# VIDEOBAR ADMINISTRATION

User Guide



INTRODUCTION4
Availability and Compatibility4
Trademark Notices4
User Agreement and Privacy Information4
DEVICE LIST AND MENU BAR5
Adding, Discovering, and Monitoring Videobar Devices6
Device List Icons/Symbols6
Adding or Removing Columns7
Sorting the Device List7
Refreshing the Device List8
Manually Adding to the Device List8
Exporting the Device List9
Searching Information10
Identifying Videobar Devices10
Selecting a Network11
Removing Videobar Devices11
Specifying a Global Password12
Managing Profiles13
Downloading (Saving) a Profile13
Uploading (Copying) a Profile13
Restoring a Profile14
Rebooting Videobar Devices15
Restoring Default Settings15

Updating Firmware16		
Immediate Updates16		
Scheduled Updates17		
Scheduling a Firmware Update17		
Changing a Scheduled Update17		
Cancelling a Scheduled Update18		
Installing a Previous Firmware Version19		
Downloading Logs19		
CONTROL PANEL		
Configuring Parameters		
Configuration		
Video25		
Audio		
Network30		
Wired30		
Wireless31		
SNMP32		
API		
Security - Certificates34		
Certificate Signing Request34		
Install/View35		

# INTRODUCTION

With remote management capabilities, Videobar Administration software makes it simple to deploy and manage Bose Professional Videobar devices anywhere — from a single device in a meeting room to hundreds installed throughout a corporate campus. Control critical functions from a single location: push updates to all or only selected devices, discover all devices on the network, configure devices either individually or by group, create and deploy profiles, or send configuration commands directly.

#### **Features**

Real-time device status and control functionality for all your Bose Professional Videobar devices from a single location

Schedule software updates to all or only selected devices

View, edit, save parameters by device or group of devices

Discover all devices on the network; create, save, and apply device profiles

# **Availability and Compatibility**

The Videobar Administration application is compatible with Windows. You can download it at <a href="mailto:BoseProfessional.com">BoseProfessional.com</a>.

## **Trademark Notices**

Bose is a trademark of Bose Corporation.

Videobar is a trademark of Transom Post OpCo LLC.

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# **User Agreement and Privacy Information**

To view the end user license agreement or privacy policy, click the **menu** (≡), select **About Videobar Administration**, and then click **End User License Agreement** or **Privacy Policy**.

# **DEVICE LIST AND MENU BAR**

The main screen of the app displays the Device List — a list of all Videobar devices on your network. Above the device list is the menu bar, which contains the menu ( $\equiv$ ) and several buttons. This user interface enables you to:

monitor Videobar devices on your network

<u>add or remove columns</u> and <u>sort</u> the Device List to customize it to best suit your needs

**<u>search</u>** for a specific Videobar on your network

refresh the Device List

**select the network(s)** to search for Videobar devices

remove Videobar devices from the Device List

specify the **global password** for all Videobar devices on your network

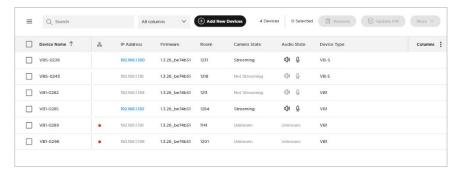
create and copy configuration profiles

#### reboot Videobar devices

restore Videobar devices to their default settings

update **firmware** 

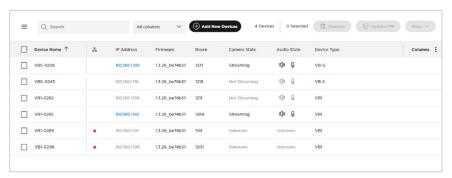
download system logs



# Adding, Discovering, and Monitoring Videobar Devices

The Device List enables you to monitor the status of all Videobar devices on your network. You can organize the Device List to include columns for specific information (e.g., you can add a column for **Camera State**, which indicates whether the camera on a specific Videobar device is streaming).

The app automatically and regularly scans the network in the background to discover new Videobar devices and add them to the Device List. You can also <u>manually add Videobar devices to the Device List</u>.



#### **Device List Icons/Symbols**

Icon/Symbol	Definition
8	Indicates the <b>Network</b> column.
•	The Videobar device's network connection is lost (disconnected). Appears in the <b>Network</b> column.
O / X	The Videobar microphone is <b>streaming</b> and is unmuted or muted. Appears in the <b>Audio State</b> column.
0 / &	The Videobar microphone is <b>not streaming</b> and is unmuted or muted. Appears in the <b>Audio State</b> column.
	The Videobar loudspeaker is <b>streaming</b> and is unmuted or muted. Appears in the <b>Audio State</b> column.
(I)) / (I)	The Videobar loudspeaker is <b>not streaming</b> and is unmuted or muted. Appears in the <b>Audio State</b> column.

#### **Adding or Removing Columns**

You can add or remove several optional columns to customize the Device List.

