CCS-UC-1-X

Crestron MERCURY®

Crestron Mercury® X Tabletop Console

- *Present, call, conference, and collaborate — all through one tabletop device*
- *Simple, intuitive, 7 in. (178 mm) HD color touch screen UX provides a consistent user experience in every room*
- *Single cable connection provides HD video content along with CEC, IP, IR, or RS-232 display control using the HDBaseT® protocol.*
- *Connects and communicates securely over enterprise or SMB networks*
- *Enterprise-grade security features LDAP corporate directory access, and Active Directory® authentication*
- *Easy to provision and manage through the Crestron XiO Cloud™ service or web browser configuration*
- *Configurable for use with Microsoft® Teams® and Zoom™ conferencing applications as well as other open-platform audio and video conferencing applications*
- *Full open SIP conferencing speakerphone featuring Bluetooth® connectivity for use with mobile phones*
- *USB connectivity for computers running web conferencing or other software*
- *Native Skype® for Business VoIP support*
- *AirMedia® 2.0 wireless BYOD presentation and content sharing*
- *HDMI® input for laptop and other AV content sources*
- *Full-duplex audio performance with an integrated 360° quad microphone array, 2-way wideband voice quality, and Limes Audio TrueVoice® AEC technology*
- *Available add-on mic pods for extra coverage*
- *Optional control of room lighting, shades, thermostats, and other equipment*
- *Onscreen calendaring and meeting management can integrate with Microsoft Exchange or Crestron Fusion® software*
- *Built-in PinPoint™ beacon for use with the Crestron PinPoint App*
- *Built-in PIR occupancy detector wakes the device and reports to Crestron Fusion software*
- *Optional 180° swivel mount kit available*

Crestron Mercury® X Tabletop Console

The Crestron Mercury X tabletop console is engineered to provide a superior conferencing and collaboration experience for enterprise and SMB applications. It supports the Microsoft Teams® and Zoom IC platforms as part of a complete Crestron Flex UC solution as well as Open UC audio or video conferencing applications. In a huddle space, meeting room, or executive office, Crestron Mercury X delivers a distinctively simple and consistent user experience.

Built on the IoT cloud based Crestron XiO Cloud™ platform, the CCS-UC-1-X empowers IT administrators and AV integrators to deploy, manage and monitor networked UC devices, all from a single dashboard.

In one tabletop device, the Crestron Mercury X tabletop console (CCS-UC-1-X) comprises a high-performance, full duplex conferencing speakerphone and touch screen controller with extensive connectivity for BYOD devices and networked solutions.[1]

Video Conferencing and Web Collaboration

Video conferencing is enabled by connecting a USB camera and a computer running a web conferencing or UC application such as Microsoft Teams®, Skype for Business, Cisco WebEx®, GotoMeeting®, Slack®, BlueJeans, or Zoom Rooms™ software to the CCS-UC-1-X. When used as part of a Crestron Flex UC system, the CCS-UC-1-X becomes the control point for operating a Zoom Rooms or Microsoft Teams conference room.

Built-in AirMedia 2.0 technology allows for wireless presentation of content from a laptop, smartphone, or tablet device via the room's Wi-Fi® wireless network. For more information about AirMedia technology, please visit https://www.crestron.com/airmedia.[2]

An AV source can be plugged in via HDMI® to present full-motion HD video content on the room display. Sources with DisplayPort™ or USB Type-C® outputs can also be connected using the optional CBL-MULTI-6 or CBL-MULTI-12 cable system (sold separately).

The CCS-UC-1-X also works with the Crestron Airboard™ Whiteboard Capture System (CCS-WB-1), allowing for in-room and remote collaboration. Simply pair the CCS-WB-1 with the CCS-UC-1-X, and all of the CCS-WB-1 controls are available on the touch screen. Users can manage remote participants, start and stop a whiteboard session, route the whiteboard content to the associated display, and email a snapshot or timeline of the whiteboard session. For more information, visit www.crestron.com/airboard.[3]

Voice Calling and Audio Conferencing

The CCS-UC-1-X is a full-featured conferencing speakerphone that is fully compatible with major SIP-compliant phone systems. Its advanced design provides highly intelligible, full-

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duplex communication for every participant. Dialing and answering calls is easy and intuitive using the large HD color touch screen. Corporate directory access (LDAP) enables one-touch dialing from the customer's centrally managed directory.

