, remain on current source for • HDMI no sync • antenna channels scanned or unscanned • WatchFree+ with scanned channels <ul style="list-style-type: none"> • Network connected but no TOS, remain on current source for • HDMI no sync • antenna channels scanned or unscanned • WatchFree+ with scanned channels 	<p>Specifically if no Ethernet connection detected and no SSID and password e.g. Wi-Fi not setup in OOBE or “forget” WI-Fi. This prevents switch to VIZIO Home with display of “No Network” error for a TV planned for no network connection use case.</p> <p>For network connected but no TOS</p> <ul style="list-style-type: none"> • No TOS display for Antenna • Display TOS for WatchFree+.
2	<p>Using Input Selector, switch to HDMI then remain on current input if no network connection. Do not display countdown or notification, do not switch to VIZIO Home.</p>	<p>This prevents switch to VIZIO Home with display of “No Network” error if no SSID/password (consumer has never setup the network).</p>
3	<p>For power on, if last input is VIZIO Home, even if the TV is no longer connected, power on to VIZIO Home.</p>	<p>Network connection may be temporarily disconnected or may not be detected during power on sequence.</p>
4	<p>If Input at Power On is VIZIO Home do not display countdown and notification and do not go to the VIZIO Home page for these cases:</p> <ul style="list-style-type: none"> • Power on from Partner button • Power on from WF+ button • Power on from Airplay • Power on from Cast • Power on from CEC One Touch Play and “One Touch Play” setting is enabled OR setting not added • Power on or input switch from Apple WebApp /HomeKit. 	<p>Power On from CEC One Touch Play is supported if</p> <ul style="list-style-type: none"> • The setting for “One Touch Play” not included. • The setting for “One Touch Play” is set to Enabled.

10.7.1.2 Input at Power On: Last Used TV Input

	Requirements for Last Used TV Input	Details
1	<p>At power on, display the last used physical input. This is true for physical inputs even if no sync.</p>	<p>Applies to:</p> <ul style="list-style-type: none"> • HDMI ports • COMP (if supported) • Antenna scanned or unscanned • WatchFree+. (confirm with engineering)
2	<p>If Last Used Input is setting at TV power on, issue the CEC power on command.</p>	<p>Restore behavior for CEC power on to same behavior prior to inclusion of Boot to VIZIO Home.</p>
3	<p>If last used input is Antenna (channels scanned or not scanned) or WatchFree+, power on to Antenna or WatchFree+ respectively.</p>	<p>Preferred customer experience.</p> <p>Encourage WatchFree+ use.</p>
4	<p>If Last Used Input is setting and from Input Selector, switch to input that has no sync, do not display countdown, do not switch to VIZIO Home.</p>	<p>Restore behavior at input switching to same behavior prior to inclusion of Boot to VIZIO Home.</p>
5	<p>If an app was the source at power off, power on to VIZIO Home, not the app.</p>	<ul style="list-style-type: none"> • AirPlay • USB • Casted app • App

6	If the last used input is USB then TV powers on to VIZIO Home not USB even if USB stick inserted.	USB requires a player app included in VIZIO Home to play content.
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10.7.1.3 Input at Power On CEC Power-On Commands

	CEC Power-On Commands	Notes
1	Do not issue a CEC power command to peripheral devices when: <ul style="list-style-type: none"> The user powers on the TV If Last Used Input is setting at TV power on, issue the CEC power on command. 	Intent is to drive users to VIZIO Home if no sync when peripheral device is off. <ul style="list-style-type: none"> CEC power on command issued if Input Selector used to switch to HDMI port.
2	A CEC power command MUST be issued to ARC audio device or sound bar when: <ul style="list-style-type: none"> The user powers on the TV 	
3	One Touch Play continues to have full support to power on TV and CEC device.	If "One Touch Play" setting is disabled then One Touch Play is disabled.