To add or remove optional columns to or from the Device List:

- Click Columns in the upper-right corner of the Device List.
- In list that appears, select a checkbox to add that column to the Device List, or deselect a checkbox to remove it. You can select **Show** All to select all columns.

The available columns are:

**Building** 

Floor

Room

Capacity

**MAC Address** 

**Profile** 

**Serial Number** 

**Bluetooth State** 

**Camera State** 

Call Status

**USB Connection** 

**Device Type** 

**Audio State** 

Note: You cannot remove the columns for **Device Name**,

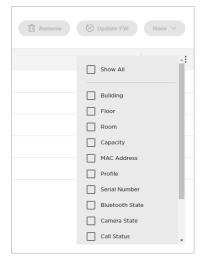
Network, IP Address, and Firmware.

## **Sorting the Device List**

You can sort the Device List in ascending or descending order by the entries in one column or multiple columns.

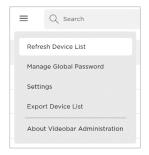
To sort a column, click the column heading and select a sorting option:

Ascending order: ↓ (A-Z)
Descending order: ↑ (Z-A)



#### Refreshing the Device List

The app automatically scans in the background to discover new Videobar devices on the network and add them to the Device List. To manually force this discovery process, click the **menu** (**=**) and select **Refresh Device List**.

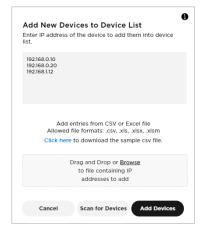


#### Manually Adding to the Device List

To add Videobar devices to the Device List by entering their IP addresses manually:

- Click the Add New Devices button at the top of the window.
- In the Add New Devices to Device List window that appears, you can do any of the following:
  - Enter the IP addresses in the larger field at the top of the window. Use one line per IP address or per range of IP addresses (click the  $\Phi$  icon in the upper-right corner to view the acceptable formats of IP addresses to enter here).

Drag and drop a file containing the IP addresses over the smaller field at the bottom of the window. The acceptable file formats are CSV, XLS, XLSX, or



XLSM (click the **Click here** link to download an example of this type of file containing the proper IP address formatting).

Click **Add Devices** to add entries for each IP address to the Device List. The new Videobar devices will be added to the Device List whether they are online or offline. Information for each Videobar device will appear if the device is reachable by the host.

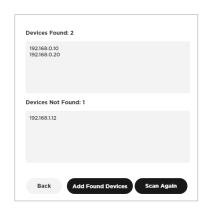
Click **Cancel** to exit the process without adding any Videobar devices.

 After entering the IP addresses of all desired Videobar devices, do one of the following:

> Click **Scan for Devices** to scan the network for Videobar devices with those IP addresses.

> > IP addresses of Videobar devices that are online and reachable by the host will be listed under **Devices**Found.

IP addresses of Videobar devices that are offline or not reachable by the host will be listed under **Devices Not Found** 



You may click **Scan Again** to rescan the network or click **Add Found Devices** to add the Videobar devices with IP addresses listed under **Devices Found** to the Device List.

Click **Back** to return to the previous screen.

After manually adding a Videobar device to the Device List, its information will appear next to it and continue to update in real time.

## **Exporting the Device List**

You can export the contents of the Device List to a spreadsheet. Each row of the spreadsheet corresponds to a Videobar in the Device List, and each column of the spreadsheet corresponds to a setting column of the Device List:

**Device Name** 

**IP Address** 

**Firmware** 

**Building** 

Floor

Room

Capacity

**MAC Address** 

**Profile** 

**Serial Number** 

**Bluetooth State** 

**Camera State** 

**Call Status** 

# USB Connection Device Type Audio State

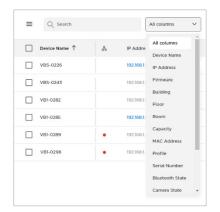
To export the current Device List:

- Click the menu (≡) and select Export Device List.
- Select where you want to save the file, enter a unique name, and then click Save. The default file name is DeviceList-[year][month][day]\_[time].

#### **Searching Information**

To search for a specific Videobar device or parameters, click the **Search** field in the upper-left corner of the window, and enter the desired search term.

To narrow your search to a specific parameter, click the down arrow (v) in the **Search** field and select the desired parameter. Select **All columns** to search through all parameters.



## **Identifying Videobar Devices**

To identify a specific Videobar device in the network:

- Select the checkbox next to the desired Videobar device in the Device List.
- Click More v in the upper-right part of the window, and then click Identify Device.

On that Videobar device, a small section of lights in the center of the light bar will pulse purple repeatedly. This will continue until you stop the identification.



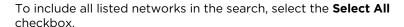
 Click More v in the upper-right part of the window, and then click Stop Device Identification.

# **Selecting a Network**

To select the network(s) in which to search for Videobar devices:

- Click the menu (≡), and then click Settings.
- In the **Settings** window that appears, select the checkbox(es) for the network(s) you want to include in the search.