The CCS-UC-1-X can also pair with a mobile phone using Bluetooth connectivity to make calls or join a call in progress. Controls for the Bluetooth enabled phone appear automatically on the touch screen, enabling instant connectivity with the press of a button.

Connecting a laptop computer via USB improves audio performance for any softphone or audio conferencing application running on the laptop.

Native Skype for Business VoIP support enables one-touch join capability to join a scheduled Skype meeting (audio only), or you can simply place a Skype call using the directory or dial pad.

Microsoft Teams® Intelligent Communications

When used as part of a Crestron Flex system for Microsoft Teams, the CCS-UC- 1-X provides a native Microsoft Teams IC video conferencing experience, whether implementing a cloud based Microsoft Teams deployment, on-premises Skype for Business, or a hybrid of the two. The CCS-UC-1-X facilitates effortless audio or video conferencing and control, with simple operation and one touch meeting joins through a feature-rich touch screen UX familiar to users of Microsoft Teams and Office 365® software. Onboard calendaring and corporate directory access provide the tools needed to work smart and efficiently. For more information, visit https://crestron.com/Products/Featured-Solutions/Flex-for-Teams.

Zoom Rooms™ Video Conferencing and Collaboration

As part of a Crestron Flex system for Zoom Rooms, the CCS-UC-1-X can be used as a high-performance conferencing speakerphone and touch screen control panel for a Zoom Rooms software-based conferencing and collaboration solution. It replaces the individual speaker, microphone, and tablet components of a typical Zoom Rooms setup, delivering the user-friendly Zoom Rooms experience in one integrated tabletop device with enhanced audio performance, increased reliability, and easy setup. For information, please visit https://crestron.com/Products/Featured-Solutions/Flex-for-Zoom-Rooms.

Superb Sound Quality

The CCS-UC-1-X facilitates natural conversations with exceptional audio fidelity and pickup. The integrated 360° quad microphone array faithfully captures voices at every seat at the table while its high-powered, full-range speaker produces full, rich and real sounding audio for both voice and program material.[4] Limes Audio TrueVoice® AEC technology achieves transparent full-duplex performance free of distracting echo or noise. Wideband audio codec support allows for full-spectrum, bidirectional voice communication. Large or long tables are easily accommodated by adding up to two mic pods (CCS-UCA-MIC KIT sold separately), which may be daisy-chained or individually home run to the main console. Each mic pod also includes a remote mute button and indicator for full room participation.

Appspace® Digital Signage Integration

Appspace is a cloud based digital signage content provider and management platform. Integration with a CCS-UC-1-x allows for digital signage content to be shown on the front-of-the-room display when the console is not actively in use or displaying content. Appspace integration enables ambient signage whether the room is occupied or not, without requiring any additional hardware. For best practices on configuring signage content for this device, visit https://docs.appspace.com/appspace/7.0/deviceadministration/basic/configure-device-integrations/crestronmercury/.

HD Color Touch Screen

The high-definition, full color touch screen provides quick access and intuitive operation, and affords a consistent user experience from room to room. The touch screen is configurable and can be personalized using custom background images.

The CCS-UC-1-X includes the ability to integrate with a Crestron control system to enable touch screen control over room lighting, motorized window shades, climate control, AV, and other amenities.[5]

Room Scheduling Integration

The CCS-UC-1-X system integrates directly with Microsoft® Exchange or Crestron Fusion® software to allow seamless room scheduling and automation for any number of rooms. The built-in calendar application provides details about the current scheduled meeting, and allows meetings to be scheduled right from the touch screen. Notifications that show the time left and what's scheduled next are shown on the front-of-room display.

As part of a Crestron Fusion room scheduling solution, the Crestron PinPoint™ App can be used to locate and reserve any available room in the facility. As you enter a room equipped with a Crestron Mercury console, the built-in PinPoint beacon[6] detects your presence and provides personalized feedback and connection options on your mobile device, letting you instantly start a presentation. The CCS-UC-1-X also works with Crestron room scheduling touch screens installed outside each room, all integrated through the Crestron Fusion or Microsoft Exchange software.

Occupancy Sensing

The CCS-UC-1-X detects room occupancy using a combination of motion and voice activity. A built-in passive infrared detector initially senses when someone is present, and then voice activity is used to maintain the room's occupied status.

