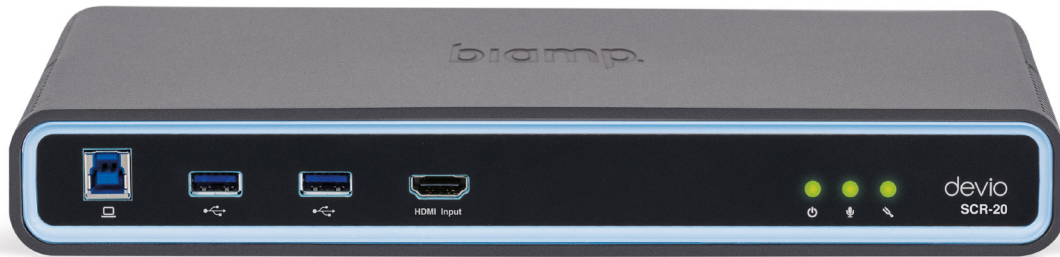


DATA SHEET

DEVIO® SCR-20

CONFERRING HUB



The Devio SCR-20 is a conferencing hub that provides users with exceptional AV experiences when using web-based conferencing systems. Intended for huddle rooms or small conference rooms, the SCR-20 uses Beamtracking™ microphones and professional grade DSP to optimize the audio quality, allowing far-end conference participants to experience the conversation naturally. The Devio SCR-20 supports a variety of room designs for computer-based conferencing including a BYOD approach or connection via a dedicated in-room PC. Devio works in concert with PCs running a variety of web-based conferencing solutions including Microsoft Skype for Business/Microsoft Teams, Zoom, BlueJeans, Google Hangouts™/Google Meet, and many more. For ease of network and device management, Devio can be monitored and managed remotely via SNMP or with the Devio System Administration Utility (SAU) software, and firmware updates can be scheduled and deployed to multiple Devio units as needed.

FEATURES

- Works in concert with PCs running web-based conferencing solutions, including Microsoft Skype for Business/Microsoft Teams, Zoom, BlueJeans, Google Hangouts™/Google Meet, and many more
- Supports both Windows and Mac PCs, and uses standard audio drivers
- Supports driverless, pass-through HDMI connectivity to a single in-room display, or to two monitors with USB video using DisplayLink¹ USB graphics technology
- Auto Setup validates device connections, adjusts room levels, and sets speaker EQ to optimize audio quality
- Can be monitored and managed remotely via SNMP or with the Devio System Administration Utility (SAU)
- Firmware updates can be scheduled and deployed to multiple Devio units via the SAU
- Speaker connectivity options include HDMI audio, a built-in 20W amplifier, or RCA line out
- Ships with a mounting bracket for under-the-table installation and one Beamtracking microphone
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' two-year warranty

¹ DisplayLink USB video technology compatible with Windows 7, 8, 8.1, and 10.

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ARCHITECTS & ENGINEERS SPECIFICATIONS

The conferencing hub shall be designed to connect web-based soft codec conferencing systems with in-room audio and video devices. The conferencing hub shall utilize an Ethernet network via an RJ-45 connector for software configuration and control. The signal processing of the conferencing hub shall be configurable via the Devio System Administration Utility (SAU) software or Simple Network Management Protocol (SNMP) version 2, including but not limited to: acoustic echo cancellation and automatic gain control, as well as control, monitoring, and diagnostic tools. The conferencing hub shall receive microphone input via an RJ-45 connector. The conferencing hub shall connect to a Windows® or Mac OS X computer via a Universal Serial Bus (USB) connection using a standard USB type B connector. The conferencing hub shall be equipped with two USB 3.0 type A ports on the front panel, and one USB 3.0 type A port on the rear panel. The conferencing hub shall be able to receive and transmit audio streams over USB via a USB Class 1 Audio device. The conferencing hub shall support an automated audio setup process that confirms device connections and optimizes audio output levels after physical installation is complete. The conferencing hub shall be equipped with one High-Definition Multimedia Interface (HDMI®) port on the front panel, and two HDMI ports on the rear panel. The conferencing hub shall support driverless, pass-through HDMI connectivity to a single in-room display, or to two monitors via USB video using DisplayLink USB graphics technology. The conferencing hub shall provide one output channel of 20 watts of continuous power, and shall support one RCA line-out connection. The conferencing hub shall be CE marked, UL listed, and compliant with the RoHS directive. Warranty shall be two years. The conferencing hub shall be the Devio® SCR-20.