10.7.1.4 Input Switching to No Signal Messaging

	Requirements Input at Power with No signal	Notes/Notification
1	TV is powered on and input change is selected.	
2	Selected input has no detectable incoming signal for one second.	
3	Standard "No Signal" displays for 30 seconds in screen center with SOC OSD.	<ul style="list-style-type: none"> Adding time to allow devices with long power on to do so. 30 seconds display is configurable via sc config
4	Display VIZIO home system UI message with an 30 second countdown icon.	<ul style="list-style-type: none"> "No signal available. Returning to VIZIO Home" Buttons: "Cancel" and "Return to Home (default)"
5	After 30 second icon countdown dismiss notification and automatically launch VIZIO Home	<ul style="list-style-type: none"> 30 seconds display is configurable via sc config
6	This message is displayed when the user switches input sources to: <ul style="list-style-type: none"> HDMI Tuner, if no sync, channels have or have not been scanned 	If Tuner has been scanned but no sync, then display notification and switch to VIZIO Home.
7	<p>If channels not yet scanned:</p> <ul style="list-style-type: none"> Display the scan channels notification for 30 seconds. A press of OK starts channel scan. If channel scan not started then after 30 seconds dismiss scan channel notification and display VIZIO Home system UI message with 30 second countdown icon. 	
8	If sync is detected anytime during 60 second period (30 seconds of "no Signal" plus 30 seconds of VIZIO Home system UI notification) then no switch to VIZIO Home.	
9	If screen is quiescent except for the countdown, a press of OK key launches VIZIO Home.	
10	If screen is quiescent except for the countdown, a press of Left followed OK key cancels launch VIZIO Home.	

11	<p>During countdown if the following keys are pressed, take down countdown, do not launch VIZIO Home, and take action as expected for key:</p> <ul style="list-style-type: none"> • Input • Back • Menu • Home • WatchFree+ • Partner button <p>All other keys have no effect on the timer or notification.</p>	<p>NOTES:</p> <ul style="list-style-type: none"> • Home launches VIZIO Home. • WatchFree+ launches • Partner buttons launch • Volume, Mute, Info display concurrently with the countdown if key is pressed.
12	If countdown and notification is dismissed from above, then do not display again during the viewing session for the input.	
13	Do not display this message if "Input at Power On" is "Last Used Input".	
14	If demo mode is enabled, do not display countdown or notification.	

10.7.2 Power Mode

	Power Mode settings	Definition
1	Eco Mode (default)	Eco Mode setting powers off TV to passive standby. Passive standby (also known as Passive Low) is defined as the lowest power state of $\leq 0.5\text{w}$ for Canada and USA and $\leq 1\text{ watt}$ for Mexico.
2	Quick Start	TV power off powers down the panel and all components except those required for Wake functions, required for power on from cast. Quick Start supports fast transitions to power on.

10.7.3 USB Power

	USB Power Settings	Description	Notes
1	Always On (default)	<p>Power is persistent to the device powered through USB even if TV is powered off (DC power cycles).</p> <p>If device is inserted in a USB port, the .5 watt limitation for Eco Mode no longer applies: power is increased to TV to support power to the USB device.</p>	If the device connected to the USB port draws too much power then a notification displays: "Power drawn from USB exceeds limit. Remove a device and try again. "
2	Off When TV off	When the TV powers down, power is no longer supplied to the device from the USB port.	For some devices, such as Bias Lighting, the preference is to stop supplying power to the connected device when the TV is powered off.

10.7.3.1 USB Power Requirements

	USB Power Requirements	Notes
1	When a device is powered by plugging into the USB port, power persists through DC power cycles.	

10.7.4 Power Indicator

	Power Indicator Settings	Description
1	Off (default)	After LED lights during power on, LED fades to off and remains off while the TV is powered on.
2	On	The LED remains dimly lit when the TV is powered on.

10.7.4.1 Power Indicator Requirements

	Power Indicator Requirements	Notes
1	The LED is never lit when the TV is powered off.	
2	If Power Indicator is On and demo mode is enabled and running: <ul style="list-style-type: none">• Power indicator is suppressed during demo mode.• Power indicator is restored if demo mode is disabled.	
3	Blank Screen is invoked, then the LED for the Power Indicator is turned on to dim even if the setting is Off.	The LED remains dim until Blank screen no longer applies from an applicable key press or a power cycle.

