Crestron Flex Wall Mount UC Video Conference System for Zoom Rooms™ Software

UC-B140-Z

Crestron® Smart Soundbar & Camera
The UC-SB1-CAM-FLEX soundbar eliminates the need to install additional cameras, microphones or speakers. Its high-powered stereo speakers, adaptive beamforming microphone, and advanced digital signal processing deliver exceptional full-duplex, echo-free speakerphone performance. Wideband audio codec support allows for full-spectrum, bidirectional voice communication. Its compact design reduces clutter on the conference table, and even accommodates rooms with no table at all.

The soundbar’s 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. 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.

For more information, refer to the UC-SB1-CAM-FLEX product page.

10.1 in. Touch Screen
The Crestron TSW-1060 series touch screen makes an elegant statement on any tabletop. PoE (Power over Ethernet) connectivity and a range of mounting options make installation simple for both new and retrofit applications.

The included TSW-1060-TTK provides a convenient tabletop enclosure for a TSW-1060 Touch Screen. The touch screen is angled when installed in the enclosure. The complete assembly may be placed on any flat, level surface. Wiring may be passed out the rear of the enclosure through a grommet and strain relief, or routed through the bottom for a very clean, cordless appearance. The touch screen also offers optional control of room lighting, shades, thermostats, and other equipment.

For more information, refer to the TSW-1060-B-S and TSW-1060-TTK-B-S product pages.

UC Engine Assembly
All the capabilities of a complete Zoom Rooms video conferencing and content sharing solution are empowered by the UC Engine. For ultimate performance, Crestron employs a powerful Intel® NUC Mini PC running Zoom Rooms software. The UC Engine Assembly (UC-BRKT-100-SD-Z-ASSY) streamlines the installation of a Crestron UC system by assembling the UC-ENGINE-SD-Z, HD-CONV-USB-200, and UC-CONN-HD together on one convenient and ready-to-mount bracket.

The complete assembly can be mounted on the wall, or it can be attached to the rear of the display device. Attachment to the display is accomplished using two of the four bolts that also affix the display to a VESA® compliant display mount. The assembly bracket includes mounting holes on its left and right side edges, spaced at 100, 200, and 300 mm (3.94, 7.87, and 11.81 in.) vertically, to allow for attachment to either side of the display mounting plate on the rear of the display device.

The Crestron Flex UC-B140-Z system provides a video conference room solution for use with the Zoom Rooms intelligent communications platform. It supports a single video display, and features the Crestron UC Video Conference Smart Soundbar & Camera (UC-SB1-CAM-FLEX), 10.1 in. touch screen, and UC Engine Assembly with UC-ENGINE-SD-Z.

Native Zoom Rooms™ Software Experience
The UC-B140-Z system features Zoom Rooms conferencing software that enables audio and video connectivity for easy collaboration and content sharing.

- Front-of-room video conferencing solution for Zoom Rooms™ software
- Present, call, conference, and collaborate — all through a single smart soundbar and 10.1 in. tabletop touch screen
- Native Zoom Rooms touch screen UI provides a consistent user experience with simple operation and one-touch meeting joins
- Easy to specify and install — no custom design, programming, or software installation required
- Network management and provisioning and system alerts through the Crestron XiO Cloud service
- Connects and communicates securely over any enterprise or SMB network
- Enterprise-grade security
- Supports single display configuration
- High-powered 2-way stereo speaker smart soundbar with 180° far-field adaptive beamforming microphone array, advanced AEC & DSP technology, integrated high-definition USB camera with lossless digital autozoom and HDMI® input for laptop and other AV content sources
- Includes 10.1 in. (257 mm) tabletop color touch screen with onscreen calendaring and meeting management and optional control of room lighting, shades, thermostats, and other equipment
- Kit contains the Crestron® smart soundbar & camera, touch screen, UC Engine assembly, and power supplies
Network Management and Security
Crestron Flex is an enterprise grade solution, engineered to integrate seamlessly into any Zoom Rooms software deployment. Crestron Flex is ideally equipped for mass deployment throughout any sized corporate, university, medical, military, or government facility.

IoT cloud based provisioning enables complete network configuration in advance of hardware delivery, with touchless updates following installation via Windows® Update. Crestron Fusion® or Crestron XiO Cloud management enables monitoring and logging of room and equipment usage, as well as centralized help desk support. Advanced security features ensure privacy, reliability, and compliance with your organization’s IT policies.