Occupancy detection provides several benefits, such as monitoring and reporting room usage to the Crestron Fusion software, or automating the system to power down to save

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energy when all parties leave the room. System power can also be managed according to a daily schedule.

Network Management and Security

The CCS-UC-1-X is an enterprise-grade appliance, equipped for mass deployment throughout corporate, university, medical, military, or governmental facilities.

IoT cloud based provisioning enables complete network configuration in advance of hardware delivery, with touchless updates following installation. The CCS-UC-1-X can also be configured individually using a computer web browser, or in batches using the Crestron Deployment Tool for the Powershell® framework.

Crestron Fusion 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 the organization's IT policies.

Crestron XiO Cloud™ Service

The CCS-UC-1-X 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 a single device. For more information, visit www.crestron.com/xiocloud.

Specifications

Communications

Ethernet	10/100 Mbps, auto-switching, autonegotiating, autodiscovery, full/half duplex, DHCP, TCP/IP, UDP/IP, CIP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), SRTP, IEEE 802.1X, Active Directory authentication, digest access authentication, password login, Crestron XiO Cloud client, Microsoft Intune® client
SIP VoIP	Open SIP, SDP, IETF SIP (RFC 3261 and companion RFCs), DTMF tone generation (RFC 2833 and in-band), low-delay audio packet transmission, adaptive jitter buffers, packet loss concealment
Skype for Business VoIP	Skype for Business client (audio only), compatible with Office 365 cloud service or on-premises Skype for Business Server 2015 (or above); supports Enterprise Voice, Phone System, Office 365 modern authentication (limited), directory lookup, PSTN calling
Microsoft Teams VC	Integrates with the Crestron UC-ENGINE via Ethernet to enable touch screen control of the system. Refer to the UC-MX150-T spec sheet for further details.
Zoom	Supports Zoom Rooms mode for control of a PC running Zoom Rooms conferencing software (overrides the features and functions of Open UC mode)
Bluetooth	Bluetooth 4.0 device pairing for wideband speech (HFP) and multimedia audio streaming (A2DP), Crestron PinPoint proximity detection beacon[6]
USB Device	USB 2.0 device supporting UAC, UVC, and HID for plug-and-play compatible audio/speakerphone interface and camera video output to a USB host computer running web conferencing or other software; AEC enabled USB speakerphone and camera compliant with Microsoft Teams and Skype for Business software specifications
USB Host	USB 2.0 host supporting UVC for camera video input
RS-232	2-way display device control and monitoring up to 115.2k baud with software handshaking
IR/Serial	1-way display device control via infrared up to 1.1 MHz or serial TTL/RS-232 (0-5 Volts) up to 19.2k baud
HDMI	HDCP 1.4, EDID, CEC
HDBaseT	HDCP 2.2, EDID, Ethernet, IR/RS-232

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AirMedia	(Via Ethernet) IPv4, mDNS, TLS, AES
Extension Microphones	A2B bus protocol, single master, multiple slave; synchronous data, multichannel I2S/TDM to I2S/TDM; exclusively for use with Crestron mic pods, model CCS-UCA-MIC KIT (sold separately)

Audio

Codec Support	G.711, G.722, G.729, Siren 7, SILK
AEC	Limes Audio TrueVoice acoustic echo cancellation, automatic mic mixing, automatic gain control, and dynamic noise reduction; Full duplex IEEE 1329 Type 1 compliant
Microphones	360° quad mic array with (4) cardioid electret elements; Pickup Range: 20 ft (6 m) typical
Speaker	Full range speaker; Amplifier Power: 11 W maximum; Output Volume: 95 dB SPL at 0.5 m; Frequency Response: 90 Hz to 22 kHz

Video

Content Input Signal Types	HDMI (DVI and Dual-Mode DisplayPort connectivity compatible[7]), AirMedia[1]
Camera Input/Output Signal Type	USB
Display Output Signal Type	HDBaseT
Content Input Signal Resolutions	Up to 1920x1080@60Hz (1080p60) Display Output Resolutions: 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60)