10.7.4.2 Power Indicated LED blinking when off

	Condition	LED behavior	Notes
1	Reset to Factory Settings	At launch LED blinks rapidly for 2 seconds	Confirms reset is in progress.
2	Reboot TV	LED blinks three times	Aka Soft Power Cycle

10.7.5 Auto Power Off

	Auto Power Off Settings	Definition
1	10 minutes (default)	To comply with California Energy Commission (CEC), after 10 minutes of no video and/or audio sync, the television is automatically powered down.
2	Off	

10.7.5.1 Auto Power Off Requirements

	Auto Power Off requirements	Notification
1	If enabled, then after 10 minutes of no sync, the TV automatically powers down. Twenty seconds before the TV turns off, a warning message displays.	No input signal. Power will be turned off. Saves energy.
2	If a channel or program is locked, after 10 minutes of blanked screen, though there is actual sync, the TV powers down.	
3	Even though there is no video sync auto power off does not power down the TV for the following: <ul style="list-style-type: none">• Audio ceases from an audio app (not a typical use case). The TV remains on with the LED lit.• Retail Demo enabled and Overlay Retail Demo is running over input with no sync.• VIZIO Home is current source and video is not streaming.	
4	If demo mode is enabled the Auto Power Off setting is changed to Off if set to "10 minutes". When demo mode is turned off then Auto Power off is restored to the "10 minutes" setting.	

5	<p>Auto Power Off set to 10 minutes: Use cases to auto power off TV after 10 minutes of no sync</p> <ul style="list-style-type: none"> • HDMI without signal • Demo mode is turned off • TV channel or program is locked, no signal • TV channel or program is locked, with signal • AirPlay is source but iPhone is not connected to TV • COMP without signal 	<p>Auto Power Off set to 10 minutes: Use cases to NOT auto power off TV after 10 min. no sync</p> <ul style="list-style-type: none"> • Source is VIZIO Home or app with graphics (netflix, YouTube, WatchFree+) • Audio ceases from an audio app • Overlay Retail Demo is running over input with no sync • VIZIO Home is current source, no video streaming • OOB • AirPlay is source, iPhone is connected but content is no longer playing (still image) • COMP with signal
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10.7.5.2 Auto Power Off with AirPlay

	Condition	Requirement if Auto Power is 10 minutes
1	Input selected is AirPlay but iPhone is not connected to TV	After 10 minutes of no sync, TV is powered down
2	Input selected is AirPlay, iPhone is connected but content is no longer playing (still image)	TV does not power off after 10 minutes of no action from the iPhone as the connection is still live.

10.7.6 Blank Screen

	Blank Screen Requirements	Notes
1	When the Blank Screen is selected, the backlight is immediately turned off for any source including SmartCast TV and apps, and TV settings is taken down.	No warning, no delay.
2	Once invoked, a press of any key on the remote or panel restores backlight, not processing the IR code.	
3	Or, from the VIZIO app, a tap of any function that controls the TV (input selection, settings, selection of content to play onscreen, etc) restores backlight and processes the function.	
4	One exception: a press of the key or tap of the function for VOLUME or MUTE changes the volume without restoring backlight to display the volume slider.	A long (2 second) key press of the MUTE key also elicits a video mute, the same as if the Blank Screen setting was selected.
5	When Blank Screen is invoked, the LED for the Power Indicator is turned on to dim even if the setting is Off. The LED remains dim until Blank screen no longer applies from an applicable key press or a power cycle.	

10.8 Parental Controls

10.8.1 System PIN Code

	System PIN requirements	Detailed Requirements
1	System PIN Code displays differently for:	<ol style="list-style-type: none"> 1. Set System PIN - First time Setup 2. Reset SystemPIN - Selection after PIN set
2	<p>First time setup displays</p> <ul style="list-style-type: none"> • PIN entry • PIN confirmation • Digit PAD displays • Cancel and grayed out Save buttons. 	For remotes with digits, direct digit entry of PIN is supported.

3	Steps for first time entry of PIN:	<ol style="list-style-type: none"> 1. Enter new PIN. 2. Enter PIN again to confirm. 3. If PIN's match then Save button is available. 4. Select Save button, the PIN is set. 5. If the PINs do not match, error message displays and user can try again or cancel. 6. If Cancel button selected, exit System PIN. PIN entry is not saved. 7. Each PIN digit entry is obscured on entry of the next PIN digit or after 5 seconds, whichever is first.
4	The new PIN is not annunciated from the TV.	
5	Default System PIN is 0 0 0 0 and is not set	0 0 0 0 is not allowed for customer use, only for testing.
6	If a System PIN has not been set, selection of Antenna in Parental Controls invokes the System PIN to force first time setup of the System PIN.	
7	System PIN does not lock until next power cycle.	After a power cycle, at next power on, PIN protection applies.
8	Once System PIN is set, at the next power cycle, selection of System PIN requires entry of the saved PIN. Then the Reset System PIN can be displayed.	Requirements for Reset System PIN same as for First time Setup.

