DATA SHEET PARLÉ™ TCM-1A AVB BEAMTRACKING™ PENDANT MICROPHONE & POE+ AMPLIFIER

The Parlé™ TCM-1A is an AVB pendant microphone and PoE+ (IEEE 802.3at Class 4, 30W) amplifier for use in Tesira® 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 TCM-1A microphone actively tracks and intelligently mixes conversations from around the table, allowing farend conference participants to experience the conversation naturally. The 2-channel PoE+ amplifier includes an internal limiter, selectable power, and is also capable of operating in a burst mode to handle peak signals, providing up to 40 watts (4 Ω load) or 30 watts (8 Ω load) per channel. The TCM-1A comes with its own digital signal processing module for Beamtracking, and each plenum box comes with an additional RJ-45 connector for daisy-chain connections. A maximum of three microphones are permitted per daisy chain (one TCM-1 or TCM-1A required, plus up to two TCM-1EX). The TCM-1A is well suited for a variety of room types and sizes that require high-quality audio solutions, such as conference rooms or council chambers.

FEATURES

- Beamtracking technology actively tracks and intelligently mixes conversations
- Plenum box includes DSP for Beamtracking and a PoE+ amplifier
 - Two channels; 4 watts continuous power per channel
 - Burst mode to handle peak signals in accordance with ANSI/ CTA-2006-B; supports up to 40 watts (4 Ω load) or 30 watts (8 Ω load) per channel
 - Software-selectable power vs. channel count
 - Includes internal limiter function
- Three 120-degree zones for 360 degrees of coverage

ARCHITECTS & ENGINEERS SPECIFICATIONS



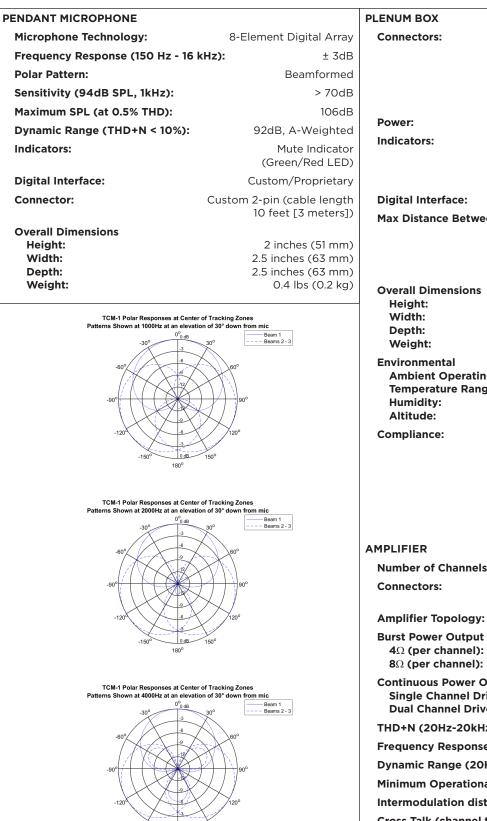


- Pendant microphone available in either white or black
- User-adjustable mic height
- Optional tile bridge mounting accessory available
- Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
- Additional RJ-45 for daisy-chain connection to a TCM-1EX microphone (maximum of three mics per daisy chain; one TCM-1 or TCM-1A and two TCM-1EX)
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty

The Beamtracking[™] pendant microphone shall be designed exclusively for use with Biamp[®] Tesira[®] systems. The Beamtracking pendant microphone shall be comprised of a pendant microphone and plenum box. The Beamtracking pendant microphone shall utilize an AVB/ TSN network via an RJ-45 connector for audio networking as well as software configuration and control. The Beamtracking pendant microphone shall contain an eight-element digital microphone array, and shall provide three 120-degree zones for 360 degrees of coverage. The Beamtracking pendant 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 pendant 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 plenum box of the Beamtracking pendant microphone shall provide two output channels of 4 watts of continuous power per channel into a 4-ohm load and an 8-ohm load. The plenum box of the Beamtracking pendant microphone shall also provide burst power output of 40 watts per channel into a 4-ohm load, and 30 watts per channel into an 8-ohm load in accordance with ANSI/ CTA-2006-B. The Beamtracking pendant microphone shall offer simple installation and microphone height adjustment, and shall be mountable on a ceiling tile or in open-ceiling environments. The Beamtracking pendant microphone shall be powered by PoE+ (IEEE 802.3at Class 4, 30W). The Beamtracking pendant 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 up to two additional expander TCM-1EX microphones to be daisy-chained together. The Beamtracking pendant microphone shall be CE marked, UL listed, and compliant with the RoHS directive. Warranty shall be five years. The Beamtracking pendant microphone shall be Parlé™ TCM-1A.



PARLÉ TCM-1A SPECIFICATIONS



additional TCM-1EX plenum box; 2-pin 3.5 mm Phoenix connector to TCM-1A microphone PoE+ (IEEE 802.3at Class 4, 30W) **Power Indicator** (Green/Yellow/Red LED) Amp Status Indicator (Green/Yellow/Red LED) Custom/Proprietary Max Distance Between Devices: 330 feet (100 meters) from switch to TCM-1A plenum box; 33 feet (10 meters) for daisy-chained connections between TCM plenum boxes 2 inches (51 mm) 7 inches (178 mm) 7.125 inches (181 mm) 2.4 lbs (1.1 kg) **Ambient Operating** 32 - 104° F (0 - 40° C) **Temperature Range:** 0-95% relative humidity (non-condensing) 0-10,000 ft (0-3000m) MSL 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 Number of Channels: 2 4-pin 5.08 mm Phoenix connectors Class D Burst Power Output (per ANSI/CTA-2006-B @ 1kHz): 40W 30W **Continuous Power Output:** Single Channel Driven, (4 Ω , 8 Ω): 8W Dual Channel Driven (4Ω , 8Ω): 4W THD+N (20Hz-20kHz, at continuous power): < 0.3% Frequency Response (20Hz-20kHz): ± 1dB Dynamic Range (20Hz-20kHz BW): > 85dB **Minimum Operational Load:** 4Ω Intermodulation distortion (SMPTE): < 0.3% Cross Talk (channel to channel @ 1kHz): < -90dB

Two RJ-45: one between TCM-1A

plenum box and switch, the other

between TCM-1A plenum box and

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