

Partner: Bose  
Models: VB-S  
Device Type: Conferencing



## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	Bose VB-S v1.0
<b>CATEGORY:</b>	Conferencing
<b>VERSION:</b>	1.0.0
<b>SUMMARY:</b>	Module to establish a websocket connection to a VBS for control.
<b>GENERAL NOTES:</b>	<p>Please note the following items:</p> <ul style="list-style-type: none"><li>• Reboot Command: the module will lose its connection and reconnect once the VBS is powered on again.</li><li>• Loudspeaker_Volume_Up and Loudspeaker_Volume_Down will unmute the Loudspeaker if the mute is active.</li><li>• Bluetooth pairing controls will only work if Bluetooth is enabled.</li></ul> <p>Module developer contact: Control Concepts, Inc. (201) 797-7900 <a href="mailto:support@controlconcepts.net">support@controlconcepts.net</a></p>
<b>CRESTRON HARDWARE REQUIRED:</b>	Crestron 3-Series or 4-Series processor.
<b>SETUP OF CRESTRON HARDWARE:</b>	N/A
<b>VENDOR FIRMWARE:</b>	Bose VB-S – 1.1.0-ac9861cf24
<b>VENDOR SETUP:</b>	N/A

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**PARAMETERS:**

<b>IP_Address</b>	The network address of the device to control.
<b>Password</b>	The password for the VB-S.

Partner: Bose  
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**CONTROL:**

<b>Connect</b>	D	Establishes communication with the VBS and starts the initialization.
<b>Disconnect</b>	D	Stops communication with the VBS.
<b>Debug</b>	D	Set high to enabled debug messages. It is recommended this signal is only used during troubleshooting and not for production.
<b>IP_Address</b>	S	The local IP/hostname for the VBS.
<b>Pan_Left</b>	D	Pulse for single pan left. Hold high for repeated pan left.
<b>Pan_Right</b>	D	Pulse for single pan right. Hold high for repeated pan right.
<b>Tilt_Down</b>	D	Pulse for single tilt down. Hold high for repeated tilt down.
<b>Tilt_Up</b>	D	Pulse for single tilt up. Hold high for repeated tilt up.
<b>Zoom_In</b>	D	Pulse for single zoom in. Hold high for repeated zoom in.
<b>Zoom_Out</b>	D	Pulse for single zoom out. Hold high for repeated zoom out.
<b>Home_Preset</b>	D	Pulse to recall home preset or save home preset if Preset_Save_Fb is high.
<b>Preset_*</b>	D	Pulse to recall preset_* or save preset_* if Preset_Save_Fb is high.
<b>Preset_Save</b>	D	Pulse to toggle between save and recall mode.
<b>Autoframe_On</b>	D	Pulse to turn camera autoframe on.
<b>Autoframe_Off</b>	D	Pulse to turn camera autoframe off.
<b>Autoframe_Toggle</b>	D	Pulse to toggle camera autoframe.
<b>Loudspeaker_Volume_Up</b>	D	Pulse to turn loudspeaker volume up. Hold high for repeated volume up.
<b>Loudspeaker_Volume_Down</b>	D	Pulse to turn loudspeaker volume up. Hold high for repeated volume down.
<b>Loudspeaker_Volume_Level</b>	A	Set loudspeaker volume to a discrete value. (Integer 0 to 100)
<b>Loudspeaker_Mute</b>	D	Pulse to mute loudspeaker.
<b>Loudspeaker_Unmute</b>	D	Pulse to unmute loudspeaker.
<b>Loudspeaker_Mute_Toggle</b>	D	Pulse to toggle loudspeaker mute.

Partner: Bose  
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**CONTROL: *continued***

<b>Microphone_Mute</b>	D	Pulse to mute microphone.
<b>Microphone_Unmute</b>	D	Pulse to unmute microphone.
<b>Microphone_Mute_Toggle</b>	D	Pulse to toggle microphone mute.
<b>Bluetooth_Pairing_On</b>	D	Pulse to toggle Bluetooth pairing on.
<b>Bluetooth_Pairing_Off</b>	D	Pulse to toggle Bluetooth pairing off.
<b>Bluetooth_Pairing_Toggle</b>	D	Pulse to toggle Bluetooth pairing on or off.
<b>Reboot</b>	D	Pulse to reboot the VBS.
<b>Bluetooth_Enable</b>	D	Pulse to toggle Bluetooth between enable and disable.
<b>Bluetooth_Button_Enable</b>	D	Pulse to toggle Bluetooth button between enable and disable.