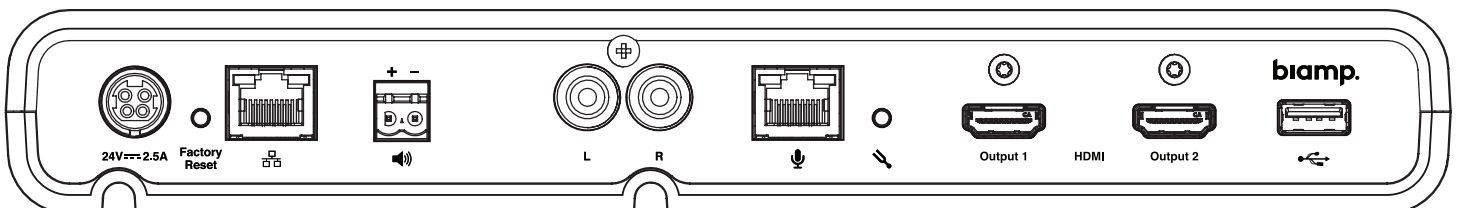
DEVIO SCR-20 SPECIFICATIONS

Network Connection:	RJ-45 with Ethernet cable (Cat 5e and above)	Amplifier:	
Front Panel Indicators:	Mic Status Indicator (Green/Red LED) Room Tuning Indicator (Green/Red LED) Power Indicator (Green/Red LED)	Number of Channels:	1
Power:	24V DC 60W	Continuous Power Output (THD+N < 0.025%):	20 W into Rated Load Impedance
Video:		Frequency Response (20 Hz - 20 kHz):	+0.2/-0.5 dB
Supported Resolutions:	640 x 480p (60 Hz) 720 x 480p (60 Hz) 720 x 576p (50 Hz) 1280 x 720p (50/60 Hz) 1920 x 1080p (50/60 Hz) *3840 x 2160p (30 Hz)	THD+N (1 kHz, 20 kHz bandwidth, 1 W):	< 0.03%
Physical Interface:	HDMI	Dynamic Range (THD+N < 0.5%):	100 dB, A-Weighted
HDCP Support:	1.4	Minimum Operational Load:	4Ω
HDMI Audio Formats:	2ch L-PCM, 44.1 kHz/48 kHz, 16-bit	Intermodulation distortion (SMPTE, 60 Hz/7 kHz, 4:1, 1W):	< 0.07%
Analog Audio Output (RCA):		USB:	
Frequency Response (20 Hz - 20 kHz, FS):	+0/-0.25 dB	Bit Depth:	24-bit
THD+N (20 Hz - 10 kHz, 20 kHz B/W, FS):	< 0.005%	Sample Rate:	48 kHz
Dynamic Range (THD+N < 0.005%):	107 dB, A-Weighted	Device Charging:	**Up to 5 W
Output Impedance (unbalanced):	100Ω	Overall Dimensions:	
Maximum Output:	+8.5 dBu	Height:	1.8 inches (46 mm)
Sampling Rate:	48 kHz	Width:	11.2 inches (284 mm)
D/A Converters:	24-bit	Depth:	6.9 inches (175 mm)
SNMP:	See support website for the full list of attributes	Weight:	2.0 lbs (0.9 kg)
		Environmental:	
		Ambient Operating Temperature Range:	32-104° F (0-40° C)
		Humidity:	0-95% relative humidity (non-condensing)
		Altitude:	0-6,600 ft (0-2000 m) MSL
		Compliance:	FCC Part 15B (USA) UL and C-UL listed (USA and Canada) CE Marked (Europe) RoHS Directive (Europe)

* Supported on Output Port 1 only

** Requires USB connection to computer

DEVIO SCR-20 BACK PANEL



A: 9300 S.W. Gemini Drive Beaverton, OR 97008 USA

T: +1 503.641.7287

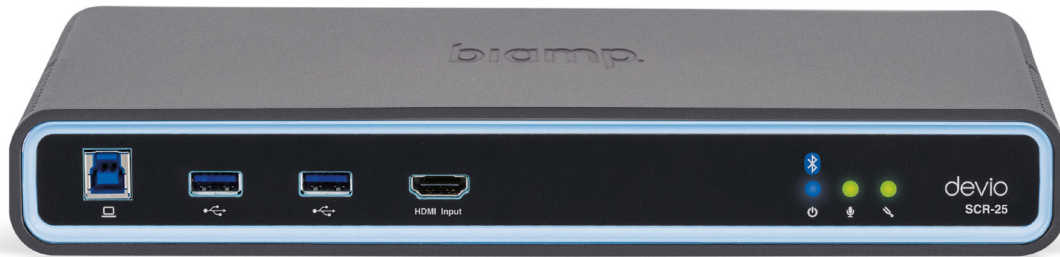
W: www.biamp.com

DEVDS-505-1908-EN-R1

DATA SHEET

DEVIO® SCR-25

CONFERENCE HUB WITH BLUETOOTH® WIRELESS TECHNOLOGY



The Devio SCR-25 is a conferencing hub that provides users with exceptional AV experiences when using web-based conferencing systems. Intended for huddle rooms or small conference rooms, the SCR-25 uses Beamtracking™ microphones and professional grade DSP to optimize the audio quality, allowing far-end conference participants to experience the conversation naturally. The Devio SCR-25 supports a variety of room designs for computer-based conferencing including a BYOD approach, connection via a dedicated in-room PC, or joining via POTS/VoIP handset in the room. The SCR-25 also uses Bluetooth® wireless technology to provide a cable-free solution for users who prefer conferencing via mobile phone. Devio works in concert with PCs running a variety of web-based conferencing solutions including Microsoft Skype for Business/Microsoft Teams, Zoom, BlueJeans, Google Hangouts™/Google Meet, and many more. For ease of network and device management, Devio can be monitored and managed remotely via SNMP or with the Devio System Administration Utility (SAU) software, and firmware updates can be scheduled and deployed to multiple Devio units as needed.

