

# UC-SB1-CAM

## UC Video Conference Smart Soundbar & Camera



- *A complete conferencing speakerphone and camera 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*
- *Built-in Huddly IQ™ camera — a premium conferencing camera fully integrated into the soundbar*
- *Ultra wide-angle 150° diagonal field of view — captures the entire room*
- *Genius Framing lossless digital autozoom — automatically detects people and frames them perfectly in the shot<sup>1</sup>*
- *Full HD 1080p video resolution, precision optics, and advanced video processing — delivers a crystal clear video image*
- *3x digital zoom, pan, and tilt — allows manual shot control*
- *People counting — enables room usage analytics via Crestron XiO Cloud™ service when used with the UC-ENGINE or UC-ENGINE-SD*
- *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 & Camera (UC-SB1-CAM) eliminates the need to install additional microphones, speakers, or cameras. 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. A perfect view of the room is achieved through the built-in conferencing camera featuring HD 1080p video resolution, ultra-wide 150° diagonal field of view, and Genius Framing digital autozoom.<sup>1</sup> Its compact design reduces clutter on the conference table, and even accommodates rooms with no table at all.

**NOTE:** See also model [UC-SB1](#) for a similar solution with no built-in camera. The UC-SB1 allows for the use of any USB camera mounted separately from the smart soundbar.

### USB Speakerphone & Camera

The UC-SB1-CAM comprises a high-performance AEC-enabled speakerphone and camera. It is also available and designed for integration with any computer running UC conferencing or web collaboration software, as well as for general presentation of computer-based AV content. A single USB 3.0 connection provides a plug-and-play interface to a computer.

The UC-SB1-CAM behaves like any USB Audio or USB Video class device, enabling use as a speaker, microphone, and camera 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.

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### Intelligent HD Camera

The integrated Huddly IQ™ camera features an ultra wide-angle 150° diagonal field of view to capture an entire conference room in Full HD 1080p video resolution. High precision aspherical optics, 12 MP CMOS sensor, and advanced video processing ensure an immersive, crystal clear video image free from light or noise artifacts or optical aberrations.

Genius Framing digital autozoom intelligently detects the people in the room and frames them perfectly for an optimal view. With Genius Framing, there's no need to control the camera manually or rely on stored presets. When conferencing, the camera image adjusts automatically to frame everyone in the shot.<sup>1</sup>

### Enhanced Functionality

The UC-SB1-CAM 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 an online meeting is started, 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)<sup>2</sup>

**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

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## UC Video Conference Smart Soundbar & Camera

### Camera

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**Model:** Huddly IQ (mounted internally)

**Image Sensor:** 12 megapixel Sony® IMX477 Type 1/2.3 CMOS sensor

**Lens:** High precision, ultra wide angle, six element aspherical glass lens

**Field of View:** 150° diagonal, 120° horizontal, 90° vertical

**Aperture:** f/2.8

**Processor:** Intel® Movidius® Myriad® X VPU with Neural Compute Engine hardware accelerator

**Pan/Tilt/Zoom:** 3x lossless digital zoom, pan, and tilt

**Autozoom:** Genius Framing automatic lossless digital zoom intelligently frames people in the room<sup>1</sup>

**Dynamic Light Optimization:** Auto-adjusts light levels and white balance

**Noise Reduction:** 3D noise reduction, bias compensating spatio-temporal filtering, wide area chroma filtering, flicker elimination

**Scaling:** Real-time scaling, dewarping, and perspective correction

**People Counting:** Detects and reports the number of people in frame

### Video

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**USB Video Out:** USB 3.0, UVC 1.1 & HID, conferencing camera; plug & play compatible with a computer or other USB Video Class host

**Output Resolution:** HD 1080p @ 30 fps

**Color Space:** YCbCr 4:2:0, YCbCr 4:2:2, MJPEG

### Indicators

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**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

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**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;

Connects to the internal camera output via a 6 in. (13 cm) USB Type-C™ to USB 3.0 Type A cable

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

### Power

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**Main Power:** 500 mA maximum @ 100-240 VAC, 50/60 Hz

**Power Consumption:** 22 W

### Environmental

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**Temperature:** 41° to 104° F (5° to 40° C)

**Humidity:** 10% to 90% RH (non-condensing)

**Heat Dissipation:** 75 BTU/hr

### Construction

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**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

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**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

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Approximately 15 lb (6.8 kg)

### Compliance

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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

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**UC-SB1-CAM**

UC Video Conference Smart Soundbar & Camera

### Available Accessories

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**CBL-AUDIO Series**

Mini-TRS Stereo Audio Interface Cables

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### Notes:

1. Genius Framing is controlled by Huddly™ software.
2. 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](http://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](http://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](mailto:clcdesign@crestron.com) or by calling 888-330-1502.

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