Partner: Bose  
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**FEEDBACK:**

<b>Is_Communicating</b>	D	Indicates the command processor is communicating with the VBS when the signal is high, or not communicating when the signal is low.
<b>Is_Initialized</b>	D	Indicates the command processor is synchronized with current device state when the signal is high, or not synchronized with current device state when the signal is low.
<b>Active_Pan_Setting_fb</b>	A	Current pan position. (Signed Integer value -10 to 10)
<b>Active_Tilt_Setting_Fb</b>	A	Current tilt position. (Signed Integer value -10 to 10)
<b>Active_Zoom_Setting</b>	A	Current zoom position. (Integer value 1 to 10)
<b>Home_Preset_Fb</b>	D	High to indicate home preset is active. Low to indicate home preset is inactive.
<b>Preset_*_Fb</b>	D	High to indicate preset * is active. Low to indicate preset * is inactive.
<b>Preset_Save_Fb</b>	D	High to indicate Preset_Save mode is active
<b>Autoframe_On_Fb</b>	D	High to indicate camera autoframe is enabled.
<b>Autoframe_Off_Fb</b>	D	High to indicate camera autoframe is disabled.
<b>Loudspeaker_Volume_Level_Fb</b>	A	Current loudspeaker volume level. (Integer 0 to 100)
<b>Loudspeaker_Muted_Fb</b>	D	High to indicate loudspeaker is muted.
<b>Loudspeaker_Unmuted_Fb</b>	D	High to indicate loudspeaker is unmuted.
<b>Microphone_Muted_Fb</b>	D	High to indicate microphone is muted.
<b>Microphone_Unmuted_Fb</b>	D	High to indicate microphone is unmuted.
<b>Bluetooth_Pairing_On_Fb</b>	D	High to indicate Bluetooth pairing is on.
<b>Bluetooth_Pairing_Off_Fb</b>	D	High to indicate Bluetooth pairing is off.
<b>Firmware_Version_Fb</b>	S	Reports the VBS firmware version.
<b>Device_Name_Fb</b>	S	Reports the device name.

Partner: Bose  
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**FEEDBACK: *continued***

<b>Building_Fb</b>	S	Reports the location building name.
<b>Floor_Fb</b>	S	Reports the location floor name.
<b>Room_Fb</b>	S	Reopts the location room name.
<b>Serial_Number_Fb</b>	S	Reports the VBS serial number.
<b>Camera_State_Fb</b>	S	Reports the camera state.
<b>Wifi_State_Fb</b>	S	Reports the Wi-Fi state.
<b>Wifi_IP_Address_Fb</b>	S	Reports the static WIFI IP Address of the VBS.
<b>Wifi_MAC_Address_Fb</b>	S	Reports the WIFI MAC Address of the VBS.
<b>USB_Connection_Status_Fb</b>	D	High to indicate USB is connected.
<b>USB_Call_Status_Fb</b>	D	High to indicate USB call is active.
<b>Bluetooth_Connection_Status_Fb</b>	D	High to indicate Bluetooth connected.
<b>Bluetooth_Stream_Status_Fb</b>	D	High to indicate Bluetooth stream is active.
<b>Ready_Status</b>	D	High to indicate system is ready after startup.
<b>Bluetooth_Enabled</b>	D	High to indicate Bluetooth is enabled.
<b>Bluetooth_Button_Enabled</b>	D	High to indicate Bluetooth button is enabled.

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**TESTING:**

<b>OPS USED FOR TESTING:</b>	CP3 v1.8001.5061.26823 CP4 v2.8000.00017
<b>SIMPL WINDOWS USED FOR TESTING:</b>	4.2000.00
<b>CRES DB USED FOR TESTING:</b>	215.0000.003.00
<b>DEVICE DATABASE:</b>	200.23500.001.00
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	1177
<b>SAMPLE PROGRAM:</b>	Bose VB-S Demo v1.0.smw
<b>REVISION HISTORY:</b>	v1.0 – Initial Release