FEATURES

- Works in concert with PCs running web-based conferencing solutions, including Microsoft Skype for Business/Microsoft Teams, Zoom, BlueJeans, Google Hangouts™/Google Meet, and many more
- Supports both Windows and Mac PCs, and uses standard audio drivers
- Supports driverless, pass-through HDMI connectivity to a single in-room display, or to two monitors with USB video using DisplayLink¹ USB graphics technology
- Auto Setup validates device connections, adjusts room levels, and sets speaker EQ to optimize audio quality
- Supports Bluetooth wireless technology
- Can be monitored and managed remotely via SNMP or with the Devio System Administration Utility (SAU)
- Firmware updates can be scheduled and deployed to multiple Devio units via the SAU
- Speaker connectivity options include HDMI audio, a built-in 20W amplifier, or RCA line out
- Ships with a mounting bracket for under-the-table installation and one Beamtracking microphone
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' two-year warranty

¹ DisplayLink USB video technology compatible with Windows 7, 8, 8.1, and 10.

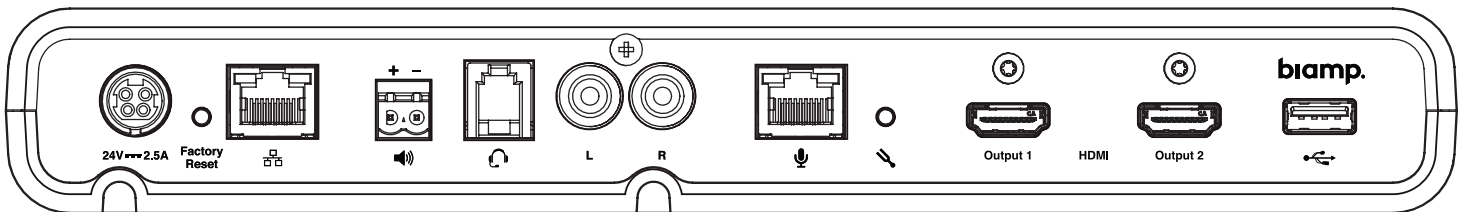
DEVIO SCR-25 SPECIFICATIONS

Network Connection:	RJ-45 with Ethernet cable (Cat 5e and above)	SNMP:	See support website for the full list of attributes
Front Panel Indicators:	Mic Status Indicator (Green/Red LED) Room Tuning Indicator (Green/Red LED) Power/Wireless Indicator (Green/Red/Blue LED)	USB:	Bit Depth: 24-bit Sample Rate: 48 kHz Device Charging: **Up to 5 W
Power:	24V DC 60W	Bluetooth Wireless Technology:	4.2, Class 2 Bluetooth Classic
Video:		Mode:	Hands-Free Profile 1.7 (HFP) Audio/Video Remote Control Profile 1.6 (AVRCP) Advanced Audio Distribution Profile 1.3 (A2DP)
Supported Resolutions:	640 x 480p (60 Hz) 720 x 480p (60 Hz) 720 x 576p (50 Hz) 1280 x 720p (50/60 Hz) 1920 x 1080p (50/60 Hz) *3840 x 2160p (30 Hz)	Supported Profiles:	CVSD (8 kHz), mSBC (16 kHz), SBC (44.1 kHz), SBC (48 kHz)
Physical Interface:	HDMI	Supported Codecs:	
HDCP Support:	1.4	Maximum Transmit Power:	BER/EDR: 6.43 dBm (EIRP) BLE: 7.69 dBm (EIRP)
HDMI Audio Formats:	2ch L-PCM, 44.1 kHz/48 kHz, 16-bit	Receive Sensitivity (0.1% BER):	-88 dBm
Headset:		Frequency Band:	2402-2480 MHz
Frequency Response (200 Hz - 8 kHz, FS):	±0.5 dB	Wireless Range:	Up to 100 feet (30 m)
THD+N (1 kHz - 4 kHz, 8 kHz B/W, FS):	< 0.05%	Overall Dimensions:	
Dynamic Range (THD+N < 0.05%):	80 dB, A-Weighted	Height:	1.8 inches (46 mm)
Maximum Output:	-3 dBu	Width:	11.2 inches (284 mm)
Analog Audio Output (RCA):		Depth:	6.9 inches (175 mm)
Frequency Response (20 Hz - 20 kHz, FS):	+0/-0.25 dB	Weight:	2.0 lbs (0.9 kg)
THD+N (20 Hz - 10 kHz, 20 kHz B/W, FS):	< 0.005%	Environmental:	
Dynamic Range (THD+N < 0.005%):	107 dB, A-Weighted	Ambient Operating Temperature Range:	32-104° F (0-40° C)
Output Impedance (unbalanced):	100Ω	Humidity:	0-95% relative humidity (non-condensing)
Maximum Output:	+8.5 dBu	Altitude:	0-6,600 ft (0-2000 m) MSL
Sampling Rate:	48 kHz	Compliance:	FCC Part 15B (USA) UL and C-UL listed (USA and Canada) CE Marked (Europe) RoHS Directive (Europe)
D/A Converters:	24-bit		
Amplifier:			
Number of Channels:	1		
Continuous Power Output (THD+N < 0.025%):	20 W into Rated Load Impedance		
Frequency Response (20 Hz - 20 kHz):	+0.2/-0.5 dB		
THD+N (1 kHz, 20 kHz bandwidth, 1 W):	< 0.03%		
Dynamic Range (THD+N < 0.5%):	100 dB, A-Weighted		
Minimum Operational Load:	4Ω		
Intermodulation distortion (SMPTE, 60 Hz/7 kHz, 4:1, 1W):	< 0.07%		

