

DEVIO CR-1 CONFERENCE ROOM DEVICE



The Devio CR-1 is the hub that creates a desktop-like experience away from the desk, allowing you to connect to the AV technology in a meeting room simply by connecting your laptop to a USB 3.0 cable. Connecting to the CR-1 gets your laptop connected to the Devio beamforming microphone, the loudspeaker installed in the room, and one or two displays for sharing content locally, and offers multiple USB ports for attaching computer peripherals like a web camera for video conferencing. Acoustic Echo Cancellation and automatic gain control technology ensures everyone participating in the meeting can hear and be heard. With the laptop handling the connection to conferencing systems, Devio works easily with a host of conferencing solutions including Microsoft Skype for Business (Microsoft Lync*) and Microsoft Skype*, Citrix GoToMeeting*, Cisco WebEx*, and Google Hangouts™.

FEATURES

- USB 3.0 input for single-cable audio/video connectivity
- Integrated DisplayLink USB graphics technology enables connecting to two displays over USB (requires installation of DisplayLink driver on laptop)
- Pass-through HDMI connectivity for driverless connection to display
- Acoustic Echo Cancellation
- Automatic room setup
- Automatic gain control
- Speaker connectivity includes built-in 20W amplifier or RCA line-out
- · Devio System Administration Utility (SAU) and support for SNMP device management over corporate network
- Includes mounting bracket for under-the-table installation
- Ships with one tabletop or one ceiling beamforming microphone with 360-degree coverage and the ability to add an additional microphone of the same type
- Two-year Biamp Systems warranty



SPECIFICATIONS: CR-1

FRONT PANEL CONNECTORS Upstream USB 3.0 Port (Type B Male Connector):

graphics technology enables connection

2 Downstream USB 3.0 Ports (Type-A Female Connector): **HDMI Input Port:**

additional peripherals to the computer Enables driverless, pass-through video connection from computer to one in-room display via Devio CR-1

REAR PANEL CONNECTORS 24V DC Input:

Ethernet (RJ45):

2-pin Phoenix Connector: 4-pin Phoenix Connector:

Line Out (RCA):

MIC Out (RJ45):

2 HDMI Output Ports:

Downstream USB 2.0 Port:

LINE OUTPUT

Full Scale Level: Freq. Response (20 Hz-20 kHz @ FS):

Dynamic Range:

THD+N (20 Hz-10 kHz, 20 kHz BW) @ FS: Signal to Crosstalk Ratio

(20 Hz-20 kHz) @ FS: POWER AMPLIFIER

Continuous Output Power:

Rated Impedance: Freq. Response (20 Hz-20 kHz @ 20W): THD+N @ 1 kHz, 1W (20 kHz BW):

Dynamic Range:

HEADSET I/O Full Scale Level:

Freq. Response (200 Hz-20 kHz @ FS): THD+N (1 kHz-10 kHz, 20 kHz BW) @ FS:

Dynamic Range:

USB connectivity from computer to Devio CR-1 for audio and video, DisplayLink USB

to two displays

Two USB 2.0/3.0 ports for attaching

Locking connection for Devio CR-1 60W

inline power supply

10/100/1000Base-T Ethernet network connection (802.1X compliant)

For bridging in-room telephone into audio conferences via headset jack (sidetone

Cat-5/5e/6 cable connection to Devio

DTM-1 or DCM-1 microphone

HDMI-equipped displays

Additional USB 2.0 peripheral connection

(ideal for USB Camera)

+8.5 dBu +0/-0.25 dB

95 dB A-Weighted (THD+N < 0.01%)

85 dB (one channel driven)

20W into Rated Load Impedance

< 0.025% THD+N

8 Ω to 4 Ω (short circuit protection)

+0.2/-0.5 dB

97 dB A-Weighted (THD+N < 0.025%)

+1 dBu

+0.5/-0.5 dB < 0.05%

80dB A-Weighted (THD+N < 0.05%)

USB Audio sampling rate and bit rate:

System Administration Utility Capabilities:

Supported video resolutions:

USB Device Charging:

Notification:

SNMP CAPABILITIES Read: 20W powered output speaker connection

must be disabled)

Alternative connection to self-powered speakers (mono signal on both channels,

optional balanced audio output)

Supports video output to up to two in-room

ENVIRONMENTAL **Operating Temperature:**

Humidity Range: Altitude:

Height:

Width:

Depth:

Weight:

Front Panel Indicators:

OVERALL DIMENSIONS

Compliance:

48 kHz. 16 bit

Remote/networked-based CR-1 device access and management, install firmware

updates, perform Auto Setup

640 x 480p / 60Hz 4:3 720 x 480p / 60Hz 4:3 1280 x 720p / 60Hz 16:9 1920 x 1080p / 60Hz 16:9 720 x 576p / 50Hz 4:3 1280 x 720p / 50Hz 16:9 1920 x 1080p / 50Hz 16:9

Up to 5W, requires USB connection to

computer

Devio Firmware Version, USB Connection Status, Call In Progress, Microphone Audio Present, Far End Audio Present, Auto Setup Status Device

Operational

USB Connection Notification,

Microphone Connected Notification, Line Fault Notification, Auto Setup Status Notification, Call In Progress Notification

1-13/16 inches (46 mm) 11-3/16 inches (284 mm) 6-7/8 inches (175 mm) 2.05 lbs (0.93 kg)

0° to 45° C / 32° to 113° F 0% to 95% RH non-condensing 0-10,000 Feet MSL (0-3000 Meters MSL) Power, Mic Status, Auto Setup Status

UL and C-UL listed (USA & Canada)

FCC Part 15, Class A (USA) FCC Part 68 (USA)

Industry Canada CS-03 (Canada)

CE Marked (Europe) RCM (Australia)

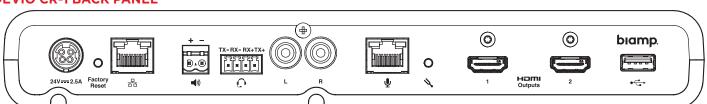
EAC (Eurasian Customs Union) RoHS Directive (Europe)

NOM (Mexico) CCC (China) KCC (Korea)

DEVIO CR-1 FRONT PANEL



DEVIO CR-1 BACK PANEL





DEVIO™ BEAMFORMING MICROPHONES







DEVIO DCM-1 CEILING MICROPHONE

Devio gives you choices when it comes to microphones for the meeting space. Biamp offers two beamforming microphone form factors – the DTM-1 tabletop microphone and the DCM-1 ceiling microphone, allowing you to place the microphone in the location that best suits your needs. Each microphone has active beamforming technology with three 120-degree zones, providing full 360-degree coverage of the meeting space. These microphones track and intelligently mix conversations from around the table, allowing far-end conference participants to experience the conversation as it unfolds, providing a real-time, collaborative experience. The DCM-1 includes all the necessary items for a clean, safe, and professional installation. The DTM-1 ships with a mounting plate for securing it to a table for perfect coverage every time. A second microphone can be added to the meeting room if needed.

FEATURES

- Eight-element microphones
- Active beamforming technology
- Three 120-degree zones for 360 degrees of coverage
- · Automatic voice tracking
- LED mute status indicator
- Two selectable directivity modes (DTM-1)
- Four selectable elevation angle modes (DCM-1)
- Capacitive touch mute button (DTM-1)
- Mounting plate for secure installation (DTM-1)
- Simple installation process includes quick microphone height adjustment (DCM-1)
- Additional RJ-45 for daisy-chained connection to an additional microphone
- Covered by the Devio CR-1 two-year Biamp Systems warranty

NOTE: TABLETOP MICROPHONES AND CEILING MOUNTED MICROPHONES CANNOT BE COMBINED INTO ONE MEETING SPACE.



SPECIFICATIONS DTM-1:

Microphone Technology:

Frequency Response:

Polar Pattern:

Sensitivity:

Maximum SPL @ .5% THD:

Dynamic Range:

Automatic Noise Suppression:

Selectable Directivity Modes:

Power Requirements: Mute Switching: Indicators: Digital Interface:

Connector:

Required Cable:

Node to Node Max Distance:

OVERALL DIMENSIONS

Height: Width: Depth: Weight:

Altitude:

ENVIRONMENTAL

Operating Temperature: **Humidity Range:**

8-Element Digital Array

150 Hz - 16kHz (+3dB/-3dB)

Active Beamformed

> 70 dB @ 1kHz (94 dBSPL, A-weighted)

106dBSPL

92 dB A-Weighted (THD+N < 10%)