To enable or disable multicast discovery, select or deselect **Enable Multicast Discovery (mDNS)**.



Settings

Device Discovery

Enable or Disable Device Discovery

Select any networks that apply

Wi-Fi (10.0.0.2)

✓ Select All

Enable Multicast Discovery (mDNS)

Cancel

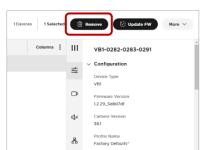
- Click Cancel to exit the process without saving, or click Save to continue.
- If you clicked Save, a confirmation message will appear. Click OK to continue.

Now, only the Videobar devices in the selected networks will appear in the Device List.

# **Removing Videobar Devices**

To remove a Videobar device from the Device List:

- Select the checkbox next to the desired Videobar device in the Device List.
- Click **Remove** in the upper-right part of the window.
- In the message that appears, click Cancel to keep the Videobar device in the network or click Remove to remove it.



 If you clicked **Remove**, a confirmation message will appear. Click **OK** to continue, or click **Cancel** to cancel the operation.

If you clicked **OK**, the Videobar device will no longer appear in the Device List.

**Note:** If a Videobar device remains on the network it will be rediscovered automatically.



# **Specifying a Global Password**

You can specify a global password for all Videobar devices in your network. This is helpful so you do not have to remember multiple unique passwords assigned to all Videobar devices.

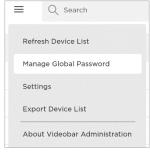
**IMPORTANT:** There is no password retrieval method available for the global password. If you forget or lose the global password, you must reset the Videobar device to its original factory settings. The factory default password is **Bose123!**.

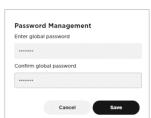
**Note:** We recommend changing the password after gaining access.

**Note:** To set or change the password of a specific Videobar device, select the desired Videobar device, and click the Configuration tab in the control panel. While setting or changing the device password, you will be given the option to assign that password as the global password.

To set the global password:

- Click the menu (≡), and then click Manage Global Password.
- In the Password Management window that appears, enter the global password once in the first field and then again in the second field to confirm it.
- Click Save to save the global password or click Cancel to cancel the operation.
- If you clicked **Save**, a confirmation message will appear. Click **OK** to continue.





# **Managing Profiles**

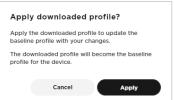
You can create and save a profile to include all of the parameters on one Videobar device and quickly copy them to other Videobar devices.

#### Downloading (Saving) a Profile

To create and save (download) a profile from a Videobar device:

- Select a Videobar device in the Device List and configure its parameters as desired. (See <u>Control</u> <u>Panel > Configuring Parameters</u> for more information.)
- Click More v in the upper-right part of the window, and then click Download Profile.
- Select where you want to save the profile, enter a unique name for the profile, and then click **Save**.
- 4. In the **Apply download profile?**window that appears, click **Apply** to
  use the saved profile as the "baseline"
  profile of that Videobar device, or
  click **Cancel** to cancel the operation.





## **Uploading (Copying) a Profile**

To copy (upload) a profile to one or more Videobar devices:

- Select the Videobar device(s) in the Device List to which you want to copy the profile.
- Click More V in the upper-right part of the window, and then click Upload Profile(s).
- In the Upload Profile window that appears, drag and drop the desired profile onto the gray box, or click Browse to locate and select the desired profile, and then click Apply. Click Cancel to cancel the operation.

**Note:** Uploading a profile will override any current device settings.

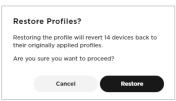


#### **Restoring a Profile**

To restore a profile by discarding any changes and reverting them to their originally applied profiles:

- Select the Videobar device(s) in the Device List whose profile(s) you want to restore.
- Click More V in the upper-right part of the window, and then click Restore Profile(s).
- In the Restore Profiles? window that appears, click Restore to discard the changes and revert to the previous settings, or click Cancel to cancel the operation.

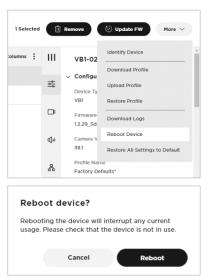




# **Rebooting Videobar Devices**

To manually reboot one or more Videobar devices:

- Select the Videobar device(s) that you want to reboot in the Device List.
- Click More v in the upper-right part of the window, and then click Reboot Device(s).
- In the Reboot device(s)? window that appears, click Reboot to reboot the Videobar device(s), or click Cancel to cancel the operation. Note that Videobar operation will be interrupted as it reboots.



# **Restoring Default Settings**

To restore the factory default settings of one or more Videobar devices:

- Select the Videobar device(s) in the Device List whose settings you want to restore to their defaults.
- Click More v in the upper-right part of the window, and then click Restore All Settings to Default.
- In the Restore Factory Defaults? window that appears, click Restore to restore the factory default settings of the selected Videobar device(s) or click Cancel to cancel the operation.





