

UC-SB1

UC Video Conference Smart Sound Bar

- > A complete conferencing speakerphone solution in one stunning front-of-room device
- > Sleek and stylish sound bar design installs cleanly beneath the room display(s) — mounts on the wall or sits on a credenza
- > Multicolor status bar — stylishly indicates audio volume, mute, and operational status
- > 180° far-field adaptive beamforming microphone array — senses who is speaking and optimizes directionality for clear pickup
- > 23 foot (7 meter) microphone pickup range — eliminates any need for tabletop microphones
- > High-powered 2-way stereo speakers — produces full, rich, and natural sound quality
- > Advanced AEC & DSP technology — affords exceptional full-duplex audio performance with highly-intelligible, echo-free 2-way voice quality
- > Camera input — allows connection of any USB conferencing camera
- > USB 3.0 — provides audio and video connectivity through a single USB interface (USB 2.0 compatible)
- > Plug & Play — compatible with major computer OS platforms running any web conferencing software
- > Engineered to Microsoft Teams® and Skype® for Business specifications
- > Analog audio I/O — input and output connections for local source and assistive listening devices
- > Integral hinged mounting bracket — simplifies wall mount installation
- > Low-power standby — wakes and sleeps automatically to save energy
- > Internal power supply — 100 to 240 Volt AC line powered



All in one incredible front-of-room device, the Crestron® UC Video Conference Smart Sound Bar (UC-SB1) facilitates effortless audio conferencing without any other microphones or speakers to install. Mounted on the wall or placed on a credenza beneath the main room display(s), the smart sound bar looks great and sounds even better in any small to medium-sized meeting space.

High-powered stereo speakers, adaptive beamforming microphone, and advanced digital signal processing deliver exceptional full-duplex speakerphone performance with highly intelligible, echo-free voice clarity. Its compact, all-in-one design reduces clutter on the conference table, and even accommodates rooms with no table at all. A USB camera can be connected via a USB 3.0 port on the rear panel.

See also model UC-SB1-CAM for a similar solution with built-in camera.

USB Speakerphone

The UC-SB1 is a high-performance AEC-enabled speakerphone compliant with Microsoft Teams® and Skype® for Business specifications. A USB camera can also be connected for a full video conferencing solution. It integrates with any computer running UC conferencing or web collaboration

software, and also supports general presentation of computer-based AV content. A single USB 3.0 (2.0 compatible) connection provides a plug-and-play interface to the computer.

Note: For Zoom Rooms™ conferencing applications, the UC-SB1 can be paired with a Crestron TSW-760 or TSW-1060 series touch screen along with a computer running Zoom Rooms software.

The UC-SB1 behaves like any USB Audio class device, enabling use as a speaker and microphone for all types of multimedia applications running on a computer. Even if you're not on a call, you can use the smart sound bar to share content with everyone in the room, or make a professional recording of the meeting, with exceptional results.

Superb Sound Quality

The smart sound bar facilitates perfectly natural conversations with exceptional audio fidelity and pickup. Its integrated 180° far-field microphone array faithfully captures voices throughout the room using adaptive beamforming technology to focus in on whoever is speaking. Its high-powered, two-way stereo speakers produce full, rich and real sounding audio for both voice and program material. High-performance AEC technology achieves transparent full-duplex performance free of distracting echo or noise. Additional digital signal processing assures optimal sound quality for an immersive experience, whether conferencing or presenting content.

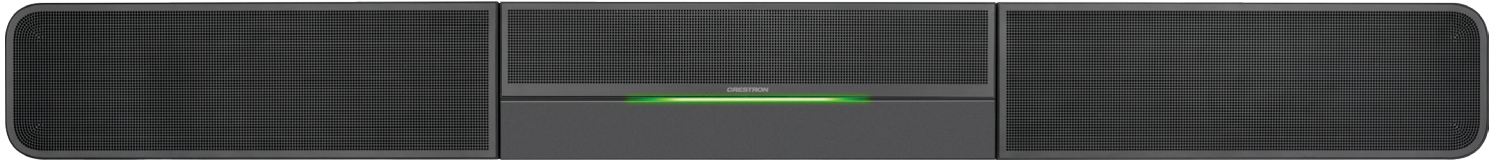
USB Camera Input

The UC-SB1 includes a USB 3.0 camera port to accommodate an external USB camera. Connecting the camera to the sound bar facilitates full audio and video connectivity to the computer through a single USB interface.

Enhanced Functionality

The UC-SB1 smart sound bar integrates seamlessly with a wide variety of computer-based UC platforms. Plug-and-play USB connectivity enables control of the sound bar through the computer without requiring any extra software, remotes, or control system. The computer detects the sound bar connection automatically, and in turn the sound bar responds when an online meeting is started, speaker volume is adjusted, or the speaker or mic is muted. On the front of the sound bar, operational status is displayed by a stylish bar of light that expands outward as the volume is increased and changes colors to indicate connection and mute status.

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To simplify operation and conserve energy, the smart sound bar powers on automatically when an audio input signal is detected, and reverts to low-power standby mode when no signal is detected for several minutes.