10.8.1.1 Master System Unlock Code

	Requirements	Detailed Requirements
1	Default System PIN is 0 0 0 0 and is not set	System PIN of 0 0 0 0 is not allowed for customer use, only for testing.
2	To clear and remove the user entered system PIN code, enter the Master System Unlock Code of 5351.	The System PIN code reverts back to 0 0 0 0 and not set. A new System PIN code must be created.

10.8.1.2 PIN Entry to Release Lock

	System PIN Requirements to Release Lock	Detailed Requirements
1	To access PIN protected content, the saved PIN must be entered to release PIN protection:	<ul style="list-style-type: none"> • For the tuner, a locked channel per Parental Control settings (lock can be by content or channel) • For composite, recorded content (usually from Tuner), locked per Parental Control settings • Reset to Factory Settings • Parental Controls menu entry • Picture Edit Mode if Lock Picture Mode has been invoked • System PIN to release the current code and re-enter a new code.
2	During a power session, PIN entry to release the lock is only required once.	For example, correct PIN entry to enter the Parental Controls menu has released the PIN lock so Edit Picture Mode is no longer PIN protected.

10.8.2 Antenna

See attached section

10.8.3 WatchFree+

	WatchFree+ Lock Requirements	Notes
1	Deep links to WatchFree+ left nav parental controls	WatchFree+ parental controls is for streaming content, controlled only in WatchFree+.

10.8.4 Lock by Apps (TBD)

10.8.5 Lock by Inputs (TBD)

10.9 Store Demo

	Store Demo Settings	Description No Sync Detected	Description Sync Detected
1	Off (default)		
2	Demo 1	Embedded video available: Play embedded video, no overlay display No embedded video: Display V logo with Overlay If sync detected then stop play of embedded video and start Overlay	Display HDMI video with Overlay All other demo mode settings persist such as Vivid picture mode, volume set to mute , no response to INPUT, MENU and most IR codes, power up on AC cycle. If sync lost then launch and play embedded video
3	Demo 2	Embedded video available: Play embedded video No embedded video: Display V logo (do not play Overlay) If sync detected then stop play of embedded video but no Overlay	Display HDMI video with no demo content (do not play Overlay). All other demo mode settings persist such as Vivid picture mode, volume set to mute , no response to INPUT, MENU and most IR codes, power up on AC cycle. If sync lost then launch and play embedded video.

10.9.1 Demo Mode Requirements

	Demo Mode Requirements
1	TV supports retail demo mode that runs at a retail partner automatically without requiring special key sequences from the remote or TV back panel. Once in Retail Demo Mode, the TV displays a video selling the features of the system to a passer-by or a sequence of product messaging in HTML/JavaScript format that overlays the current video input.
2	Embedded video is the preferred content but if sync detected then: <ul style="list-style-type: none">• Demo 1 – Overlay plays• Demo 2 – Overlay does not play
3	At power on, a one minute notification that demo mode will launch displays before the demo mode resumes to allow turn off of demo mode by pressing any key.
4	During one minute notification for demo mode launch a press of the following keys ends demo mode countdown, dismisses notification, and store demo is not launched.: <ul style="list-style-type: none">• INPUT key• BACK key• EXIT key• Front panel button
5	Spanish or French for overlay demo mode is not supported so if language is Spanish or French , the demo mode notification displays in Spanish or French , but overlay demo mode is in English.
6	When the Store Demo setting is Demo 1 or Demo 2 on the SmartCast app, the change is annunciated on the TV. When Off is selected, the store demo is immediately killed. No confirming message required. In addition to a press of OK to see all 3 settings, when Admin & Privacy displays, a press of RIGHT or LEFT changes the setting same as any other setting.
7	Store demo remains enabled through power cycles with either Demo 1 or Demo 2 settings. At power on, a one minute notification that demo mode will launch displays before the demo mode resumes (allows turn off of demo mode).
8	For Overlay Retail demo the image size of 4K is supported.
9	For Embedded retail video demo, the videos can support up to 4K HDR and Dolby Vision if supported by the TV.
10	During demo mode (embedded or overlay) the TV ignores all but Power, Exit, Back or Volume Up/Down keys.