AirMedia

OS Support	Apple® iOS®, Android™, Windows® 7, Windows 8, Windows 10, macOS®, Chrome OS™
Video Frame Rate	Up to 30 fps, audio supported
Client Software Video Frame Rate	30 fps, audio supported **NOTE:** Audio is not supported on Android devices.
Full Screen Device Mirroring	Shares the screen image and audio from an Apple iOS, Android, macOS, or Windows device
Output Resolutions	1024x768@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x800@60Hz, 1366x768@60Hz, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60) **NOTE:** All video inputs will be scaled to the selected HDMI output resolution.
Bitrate Peak	0.25 to 8.5 Mbps, variable depending on content complexity
Bitrate Average	1.4 Mbps typical **NOTES:** • The bitrate for Apple native mirroring may deviate from above depending on the OS version and content • The AirMedia Extension for the Google® Chrome™ browser relies on web technologies for screen sharing that are built-in to the web browser. Performance variations with motion video (quality and frame rate) may occur based upon the encoding capabilities of the Chrome OS device and the nature of the content being displayed (i.e., high-motion video).
Audio Format	Stereo

Occupancy Sensor

PIR Detection Range	6 ft (1.83 m) in front of touch screen, wakes touch screen and display device, and reports room occupancy to Crestron Fusion software
Voice Activity Detection	Keeps room occupancy and touch screen active as long as speech is detected through the microphones

Touch Screen

Display Type	TFT active matrix color LCD
Size	7 in. (178 mm) diagonal
Aspect Ratio	16:10 WXGA
Resolution	1280 x 800 pixel
Touch Screen	Capacitive, multi-touch capable
Character Support	Unicode UTF-8
Language Support	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Danish, Dutch (NL), English (UK), English (US), Finnish, French (FR), German (DE), Greek, Hebrew, Hungarian, Italian (IT), Japanese (JP), Korean,

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Norwegian (NO), Polish, Portuguese, Portuguese (Brazilian), Romanian, Russian (RU), Slovak, Spanish (ES), Swedish, Thai

Buttons & Indicators

Mic Mute Symbol & Light Bar	(2) Capacitive buttons with bi-color LEDs, either button toggles between mute and unmute, the symbol LED blinks green when the unit is powering up, all LEDs illuminate red when the mic is muted, all LEDs illuminate green when the mic is unmuted during an active call or online meeting.

Connectors

G	(1) 6-32 screw;
	Chassis ground lug
LAN	(1) 8-pin RJ45 connector, female;
	10Base-T/100Base-TX Ethernet port;
	12 ft (3.66 m) Ethernet cable included
HDBT	(1) 8-pin RJ45 connector, female, shielded; HDBaseT for connection to the HDBT IN port on a receiver
USB B	(1) Micro-USB Type B connector, female;
	USB 2.0 device port;
	6 ft (1.83 m) USB micro-B male to A male cable included
HDMI IN	(1) HDMI Type A connector, female;
	Digital video/audio input for presenting content from a source;
	DisplayPort and USB Type-C compatible using CBL-MULTI-6 or CBL-MULTI-12 cable system (sold separately)
MIC POD 1-2	(2) RJ9 4P4C connector, female;
	For connection of up to two CCS-UCA-MIC microphone pods (sold separately)
USB/ACC	(1) USB Type A connector, female;
	USB 2.0 host port
24V DC 2.5A	(1) 2.1 x 5.5 mm DC power connector;
	24 VDC power input for universal power pack

Power

Power Pack	Input: 100-240 VAC, 50/60 Hz;
	Output: 2.5 A @ 24 VDC;
	Model: PW-2420RU
Power Consumption	22 W (typical)

Environmental

Operational Temperature	32° to 95° F (0° to 35° C)
Storage Temperature	-4° to 160° F (-20° to 70° C)
Humidity	5% to 95% RH (non-condensing)
Heat Dissipation	75 BTU/hr (typical)

Dimensions

Height	4.11 in. (105 mm)
Width	8.92 in. (227 mm)
Depth	12.74 in. (324 mm)

Weight

5.5 lb (2.5 kg)

Compliance

CE, IC, UL 60950-1, FCC Part 15 Class B, Japan MIC/VCCI Class A, ICES-003 Issue 5 Class A, EN55022:2010 Class A, AS/NZS CISPR22:2010 Class A, VCCI Class A, EN55024:2010, EN61000-3-2:2014, EN61000-3-3:2013, EN60950-1:2006, EN60950-A2:2013, EN60950-A11:2009, EN60950-A1:2010, EN60950-A12:2011, FCC 15.247, RSS 210 Issue 8, RSS Gen Issue 4, ETSI EN 301 489-1, ETSI EN 301 489-17, AS/NZS 4268:2012, NZ Telepermit, Australia A&C Tick, RoHS compliant