# **Updating Firmware**

You can update the firmware of one or more Videobar devices immediately or at a scheduled time. You can also install an older version of the firmware to revert to a previous release.

**IMPORTANT:** After the firmware installation process has completed on a Videobar device, it will reboot automatically.

To view the currently installed firmware version on a Videobar device:

- Select the checkbox next to the desired Videobar device in the Device List, enter its password, and then click **Submit**.
- 2. In the control panel, click the **Configuration** tab.

The version number will be displayed under **Firmware Version**.

Update Firmware

1 device running firmware v1.2.29

Firmware v1.2.30 is available

Upload and install another version

10/07/2021

Date and time for update (Device local time)

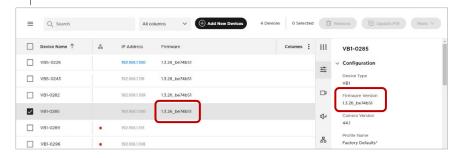
12:43 PM (L)

the Videobar website to download previous releases

Drag and Drop or Browse to Upload & Install File

Install v1.2.30

**Note:** The current firmware version for each Videobar device is also shown in the **Firmware** column of the Device List.



## **Immediate Updates**

To immediately install the latest firmware version on one or more Videobar devices:

- Select the checkbox(es) next to the desired Videobar device(s) in the Device List.
- 2. Click **Update FW** in the upper-right corner of the window.
  - In the **Update Firmware** window that appears, the version number of the currently installed firmware will appear at the top.
- 3. If a newer version of the firmware is available, an **Install v**\_\_\_ button will be shown (where **v**\_\_\_ is the version number of the latest available firmware).

#### **Scheduled Updates**

You can schedule a firmware update to occur at a specific date and time (e.g., outside of regular business hours to avoid any impact on users).

A clock icon will be shown in the **Firmware** column of the Device List for any Videobar device with a scheduled firmware update.



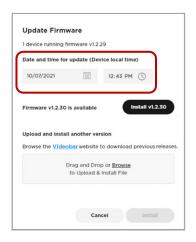
#### Scheduling a Firmware Update

To schedule a firmware update:

- Select the checkbox(es) next to the desired Videobar device(s) in the Device List.
- Click **Update FW** in the upper-right corner of the window.

In the **Update Firmware** window that appears, the version number of the currently installed firmware will appear at the top.

- Under Date and time for update (Device local time), select the desired date and time for the update. You can type directly in the fields or click the calendar and clock icons.
- 4. Click Schedule Install.



# **Changing a Scheduled Update**

To change the date and time of a scheduled update:

- Select the checkbox(es) next to the desired Videobar device(s) in the Device List.
- Click Edit FW Update in the upper-right corner of the window.
   Alternatively, in the Configuration section of the Control Panel, click
   Edit under Firmware Version.

In the **Edit Scheduled Firmware Update** window that appears, the message will show the version numbers of the currently installed firmware and the firmware that will be installed.



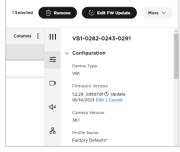
- Under Date and time for update (Device local time), select the desired date and time for the update. You can type directly in the fields or click the calendar and clock icons.
- 4. Click **Cancel** to close the window without making any changes or click **Reschedule Install** to continue.

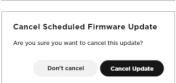
If you clicked **Reschedule Install**, the **Firmware update rescheduled** message appears in the lower-left part of the window.

#### **Cancelling a Scheduled Update**

To cancel a scheduled update:

- Select the checkbox(es) next to the desired Videobar device(s) in the Device List.
- In the Configuration section of the Control Panel, click Cancel under Firmware Version.
- In the Cancel Scheduled Firmware
   Update window that appears, click
   Cancel Update to cancel the update or Don't Cancel to close the window without making any changes.

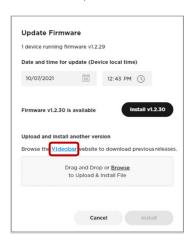




#### **Installing a Previous Firmware Version**

To install an older version of the firmware to revert to a previous release:

- Select the checkbox(es) next to the desired Videobar device(s) in the Device List.
- 2. Click **Update FW** in the upper-right corner of the window.
- In the Update Firmware window that appears, click the link under Upload and install another version to locate and download the firmware version you wish to install.
- In the gray box on the Firmware window, drag and drop or click Browse to locate and select the .swu file for the desired firmware, and then click Install below the gray box.



If you clicked **Install**, the **File upload in progress** message appears in the lower-left part of the window. When the process is complete, the Videobar device will reboot automatically.

# **Downloading Logs**

To download system log files:

- Select the Videobar device(s) in the Device List whose system log files you want to download.
- Click More V in the upper-right part of the window, and then click Download Logs.
- Select where you want to save the system log files, enter a unique name, and then click **Save**.



