

iCam VB80 Kit

All-in-One Conference Videobar with switcher and BYOD/BYOM

< Design spec for integrators and designers >

INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

V1.0

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GENERAL

The system shall consist of the one 4K all-in-one videobar, 2x extension microphones (support up to 5x as option) and 1x USB C wireless dongle.

VIDEOBAR

- The videobar shall be all-in-one solution of speaker, microphone, and camera.
- The videobar shall be with wired screen presentation function via USB-C (with DP) and HDMI.
- The videobar shall support wireless BYOD via Airplay, Miracast, and USB C wireless dongle.
- The videobar shall support wide angle 4K video camera with 120° FOV.
- The videobar shall support 4x MEMS digital microphone arrays with a range of 5 ~ 8 meters and an angle of 180°.
- The videobar shall support 2x 8W Stereo full range speakers with passive radiator bass enhancement.
- The videobar shall support AEC (Acoustic Echo Cancellation), AGC (Automatic Gain Control), ANS (Automatic Noise Suppression) and full duplex mode communication to make all participants feel like they are in the same room.
- The videobar shall support Auto Framing / Speaker Tracking / Presenter Tracking based on AI technology makes meetings more intimate and friendly.
- The videobar shall support plug-and-play with excellent compatibility for OS and UC applications, such as Zoom, Teams, Webex, Skype, BlueJeans, etc.
- The videobar shall support flexible control options of Web GUI and Remote Controller.
- The videobar shall support built-in Wi-Fi and soft AP.
- The videobar shall have 1x HDMI in, 1x HDMI out, 1x USB-C, 1x USB-B, 1x USB-A, 1x Mic extension port.
- The videobar shall support max. 4K30Hz video resolution output.
- The videobar shall support MJPEG/YUY2/H.264/H.265 | UVC 1.1
- The videobar lens shall support CMOS, Effective Pixel: 8.0M



- The videobar shall support Auto White Balance, Auto Backlight Compensation.
- The videobar shall support both 2D and 3D Digital Noise Reduction
- The videobar shall support 120° FOV.
- The videobar shall support 5x digital zoom ePTZ.
- The videobar shall support HDR and WDR.
- The videobar shall support 4x Linear microphone arrays with echo cancellation, pick-up range 5m/16.4ft~8m/26.2ft
- The videobar shall support HDMI 2.0, HDCP 2.2
- The videobar shall support USB C 60W charging to the PC.
- The videobar shall support 1x RJ45 to connect to the network switch.
- The videobar shall support both BYOD (Bring Your Own Devices) and BYOM (Bring Your Own Meeting).
- The videobar shall support auto switching the active USB host between the USB-C or USB Type B connection.
- The videobar shall support IP conflict detection.
- The videobar shall support both single screen and split dual-screen displaying modes.
- The videobar shall support CEC.
- The videobar shall support Access Code to prevent users from accidentally connecting to an unintended device and protect from an unauthorized access.
- The videobar shall support user customized guide screen.
- The videobar shall support auto screen off standby mode.

EXPANSION MIC

- The microphone shall support 4x MEMS omnidirectional microphones array with a pickup range of 3 meters.
- The microphone shall support AEC (Acoustic Echo Cancellation), AGC (Automatic Gain Control), Background Noise Reduction and full duplex communication, making all participants feel like they are talking face-to-face.
- The microphone shall support cascading of up to five microphones for extending pickup range.
- The microphone shall support Mic mute button with LED feedback.
- The microphone shall be compatible with the videobar for audio signal extension over Ethernet cable.
- The microphone shall support Frequency Response 100~10KHz.
- The microphone shall support Sensitivity -26dBFS.
- The microphone shall support Signal-to-Noise Ratio 62dB.
- The microphone shall support Background Noise Reduction.
- The microphone shall support firmware upgrade via USB C port.
- The microphone shall support pressing the button to toggle between mute and unmute statuses for the microphones, including the one at the Video Bar and the rest of other expansion microphone units.
- The microphone shall support the total length of all CAT6 cables maximum 50 meters.

USB C WIRELESS DONGLE

- The dongle shall support sharing contents from screen sources (e.g., laptop) to a display device wirelessly through the Videobar.
- The dongle shall support transmitting up to 1080P video signal with audio.



- The dongle shall be fully compatible with most operation systems, like Windows 7/10, macOS, Android OS.
- The dongle shall support Plug and play, no installation and no driver are needed.
- The dongle shall support transmitting video, audio and touch signals.
- The dongle shall support 2.4G&5G frequency bands.
- The dongle shall be with USB C connector.
- The dongle shall support IEEE 802.11 a/b/g/n, IEEE 802.11ac.
- The dongle shall support WPA2-PSK or IEEE 802.1X Authentication.
- The dongle shall be with a image freeze/ unfreeze button to pause or resume the wireless casting.

VENDOR BRAND

- The Videobar, expansion microphones and wireless dongles shall come from single vendor.
- The Vendor shall be with office in Singapore and UK.