11	<p>When demo mode is launched (embedded or overlay)</p> <ul style="list-style-type: none"> power indicator is suppressed zoom mode is disabled, setting changed to off notifications no longer display including Input Change Control No sync notification insertion of USB stick is ignored (do not launch media player)
12	During demo mode (embedded or overlay), a long press from the front panel button displays notification "Wait 3 seconds for the TV to power off" and after 3 seconds powers off the TV.

10.9.2 Launch of Demo Mode

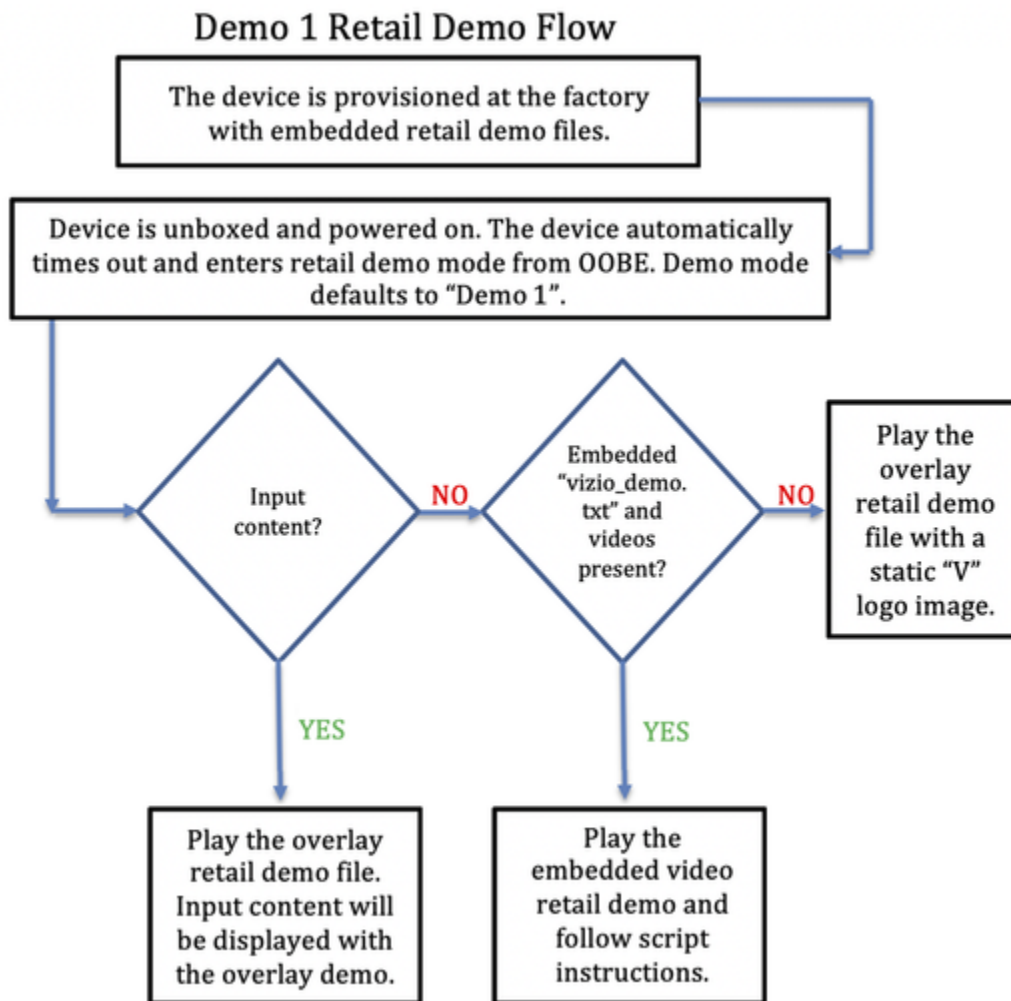
	Requirements	Notes
1	<p>The first time TV is powered on (OOBE)</p> <ul style="list-style-type: none"> after 15 minutes of onboarding display without setup 15 second count down displays with demo mode launch notification Demo mode is launched, either embedded demo or if none then Overlay retail demo plays. 	
2	<p>If AC/DC power cycle during OOBE 15 minute timer</p> <ul style="list-style-type: none"> 15 minute timer canceled At next AC/DC cycle the TV powers into OOBE and 15 minute demo mode timer restarts 	
3	<p>If AC/DC power cycle during the 15 second demo mode timer/notification</p> <ul style="list-style-type: none"> demo mode launch is canceled At next AC/DC cycle the TV powers on normally, no demo mode timer/notification. <p>OOBE restarts 15 minute timer</p>	
4	<p>For the first time launch from the sidebar displays a 15 second timer with demo mode notification. The notification is:</p> <ul style="list-style-type: none"> Store Demo 1 is launching. To cancel, press the input button on the remote control. Store Demo 2 is launching. To cancel, press the input button on the remote control. 	
5	Thereafter at power on a notification displays including a 1 minute count down, and then the embedded or overlay demo content begins play.	
6	Content is stored resident in the TV.	
7	<p>Volume changed to mute/0 when demo mode launched the very first time.</p> <ul style="list-style-type: none"> If volume changed, the value is not saved At AC/DC cycle volume changed to muted/0. 	TBD Volume value saved and resumes AC/DC cycle.