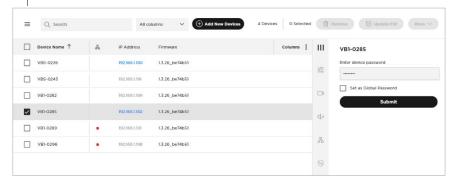
# **CONTROL PANEL**

The app enables you to administer one or multiple Videobar devices via the control panel. Use this interface to configure a range of parameters, including Videobar identification and profile parameters, camera settings and presets, microphone beams and settings, and settings for both wired and wireless network connections.

# **Configuring Parameters**

To open the control panel for a Videobar device, select the checkbox to the left of the **Device Name** in the Device List, enter the password in the control panel that appears on the right side of the window, and then click **Submit**.

**Note:** You can set a **global password** instead of specifying a different password for each Videobar device.



The control panel includes the following sections. Jump to each by clicking its respective tab.



**Configuration:** Install firmware; configure user access to certain video, audio, and connectivity settings; configure profiles, system settings, and identification settings.



<u>Video</u>: Save or recall camera presets and restore factory default camera settings; enable or disable autoframe access and configure autoframe settings; and enable or disable automatic low-light compensation and configure low-light compensation settings.



<u>Audio</u>: Configure the linear microphone array, control access to microphone and other audio settings, and view audio input and output levels.

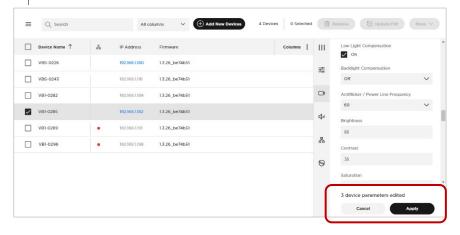


**Network:** Enable or disable both wired and wireless connections, configure Internet Protocol (IP) settings for network connections, and configure wireless network security settings.



<u>Security - Certificates</u>: Create certificate signing requests (CSRs), transfer CSRs to a host for certificate authority (CA) generation, deploy or install a CA certificate, and view, activate, or delete a certificate.

**Note:** After you edit a parameter, **Cancel** and **Apply** buttons appear at the bottom of the control panel. Click **Cancel** to discard the changes or click **Apply** to save the changes and implement them for the selected Videobar device(s).



# Configuration

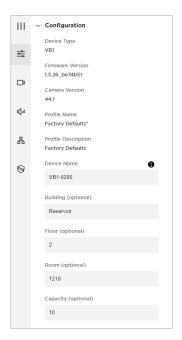
The Configuration section includes firmware information and updating features; user access to certain video, audio, and connectivity settings; controls to manage profiles, system settings, and identification settings:

**Firmware Version:** The version number of the currently installed firmware. If a newer version of the firmware is available, a message will appear next to a link to install the latest version. See **Updating Firmware** to learn more.

**Camera Version** (VB1 only): The version number of the Videobar camera software.

**Profile Name:** The unique name of the configuration **profile** that was uploaded to the Videobar device.

**Profile Description:** An identifying description of the configuration profile.



**Device Name:** A configurable name assigned to the Videobar device. (The device name may contain case-sensitive alphabetical characters [A-Z], numbers [0-9], or hyphens [-]. Spaces and other special characters are not allowed.)

**Building:** A configurable setting to identify the location of the Videobar device.

**Floor:** A configurable setting to identify the location of the Videobar device.

**Room:** A configurable setting to identify the location of the Videobar device.

**Capacity:** A configurable setting to identify the room capacity of the location of the Videobar device.

**User Access:** Select or deselect these checkboxes to enable or disable user access to the following features:

**Microphone Mute:** Enables or disables the ability to mute the Videobar microphone.

**WiFi:** Enables or disables wireless network connection.

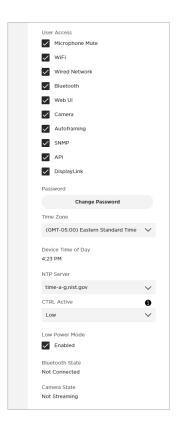
**Wired Network** (VB1 only): Enables or disables wired network connection.

**Bluetooth:** Enables or disables Bluetooth connectivity.

**Web UI:** Enables or disables the ability to access the Videobar Administration WebUI.

**Camera:** Enables or disables the Videobar camera.

**Autoframing:** Enables or disables the ability to turn autoframe on or off. Autoframe automatically adjusts the pan/tilt/zoom (PTZ) camera settings to present a panoramic view of all participants in the room at all times.



**SNMP:** Enables or disables SNMP (simple network management protocol) over the network. See **SNMP** to learn more.

**API:** Enables or disables REST API over the network. See **API** to learn more.

**DisplayLink** (VB1 only): Enables or disables the HDMI Display port output on Videobar VB1. The default setting is **Disabled**.