* Supported on Output Port 1 only

** Requires USB connection to computer

DEVIO SCR-25 BACK PANEL



ARCHITECTS & ENGINEERS SPECIFICATIONS

The conferencing hub shall be designed to connect web-based soft codec conferencing systems with in-room audio and video devices. The conferencing hub shall utilize an Ethernet network via an RJ-45 connector for software configuration and control. The signal processing of the conferencing hub shall be configurable via the Devio® System Administration Utility (SAU) software or Simple Network Management Protocol (SNMP) version 2, including but not limited to: acoustic echo cancellation and automatic gain control, as well as control, monitoring, and diagnostic tools. The conferencing hub shall receive microphone input via an RJ-45 connector. The conferencing hub shall connect to a Windows® or Mac OS X computer via a Universal Serial Bus (USB) connection using a standard USB type B connector. The conferencing hub shall be equipped with two USB 3.0 type A ports on the front panel, and one USB 3.0 type A port on the rear panel. The conferencing hub shall be able to receive and transmit audio streams over USB via a USB Class 1 Audio device. The conferencing hub shall support an automated audio setup process that confirms device connections and optimizes audio output levels after physical installation is complete. The conferencing hub shall be equipped with one High-Definition Multimedia Interface (HDMI®) port on the front panel, and two HDMI ports on the rear panel. The conferencing hub shall support driverless, pass-through HDMI connectivity to a single in-room display, or to two monitors via USB video using DisplayLink USB graphics technology. The conferencing hub shall provide one output channel of 20 watts of continuous power, and shall support one RCA line-out connection. The conferencing hub shall be able to bridge a call from a connected telephony headset interface via a 4P4C connector. The conferencing hub shall support Bluetooth® wireless technology and shall be compatible with the Hands-Free Profile, Headset Profile, and Advanced Audio Distribution Profile. The conferencing hub shall support the mSBC, SBC, and CVSD codecs. The conferencing hub shall be CE marked, UL listed, and compliant with the RoHS directive. Warranty shall be two years. The conferencing hub shall be the Devio SCR-25.

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DATA SHEET

DEVIO® DTM-1

BEAMTRACKING™ TABLETOP MICROPHONE



The DTM-1 is a tabletop microphone for use in Devio® systems. Each microphone includes Beamtracking™ technology with three 120-degree zones, providing full 360-degree coverage of the meeting space. The DTM-1 microphone actively tracks and intelligently mixes conversations from around the table, allowing far-end conference participants to experience the conversation naturally. The Devio DTM-1 comes with three capacitive-touch buttons for managing mute state, and each microphone comes with an additional RJ-45 connector for daisy-chain connections. A maximum of two DTM-1 microphones are permitted per daisy chain. The Devio DTM-1 is well suited for huddle rooms or small conference rooms that require cost effective, high-quality audio solutions.

FEATURES

- Beamtracking technology actively tracks and intelligently mixes conversations
- Three 120-degree zones for 360 degrees of coverage
- Three LED mute status indicators
- Two selectable directivity modes
- Three capacitive touch mute buttons
- Mounting plate for secure installation included
- Easy single-cable installation process
- Additional RJ-45 for daisy-chain connection to another DTM-1 microphone (maximum of two mics per daisy chain)
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' two-year warranty

NOTE: DTM-1 TABLETOP MICROPHONES CAN ONLY BE DAISY-CHAINED TOGETHER WITH OTHER DTM-1 MICROPHONES.

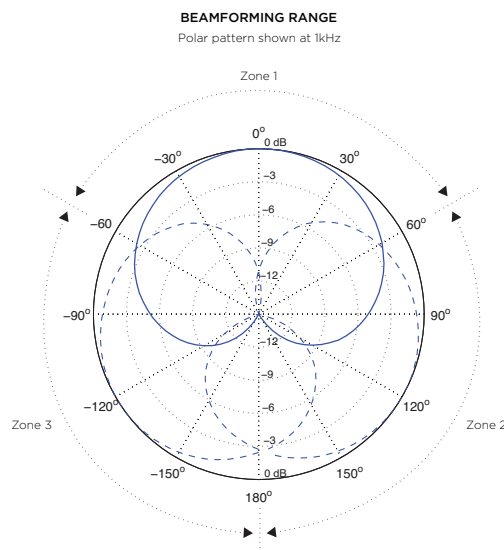
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ARCHITECTS & ENGINEERS SPECIFICATIONS