10.9.3 Embedded Video Retail Demo

	Embedded Video Retail Demo Requirements
1	Embedded video retail demo is also intended as the default demo.
2	The embedded video retail demo covers the screen completely.
3	The MP4 videos play using the embedded native media decoder by the chrome cast receiver. No HTML5 components.
4	Videos play in the order as defined by the included scripting. (See the demo mode scripting section in the System spec).
5	Videos do not respond to transport commands from IR remote or SmartCast app.
6	Volume Changed to mute/0 when demo mode launched.

10.9.4 Overlay Retail Demo (Demo 1)

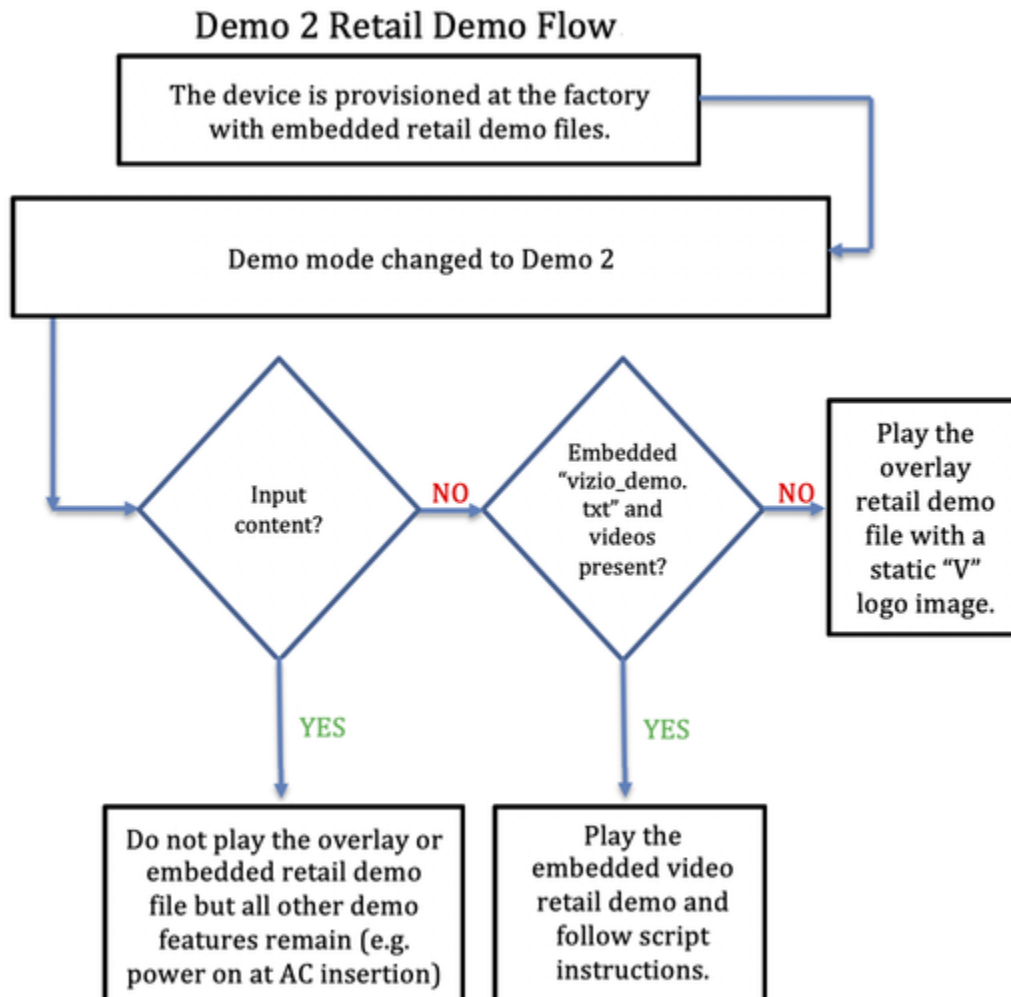
Overlay (Demo 1) Requirements	Notes/Text
<p>1 The Overlay retail demo is a Loki app that overlays some of the current source (HDMI)</p> <ul style="list-style-type: none"> • The overlay can move side to side to a left or right position • For Club SOC including Sam's club the overlay is fixed left due to a limitation 	
<p>2 Overlay retail demo is intended for when there is no access to the display, source content is playing (typically retailer content) or no embedded video loaded.</p>	
<p>3 To launch:</p> <ul style="list-style-type: none"> • While the OOB initial screen displays, select Store Demo then select Overlay. • Press MENU > System > Store Demo and select Demo 1. 	
<p>4 Flow chart of conditions if demo mode setting is Demo 1 to display default of Embedded Video Retail demo or Overlay demo mode over TV content.</p>	