**Password:** Click **Change Password** to change the password for a Videobar device.

Passwords must contain:

- 8-12 characters
- an uppercase letter
- a lowercase letter
- a number
- a special character

**Note:** Select or deselect the **Set as Global Password** checkbox to enable or disable use of the new password for all Videobar devices in the network.

**Time Zone:** Select the local time zone.

**Device Time of Day:** Read-only display of the current time of the Videobar device.

**NTP Time Server:** Select or enter the IP address or domain name of the Network Time Protocol (NTP) server.

**CTRL Active** (VB1 only): Specify the active state of the connected alarm system: **High** (active) or **Low** (inactive).

**Low Power Mode:** Enable or disable Low Power Mode. When enabled, the Videobar device will enter a standby mode with low power consumption after being idle for two hours.

**Bluetooth State:** Name of any device that is paired and connected to the Videobar device via a *Bluetooth* connection.

**Camera State:** The camera (video) status: **Streaming** or **Not Streaming**.

#### Video

The Video section includes controls for configuring the Videobar camera, autoframing, and image processing:

Camera Position: Adjust the Pan, Tilt, and Zoom settings for the camera.

Preset 1: Adjust the Pan, Tilt, and Zoom settings for the Preset 1 camera position.

**Preset 2:** Adjust the **Pan**, **Tilt**, and **Zoom** settings for the **Preset 2** camera position.

**Home:** Adjust the **Pan**, **Tilt**, and **Zoom** settings for the **Home** camera position.

**Autoframe Status:** Select or deselect this checkbox to turn autoframe on or off.

Framing Mode (VB-S only): Select the autoframing mode: Individual (Follow-Me) for faster tracking or Group (Conferencing) for slower, more deliberate tracking. (Group is the default setting for VB1.)

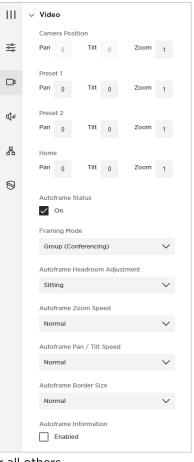
Autoframe Headroom Adjustment (VB1 only): Select Standing or Sitting to specify the amount of space between the top of the camera frame and a subject's head. Select Standing

for stand-up meetings and Sitting for all others.

**Autoframe Zoom Speed** (VB1 only): Select how quickly the Videobar camera zooms in and out when people move in the room: **Slow**, **Normal**, or **Fast**.

**Autoframe Pan/Tilt Speed** (VB1 only): Select how quickly the Videobar camera pans and tilts when people move in the room: **Slow, Normal,** or **Fast**.

**Autoframe Border Size** (VB1 only): Adjusts the border size of the framed image: **Small**, **Normal**, or **Large**. For minimal border (maximum zoom), select **Small**.

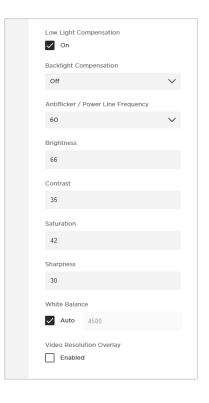


Autoframe Information (VB1 only): Select or deselect this checkbox to enable or disable this troubleshooting feature. When set to **Enabled**, autoframe objects will be superimposed on the video image. These will be visible to the far-end meeting participants and in the self-view.

Low-light Compensation: Select or deselect this checkbox to enable or disable automatic low-light compensation. When enabled, Low-light Compensation optimizes video in dim lighting conditions.

**Note:** You can enable lowlight compensation only when Backlight Compensation is set to **Off**.

Backlight Compensation: This setting adjusts the image exposure in conditions with bright light sources. For example, Backlight Compensation will better illuminate people who are silhouetted in front of bright lighting. (When Backlight Compensation is enabled, Low Light Compensation will be set to Off automatically.)



For VB1, select **Low**, **Medium**, or **High** to set the level of Backlight Compensation or select **Off** to disable it.

For VB-S, select **On** or **Off** to enable or disable Backlight Compensation.

**Antiflicker/Power Line Frequency:** Select **50** or **60** specify the AC frequency (in Hz) of lighting in the room; this feature will compensate for any flickering seen in the video image. Select **Off** to disable this feature.

Brightness: Set the overall lightness or darkness of the image.

**Contrast:** Set the difference between the light and dark areas of the image.

**Saturation:** Set the depth of colors in the image.

**Sharpness:** Set the image clarity.

**White Balance:** Set the balance of color temperature of the light source. Select **Auto** to set the balance automatically.

**Video Resolution Overlay:** Select or deselect this checkbox to enable or disable this troubleshooting feature. When enabled, the screen resolution will be superimposed on the video image. This will be visible to the far-end meeting participants and in the self-view.

#### **Audio**

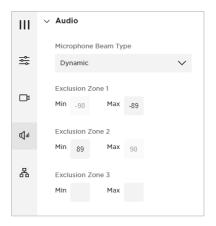
The Audio section provides access to microphone array settings (including beam configuration), audio settings, and audio input and output levels:

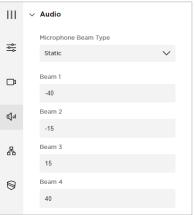
**Microphone Beam Type:** Select **Static** or **Dynamic** to specify whether the microphone beams are automatically or manually adjusted.

