UC-SB1

UC Video Conference Smart Soundbar

- A complete conferencing speakerphone solution in one stunning front-of-room device
- Sleek and stylish soundbar design installs cleanly beneath the room display(s) — mounts on the wall or sits on a credenza
- Multicolor status bar — indicates audio volume, mute, and operational status
- 180° far-field adaptive beamforming microphone array — senses who is speaking and optimizes directionality for clear pickup
- High-powered 2-way stereo speakers produce 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
- Plug & Play — compatible with major computer OS platforms running any web conferencing software
- Analog audio I/O — input and output connections for local source and assistive listening devices
- Integral hinged mounting bracket — simplifies wall mount installation
- Internal power supply — 100 to 240 VAC line powered

An incredible front-of-room device, the Crestron® UC Video Conference Smart Soundbar (UC-SB1) eliminates the need to install additional microphones or speakers. Mounted on the wall or placed on a credenza beneath the main room display(s), the smart soundbar 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 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.

**NOTE:** 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. A USB camera can also be connected for a full video conferencing solution. The soundbar 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 a computer.

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 soundbar to share content with everyone in the room, or make a professional recording of the meeting, with exceptional results.

**Superb Sound Quality**

The smart soundbar facilitates conversations with exceptional audio fidelity and pickup. Its integrated 180° far-field microphone array faithfully captures voices throughout the room using adaptive beamforming technology. Its high-powered, two-way stereo speakers produce full, rich and real sounding audio. 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.

**USB Camera Input**

The UC-SB1 includes a USB 3.0 camera port to accommodate an external USB camera. Connecting the camera to the soundbar facilitates full audio and video connectivity to a computer through a single USB interface.
Enhanced Functionality
The UC-SB1 smart soundbar integrates seamlessly with a wide variety of computer-based UC platforms. Plug-and-play USB connectivity enables control of the soundbar through the computer without requiring any extra software, remotes, or control system. The computer detects the soundbar connection automatically, and in turn the soundbar responds when a conference call is placed, speaker volume is adjusted, or the speaker or mic is muted. On the front of the soundbar, operational status is displayed by a multicolor LED status bar that expands outward as the volume is increased and changes colors to indicate connection and mute status.

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 soundbar speakers.

Easy Installation
Installation is a breeze using the integral hinged mounting bracket, which attaches easily to the wall and allows the soundbar to be tipped forward for full access to the rear panel connections. Once installed and connected, the soundbar 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 in. (51 mm) increments, accommodates any wall stud spacing from 12 to 24 in. (305 to 610 mm). Alternately, the soundbar 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 VAC outlet is required to power the unit.

Specifications

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

Microphone
Microphone: Linear quad-element far-field adaptive beamforming microphone array
Pickup Range: 15 ft. (4.6m)¹
Pickup Angle: 180° 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, 2-channel stereo far-end/content signal input, 2-channel mono microphone signal output; plug & play compatible with the 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
UC-SB1

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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 computer; 6 ft (1.83 m) USB 3.0 Type B to Type A cable included

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 VAC, 50/60 Hz

Power Consumption: 19.3 W

Environmental

Temperature: 41°F to 104°F (5°C 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


Models & Accessories

Available Models

UC-SB1
UC Video Conference Smart Soundbar

Available Accessories

CBL-AUDIO Series
Mini-TRS Stereo Audio Interface Cables

Notes:

1. Microphone pickup range may vary in rooms with highly reflective infrastructure (e.g., glass walls, metal furniture, open ceilings, etc.) or above average ambient noise.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or by calling 888-263-8754.

Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at www.crestron.com/about/partner-info/commercial-lighting-consultants. For assistance with incorporating this product into a design or specification, please contact the Commercial Lighting Consultant Hotline via email at clcdesign@crestron.com or by calling 888-330-1502.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

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3.90 in
100 mm

4.57 in
117 mm

43.60 in
1108 mm

2.00 in
50.8 mm
(each)

12.00 in
305 mm

2.00 in
50.8 mm
(each)

Connector Panel

Connector Panel behind Mounting Bracket