The Beamtracking™ tabletop microphone shall be designed exclusively for use with Devio® systems. The Beamtracking tabletop microphone shall utilize a proprietary network via an RJ-45 connector for audio networking as well as software configuration and control. The Beamtracking tabletop microphone shall contain eight-element microphones, and shall provide three 120-degree zones for 360 degrees of coverage. The Beamtracking tabletop microphone shall offer multidirectional beamforming and automatic signal tracking capabilities. The Beamtracking technology shall operate in conjunction with acoustic echo cancellation technology (AEC) in accordance with U.S. Patent 9659576. The Beamtracking tabletop microphone shall include three capacitive-touch buttons for changing mute state, and shall support single-cable installation and tabletop mounting. The Beamtracking tabletop microphone shall provide a second RJ-45 connector to allow an additional Beamtracking tabletop microphone to be daisy-chained together. The Beamtracking tabletop microphone shall be CE marked, UL listed, and compliant with the RoHS directive. Warranty shall be two years. The Beamtracking tabletop microphone shall be Devio DTM-1.

DEVIO DTM-1 SPECIFICATIONS

Microphone Technology:	8-Element Digital Array	Power Requirements:	< 1 W, phantom powered from CR-1/SCR-20/SCR-25
Frequency Response (150 Hz - 16 kHz):	± 3 dB	Max Distance Between Devices:	49 feet (15 meters) from CR-1/SCR-20/SCR-25 to DTM-1; 49 feet (15 meters) for daisy-chained connections between DTM-1 microphones
Polar Pattern:	Active Beamformed	Overall Dimensions:	
Sensitivity (94 dB SPL, 1 kHz):	> 70 dB, A-Weighted	Height:	2.2 inches (56 mm)
Maximum SPL (at 0.5% THD):	106 dB SPL	Width:	5.1 inches (130 mm)
Dynamic Range (THD+N < 10%):	92 dB, A-Weighted	Depth:	4.8 inches (121 mm)
Automatic Noise Suppression:	4 modes: Off, Low (Default), Medium, High	Weight:	0.6 lbs (0.27 kg)
Selectable Directivity Modes:	2 modes: Middle of Table (360°) or End of Table (120°)	Environmental:	
Mute Switching:	3 Capacitive Touch Buttons	Ambient Operating Temperature Range:	32-104° F (0-40° C)
Indicators:	Mute Indicator (Green/Red LED)	Humidity:	0-95% relative humidity (non-condensing)
Digital Interface:	Custom/Proprietary	Altitude:	0-6,600 ft (0-2000 m) MSL
Connectors:	Two RJ-45: one between DTM-1 and Devio CR-1/SCR-20/SCR-25, the other between DTM-1 and additional DTM-1	Compliance:	FCC Part 15B (USA) CE marked (Europe) UL and C-UL listed (USA and Canada) RoHS Directive (Europe)



DATA SHEET

DEVIO® DCM-1

BEAMTRACKING™ CEILING MICROPHONE



The DCM-1 is a ceiling microphone for use in Devio® systems. Comprising a pendant microphone and plenum box, each microphone includes Beamtracking™ technology with three 120-degree zones, providing full 360-degree coverage of the meeting space. The DCM-1 microphone actively tracks and intelligently mixes conversations from around the table, allowing far-end conference participants to experience the conversation naturally. The Devio DCM-1 has four software-selectable elevation angle modes for optimal sound pickup, and each plenum box comes with an additional RJ-45 connector for daisy-chain connections. A maximum of two DCM-1 microphones are permitted per daisy chain. The Devio DCM-1 is well suited for huddle rooms or small conference rooms that require cost effective, high-quality audio solutions.

FEATURES

- Beamtracking technology actively tracks and intelligently mixes conversations
- Three 120-degree zones for 360 degrees of coverage
- Three LED mute status indicators
- Four selectable elevation angle modes
- User-adjustable mic height
- Easy single-cable installation process
- Optional tile bridge mounting accessory available
- Pendant microphone available in either white or black
- Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
- Additional RJ-45 for daisy-chain connection to another DCM-1 microphone (maximum of two mics per daisy chain)
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' two-year warranty

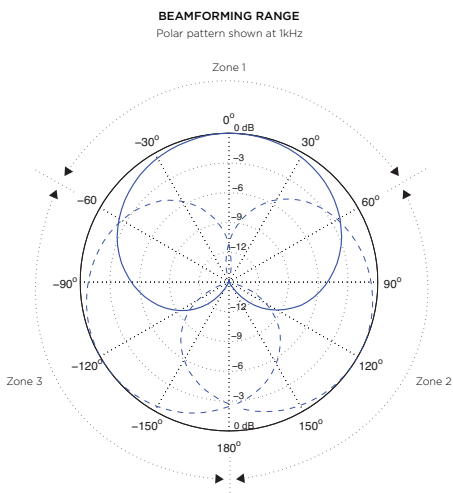
NOTE: DCM-1 CEILING MICROPHONES CAN ONLY BE DAISY-CHAINED TOGETHER WITH OTHER DCM-1 MICROPHONES.