4 modes: Off, Low (Default), Medium, High

2 modes: Middle of Table (360°) or End of

Table (120°)

<1W. Phantom Powered from CR-1 3 Capacitive Touch Mute Buttons

Mute Indicator (Green/Red LED)

Custom/Proprietary

RJ-45 to CR-1 and to second DTM-1

(daisychained)

Standard 4-pairs UTP (minimum CAT-5)

49.2 feet (15 meters) from CR-1 to DTM-1,

and for daisychained connection from

first to second DTM-1

2-3/16 inches (56 mm) 5-1/8 inches (130 mm)

4-3/4 inches (121 mm) 0.6 lbs (0.27 kg)

0° to 45° C / 32° to 113° F 0% to 95% RH non-condensing

0-10,000 Feet MSL (0-3000 Meters MSL)

DCM-1:

PENDANT MICROPHONE:

Microphone Technology: 8-Element Digital Array 150 Hz - 16kHz (+3dB/-3dB) Frequency Response:

Polar Pattern: Active Beamformed

> 70 dB @ 1kHz (94 dBSPL, A-weighted) Sensitivity:

Maximum SPL @ .5% THD: 106dBSPL

Dynamic Range: 92 dB A-Weighted (THD+N < 10%)

Automatic Noise Suppression: 4 modes: Off, Low (Default), Medium, High

Selectable Elevation Modes: 4 modes: multiple 30° selections

Power Requirements: <1W, Phantom Powered from Plenum Box

Indicators: Mute Indicator (Green/Red LED)

Digital Interface: Custom/Proprietary

Custom 2-pin cable, Length 4.9 feet Connector:

(1.5 meters)

OVERALL DIMENSIONS 2 inches (51 mm) Height: Width: 2-1/2 inches (63 mm) Depth: 2-1/2inches (63 mm) Weight: 0.38 lbs (0.17 kg)

PLENUM BOX:

Power Requirements: <1W, Phantom Powered from CR-1

Indicators: CR-1 Connection indicator (Green LED)

Digital Interface: Custom/Proprietary

Connectors: RJ-45 to CR-1 and to second DCM-1

Plenum Box (daisychained), 2-pin 3.5 mm Phoenix to DCM-1 Microphone

Required Cable: Standard 4-pairs UTP (minimum CAT-5)

Node to Node Max Distance: 49.2 feet (15 meters) from CR-1 to DCM-1 plenum box, and for daisychained

connection from first to second DCM-1

plenum box

OVERALL DIMENSIONS

Height: 2 inches (51 mm) Width: 4 inches (102 mm) Depth: 5-3/8 inches (137 mm) Weight: 0.86 lb (0.39 kg)

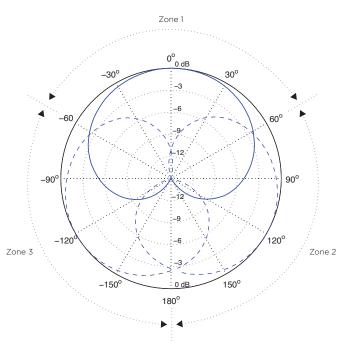
ENVIRONMENTAL

Operating Temperature: Humidity Range:

0° to 45° C / 32° to 113° F 0% to 95% RH non-condensing Altitude: 0-10,000 feet MSL (0-3000 meters MSL)

BEAMFORMING RANGE

Polar pattern shown at 1kHz



ARCHITECTS & ENGINEERS SPECIFICATIONS

DEVIO CR-1T

The unified communication (UC) system shall be designed to connect soft-codec conferencing systems with audio and video equipment. The UC system shall connect to a PC running Windows or Mac OS X (the "computer") via a single Universal Serial Bus (USB) USB type B connector for both audio and video, reception and transmission. The UC system shall provide a single audio channel of power amplification up to 20W. The UC system shall receive input from up to two tabletop microphones. Each tabletop microphone shall offer multidirectional beamforming, automatic beam steering, and automatic voice tracking capabilities. The UC system shall include acoustic echo cancellation and automatic gain control capabilities. Audio transmission/reception from the computer shall be via a USB Class 1 Audio device. The UC system shall feature an automated audio setup process that confirms audio device connections and optimizes audio output levels after physical installation is complete. The UC system will provide two USB 3.0 type A ports and one USB 2.0 type A port. The UC system shall connect to up to two displays via High-Definition Multimedia Interface (HDMI) connections. The UC system shall connect to a camera via USB 2.0 or 3.0 connection. The UC system shall be able to be indige a call from a connected telephony headset interface via 4-pin Phoenix connector. The UC system shall be able to be monitored, configured and controlled via built-in Ethernet port using Simple Network Management Protocol (SNMP) version 2 procedures. The warranty shall offer two years of replacement or repair coverage. The UC system shall be the Devio CR-1T.

