

Videobar VB1 & VB-S

Application Note: Recommended USB Accessories

Overview

This application note documents several USB accessories we have tested with the Videobar VB1 and VB-S to verify their compatibility and to ensure they support the following conditions and functions:

- Microphone signal input and loudspeaker signal output
- Camera signal input
- Video signal output (UHD in “mirrored”/“duplicated” and “extended” monitor configurations)
- Control and signaling to Videobar Configuration software
- HID signaling commands (microphone mute, volume control, etc.)
- No visible latency or distortion of video signal sent from camera to host computer
- No visible latency or distortion of video signal sent from host computer to display

This application note documents only some of the available products in the market. Other products that have not yet been tested may also be compatible.

IMPORTANT: Please note the following:

Make sure the speed of the USB cable between the host computer and transmitter matches the speed of the USB extender (e.g., if your USB extender is rated for USB 3.0, use a USB 3.0 cable).

USB cables, USB extension cables, and USB extender systems must support isochronous data transfer to be compatible with Videobar VB1/VB-S.

When using Videobar VB1, we recommend using the 2.0 m (6.5 ft) Videobar Right-angle USB 3.1 Cable (sold separately), if possible.

Do **not** use the USB cable included with Videobar VB1 to connect Videobar VB-S to a computer. The VB1 USB cable is designed specifically for VB1.

To send a camera image with UHD 2160p (4K) video resolution from Videobar VB1 or VB-S, you must use a USB cable rated for USB 3.0 or higher. When using VB1, we recommend using the 2.0 m (6.5 ft) Videobar Right-angle USB 3.1 Cable (sold separately).

Compatible Products

Product	Type	Speed	Length	Connectors	Compatible Videobar Models	Notes
ATEN UE3310	USB extension cable	USB 3.1, Gen 1	10.0 m (32.8 ft)	USB-A (male) to USB-A (female)	VB1, VB-S	<p>Use a USB-C-(female)-to-A-(male) adapter for any of the following configurations:</p> <ul style="list-style-type: none"> VB1 connected to USB 2.0 cable (included with VB1), 5 m, USB-C (male) to USB-C (male) VB1 connected to USB 3.1 cable (Videobar Right-angle USB 3.1 Cable accessory, sold separately), 2 m, USB-C (male) to USB-C (male) <p>We recommend not using the 152-mm (6-in) extension included with this cable. Using the extension can cause unreliable connectivity.</p>
Kramer CA-UAM/UAF-65	USB extension cable	USB 2.0	19.5 m (65.0 ft)	USB-A (male) to USB-A (female)	VB1, VB-S	If the host computer requires a USB-C connector, use a USB-A-to-C adapter.
Kramer CP-AOCU31/CC-35	USB cable	USB 3.1, Gen 2	10.5 m (35.0 ft)	USB-C (male) to USB-C (male)	VB1 only	<p>Use this cable to replace (not extend) the USB cable connected to VB1.</p> <p>If possible, apply strain relief to the end of the cable that is connected to VB1.</p> <p>We recommend not using this cable with a VB1 that is mounted on a wall. The end of the cable is too large for the space between VB1 and the wall.</p>
Logitech Strong USB	USB cable	USB 3.2	10.0 m (32.8 ft)	USB-C (male) to USB-A (male)	VB1, VB-S	<p>Use this cable to replace (not extend) the USB cable connected to the VB1/VB-S.</p> <p>If the host computer requires a USB-C connector, use a USB-A-to-C adapter.</p> <p>We recommend not using the 152-mm (6-in) extension included with this cable. Using the extension can cause unreliable connectivity.</p>

Appendix: Test Parameters

We used the following configurations to test compatibility.