ARCHITECTS & ENGINEERS SPECIFICATIONS

The Beamtracking™ ceiling microphone shall be designed exclusively for use with Devio® systems. The Beamtracking ceiling microphone shall utilize a proprietary network via an RJ-45 connector for audio networking as well as software configuration and control. The Beamtracking ceiling microphone shall contain eight-element microphones, and shall provide three 120-degree zones for 360 degrees of coverage. The Beamtracking ceiling microphone shall offer multidirectional beamforming and automatic signal tracking capabilities. The Beamtracking technology shall operate in conjunction with acoustic echo cancellation technology (AEC) in accordance with U.S. Patent 9659576. The Beamtracking ceiling microphone shall offer simple installation and microphone height adjustment, and shall be mountable on a ceiling tile or in open-ceiling environments. The Beamtracking ceiling microphone shall be suitable for use in air handling spaces in accordance with UL 2043, and shall provide a second RJ-45 connector to allow an additional Beamtracking ceiling microphone to be daisy-chained together. The Beamtracking ceiling microphone shall be CE marked, UL listed, and compliant with the RoHS directive. Warranty shall be two years. The Beamtracking ceiling microphone shall be Devio DCM-1.

DEVIO DCM-1 SPECIFICATIONS

<p>PENDANT MICROPHONE</p> <p>Microphone Technology: 8-Element Digital Array</p> <p>Frequency Response (150 Hz - 16 kHz): ± 3 dB</p> <p>Polar Pattern: Active Beamformed</p> <p>Sensitivity (94 dB SPL, 1 kHz): > 70 dB, A-Weighted</p> <p>Maximum SPL (at 0.5% THD): 106 dB SPL</p> <p>Dynamic Range (THD+N < 10%): 92 dB, A-Weighted</p> <p>Automatic Noise Suppression: 4 modes: Off, Low (Default), Medium, High</p> <p>Selectable Elevation Modes: 4 modes: multiple 30° selections</p> <p>Power: < 1 W, phantom powered from plenum box</p> <p>Indicators: Mute Indicator (Green/Red LED)</p> <p>Digital Interface: Custom/Proprietary</p> <p>Connector: Custom 2-pin (cable length 16 feet [5 meters])</p> <p>Overall Dimensions:</p> <p>Height: 2 inches (51 mm)</p> <p>Width: 2.5 inches (63 mm)</p> <p>Depth: 2.5 inches (63 mm)</p> <p>Weight: 0.38 lbs (0.17 kg)</p>	<p>PLENUM BOX</p> <p>Power: < 1 W, phantom powered from CR-1/SCR-20/SCR-25</p> <p>Indicators: Connection Indicator (Green LED)</p> <p>Digital Interface: Custom/Proprietary</p> <p>Connectors: Two RJ-45: one between DCM-1 plenum box and CR-1/SCR-20/SCR-25, the other between DCM-1 plenum box and additional DCM-1 plenum box</p> <p>Max Distance Between Devices: 49 feet (15 meters) from CR-1/SCR-20/SCR-25 to DCM-1; 49 feet (15 meters) for daisy-chained connections between DCM-1 microphones</p> <p>Overall Dimensions:</p> <p>Height: 2 inches (51 mm)</p> <p>Width: 4 inches (102 mm)</p> <p>Depth: 5.4 inches (137 mm)</p> <p>Weight: 0.86 lbs (0.39 kg)</p> <p>Environmental:</p> <p>Ambient Operating Temperature Range: 32-104° F (0-40° C)</p> <p>Humidity: 0-95% relative humidity (non-condensing)</p> <p>Altitude: 0-6,600 ft (0-2000 m) MSL</p> <p>Compliance:</p> <p>FCC Part 15B (USA)</p> <p>CE marked (Europe)</p> <p>UL and C-UL listed (USA and Canada)</p> <p>RoHS Directive (Europe)</p> <p>Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces</p>
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DATA SHEET

PARLÉ™ TCM-XEX

BEAMTRACKING™ CEILING MICROPHONE

The Parlé™ TCM-XEX is a low-profile ceiling microphone for use in Tesira® and Devio® systems. Each microphone includes Beamtracking™ technology with four 90-degree zones, providing full 360-degree coverage of the meeting space. The TCM-XEX microphone delivers Beamtracking performance in a sleek, unobtrusive design that mounts to the ceiling. The TCM-XEX actively tracks and intelligently mixes conversations from around the table, allowing far-end participants to experience the conversation as they would a face-to-face meeting. In Tesira systems, the TCM-XEX is intended to be used as a second microphone in conjunction with the TCM-X or TCM-XA; it cannot operate as a standalone device. In Devio systems, it functions as a standalone microphone. The TCM-XEX is well suited for a variety of room types and sizes with 10 foot (3 meter) ceilings or lower that require high-quality audio solutions and low profile or unobtrusive microphones.



