

UC-SB1-FLEX

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*
- *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-FLEX) 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-FLEX for a similar solution with built-in camera.

USB Speakerphone

The UC-SB1-FLEX is a high-performance AEC-enabled speakerphone. A USB camera can also be connected for a full video conferencing solution. A single USB 3.0 (2.0 compatible) connection provides a plug-and-play interface to the Crestron UC-ENGINE as part of a Crestron Flex System.

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.

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USB Camera Input

The UC-SB1-FLEX 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 the UC-ENGINE through a single USB interface.

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 Crestron UC-ENGINE

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

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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 UC-ENGINE or 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° 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-FLEX

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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 855-263-8754.

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.

Certain Crestron products contain open source software. For specific information, visit www.crestron.com/opensource.

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