

13 Panel Buttons

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13.0 Back Panel Buttons (2020) and 2021 V5, P85QX-J01

	Back Panel Buttons 2020	Notes
1	The back panel for 2020 includes (see Figure 1): <ul style="list-style-type: none">• Power• Volume Up• Volume Down• Input	



Figure 1. 2020 SmartCast back panel buttons

13.1 2020 Back Panel Special functions and 2021 V5, P85QX-J01

Power State	Button	System State	Short Press ¹	Long Press	Time Long Press
Off	Power	OOBE not completed	Powers on into initial OOBE screen.	N/A	
	Input	OOBE not completed	N/A	N/A	
	Power	OOBE completed	Powers on into normal mode, last input	N/A	
	Input	Normal mode	N/A	N/A	

	Volume Up	Normal mode	N/A	N/A	
	Vol. Down	Normal mode	N/A	N/A	
On	POWER	Normal mode	Powers off the TV	Launches Reboot TV (equivalent to AC reset)	5 sec
	Input	Normal mode	Changes to next input	Launches OOB E and starts softAP	5 sec
	Input	Demo mode	N/A	Turns off Demo mode	5 sec
	Input	OOBE – warning for demo mode launch displays	N/A	Turns off Demo mode	5 sec
	Volume Up	Normal mode	Increases volume on step	Rapid volume increase	.5 sec
	Volume Down	Normal mode	Decreases volume one step	Rapid volume decrease	.5 sec
	Input and Volume Up ²	OOBE not in demo mode	N/A	Ends OOB E, tunes HDMI-1	5 sec
	Input and Volume Down ²	Normal mode	N/A	Reset to Factory Settings	10 sec

NOTES:

1. Front panel buttons are executed upon key **release** for short button press, to support long button press and chorded keys.
2. Input + Volume Up and Input + Volume Down are chorded button combinations. Buttons are held down together 5 or 10 seconds until the action is taken

13.1.1 4 Button Back Panel Reset to Defaults

	Back Panel Reset to Factory Settings Requirements	Notes
1	10 second press of back panel input & volume down buttons	NO notification displays.
2	Notification displays memory is clearing	Notification: Memory is being cleared. The TV will reset shortly. Input and Volume Down buttons can be released.
3	Simultaneously with notification a tone is heard.	if black screen, user can't see the notification.
4	Launch reset to defaults	
5	LED Blinks	
6	Upon completion of reset to defaults OOB E appears.	

13.2 One Button Front Panel (all 2021 skus except V5 and P85QX-J01)

	Power State	Requirements	Notes
1	Off	Short press powers on the TV.	

2	On	Short press displays Input Selector with "Power Off" selected and 3 second counter. If no key press TV powers off after 3 sec.	"Wait 3 seconds for the TV to power off or use a short single press to choose an input."
3	On	After input selector displays, a short press changes to the next input in the input selector. If not additional key presses then TV tunes to selected input.	
4	On	Long press (12 seconds) performs a reset to defaults.	

13.2.1 One Button Panel Requirements

	One Button Panel Requirements	Details
1	For one button panel the functions supported by the 4 button back panel that must be accessed from the sidebar or SmartCast app.	<ul style="list-style-type: none"> • Disable Demo mode • Reboot TV
2	Functions that must be accessed from the remote.	<ul style="list-style-type: none"> • Rapid volume change (Volume key or volume control SmartCast app) • End OOB, tune to HDMI-1 (BACK key).
3	A press of one button panel during Demo mode countdown: <ol style="list-style-type: none"> 1. Demo mode countdown ends 2. Store demo notification dismissed. 3. Store demo is not launched. 	

13.2.2 One Button Panel with Vertical Input Selector(2020/21 with FUR5 update, 2022)

	Power State	Requirements	Notes
1	Off	Short press powers on the TV.	
2	On	Short press displays vertical Input Selector with "Power Off" following the selected source. Another press of the button highlights Power Off and a notification displays. After 3 seconds TV powers off.	"Wait 3 seconds for the TV to power off or use a short single press to choose an input." If in OOB or demo mode a long 3 second press of panel key powers off TV, no display of the input selector. Notification shortened to "Wait 3 seconds for the TV to power off"
3	On	After input selector displays, a short press moves highlight down to the next input in the input selector and if applicable dismisses TV power off notification. After 5 seconds TV changes to highlighted input.	At the last input another press of panel key moves highlight to Power Off at the top and notification displays again.

13.2.2.1 Input Change with One Panel Button (2020/21 skus without FUR5 update)

4	On	Long press (15 seconds) performs a reset to defaults.	Refer to 13.2.2 Reset to Factory Settings with One Back Panel Button
	Panel Button	Behavior	Notes
1	Press button	Modified Input Selector displays with the addition of "Power Off" for the selected setting followed by current source.	Behavior for Input selector input selection is unchanged.
2		When Power Off is highlighted, notification displays for 3 seconds or until the button is pressed again.	"Wait 3 seconds for the TV to power off or use a short single press to choose an input."
3		No button press while power off selected, display count down for 3 seconds then power off TV.	Discuss count down support with MTK
4	Press and hold button	1. Input selector displays with notification 2. TV does not power off after 3 seconds. 3. At 5 seconds a second notification displays.	"To reset to factory settings, hold button for 10 more seconds."

13.2.3 Reset to Factory Settings with One Panel Button

	Back Panel Reset to Factory Settings Requirements	Notifications
1	Press and Hold back panel button	
2	After 5 seconds notification to continue hold for reset.	"To reset to factory settings, hold button for 10 more seconds."
3	After total of 15 second hold of the panel single button, launch reset to factory settings in all cases including: <ul style="list-style-type: none"> o Sync and video displayed o Sync but no video displayed o No signal o Graphics display (e.g. sidebar or SmartCast Home) o Graphics expected (e.g. SmartCast Home) but not displayed (black screen) o TV unresponsive to IR 	15 seconds is 5 sec of input selector + 10 sec of reset notification display.
4	Notification displays and LED Blinks rapidly for 2 seconds (if black screen LED indicates button can be released)	"Memory is being cleared. The TV will reset shortly."
5	Simultaneously with notification a tone is heard.	if black screen, user can't see the notification.
6	Upon completion of reset to defaults OOB appears.	

13.2.4 Demo Mode with One Panel Button

	Back Panel Reset to Factory Settings Requirements	Notifications
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1	A press of one button panel during Demo mode countdown: 1. Demo mode countdown ends 2. Store demo notification dismissed. 3. Store demo is not launched.	
2	During demo mode a short press of the front panel button has no response.	
3	During demo mode a press and hold of the front panel button first displays notification "Wait 3 seconds for the TV to power off" and after 3 seconds powers off the TV.	Input Selector does not display.

13.2.5 OOB with One Panel Button

	Back Panel Reset to Factory Settings Requirements	Notifications
1	During OOB a short press of the front panel button powers off the TV.	Input change is not allowed to Input Selector does not display.
2	During OOB a long press of the front panel button has no designated behavior.	A long press also powers off the TV.