DATA SHEET PARLÉ™ TCM-X AVB BEAMTRACKING™ CEILING MICROPHONE

The Parlé™ TCM-X is an AVB low-profile ceiling microphone for use in Tesira® systems. Comprising a network box and a ceiling microphone, each microphone includes Beamtracking™ technology with four 90-degree zones, providing full 360-degree coverage of the meeting space. The TCM-X microphone delivers the same level of performance as our other Beamtracking microphones in a sleek, unobtrusive design that mounts to the ceiling. The TCM-X actively tracks and intelligently mixes conversations from around the table, allowing farend participants to experience the conversation as they would a face-to-face meeting. Each network box has its own digital signal processing module and comes with an additional RJ-45 connector to add an optional TCM-XEX to the network box. A maximum of two microphones are permitted per network box (one TCM-X or TCM-XA with TCM-XEX). The TCM-X 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

- Low profile circular ceiling microphone that measures 5.90 inches (150 mm) in diameter
- Mounts directly to the ceiling to virtually disappear in room
- Beamtracking technology actively tracks and intelligently mixes conversations
- Four 90-degree zones for full 360-degree room coverage
- · Network box includes DSP for Beamtracking
- Single cable connection via category cable
- Beamtracking technology works out-of-box without any lobe aiming or room mapping

- Uses only one channel of AEC per microphone
- · 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
- Additional RJ-45 on network box for connection to a TCM-XEX microphone
- · 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® systems. The Beamtracking ceiling microphone shall be comprised of a ceiling mount microphone and a network box. The Beamtracking ceiling microphone shall utilize an AVB/TSN network via an RJ-45 connector for audio networking as well as software configuration and control. The Beamtracking ceiling mount microphone shall contain sixteen-element microphones, 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 signal processing of the Beamtracking ceiling microphone shall be configurable via the Tesira design software, including but not limited to: signal routing and mixing, equalization, filtering, dynamics, and delay, as well as control, monitoring, and diagnostic tools. The Beamtracking ceiling microphone shall offer simple installation and shall be mountable directly to the ceiling. The Beamtracking ceiling microphone shall be powered by PoE (IEEE 802.3at Class 3, 15.4W). The Beamtracking ceiling microphone shall be suitable for use in air handling spaces in accordance with UL 2043, and shall provide an additional RJ-45 connector to allow connection of one expander TCM-XEX microphone. 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-X.



PARLÉ TCM-X SPECIFICATIONS

CEILING MOUNT MICROPHONE

Microphone Technology: 16-Element Digital Array

Frequency Response (150 Hz - 16 kHz): ± 3dB

Polar Pattern: Active Beamformed

SNR (at 1kHz, 94dBSPL A-Weighted): > 76dB

Maximum SPL (at < 1% THD): 109dB

Dynamic Range (THD+N < 1%): 92dB, A-Weighted

Mute Indicator (Green/Red LED)

Digital Interface: Custom/Proprietary

Connector: RJ-45 (cable length

10 feet [3 meters])

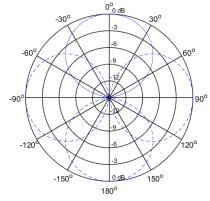
Overall Dimensions

Indicators:

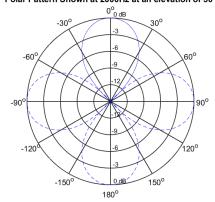
Height (excluding ceiling mount):0.6 inches (15 mm) **Diameter:**5.90 inches (150 mm)

Weight: TB

BEAMFORMING RANGE Polar Pattern Shown at 1000Hz at an elevation of 30°



BEAMFORMING RANGE Polar Pattern Shown at 2000Hz at an elevation of 30°



NETWORK BOX

Connectors: Three RJ-45: one between TCM-X

network box and switch, one between the network box and microphone, the other

between TCM-X network box

and TCM-XEX

Power: PoE (IEEE 802.3at Class 3, 15.4W)

Indicators: Power Indicator

(Green/Yellow/Red LED)

Digital Interface: Custom/Proprietary

Max Distance Between Devices: 330 feet (100 meters) from

switch to TCM-X network box; 33 feet (10 meters) between

TCM-X network box and TCM-XEX

Overall Dimensions

 Height:
 2 inches (51 mm)

 Width:
 7 inches (178 mm)

 Depth:
 7.125 inches (181 mm)

 Weight:
 2.4 lbs (1.1 kg)

Environmental

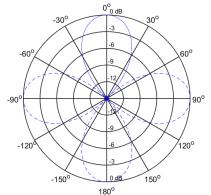
Ambient Operating

Temperature Range: 32 - 104° F (0 - 40° C) **Humidity:** 0-95% relative humidity (non-condensing) **Altitude:** 0-10,000 ft (0-3000m) MSL

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

BEAMFORMING RANGE Polar Pattern Shown at 4000Hz at an elevation of 30°



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