

7 Bluetooth and Remote

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	Bluetooth and Remote Settings	Type	Notes
1	Voice Remote	App	Launches Bluetooth Voice remote app.
2	Headphones	Submenu	
3	Game Controller	Submenu	

7.1 Voice Remote

	User Story	TV	Remote
1	OOBE setup - Bluetooth pairing of Voice Remote	Initial Setup (OOBE) – TV is in BT pairing during OOBE when the RC setup page is displayed.	1.Remote goes into pairing mode with insertion of batteries only if the remote is not paired to any TV. 2.Remote pairing mode times out at 10 minutes if not paired. 3.Fresh remote is not paired out of the box. 4.Press MIC and MUTE keys to relaunch pairing mode.
2	Launch BT remote app from side menu.	1.Select Pair remote -> TV is in pairing mode. 2.The HTML launches and allows remote pairing with or without a network connection	1.Long press (5 seconds) of MIC and MUTE keys places remote into pairing mode. NOTE: If remote not paired to any TV, the MIC key cannot function.
3	Re-Pairing remote that was paired but fails or loses pairing.	1.Select Pair remote -> TV is in pairing mode. 2.On successful pair, previous remote credentials deleted.	1.Long press (5 seconds) of MIC and MUTE keys places remote into pairing mode for 1 minute.
4	Pair remote with a different TV.	1.Select Pair remote -> TV is in pairing mode. 2.On successful pair, previous remote credentials deleted, if any.	1.If not paired with TV, long press (5 seconds) of MIC and MUTE key places remote into pairing mode for 1 minute. 2.When paired to new TV, delete pairing credentials for former TV.
5	Delete paired remote (remote factory reset)	N/A	1.Long press (5 seconds) of <u>MUTE and INPUT</u> clears all BT credentials to return to factory defaults.
6	Force unpair remote from TV	1. Delete paired remote invoked, then TV deletes remote credentials and goes into pairing mode.	N/A
7	TV not paired to any TV but user presses MIC key to speak.	1. TV displays notification with instruction to pair remote and begins BT search mode. 2. Notification not to show this again.	If not paired, press of MIC and MUTE keys places remote in pairing mode for 1 minute.
8	Paired remote out of range and not connected.	TV is BT listening to relink to remote.	When remote is in range, on press of any key, the remote issues relink request to TV to reconnect.
9	If remote is paired and insert batteries.	TV is BT listening to relink to remote.	On insertion of batteries, remote issues relink request to TV to reconnect.

10	TV is powered off, press Power key. NOTE: At power off, connected if quick start but not connected if eco mode	TV is BT listening to relink to remote.	On press of POWER key, the remote issues relink request to TV to reconnect.
11	Press and hold MIC key to speak	TV returns search results from SoundHound in full (aka Tom Cruise movies.)	MIC key press and release events are captured. MIC key press indicates start of speech. End pointing of an utterance is on MIC key release + 20 msec (TBD).
12	Launch Remote app but network not connected.	TV still switches to VIZIO Home and displays the Remote app. Remotes pairs via Bluetooth, network not required for remote pairing.	

7.1.1 Voice Remote Application

	Voice Remote Application settings	Type of setting
1	Pair new Remote	setting
2	Check for Update	setting
3	Unpair Remote	setting
4	Status (e.g. connected)	Informational
5	Battery Level	Informational
6	FW version	Informational

7.1.2 Voice Remote Control LED

1	User Story	Remote status	Remote LED
2	User is pairing	Remote is in pairing mode	2 strobes ON every 3 seconds
3	User expects pair confirmed	Remote pair completed	5 strobed ON
4	User reset remote	Remote reset factory defaults successful	LED flashes 3 times

7.1.3 Voice Remote Maintenance

1	Requirements	Comments
2	A maximum of 24 devices can be bluetooth paired with the TV for VIZIO mobile app.	
3	The internal paired list is maintained within the product but not displayed to the end user.	The purpose of the list and rules governing it will allow for a seamless Bluetooth user experience.
4	Paired Bluetooth devices will go on the internal "Paired" list, with up to 22 devices in non-volatile memory.	
5	The last (most recently) used Bluetooth device with VIZIO mobile app will be #1 on the list.	
6	<p>The order of the list depends on last used device:</p> <ul style="list-style-type: none"> last device with VIZIO mobile app used to control TV. list continues to the next most recently used device with VIZIO mobile app the last device on the list will be the device that the longest duration of time has passed since paired. 	
7	If a 23th device is paired then the "Longest-since-used" rule applies: the device that has not been used more recently than any other on the list will be dropped from memory.	

