



**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	<p>This plugin is designed to support the following two models:</p> <ul style="list-style-type: none"><li>• VB1 – Supports all control and feedback available.</li><li>• VB-S – Supports all control and feedback available. Ethernet, HDMI, GPI Mute not available on VB-S.</li></ul>
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

<b>PROPERTIES</b>	<p><b>Videobar Model:</b> Indicates the model to use for the plugin. Not all models support all features.</p> <p><b>IP Address:</b> Indicates the IP Address of the device to connect to.</p> <p><b>Password:</b> Indicates the password of the device to connect to. [Default: Bose123!]</p> <p><b>Debug Level:</b> Indicates the specificity level of messages that appear in the debug window. The options include:</p> <ul style="list-style-type: none"><li>1-Off: No messages will be printed. [Default]</li><li>2-Device Communication: Only messages related to commands going to/coming from physical devices will be printed.</li><li>3-Troubleshooting: All internal messages will be printed.</li></ul> <p><b>Log Debug Messages:</b> 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>
<b>ESTABLISHING CONNECTION</b>	<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)**

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



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**PLUGIN CONTROLS (DEVICE)**

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



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**PLUGIN CONTROLS (DEVICE)** *continued*

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



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**PLUGIN CONTROLS (Audio)**

<b>Microphone Mute</b>	Trigger to toggle microphone mute. Indicates when the microphone mute is active. <i>[Both   Boolean]</i>
<b>Loudspeaker Increment</b>	Trigger to increment the loudspeaker level a single time. Press and hold to increment every 400 millisecond. <i>[Both   Boolean]</i>
<b>Loudspeaker Gain</b>	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>
<b>Loudspeaker Decrement</b>	Trigger to decrement the loudspeaker level a single time. Press and hold to decrement every 400 millisecond. <i>[Both   Boolean]</i>
<b>Loudspeaker Mute</b>	Trigger to toggle loudspeaker mute. Indicates when the loudspeaker mute is active. <i>[Both   Boolean]</i>
<b>USB Status Connection</b>	Indicates the device USB connection is active. <i>[Output   Boolean]</i>
<b>USB Status Call Active</b>	Indicates the device USB call is active. <i>[Output   Boolean]</i>
<b>Bluetooth Connection</b>	Indicates the device bluetooth connection is active. <i>[Output   Boolean]</i>
<b>Bluetooth Stream</b>	Indicates the device bluetooth stream is active. <i>[Output   Boolean]</i>
<b>Bluetooth Enable</b>	Trigger to enable the bluetooth on the device. Feedback will reflect that the bluetooth is currently enabled. <i>[Both   Boolean]</i>
<b>Bluetooth Disable</b>	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*

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

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

<b>Tilt Up</b>	Tigger to tilt the camera up a single time. Press and hold to tilt up every 400 millisecond. <i>[Input   Boolean]</i>
<b>Tilt Down</b>	Tigger to tilt the camera down a single time. Press and hold to tilt down every 400 millisecond. <i>[Input   Boolean]</i>
<b>Pan Left</b>	Tigger to pan the camera left a single time. Press and hold to pan left every 400 millisecond. <i>[Input   Boolean]</i>
<b>Pan Right</b>	Tigger to pan the camera right a single time. Press and hold to pan right every 400 millisecond. <i>[Input   Boolean]</i>
<b>Zoom In</b>	Tigger to zoom the camera in a single time. Press and hold to zoom in every 400 millisecond. <i>[Input   Boolean]</i>
<b>Zoom Out</b>	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: <a href="mailto:support@controlconcepts.net">support@controlconcepts.net</a> Website: <a href="https://www.controlconcepts.net">https://www.controlconcepts.net</a>