Crestron XiO Cloud™ Provisioning and Management Service
The UC-B140-Z is compatible with the Crestron XiO Cloud™ service, which is an IoT (Internet of Things) based platform for remotely provisioning, monitoring, and managing Crestron devices across an enterprise or an entire client base. The service enables installers and IT managers to deploy and manage thousands of devices in the amount of time it previously took to manage just one. As part of the UC-B140-Z system, the Crestron XiO Cloud service allows for network management and provisioning and system alerts. System updates are controlled by Windows Update. For more information, visit www.crestron.com/xiocloud.

Specifications
Included Components
UC-SB1-CAM-FLEX
UC video conference smart soundbar
TSW-1060-B-S
10.1 in. touch screen, black
TSW-1060-TTK-B-S
Tabletop kit for touch screen, black
UC-BRKT-100-SD-Z-ASSY
UC Engine Assembly, comprised of:
UC-ENGINE-SD-Z: UC Engine for Zoom Rooms video;
HD-CONV-USB-200: HDMI to USB 3.0 converter for content ingest;
UC-CONN-HD: EDID emulator for UC Engine display output;
CBL-MDP-HD-0.5: Mini DisplayPort™ to HDMI converter;
Mounting Bracket
CBL-CAT5E-7
(2) Ethernet LAN cables for UC Engine, RJ45-to-RJ45, black, 7 ft (2.1 m)
PWE-4803RU
PoE injector for touch screen
CBL-USBC-HD-9
USB-C® to HDMI converter cable, USB Type-C male to HDMI Type A male, 9 ft (2.7 m)

Smart Soundbar & Camera
Speakers
Stereo 2-way, 20 W per channel, 3 in. (76 mm) woofers, 3 x 4-3/8 in. (76 x 112 mm) passive radiators, 1 in. (25 mm) dome tweeters, 80 Hz to 20 kHz (±3 dB) frequency response, 91 dB SPL @ 1 m output level (both channels driven at full power)

Microphone
Linear quad-element far-field adaptive beamforming microphone array, 15 ft (4.6 m) pickup range, 180° horizontal pickup angle, 20 Hz to 8 kHz frequency response

Audio DSP
Acoustic echo cancellation, dereverberation, automatic gain control, dynamic noise suppression, adaptive beamforming, speaker volume control; full-duplex IEEE 1329 Type 1 compliant

Camera Optics
12 Megapixel Sony® IMX477 Type 1/2.3 CMOS sensor, ultra wide
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**Camera Field of View**
150° diagonal, 120° horizontal, 90° vertical

**Camera Processing**
Intel Movidius® Myriad® X VPU with Neural Compute Engine hardware accelerator, dynamic light optimization, auto white balance, autozoom

**Camera Autozoom**
Genius Framing automatic lossless digital zoom intelligently frames people in the room

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

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

**Camera Resolution**
HD 1080p @ 30 fps

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

**USB**
USB 3.0 Type-B port; UAC 1.0, UVC 1.1, & HID; 2-channel stereo far-end/content signal input, 2-channel mono microphone signal output, camera output; for audio, video, and communications interface to UC Engine

**Analog Audio Input**
2-Channel stereo via 3.5 mm TRS mini-phone jack, fixed level (bypasses DSP), 1 Vrms maximum per channel for full rated output, for in-room amplification of an external audio source

**Analog Audio Output**
2-Channel stereo via 3.5 mm TRS mini-phone jack, fixed level, 1 Vrms maximum, feeds amplified audio content to an assistive listening system

**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

**Enclosure**
Lightly textured gunmetal black finish, plastic housing, perforated stainless steel grilles, die-cast aluminum rear cover, steel hinged mounting bracket

**Mounting**
Freestanding or surface wall mount at ear/face level

**Dimensions**
Height: 4.57 in. (117 mm)
Width: 43.60 in. (1108 mm)
Depth: 3.90 in. (100 mm)

**Weight**
Approximately 15 lb (6.8 kg)

Refer to the UC-SB1-CAM-FLEX spec sheet for additional specifications and compliances.