8	If “Reset” or “Reset to Factory Settings” selected, all paired devices will be erased from the “Paired” list memory.	
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7.2 Headphones Requirements

	Bluetooth Headphones	Setting	Notes
1	Bluetooth headphones can be used to hear audio instead of the TV speakers or audio device such as a sound bar or AV receiver.		
2	When Bluetooth headphones connected, Audio settings cannot open and warning notification displays with Disconnect and Cancel buttons.		Audio Settings disabled when connected to Bluetooth headphones.
3	Bluetooth Headphones (in use)	Current connected headphones displays	Headphones in use
4	Bluetooth Headphones (not in use)	If not in use or no paired devices, “None” displays	
5	Volume for the headphones can be controlled from the headphones or TV remote with display of the volume control. No other functions supported.		Pause on the headphones may pause the content but not a requirement.

7.2.1 Headphones Settings

	Audio Settings	Circle check	Notes
1	Paired Device	yes (for listed devices)	Setting: grayed text
2	More Available Devices		Setting: grayed text

7.2.2 Paired Devices

	Paired Devices Requirements	Notes
1	Paired Devices header is grayed out and not selectable	
2	The list of paired devices is indented.	
3	Paired devices are listed in order of last used, first listed.	Maximum number of paired devices is 15.
4	A paired device is selected and connects: <ul style="list-style-type: none"> animation during connection after connected, radio button is checked moves to first listed under paired devices 	
5	A paired device is selected and fails to connect: <ul style="list-style-type: none"> animation during connection pop up displays “connection unsuccessful” with notification and OK soft button 	After OK button is selected, the device that failed to connect highlights again.
6	Selection of a paired device displays 3 options:	

7.2.3 More Available Devices

	More Available Devices Requirements	Notes
1	More Available Devices header is a grayed out and not selectable	Animation (circle) while searching for new devices lasting for up to 60 seconds.
2	The list of unpaired devices is indented.	
3	More Available Devices are listed in order of Bluetooth detection	

4	<p>A device is selected</p> <ul style="list-style-type: none"> Pair is added on the right side animation during pair after paired and connected, moves to first setting under paired devices radio button is checked If need be, paired headphones are disconnected and listed below the newly paired headphones 	
5	<p>A device is selected and fails to pair:</p> <ul style="list-style-type: none"> animation during connection pop up displays "pairing unsuccessful" with notification and OK soft button 	After OK button is selected, the device that failed to pair highlights again.

7.2.4 Paired Device

	Forget Devices	Requirement
1	Selection of a Paired Device displays a submenu	<ul style="list-style-type: none"> Connect Disconnect Forget Paired Device
2	Select Forget Paired Device displays a pop up	<ol style="list-style-type: none"> Do you want to forget NAMEPAIREDDEVICE? Forget or Cancel buttons (highlighted)
3	Forget in pop up is confirmed	<ol style="list-style-type: none"> Selected device is unpaired and removed from the list of Paired devices.

7.2.5 Notifications for Paired Devices

	More Devices requirements	Text
1	Currently paired headphones are disconnected	PAIREDHEADPHONES have been disconnected
2	Batteries low for the paired headphones	<p>PAIREDHEADPHONES Batteries are low.</p> <p>Please charge the batteries in your Bluetooth headphones</p>

7.3 Gaming Controller

	Settings	Display	Supported Behavior	Notes
1	Paired Devices	<p>list of paired devices</p> <ul style="list-style-type: none"> checkbox with check checkbox unchecked 	<p>Select a device, then settings are</p>	<ul style="list-style-type: none"> Paired Devices header is grayed out and not selectable. A paired device is selected and connects: <ul style="list-style-type: none"> animation during connection after connected, checkbox is checked A device is selected and fails to pair then pop up displays "pairing unsuccessful" with notification and OK soft button Tasks also supported in Luna gaming app and status shared with TV.
2	More Available Devices	<p>list of available devices</p> <ul style="list-style-type: none"> Pair 	<p>Select a device to display</p>	<ul style="list-style-type: none"> More Devices header is grayed out and not selectable. A device is selected and press OK Pair is added on the right side animation during pair after paired and connected, moves to first setting under paired devices checkbox is checked A device is selected and fails to pair then pop up displays "pairing unsuccessful" with notification and OK soft button
3	Forget Devices	n/a	Opens up the Forget Devices submenu	

