

# 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

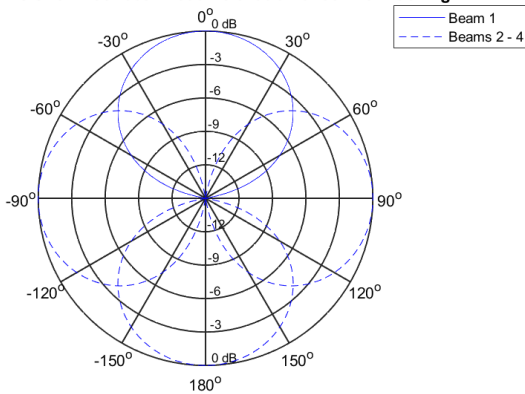
#### ARCHITECTS & ENGINEERS SPECIFICATIONS

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.

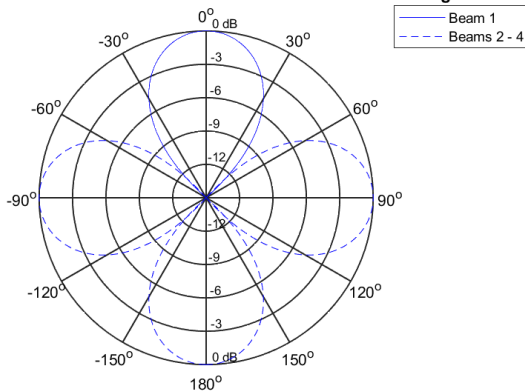
## PARLÉ TCM-XEX SPECIFICATIONS

<b>Microphone Technology:</b>	16-Element Digital Array	<b>Power:</b>	Custom/Proprietary
<b>Frequency Response (150 Hz - 16 kHz):</b>	± 3dB	<b>Max Distance Between Devices:</b>	33 feet (10 meters) between TCM-XEX and DSP host device
<b>Polar Pattern:</b>	Active Beamformed	<b>Environmental</b>	
<b>SNR (at 1kHz, 94dB SPL A-Weighted):</b>	> 76dB	<b>Ambient Operating</b>	
<b>Maximum SPL (at &lt; 1% THD):</b>	109dB	<b>Temperature Range:</b>	32 - 104° F (0 - 40° C)
<b>Dynamic Range (THD+N &lt; 1%):</b>	92dB, A-Weighted	<b>Humidity:</b>	0-95% relative humidity (non-condensing)
<b>Indicators:</b>	Mute Indicator (Green/Red LED)	<b>Altitude:</b>	0-10,000 ft (0-3000m) MSL
<b>Digital Interface:</b>	Custom/Proprietary	<b>Compliance:</b>	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
<b>Connector:</b>	RJ-45		
<b>Overall Dimensions</b>			
<b>Height (excluding ceiling mount):</b>	0.6 inches (15 mm)		
<b>Diameter:</b>	5.9 inches (150 mm)		
<b>Weight:</b>	0.7 lbs (340 g)		

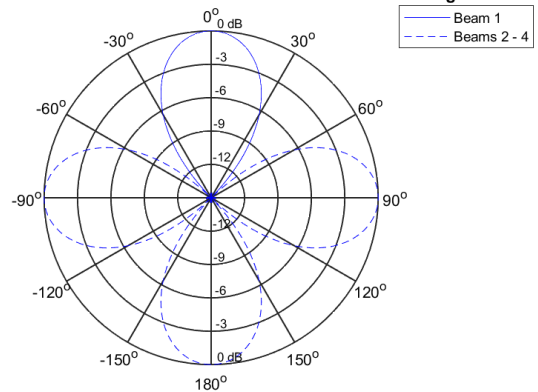
TCM-X Polar Responses at Center of Tracking Zones  
Patterns Shown at 1000Hz at an elevation of 30° from Ceiling



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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