Model

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Included Accessories

CBL-USB-A-BMICRO-6
USB Cable, USB Type A Male to Micro-B Male, 6 ft (1.83 m)

PW-2420-RU
Desktop Power Pack, 24 VDC, 2.5 A, 2.1 mm, Universal

Available Accessories

AM-USB-WIFI
AirMedia® USB Adapter with Wi-Fi® Connectivity

CBL-MULTI-6
Crestron Mercury® HD Video Cable System, with 6 ft Cables

CBL-MULTI-12
Crestron Mercury HD Video Cable System, with 12 ft Cables

CCS-UCA-SMK
Swivel Mount Kit

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CCS-UCA-MIC KIT
Microphone Pods, Set of 2

CCS-WB-1
Crestron AirBoard™ Whiteboard Capture System

SW-XIOC-S Series
Crestron XiO Cloud™ Standard Provisioning and Management Service for one device; 1, 2, or 3 year subscription

SW-FUSION-C-3
Crestron Fusion® Cloud; 250 rooms; 3-year service, support, and updates

SW-FUSION-P-L
Crestron Fusion® On-premises; Unlimited rooms; lifetime service, support, and updates

SW-HS-x-C
Crestron Fusion® Cloud Room Scheduling; 1-year, 3-year, or lifetime service, support, and updates for one touch screen

SW-HS-x-P
Crestron Fusion® On-premises Room Scheduling; 1-year, 3-year, or lifetime service, support, and updates for one touch screen

Notes:

1. Some features are not available in certain operating modes.
2. AirMedia wireless presentation requires a wired network connection between the CCS-UC-1-X and an external Wi-Fi wireless access point (not included). Laptops may alternately connect to AirMedia using a wired Ethernet connection. Full-motion video performance is dependent upon the performance of the network and the sending device. Computer client software and mobile device apps are available for download at https://www.crestron.com/airmedia.
3. Crestron Airboard integration with Crestron Mercury devices is entirely configuration-based.
4. The HDMI audio input signal is routed to the display device speakers. It does not play through the console speaker. The HDMI input is intended for use with laptops and other AV sources that include onboard audio volume adjustment. The console's volume control setting does not affect signals heard through the display speakers.
5. Room control capability (lighting, shades, thermostats, etc.) is only enabled as part of a complete UC-M150 Flex system, and requires additional equipment and commissioning to be provided by a Crestron authorized integrator and/or programmer. Additional costs apply.
6. The built-in PinPoint beacon is not enabled at this time. This feature will be enabled in a future update.
7. HDMI connections require an appropriate adapter or interface cable to accommodate a DVI or Dual-Mode DisplayPort signal. CBL-HD-DVI interface cables are available separately. DisplayPort and USB Type-C input capability can be enabled using the CBL-MULTI-6 or CBL-MULTI-12 cable system (sold separately).

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, 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.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

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

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

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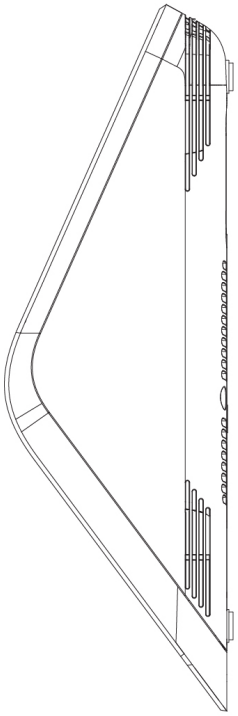