10.9.5 No Overlay Demo Mode (Demo 2)

	No Overlay Demo Mode (Demo 2) Requirements
1	To support retail environment with demo mode features but without demo content (e.g. for Cosco), the no demo content Demo mode is launched if Demo 2 is selected.

2	<p>To launch:</p> <ul style="list-style-type: none"> While the OOB initial screen displays, select Store Demo then select No Overlay. Press MENU > System > Store Demo and select Demo 2.
3	Demo 2 is for Cosco to support standard demo mode features but without overlay displayed when sync detected.
4	Flow chart of conditions if demo mode setting is Demo 2 to display default of Embedded Video Retail demo or no Overlay demo mode with TV content



10.9.6 Input Selection for Store Demo

	Sync Detection	Input Selection
1	No sync	Store demo enabled, then default input is changed to HDMI-1.

2	<p>Sync Detected during demo: hot plug detection of HDMI input</p> <p>Sync defined by testing both:</p> <ul style="list-style-type: none"> • Detect the +5V connection event from the HDMI port • Confirm the video signal in the HDMI port is active based on TMDS Clock activity 	<ul style="list-style-type: none"> • Play of embedded Video Retail Demo stops • If a store feed is plugged into HDMI port, then via hot plug switch to the port and if sync play the store feed. • more than one HDMI port hot plug detected, stay at the currently selected HDMI port or if HDMI port is not the current source then switch to HDMI-1. • If the current HDMI-1 port has no sync and sync is hot plug detected for another HDMI port then auto switch to the second HDMI port, embedded is killed and launch overlay if Demo 1 OR no launch of overlay if Demo 2. • If only one port is hot plug detected and device is sound bar without video sync then play embedded demo video • Input not changed to VIZIO Home or USB Media Player. Selection of VIZIO Home and USB Media is ignored: the input does not change and store demo continues. • When store demo is enabled, a press of a partner key is ignored. • All HDMI devices are supported including PCs and particularly HDMI distributor boxes which are typically used at retailers to deliver content to TVs on display.
3	Source is antenna with sync post WatchFree+ OTA integration	Antenna source is no longer supported for demo mode.