**Tabletop Touch Screen**
10.1 in. (257 mm) diagonal capacitive multi-touch TFT active matrix color LCD, 1280 x 800 pixels, displays Zoom Rooms UI plus optional Crestron Smart Graphics® room control UI

**Ethernet**
10/100 Mbps; enterprise grade security and management including IEEE 802.1X, Active Directory® authentication, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), digest access authentication, password login, HTTPS secure provisioning, Crestron XIO Cloud client, IEEE 802.3at compliant

**Power over Ethernet**
EEE 802.3at compliant PoE or PoE+ PD (Powered Device);
- Requests 15 W from an 802.3at Type 2 PSE with LLDP advanced power management;
- Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP;
- Requests 15.4 W (PoE+ Class 0) from an 802.3af (or 802.3at Type 1) PSE

**PoE Injector**
A PoE injector is included to power the touch screen if network PoE is not available

**Construction**
Plastic tabletop housing, smooth black finish, edge-to-edge glass with black surround

**Dimensions**
Height: 5.42 in. (138 mm)
Width: 10.23 in. (260 mm)
Depth: 5.69 in. (145 mm)

**Weight**
41.2 oz (1166 g)

Refer to the TSW-1060-B-S, TSW-1060-TTK-B-S, and PWE-4803RU specifications for additional information.
UC-B140-Z

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UC Engine Assembly

<table>
<thead>
<tr>
<th>UC Engine Assembly</th>
<th>Available Accessories</th>
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</thead>
<tbody>
<tr>
<td>Mini PC</td>
<td>UC-B-ACCY KIT</td>
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<tr>
<td>Processor Intel NUC Kit NUC8I5BEK</td>
<td>Accessory kit for UC-B140-T and UC-B140-Z</td>
</tr>
<tr>
<td>Intel Core® i5-8259U processor (2.3 GHz with 3.8GHz Turbo, Quad Core, Hyper-thread, 6 MB Cache, 28W TDP)</td>
<td>TSW-560/760/1060-SMK</td>
</tr>
<tr>
<td>UC Client</td>
<td>Swivel Mount Kit for TSW-x60-TTK Series</td>
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<tr>
<td>Management Client Zoom Rooms Software</td>
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<tr>
<td>USB</td>
<td>Notes:</td>
</tr>
<tr>
<td>USB 3.0 host supporting USB HID, UAC, and UVC for audio conference soundbar, camera, content ingest, and keyboard/mouse devices</td>
<td>1. Room control capability (lighting, shades, thermostats, etc.) requires additional equipment and commissioning to be provided by a Crestron authorized integrator and/or programmer. Additional costs may apply.</td>
</tr>
<tr>
<td>Content Ingest HDMI input via HDMI to USB 3.0 converter (model HD-CO NV-USB-200)</td>
<td>2. New UC-B140-Z systems may be added to existing Crestron XiO Cloud subscription accounts at a discounted rate. An additional purchase toward the existing subscription account term may be required. For more information, please contact <a href="mailto:license@crestron.com">license@crestron.com</a>.</td>
</tr>
<tr>
<td>Display Output DisplayPort 1.2 via USB Type-C® port, converted to HDMI via converter cable</td>
<td>3. 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.</td>
</tr>
<tr>
<td>Camera Input Resolution HD 1080p @ 30 fps</td>
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<tr>
<td>Content Input Resolution HD 1080p @ 60 fps</td>
<td></td>
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<tr>
<td>Display Output Resolution HD 1080p @ 60 fps</td>
<td></td>
</tr>
<tr>
<td>Power 19 VDC via external 100-240 VAC, 50/60 Hz adapter (included)</td>
<td></td>
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<tr>
<td>Construction Metal mounting bracket, black, preassembled with UC Engine and USB to HDMI converter</td>
<td></td>
</tr>
<tr>
<td>Mounting Surface wall mount behind the display device, or attach to the rear of the display device via the bolts attaching the display to a VESA® compliant display mount; the Crestron bracket includes mounting holes on both side edges, spaced 100, 200, and 300 mm vertically, to allow for attachment to either side of the display mounting plate</td>
<td></td>
</tr>
<tr>
<td>Dimensions Height: 16.00 in. (407 mm)</td>
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<tr>
<td>Width: 14.00 in. (356 mm)</td>
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<tr>
<td>Depth: 1.68 in. (43 mm)</td>
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<tr>
<td>Refer to the UC-ENGINE-SD-Z, HD-CO NV-USB-200, and UC-BRKT-100-SD-Z-ASSY spec sheets for additional specifications and compliances.</td>
<td></td>
</tr>
</tbody>
</table>

Model

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UC-BRKT-100-SD-Z-ASSY