The default beam type is **Dynamic**, which includes a single beam that freely searches for the loudest sound in the room and additional dynamic beams that are automatically directed at the people speaking in the room.

**Static** beams can be manually aimed at designated speaking locations.

Microphone Beams 1-4: Specify the angle of each beam to optimize the detection of people speaking in the room. You can do this only when the Microphone Beam Type is set to Static. You can create a maximum of four beams.





**Note:** Leaving a beam's value blank removes it from the microphone beam coverage.

**Exclusion Zones 1–3:** Specify the **Min** and **Max** angles of the area in which dynamic microphone beams will never be directed. You can do this only when the **Microphone Beam Type** is set to **Dynamic**. There is a maximum of three exclusion zones.

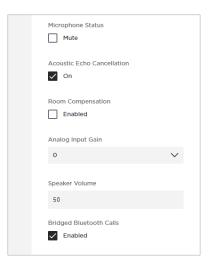
**Note:** Leaving these values blank removes that exclusion zone from the coverage area.

**Microphone Status:** Mutes or unmutes the Videobar microphone.

#### **Acoustic Echo Cancellation:**

Enable or disable Acoustic Echo Cancellation (AEC), which suppresses acoustic feedback between the loudspeaker and the microphone.

Room Compensation (VB1 only): Enable or disable audio processing for rooms that are more reverberant. Enable this feature to improve microphone intelligibility in a reverberant room (e.g., with glass walls). The default is **Disabled**.



**Analog Input Gain** (VB1 only): Set the gain as needed to balance the volume of an external source with the other audio sources (USB and *Bluetooth* audio signal).

Speaker Volume: Set the audio level of the Videobar loudspeaker.

**Bridged** *Bluetooth* **Calls:** Enable or disable the ability of *Bluetooth* calls and media to bridge to the active UC call.

#### **Network**

The Network section provides access to wired, wireless, SNMP, and REST API configuration settings.

#### Wired

This section is available for Videobar VB1 only.

**Wired IP Configuration:** Select the IP configuration type: **DHCP** or **Static**.

> **DHCP** (Dynamic Host Configuration Protocol) dynamically assigns the **Wired IP Address, Subnet Mask**, and other network parameters (when applicable) for the Videobar.

Select **Static** to manually enter a **Wired IP Address** and **Subnet Mask**.

**Use 802.1 x EAP:** Click this switch to enable or disable connection to an 802.1 x EAP network with advanced security settings. When enabled, use the menus and fields that are shown to specify the settings:



EAP Method: Select PEAP, TLS, or TTLS.

Phase 2 Authentication: Select None, MSCHAPV2, or MD5.

Identity

**Anonymous Identity** 

**Password** (Select or deselect the **Show Password** checkbox to show or hide the password.)

The following optional settings can only be configured when the **Wired IP Configuration** is set to **Static**. These settings are read-only when the **Wired IP Configuration** is set to **DHCP**. The **MAC Address** is always read-only.

Wired IP Address: The IP address of the wired network.

**Subnet Mask:** The IP address of the wired network's subnet mask.

**Default Gateway:** The IP address for the Videobar device used to forward traffic to other networks.

**Primary DNS:** The IP address of the primary DNS server that assigns an IP address to a Videobar device.

**Secondary DNS:** The IP address of the primary DNS server that assigns an IP address to a Videobar device when the Primary DNS server is not available.

**MAC Address:** The media access control address, which is a unique identifying number assigned to the network interface controller (NIC).

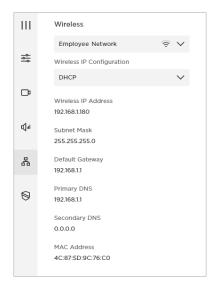
**Note:** Videobar devices also support auto-IP. If **Wired IP Configuration** is set to **DHCP** and no DHCP server is found, the Videobar device will automatically assign itself an IP address in the auto-IP range.

#### Wireless

Wireless Network: This menu includes a list of available networks, the signal strength of each network, and a lock icon if the network is password-protected. If you select a WPA2 network, enter the password in the field that appears, and then click Join to connect to the network.

**Wireless IP Configuration:** Select the IP configuration type: **DHCP** or **Static**.

**DHCP** (Dynamic Host Configuration Protocol) dynamically assigns the **Wireless IP Address, Subnet Mask**, and other network parameters (when applicable) for the Videobar.



Select **Static** to manually enter a **Wireless IP Address** and **Subnet Mask**.

The following optional settings can only be configured when the **Wireless IP Configuration** is set to **Static**. These settings are readonly when the **Wireless IP Configuration** is set to **DHCP**. The **MAC Address** is always read-only.

