**Bose Videobar VB-S: All-in-one USB conferencing device**ARCHITECTS’ & ENGINEERS’ SPECIFICATIONS

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The USB conferencing device shall be designed for small Bring Your Own Meeting (BYOM) spaces: meeting booths, huddle spaces, and rooms up to 3 × 3 meters (10 × 10 feet). The USB conferencing device shall consist of a 4K ultra-HD camera, beam-steering microphone array, powered loudspeaker, plug-and-play USB connectivity, and onboard Wi-Fi connectivity. It shall function as a USB peripheral providing microphone, speakerphone, and camera functions for a BYOM device, host computer, or integrated room kit running a Unified Communication (UC) client service such as Microsoft Teams, Zoom, and Google Meet.

The ultra-HD camera shall support a field of view 123° diagonal × 115° horizontal × 81° vertical with 5x digital zoom, autoframing with a choice of group or individual mode, and a digital pan‑tilt‑zoom (DPTZ) with three configurable presets. Camera processing shall have automatic white balance, automatic brightness, and digital noise reduction. The camera resolution shall support 2160p (4K), 1080p, 720p, 960×480, 848×480, 640×480, 640×360, 432×240 with H.264 and M-JPEG video encoding. It shall have an integrated privacy cover that blocks the camera view and can be enabled or disabled via a sliding mechanical switch under the device.

The beam-steering microphone array shall consist of four individual elements that digitally form into four discrete beams with a pickup range of 4 meters (13 feet). Their frequency range shall be 20 Hz to 15 kHz (-3 dBSPL). The microphone array shall support static and adaptive dynamic beamforming, three exclusion zones, acoustic echo cancellation (AEC), and digital noise suppression that automatically focuses on voices and rejects unwanted background noise.

The loudspeaker system shall be self-powered and processed. It shall consist of a transducer with a frequency response of 90 Hz to 20 kHz (-10 dBSPL). The amplifier shall consist of a single 15 W output channel for the loudspeaker transducer.

The USB conferencing device shall have a USB-C port for camera, microphone, and audio connection to a host computer via the included USB-C-to-A cable and shall support USB 2.0 and USB 3.0 UAC, UVC, and HID device classes. The device shall have *Bluetooth* connectivity to support audio playback as well as remote control with 4.2 HSP, A2DP, and AVRCP profiles and BLE support. It shall also include a power supply for electrical connection.

The USB conferencing device shall be network-enabled with an onboard Wi-Fi 802.11ac card. It shall support connection to existing network infrastructure, making installation and troubleshooting faster and allowing for remote updates, management, and monitoring. It shall configure easily using a supplied software configuration application that runs on Windows OS, macOS, or via a web browser. It shall also incorporate remote function management with real-time status and allow for easy single-unit or system-wide changes through a management software application that can also support SNMP, REST or WebSocket API.

The USB conferencing device shall be controllable by the end-user via an included infrared remote control or a free mobile app downloadable from Google Play or the App StoreSM. The end-user shall be able to control the camera position, zoom ratio, and presets as well as activate or deactivate autoframing. The end-user shall be able to adjust the loudspeaker volume level, mute or unmute the microphones, and connect or disconnect *Bluetooth* devices. The system administrator shall be able to supersede end-user control of the USB conferencing device via a supplied software application that enables them to activate, deactivate, or limit end-user control of the camera, loudspeakers, or microphones.

The USB conferencing device shall provide visual indications of power connection, loudspeaker volume, mute status, *Bluetooth* pairing, fault, or connectivity via a light bar. Camera status shall be indicated via a green LED above the camera that is still visible when the privacy cover is enabled.

The USB conferencing device shall be installable on standard drywall via an included bracket or on a table using an included tabletop stand. An optional display mounting kit shall be available for the device to be mounted to the top or bottom of a video display. An optional mud ring shall be available for the device to be wall-mounted with its cables running through a two-gang electrical box.

The USB conferencing device shall be the Bose Videobar VB-S.