10.9.7 Demo mode Enabled, Embedded Video Switch to Overlay if Sync

If Demo mode set to Demo 1 and Embedded Video Retail demo playing then:

	Demo Mode automatic switch to Demo 1 from Embedded Video Retail demo
1	Hot plug detection of HDMI input
2	Play of embedded Video Retail Demo stops
3	Overlay Retail Demo begins play over the HDMI port with content
4	If content removed from the HDMI port, Overlay killed and Embedded video retail demo launches
5	If content detected for HDMI port, then embedded content killed and Overlay demo played.
6	If Demo 2 then stop play of embedded video retail demo: no demo content but demo features such as Vivid picture mode, auto power on at AC on, etc.
7	If source is Antenna with sync (e.g. channels scanned) then demo mode started, switch to HDMI port with no sync (antenna not supported as source for demo mode overlay)

~~10.9.7.1 Force Embedded with Sync Detected DELETED~~

DELETED

10.9.8 CC Persistent Demo Mode Enabled

If closed captions is enabled when demo mode is enabled (Demo1 or Demo 2 launched), then CC continues and is persistent while in demo mode. (Requirement for some states).

10.9.9 Get Info for Demo Mode

	Requirements	Notes
1	While demo mode is running, support demo information access for merch team.	
2	Press the BACK key.	<p>Demo Mode notification displays with 4 buttons (left to right):</p> <ol style="list-style-type: none"> 1. Exit Demo 2. Demo Info 3. Resume Demo (default)
3	Select the Demo Info button	<ul style="list-style-type: none"> • Demo mode continues • Notification displays with TV and embedded demo information and OK button

4	Demo Information includes	<ul style="list-style-type: none"> Model Name Serial Number Version Embedded File Name (N/A if not included)
5	Press OK key	<ul style="list-style-type: none"> Demo Information pop up dismisses If OK key is not pressed after 90 seconds the demo information pop up is dismissed.

10.9.10 Exit Demo Mode

1	<p>During notification with count down, a press of the following keys exits demo mode</p> <ul style="list-style-type: none"> Input Back Front panel button (short press) Exit <p>This is true even though the notification only refers to the Input button on the remote.</p>
2	<p>While demo mode is running, press the EXIT or BACK key. A pop up displays with two options: Resume Demo, Demo Info and Exit Demo.</p> <ul style="list-style-type: none"> If Resume Demo is selected, demo mode resumes. If Demo Info is selected, a notification with information on the TV and embedded demo displays. If Exit Demo is selected then demo mode is disabled for the current power cycle. At the next power cycle demo mode 60 second notification displays. If OOB E completed when Exit Demos selected then demo mode dismissed and Store Demo setting changed to Off.
3	<p>From a power cycle, if onboarding was not completed, though demo mode was previously exited, demo mode is persistent. To permanently disable demo mode, onboarding must be completed.</p>

10.9.10.1 Demo Mode Launched at Power On from Partner or Home Key

	Requirement Power On Partner/Home Key	Notes
1	TV is in demo mode.	
2	Power TV off.	
3	Press Partner or HOME key.	TV powers on in demo mode.
4	Demo mode 60 second countdown launched	Keys function limited to cancel demo mode.
5	At conclusion of countdown demo mode launched.	Power, Exit, Back are only supported keys.

10.9.11 Demo Mode Onboarding Launch

1	The first time powered on, if the TV remains on the initial OOB E screen, then after 15 minutes, a notification displays with a 15 second counter.
2	If no user intervention, then the Embedded demo mode plays or if source content playing or no embedded content then Overlay retail demo automatically launches.
3	Thereafter, if OOB E is incomplete at power on, the Embedded retail demo or Overlay retail demo launches automatically after a 1 minute notification and count down given no user interaction.

10.9.12 Retail Demo Mode Key Support

10.9.12.1 Keys/Commands Supported During Demo Mode launch

	Key or Command	Action	Retail Demo Conditions
1	Power	Turn TV off	Yes (at power on)
2	Back, Exit	Kill Retail Demo	No
3	Front panel button	Kill Retail Demo	No
4	Input	Kill Retail Demo	No
5	Volume+/- and Mute keys	No Action	Yes

10.9.12.2 Keys/Commands Supported During Demo Mode Play

	Key or Command	Action	Retail Demo Conditions
1	Power	Turn TV off	Yes (at power on)
2	Front panel button	Notification to hold for 3 seconds then turn TV off	YES (at power on)
3	Back or Exit	Demo continues with Pop up. Confirm to kill retail demo mode	Demo resumed if selected Kill retail if selected
4	Volume+/- and Mute keys	Releases mute then adjusts Volume with display of volume slider	Yes
5	All others	No action	YES
6	CEC standby command	TV Turn off	Yes (at power on)