Analog Audio Input & Output

Additional audio connectivity is provided through unbalanced stereo analog input and output jacks on the rear panel. The input accommodates any line-level audio source, which simply feeds to the internal amplifier and speakers with no volume control or other signal processing. The output is provided to feed an assistive listening system, and carries the same audio signal as the sound bar speakers.

Easy Installation

Installation is a breeze using the integral hinged mounting bracket, which attaches easily to the wall and allows the sound bar to be tipped forward for full access to the rear panel connections. Once installed and connected, the sound bar is held upright magnetically for normal operation. The bracket allows for attachment to any wall surface using two screws. A total of eight mounting keyholes, arranged in 2 inch (51 mm) increments, accommodates any wall stud spacing from 12 to 24 inches (305 to 610 mm).

Alternately, the sound bar can be simply placed on a shelf or credenza. Optimal results are achieved by positioning the unit at ear/face height. A single 100-240 Volts AC outlet is required to power the unit.

SPECIFICATIONS

Speakers

Woofers: (2) 3 inch (76 mm) polypropylene cone w/rubber surround
Passive Radiators: (2) 3 x 4-3/8 inch (76 x 112 mm) polypropylene cone w/rubber surround
Tweeters: (2) 1 inch (25 mm) polyester dome
Amplifier Power: 20 Watts RMS per channel, stereo
Frequency Response: 80 Hz to 20 kHz (± 3 dB)
Effective Output Level: 91 dB SPL @ 1 meter, both channels driven at full power

Microphone

Microphone: Linear quad-element far-field adaptive beamforming microphone array
Pickup Range: 23 ft (7 m) typical
Pickup Angle: $\pm 90^\circ$ Horizontal
Frequency Response: 20 Hz to 8 kHz

Audio

DSP: Acoustic echo cancellation, dereverberation, automatic gain control, dynamic noise suppression, adaptive beamforming, speaker volume

control, speaker EQ and limiting (fixed); full-duplex IEEE 1329 Type 1 compliant;

Note: DSP affects USB audio in/out only unless noted otherwise

USB Audio In/Out: USB 3.0, UAC 1.0 & HID, AEC-enabled USB speakerphone compliant with Microsoft Teams & Skype for Business specifications, 2-channel stereo far-end/content signal input, 2-channel mono microphone signal output; plug & play compatible with Crestron UC-ENGINE, computer, or other USB Audio Class host

Analog Input: 2-Channel stereo, fixed level (bypasses DSP), for in-room amplification of an external audio source

Analog Input Sensitivity: 1 Vrms per channel for full rated output

Analog Output: 2-Channel stereo, fixed level, feeds amplified audio content to an assistive listening system;

Note: Output level varies for USB input signal only according to the speaker volume control setting; analog input signal passes through without volume control or DSP

Video

USB Camera Input: USB 3.0 port, accepts connection of a USB camera

Indicators

Status Bar: (1) Multi-segment RGBY LED zero-center mutually-diverging linear bargraph;
 Indicates the speaker volume, microphone mute, and speaker mute in red and green LEDs;

Connectors

AUDIO IN: (1) 3.5 mm TRS mini-phone jack;
 Unbalanced stereo line-level audio input;
 Input Level: 1 Vrms maximum;
 Input Impedance: 10k Ohms

AUDIO OUT: (1) 3.5 mm TRS mini-phone jack;
 Unbalanced stereo line-level audio output;
 Output Level: 1 Vrms maximum;
 Output Impedance: 100 Ohms

PC: (1) USB 3.0 Type-B connector, female;
 USB 3.0 device port;
 Connects to UC Engine or computer;
 6 ft (1.83 m) USB 3.0 Type B to Type A cable included

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CAMERA: (1) USB 3.0 Type-A connector, female;
USB 3.0 host port;
Allows connection of an optional external camera

100-240V~ 0.5A 50/60Hz: (1) IEC 60320 C14 main power inlet;
Mates with removable power cord, included

Power

Main Power: 500 mA maximum @ 100-240 Volts AC, 50/60 Hz
Power Consumption: 19.3 Watts

Environmental

Temperature: 41° to 104° F (5° to 40° C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 66 BTU/hr

Construction

Enclosure: Lightly textured gunmetal black finish, plastic housing, perforated stainless steel grilles, die-cast aluminum rear cover, integral steel hinged mounting bracket
Mounting: Freestanding or surface wall mount at ear/face level (adhesive feet included, mounting bracket attached)

Dimensions

Height: 4.57 in (117 mm), 4.64 in (118 mm) with feet
Width: 43.60 in (1108 mm)
Depth: 3.90 in (100 mm)

Weight

Approximately 15 lb (6.8 kg)

Compliance

CE, IC, UL 62368-1, CSA C22.2 62368-1, EN 62368-1, IEC 62368-1, FCC Part 15 Class B, ICES-003 Issue 5 Class B, EN55022:2010 Class B, AS/NZS CISPR22:2010 Class B, AS/NZS CISPR 22:2010 Class B, EN55024:2010, EN61000-3-2:2014, EN61000-3-3:2013, RoHS compliant

MODELS & ACCESSORIES

Available Models

UC-SB1: UC Video Conference Smart Sound Bar

Available Accessories

CBL-AUDIO Series: Mini-TRS Stereo Audio Interface Cables

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