DEVIO CR-1C

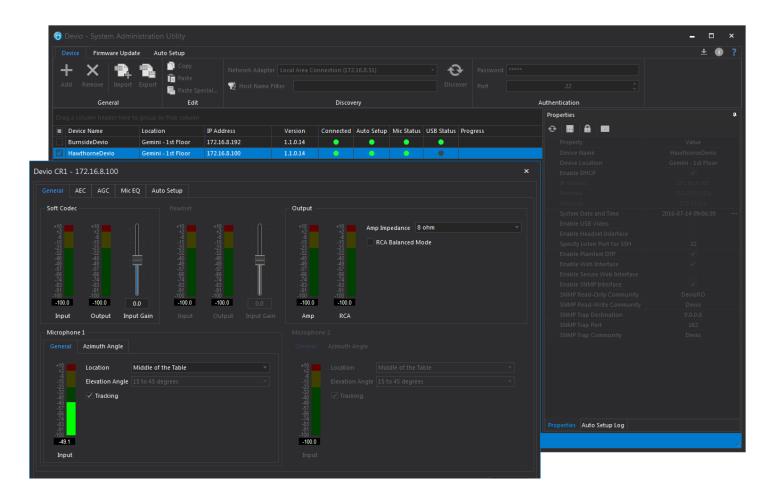
The unified communication (UC) system shall be designed to connect soft-codec conferencing systems with audio and video equipment. The UC system shall connect to a PC running Windows or Mac OS X (the "computer") via a single Universal Serial Bus (USB) USB type B connector for both audio and video, reception and transmission. The UC system shall provide a single audio channel of power amplification up to 20W. The UC system shall receive input from up to two ceiling microphones. Each ceiling microphone shall offer multidirectional beamforming, automatic beam steering, and automatic voice tracking capabilities. The ceiling microphone shall offer simple installation and microphone height adjustment, and be mountable on ceiling tile or in open-ceiling environments. The UC system shall include acoustic echo cancellation and automatic gain control capabilities. Audio transmission/reception from the computer shall be via a USB Class 1 Audio device. The UC system shall feature an automated audio setup process that confirms audio device connections and optimizes audio output levels after physical installation is complete. The UC system will provide two USB 3.0 type A ports and one USB 2.0 type A port. The UC system shall connect to up to two displays via High-Definition Multimedia Interface (HDMI) connections. The UC system shall connect to a camera via USB 2.0 or 3.0 connection. The UC system shall be able to bridge a call from a connected telephony headset interface via 4-pin Phoenix connector. The UC system shall be able to be monitored, configured and controlled via built-in Ethernet port using Simple Network Management Protocol (SNMP) version 2 procedures. The warranty shall offer two years of replacement or repair coverage. The UC system shall be the Devio CR-1C.

WHAT'S IN THE BOX

DEVIO CR-1T	DEVIO CR-1C
Devio CR-1 small room conferencing appliance	Devio CR-1 small room conferencing appliance
Mounting bracket and screws	Mounting bracket and screws
24V / 2.5 A power supply with country specific connector	24V / 2.5 A power supply with country specific connector
6-foot USB 3.0 Type-A to Type-B connection cable	6-foot USB 3.0 Type-A to Type-B connection cable
2- and 4-pin PHOENIX connectors	2- and 4-pin PHOENIX connectors
Devio DTM-1 microphone kit includes:	Devio DCM-1 microphone kit includes:
Beamforming tabletop microphone	Beamforming pendant microphone with 4.9-foot
Microphone mounting plate	(1.5-meter) cable and strain relief tie
	Plenum box with adjustable pendant mic connector port
	Safety cable



SYSTEM ADMINISTRATION UTILITY (SAU) EXAMPLE SCREEN:



The System Administration Utility for Devio provides network-based CR-1 device access and management, ability to install firmware updates and perform the Auto Setup.

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