UC-SB1-HUDDLE

UC Video Conference Smart Sound Bar with Camera

- *A complete conferencing speakerphone and camera 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*
- *Built-in Huddly™ GO camera — a premium camera fully integrated into the sound bar*
- *Ultra wide-angle 150° diagonal field of view — captures the entire room*
- *Full HD 720p video resolution, precision optics, and advanced video processing — delivers a crystal clear video image*
- *3x lossless digital zoom, pan, and tilt — allows manual shot control and presets via software [1]*
- *USB 2.0 or 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 Volt AC line powered*

An all in one incredible front-of-room device, the Crestron® UC Smart Soundbar with Camera (UC-SB1-HUDDLE) facilitates effortless conferencing without any other microphones, speakers, or camera 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 huddle 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, high-end huddle camera featuring HD 720p video resolution, and an ultra-wide 150° diagonal field of view. Its compact, all-in-one design reduces clutter on the conference table, and even accommodates rooms with no table at all.

See also model UC-SB1 for a similar solution with no built-in camera or the UC-SB1-CAM for a similar solution with a smart camera. The UC-SB1 allows for the use of any USB camera mounted separately from the smart sound bar. The UC-SB1-CAM is suited for larger conference rooms.

USB Speakerphone & Camera

The UC-SB1-HUDDLE comprises a high-performance AEC-enabled speakerphone and camera that works with any UC solution. It is available 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 connection provides a plug-and-play interface to the computer.

Note: For Zoom Rooms™ conferencing applications, the UC-SB1-HUDDLE 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-HUDDLE 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 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.

Rev 03/01/19

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HD Camera

The integrated Huddly™ GO camera features an ultra wide-angle 150° diagonal field of view to capture an entire huddle space in HD 720p video resolution. High precision aspherical optics, 16 MP CMOS sensor, and advanced video processing ensure an immersive, crystal clear video image free from light or noise artifacts or optical aberrations.

Enhanced Functionality

The UC-SB1-HUDDLE 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.

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.

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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: ±90° 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

Camera

Model: Huddly GO (mounted internally)

Image Sensor: 16 Megapixel 1/2.3" CMOS Sensor

Lens: High-grade 6 element ultra-wide angle lens

Field of View: 150° diagonal;
120° horizontal;
90° vertical

Aperture: f/2.8

Pan/Tilt/Zoom: 3x lossless digital zoom, pan, and tilt[1]

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

Video

Output Signal Type: USB UVC 1.1

Output Resolution: HD 720p @ 30 fps

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

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;
Connects to the internal camera output via a 6 inch (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

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Power

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

Power Consumption: 22 Watts

Environmental

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

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

Heat Dissipation: 75 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-HUDDLE:
UC Video Conference Smart Sound Bar with Huddle Camera

UC-SB1-CAM:
UC Video Conference Smart Sound Bar with Intelligent Conference Camera

UC-SB1:
UC Video Conference Smart Sound Bar

Available Accessories

CBL-AUDIO 6

Crestron® Certified Mini-TRS Stereo Audio Interface Cable, 6 ft

Notes:

1. Requires Huddly™ software or other software that supports this feature.

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 https://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 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 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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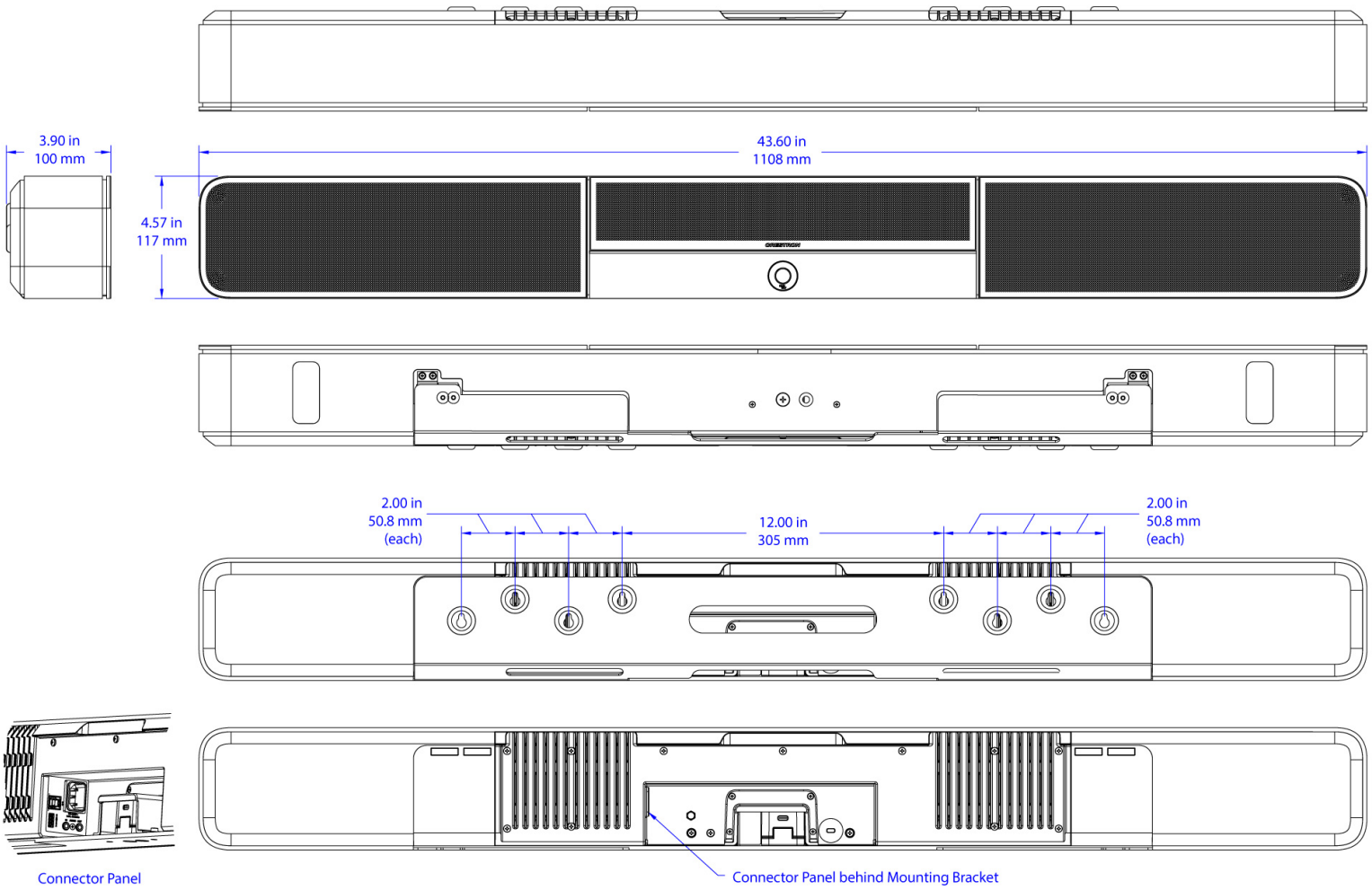

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