Wireless IP Address: The IP address of the wireless network.

**Subnet Mask:** The IP address of the wireless network's subnet mask.

**Default Gateway:** The IP address for the Videobar device used to forward traffic to other networks.

**Primary DNS:** The IP address of the primary DNS server that assigns an IP address to a Videobar device.

**Secondary DNS:** The IP address of the primary DNS server that assigns an IP address to a Videobar device when the Primary DNS server is not available.

**MAC Address:** The media access control address, which is a unique identifying number assigned to the network interface controller (NIC).

**Note:** Videobar devices also support auto-IP. If **Wireless IP Configuration** is set to **DHCP** and no DHCP server is found, the Videobar device will automatically assign itself an IP address in the auto-IP range.

#### **SNMP**

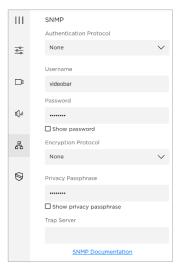
Bose Professional Videobar devices support the Simple Network Management Protocol (SNMP) v3 for network management and monitoring.

**Authentication Protocol:** Select an optional authentication protocol to ensure the identity of users.

**Username:** Enter the username of the user who can access SNMP v3 information (maximum of 32 characters).

Password: Enter the password for the user who can access SNMP v3 information (maximum of 32 characters). This password is sometimes referred to as the authentication passphrase.

**Encryption Protocol:** Select an optional privacy protocol to ensure the confidentiality of data.



**Privacy Passphrase:** Enter the privacy passphrase for the user who can access SNMP v3 information. You cannot enable privacy without enabling authentication.

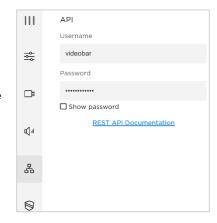
**Trap Server:** Enter the IP address of the SNMP server. The Videobar device will send traps and event notifications to this address per the MIB.

**Note:** Click the **SNMP Documentation** link for detail on specific polls and traps supported by Videobar devices via SNMP.

#### API

Bose Professional Videobar devices support representational state transfer application programming interface (REST API) for network management and monitoring.

These settings are available only if the API is enabled. If the API is disabled, **Disabled** will appear in this section in place of these settings. Use the Videobar Administration app or WebUI to enable or disable the API; you cannot enable or disable the API within the Videobar Administration app.



**Username:** Enter the username of the user who can access REST API information (maximum of 32 characters).

**Password:** Enter the password for the user who can access REST API information (maximum of 32 characters). Select or deselect the **Show Password** checkbox to show or hide the password.

**Note:** Click the **REST API Documentation** link to see the REST API Guide, which contains information on the REST API variables and operations that Bose Professional Videobar devices support.

# **Security - Certificates**

The Security - Certificates section provides access to certificate management settings. Digital certificates contain information needed to authenticate identities of users, devices, organizations, servers, etc.

**Note:** Videobar VB1 can access both wired and wireless networks, while Videobar VB-S can access wireless networks only.



#### **Certificate Signing Request**

The Certificate Signing Request section lets you create certificate signing requests (CSRs).

To create a new CSR, click **Create CSR**. You can create only one CSR at a time.

In the **Create New CSR** window that appears, configure the following settings:

Use Case: Select the use case: Web Server or 802.1X EAP-TLS.

**Note:** Videobar VB1 can access both wired and wireless networks, while Videobar VB-S can access wireless networks only.

Hash Algorithm: Select the hash algorithm: SHA-256, SHA-384, or SHA-512.

Enter any of the following information:

**Common Name (CN)** (This is the only required field.)

Organizational Unit (OU)

Organization (O)

City or Locality (L)

**State or Province (ST)** 

Country (C)

SAN: DNS Domain Name

**SAN: IP Address** 

**SAN: UPN** 

**SAN: Other Name** 

Click Create to create the CSR or click Cancel to close the window.

Pending CSRs will be shown under **Pending Certificate Signing Requests**.



#### Install/View

The Install/View section lets you install certificates.

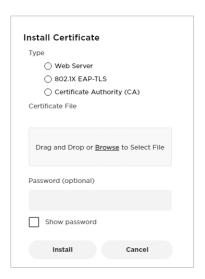
To install or view a new certificate, click **Install**.

In the **Install Certificate** window that appears, configure the following settings:

**Type:** Select the type of certificate: **Web Server**, **802.1X EAP-TLS**, or **Certificate Authority (CA)**.

**Note:** Videobar VB1 can access both wired and wireless networks, while Videobar VB-S can access wireless networks only.

**Certificate File:** In the gray box under **Certificate File**, either drag and drop the desired certificate file or click **Browse** to locate and select the desired certificate file.



**Password:** Enter the password for the user who can access the certificate (maximum of 32 characters). Select or deselect the **Show Password** checkbox to show or hide the password.

Click **Install** to install the certificate or click **Cancel** to close the window.

Installed certificates will be shown under **Installed Certificates**.



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