FEATURES

- Must be used with a Parlé TCM-X or TCM-XA microphone in Tesira systems
- Low profile circular ceiling microphone that measures 5.9 inches (150 mm) in diameter
- Mounts directly to the ceiling to virtually disappear in the room
- Beamtracking technology actively tracks and intelligently mixes conversations
- Four 90-degree zones for full 360-degree room coverage
- Uses only one channel of AEC per microphone
- Single cable connection via category cable
- Beamtracking technology works out-of-box without any lobe aiming or room mapping
- LED mute status indicator
- Available in either black or white
- Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty

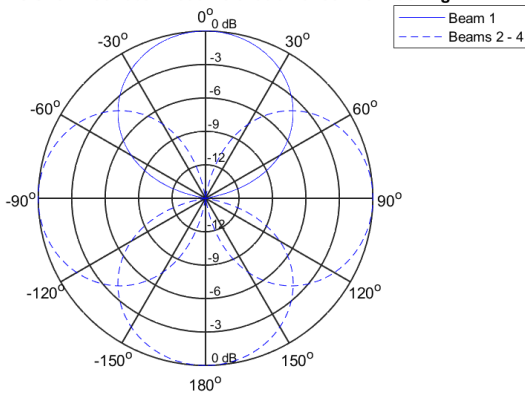
ARCHITECTS & ENGINEERS SPECIFICATIONS

The Beamtracking™ ceiling microphone shall be designed exclusively for use with Biamp® Tesira® and Devio® systems. The Beamtracking ceiling microphone shall utilize a proprietary digital protocol via an RJ-45 connector for audio networking. The Beamtracking ceiling mount microphone shall contain a sixteen-element digital microphone array, and shall provide four 90-degree zones for 360 degrees of coverage. The Beamtracking ceiling microphone shall offer multidirectional beamforming and automatic signal tracking capabilities. The Beamtracking technology shall operate in conjunction with acoustic echo cancellation technology (AEC) in accordance with U.S. Patent 9659576. The Beamtracking ceiling microphone shall be suitable for use in air handling spaces in accordance with UL 2043. The Beamtracking ceiling microphone shall be CE marked, UL listed, and compliant with the RoHS directive. Warranty shall be five years. The Beamtracking ceiling microphone shall be Parlé™ TCM-XEX.

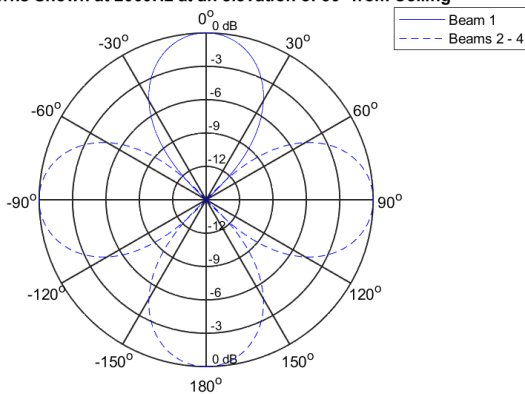
PARLÉ TCM-XEX SPECIFICATIONS

Microphone Technology:	16-Element Digital Array	Power:	Custom/Proprietary
Frequency Response (150 Hz - 16 kHz):	± 3dB	Max Distance Between Devices:	33 feet (10 meters) between TCM-XEX and DSP host device
Polar Pattern:	Active Beamformed	Environmental	
SNR (at 1kHz, 94dB SPL A-Weighted):	> 76dB	Ambient Operating	
Maximum SPL (at < 1% THD):	109dB	Temperature Range:	32 - 104° F (0 - 40° C)
Dynamic Range (THD+N < 1%):	92dB, A-Weighted	Humidity:	0-95% relative humidity (non-condensing)
Indicators:	Mute Indicator (Green/Red LED)	Altitude:	0-10,000 ft (0-3000m) MSL
Digital Interface:	Custom/Proprietary	Compliance:	FCC Part 15B (USA) CE marked (Europe) UL and C-UL listed (USA and Canada) RoHS Directive (Europe) Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
Connector:	RJ-45		
Overall Dimensions			
Height (excluding ceiling mount):	0.6 inches (15 mm)		
Diameter:	5.9 inches (150 mm)		
Weight:	0.7 lbs (340 g)		

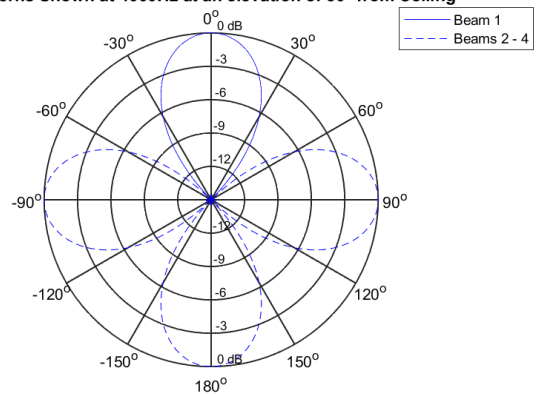
TCM-X Polar Responses at Center of Tracking Zones
Patterns Shown at 1000Hz at an elevation of 30° from Ceiling



TCM-X Polar Responses at Center of Tracking Zones
Patterns Shown at 2000Hz at an elevation of 30° from Ceiling



TCM-X Polar Responses at Center of Tracking Zones
Patterns Shown at 4000Hz at an elevation of 30° from Ceiling



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TESDS-378-1908-EN-R1

DATA SHEET

PARLÉ™ TTM-XEX

BEAMTRACKING™ TABLETOP MICROPHONE



The Parlé™ TTM-XEX is a tabletop microphone for use in Tesira® and Devio® systems. Each low-profile microphone includes Beamtracking technology with four 90-degree zones, providing full 360-degree coverage of the meeting space. The TTM-XEX microphone delivers Beamtracking performance in a sleek, unobtrusive design that can be either placed on or mounted to a tabletop. The TTM-XEX actively tracks and intelligently mixes conversations from around the table, allowing far-end participants to experience the conversation as they would a face-to-face meeting. In Tesira systems, the TTM-XEX is intended to be used as a second microphone in conjunction with the TTM-X; it cannot operate as a standalone device. In Devio systems, it functions as a standalone microphone. The TTM-XEX is well suited for a variety of room types and sizes that require high-quality audio solutions and low-profile or unobtrusive microphones.