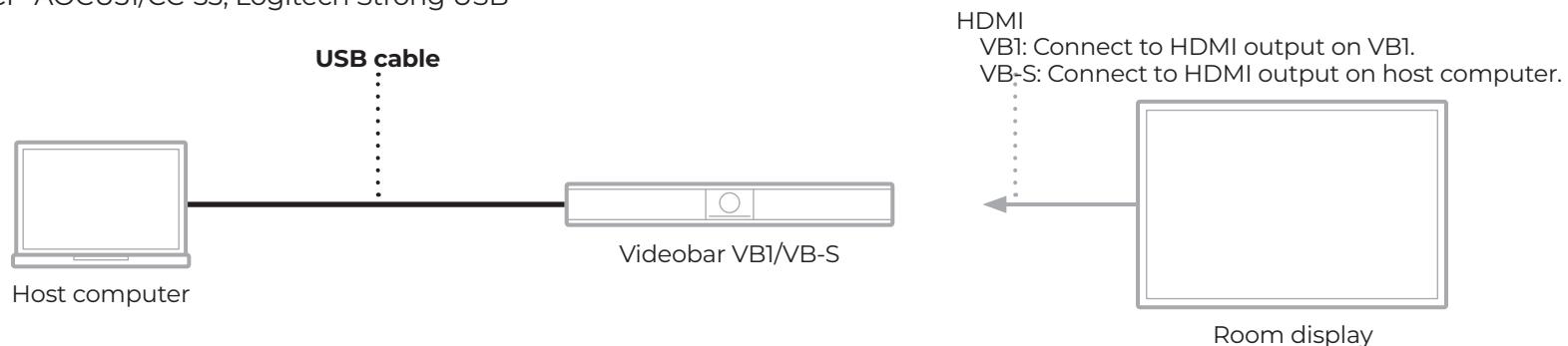
Operating systems: Windows 10, Windows 11, macOS 11.5.2 (Big Sur), macOS 12 (Monterey)

Computers: Dell Precision 5540, Dell Precision 5560, Dell Precision 7530, MacBook Pro (M1 Pro), MacBook Pro (Intel)

Configuration 1

USB cable connecting host computer to Videobar VB1/VB-S

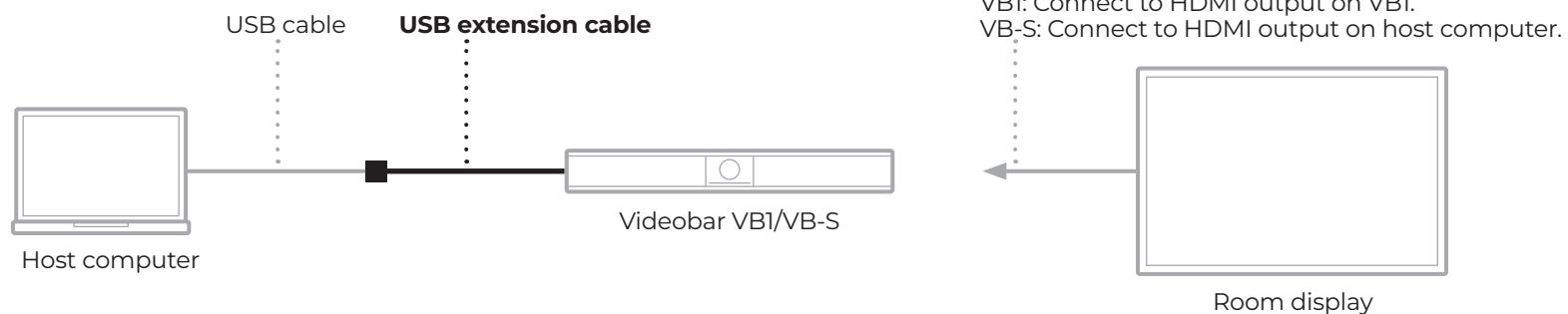
Models: Kramer CP-AOCU31/CC-35, Logitech Strong USB



Configuration 2

USB extension cable + USB cable connecting host computer to Videobar VB1/VB-S

Models: ATEN UE3310, Kramer CA-UAM/UAF-65



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