



Manufacturer: Bose Professional
Model: Videobar
Device Type: USB Conferencing

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GENERAL INFORMATION	
Q-SYS PLUGIN NAME	Bose Professional Videobar
VERSION	1.0
AUTHORED BY	Control Concepts, Inc.
SUMMARY	The plugin establishes a secure websocket connection with a Bose Professional Videobar for key control and monitoring features for each compatible model. The plugin will establish communication, authenticate the password provided, initialize all current state feedback, and then be ready for use.
GENERAL NOTES	This plugin is designed to support the following two models: <ul style="list-style-type: none">• VB1 – Supports all control and feedback available.• VB-S – Supports all control and feedback available. Ethernet, HDMI, GPI Mute not available on VB-S.
DEVICE USED FOR TESTING	VB1 (v1.4.0) VB-S (v1.1.1) Q-SYS Core 110f (v9.8.0)



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INITIAL SETUP

PROPERTIES	<p>Videobar Model: Indicates the model to use for the plugin. Not all models support all features.</p> <p>IP Address: Indicates the IP Address of the device to connect to.</p> <p>Password: Indicates the password of the device to connect to. [Default: Bose123!]</p> <p>Debug Level: Indicates the specificity level of messages that appear in the debug window. The options include:</p> <ul style="list-style-type: none">1-<i>Off</i>: No messages will be printed. [Default]2-<i>Device Communication</i>: Only messages related to commands going to/coming from physical devices will be printed.3-<i>Troubleshooting</i>: All internal messages will be printed. <p>Log Debug Messages: Indicates whether to also save any messages that are printed to the debug window to the internal Q-SYS processor's logs. [Default: False]</p>
ESTABLISHING CONNECTION	<p>The "IP Address" property (or the corresponding "IP Address" input pin) must be set. The plugin will automatically attempt to connect and communicate with the device at the specified IP Address when the program starts.</p> <p>Once connection has been established, the plugin will test an admin command to verify the correct password was set. If the password is incorrect, the plugin will disconnect. Once authentication has been established, the plugin will begin the initialization process, wherein it will attempt to query the device for all relevant data.</p> <p>Once the plugin has received responses from the device for all the initial queries, the "Is Initialized" pin will go high. At this point, the plugin is considered fully ready for operation.</p>



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PLUGIN CONTROLS (CONNECTION/STATUS)

IP Address	Set to override the IP Address in properties. <i>[Input String]</i>
Connect	Trigger to begin communicating with the device and start the initialization process. <i>[Input Boolean]</i>
Disconnect	Trigger to stop communication with the device. <i>[Input Boolean]</i>
Reinitialize	Trigger to resync the plugin with the device (e.g. retrieve all data relevant for plugin operation). <i>[Input Boolean]</i>
Is Communicating	Indicates if the plugin is communicating with the device. <i>[Output Boolean]</i>
Is Initialized	Indicates if the plugin has synched all relevant data with the device. <i>[Output Boolean]</i>
Status	Indicates the current connection status to the device. <i>[Output String]</i>



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PLUGIN CONTROLS (DEVICE)

Device Status	Indicates the device has reported 'Ready'. <i>[Output Boolean]</i>
Device Name	Indicates the device name reported by the device. <i>[Output String]</i>
Device Serial Number	Indicates the device serial number reported by the device. <i>[Output String]</i>
Device Firmware Version	Indicates the device firmware version reported by the device. <i>[Output String]</i>
Device Camera State	Indicates the device camera state reported by the device. <i>[Output String]</i>
Ethernet State	Indicates the ethernet state reported by the device. <i>[Output String] [VB1 Only]</i>
Ethernet Static IP	Indicates the ethernet static IP Address reported by the device. <i>[Output String] [VB1 Only]</i>
Ethernet MAC Address	Indicates the ethernet MAC Address reported by the device. <i>[Output String] [VB1 Only]</i>
Wifi State	Indicates the Wi-Fi state reported by the device. <i>[Output String]</i>
Wifi Static IP	Indicates the Wi-Fi static IP Address reported by the device. <i>[Output String]</i>
Wifi MAC Address	Indicates the Wi-Fi MAC Address reported by the device. <i>[Output String]</i>
Location Building	Indicates the location building reported by the device. <i>[Output String]</i>
Location Floor	Indicates the location floor reported by the device. <i>[Output String]</i>
Location Room	Indicates the location room reported by the device. <i>[Output String]</i>



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PLUGIN CONTROLS (DEVICE) *continued*

Settings HDMI / DL Enable	Trigger to enable the HDMI on the device. (Only VB1) Feedback will reflect that the HDMI is currently enabled. <i>[Both Boolean] [VB1 Only]</i>
Settings HDMI / DL Disable	Trigger to disable the HDMI on the device. Feedback will reflect that the HDMI is currently disabled. <i>[Both Boolean] [VB1 Only]</i>
Settings Videobar Reboot	Trigger to reboot the device. The plugin will clear all states, reconnect, and reinitialize automatically. <i>[Input Boolean]</i>
GPI Mute Status	Indicates the device has reported GPI Mute is active. <i>[Output Boolean] [VB1 Only]</i>