FEATURES

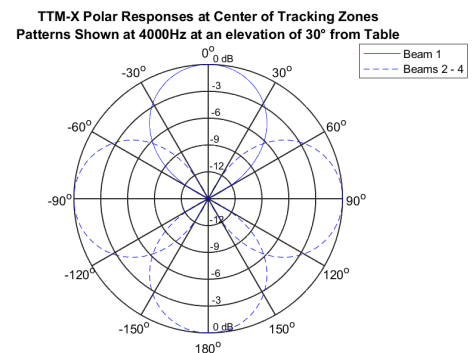
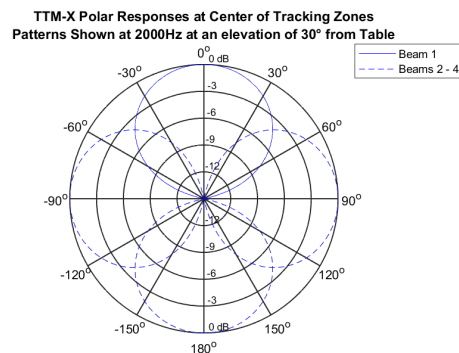
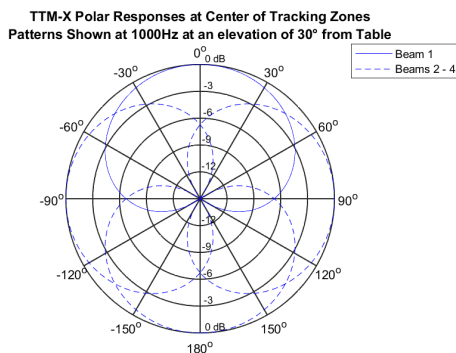
- Must be used with a Parlé TTM-X microphone in Tesira systems
- Low profile circular tabletop mic that measures 4.3 inches (110 mm) in diameter
- Sits directly on a tabletop to virtually disappear in room
- Beamtracking technology actively tracks and intelligently mixes conversations
- Four 90-degree zones for full 360-degree room coverage
- Uses only one channel of AEC per microphone
- Single cable connection via category cable
- Beamtracking technology works out-of-box without any lobe aiming or room mapping
- LED mute status indicator
- Available in either black or white
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATIONS

The Beamtracking™ tabletop microphone shall be designed exclusively for use with Biamp® Tesira® and Devio® systems. The Beamtracking tabletop microphone shall utilize a proprietary digital protocol via an RJ-45 connector for audio networking. The Beamtracking tabletop microphone shall contain a sixteen-element digital microphone array, and shall provide four 90-degree zones for 360 degrees of coverage. The Beamtracking tabletop microphone shall offer multidirectional beamforming and automatic signal tracking capabilities. The Beamtracking technology shall operate in conjunction with acoustic echo cancellation technology (AEC) in accordance with U.S. Patent 9659576. The Beamtracking tabletop microphone shall offer simple installation and shall be placed on or mounted to a tabletop. The Beamtracking tabletop microphone shall be CE marked, UL listed, and compliant with the RoHS directive. Warranty shall be five years. The Beamtracking tabletop microphone shall be Parlé™ TTM-XEX.

PARLÉ TTM-XEX SPECIFICATIONS

Microphone Technology:	16-Element Digital Array	Power:	Custom/Proprietary
Frequency Response (150 Hz - 16 kHz):	± 3dB	Max Distance Between Devices:	33 feet (10 meters) between TTM-XEX and DSP host device
Polar Pattern:	Beamformed	Environmental:	
Sensitivity (94dB SPL, 1kHz):	> 74dB	Ambient Operating Temperature Range:	32 - 104° F (0 - 40° C)
Maximum SPL (at 0.5% THD):	109dB	Humidity:	0-95% relative humidity (non-condensing)
Dynamic Range (THD+N < 10%):	90dB, A-Weighted	Altitude:	0-10,000 ft (0-3000m) MSL
Indicators:	Mute Indicator (Green/Red LED)	Compliance:	FCC Part 15B (USA) CE marked (Europe) UL and C-UL listed (USA and Canada) RoHS Directive (Europe)
Digital Interface:	Custom/Proprietary		
Connector:	RJ-45 (cable length 6.6 feet [2 meters])		
Overall Dimensions			
Height:	0.7 inches (18 mm)		
Diameter:	4.3 inches (110 mm)		
Weight:	0.5 lbs (231 g)		



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