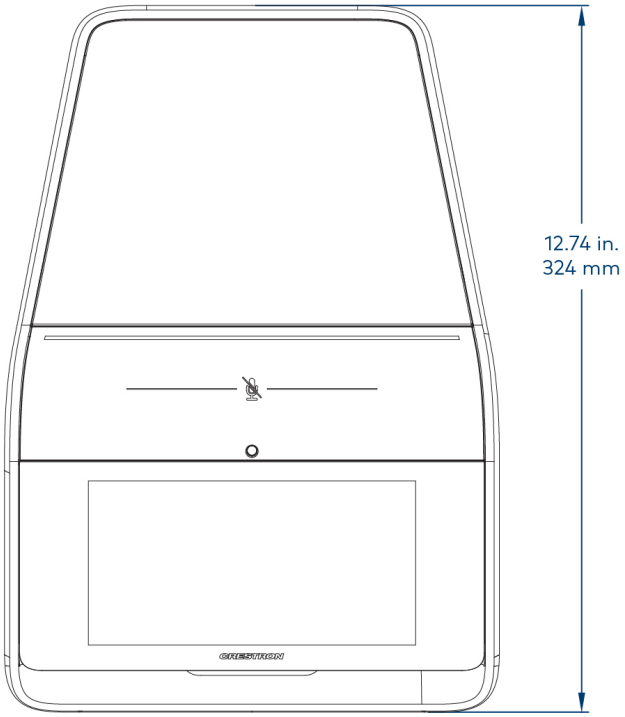

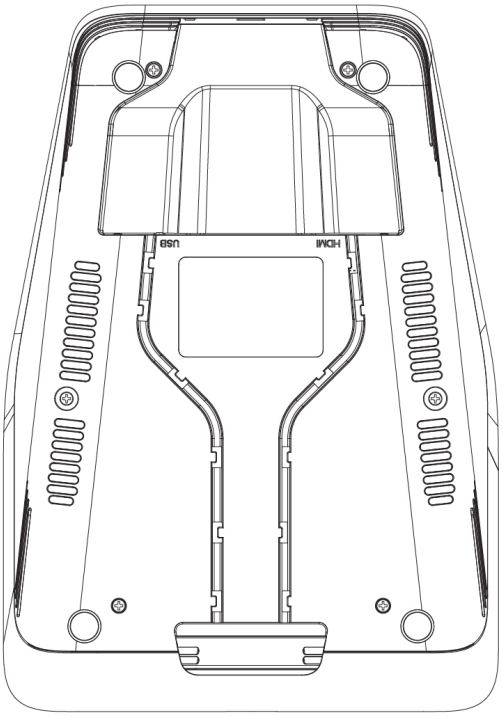

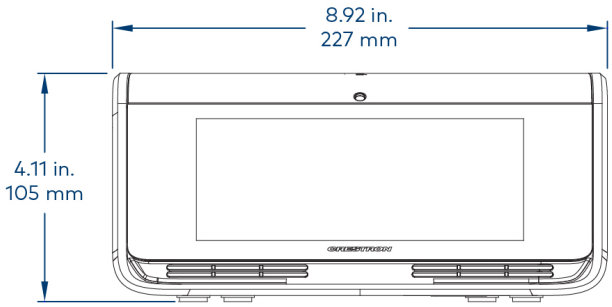

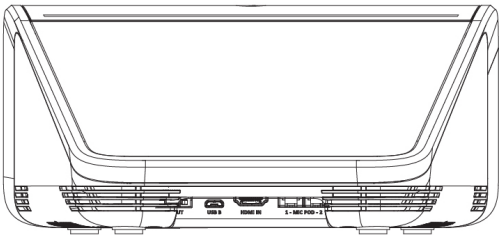

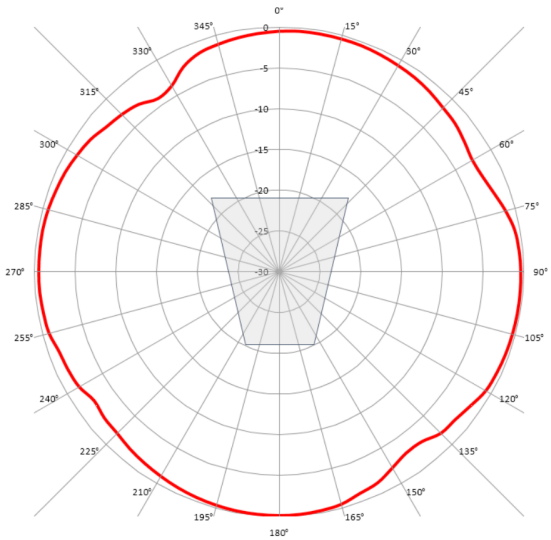

Microphone Array
Voice Bandwidth
Pickup Polar Pattern

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