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PLUGIN CONTROLS (Audio)

Microphone Mute	Trigger to toggle microphone mute. Indicates when the microphone mute is active. <i>[Both Boolean]</i>
Loudspeaker Increment	Trigger to increment the loudspeaker level a single time. Press and hold to increment every 400 millisecond. <i>[Both Boolean]</i>
Loudspeaker Gain	Set an integer level of 0 to 100 to set the loudspeaker level on the device. The device will report back the loudspeaker level and this will be reflected on the <i>[Both Number]</i>
Loudspeaker Decrement	Trigger to decrement the loudspeaker level a single time. Press and hold to decrement every 400 millisecond. <i>[Both Boolean]</i>
Loudspeaker Mute	Trigger to toggle loudspeaker mute. Indicates when the loudspeaker mute is active. <i>[Both Boolean]</i>
USB Status Connection	Indicates the device USB connection is active. <i>[Output Boolean]</i>
USB Status Call Active	Indicates the device USB call is active. <i>[Output Boolean]</i>
Bluetooth Connection	Indicates the device bluetooth connection is active. <i>[Output Boolean]</i>
Bluetooth Stream	Indicates the device bluetooth stream is active. <i>[Output Boolean]</i>
Bluetooth Enable	Trigger to enable the bluetooth on the device. Feedback will reflect that the bluetooth is currently enabled. <i>[Both Boolean]</i>
Bluetooth Disable	Trigger to disable the bluetooth on the device. Feedback will reflect that the bluetooth is currently disabled. <i>[Both Boolean]</i>



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PLUGIN CONTROLS (Audio) *continued*

Bluetooth Pairing On	Trigger to turn bluetooth pairing on, on the device. Feedback will reflect that bluetooth pairing is currently on. <i>[Both Boolean]</i>
Bluetooth Pairing Off	Trigger to turn bluetooth pairing off, on the device. Feedback will reflect that bluetooth pairing is currently off. <i>[Both Boolean]</i>
Bluetooth Button Enable	Trigger to enable the bluetooth button on the device. Feedback will reflect that the bluetooth button is currently enabled. <i>[Both Boolean]</i>
Bluetooth Button Disable	Trigger to disable the Bluetooth button on the device. Feedback will reflect that the bluetooth button is currently disabled. <i>[Both Boolean]</i>



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PLUGIN CONTROLS (Camera)

Recall Home Preset	Trigger to recall the home preset. Indicates when the home preset is active. <i>[Both Boolean]</i>
Recall Preset One	Trigger to recall the preset one. Indicates when the preset one is active. <i>[Both Boolean]</i>
Recall Preset Two	Trigger to recall the preset two. Indicates when the preset two is active. <i>[Both Boolean]</i>
Save Home Preset	Trigger to save to the home preset. <i>[Input Boolean]</i>
Save Preset One	Trigger to save to the preset one. <i>[Input Boolean]</i>
Save Preset Two	Trigger to save to the preset two. <i>[Input Boolean]</i>
Autoframe On	Trigger to turn autoframe on, on the device. Feedback will reflect that autoframe is currently on. <i>[Both Boolean]</i>
Autoframe Off	Trigger to turn autoframe off, on the device. Feedback will reflect that autoframe is currently off. <i>[Both Boolean]</i>
Tilt Value	Indicates the current tilt position value reported by the device. Range -10 to 10. <i>[Output Integer]</i>
Pan Value	Indicates the current pan position value reported by the device. Range -10 to 10. <i>[Output Integer]</i>
Zoom Value	Indicates the current zoom position value reported by the device. Range 0 to 10. <i>[Output Integer]</i>



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PLUGIN CONTROLS (Camera) <i>continued</i>	
Tilt Up	Tigger to tilt the camera up a single time. Press and hold to tilt up every 400 millisecond. <i>[Input Boolean]</i>
Tilt Down	Tigger to tilt the camera down a single time. Press and hold to tilt down every 400 millisecond. <i>[Input Boolean]</i>
Pan Left	Tigger to pan the camera left a single time. Press and hold to pan left every 400 millisecond. <i>[Input Boolean]</i>
Pan Right	Tigger to pan the camera right a single time. Press and hold to pan right every 400 millisecond. <i>[Input Boolean]</i>
Zoom In	Tigger to zoom the camera in a single time. Press and hold to zoom in every 400 millisecond. <i>[Input Boolean]</i>
Zoom Out	Tigger to zoom the camera out a single time. Press and hold to zoom out every 400 millisecond. <i>[Input Boolean]</i>



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KNOWN ISSUES

- If the plugin property 'Videobar Model' is set to VB1 and you try to connect to a VB-S, you will need to physically reboot the VB-S prior to trying to connect again with the corrected property.

ADDITIONAL INFORMATION

Change Log	v1.0 – Initial Release
Support	Company: Control Concepts, Inc. Phone: (201) 797-7900 Email: support@controlconcepts.net Website: https://www.controlconcepts.net