7.3.1 Paired Device

Paired Devices	Requirement
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1	Selection of a Paired Device displays a submenu	<ul style="list-style-type: none"> • Connect • Disconnect • Forget Paired Device
2	Selection of Forget Devices displays a pop up including:	<ol style="list-style-type: none"> 1. Do you want to forget NAMEPAIREDDEVICE? 2. Forget or Cancel buttons (highlighted)
3	Forget in pop up is confirmed	<ol style="list-style-type: none"> 1. Selected device is unpaired and removed from the list of Paired devices (both instances).

7.3.2 Game Controller requirements

	Requirements	Notes
1	Game controller can play games on the VIZIO “free games” app.	
2	Game Controller can also navigate and select in the Home page and launched apps.	
3	TV can power on using a previously paired game controller.	
4	TV will automatically try to connect paired BT game controllers to TV when controllers sends connection request.	Device will make the choice to connect upon auto-connect request from the TV.
	<ul style="list-style-type: none"> • The status changes from Disconnect to Connect when paired controller automatically connects. 	
5	Idle mode / power saving mode support	If controller becomes idle after 5 minutes, it will enter to power saving mode
6	Notifications for the game controller include	<ul style="list-style-type: none"> • Game controller disconnects from the TV (out of range, turned off, dead battery, etc.) • Game controller has low battery (15%) • Pair to game controller fails • Connect to paired controller fails • Pair or connect more controllers than supported.
7	Connect up to 4 Bluetooth gaming controllers simultaneously <ul style="list-style-type: none"> • 4K skus • VQD skus limited to 2 BT game controllers (MT7663) <ul style="list-style-type: none"> • FHD No support <ul style="list-style-type: none"> • HD 	<ul style="list-style-type: none"> • Trying to connect to a fifth or for 2 BT controllers, to a third game controller fails and a notifications displays indicating maximum. • Controllers are listed in the order connected.
8	Allow to support with other BT devices: <ul style="list-style-type: none"> • 4 or 2 game controllers • 1 Bluetooth Remote • BT headphones 1 for Wi-Fi BT chip MT7663 2 (TBD) for Wi-Fi BT chip MT7921A	

7.3.3 Game Controllers Supported

	Devices	Series	Connectivity
1	Amazon Luna Controller	Luna	Wi-Fi 4 Dual Band + BLE5. Limited to skus supporting 4 controllers.

2	Xbox Wireless Controller	Xbox One Xbox Series Xbox Elite	Bluetooth 4.0
3	Playstation Wireless Controller	PS5 Dual Sense PS4 Gen2/Gen1	Bluetooth 5.1

7.3.4 Key Mapping for VIZIO Home or Launched Apps

	Amazon Luna Controller	Xbox Controller	Playstation Controller	Behavior
1	D-Pad	D-Pad	D-Pad	Navigation
2	Left Analog Stick	Left Analog Stick	Left Analog Stick	Navigation
3	Right Analog Stick	Right Analog Stick	Right Analog Stick	N/A
4	A	A	X	OK
5	B	B	Circle	Back
6	X	X	Square	N/A or OK
7	Y	Y	Triangle	N/A or Back
8	Left Bumper	Left Bumper	Left Bumper	Current: Left Future: Skip Left (ie jump to left most app on screen)
9	Right Bumper	Right Bumper	Right Bumper	Current: Right Future: Skip Right (ie jump to right most app on screen)
10	Left Trigger	Left Trigger	Left Trigger	Left
11	Right Trigger	Right Trigger	Right Trigger	Right
12	Menu	Menu	Menu	Settings
13	Home	Home	Home	Launch VIZIO Home
14	TBD	TBD	TBD	<ul style="list-style-type: none"> • Input • CC • Mute • Volume up/down