

ARCHITECT'S SPECIFICATION

The round ceiling mounted beamforming microphone array shall be designed for fixed installation in medium to large conference rooms. It shall be suited for AV conferencing, voice lift and camera tracking applications. Several mounting accessories shall be available, including a flush-mount installation kit, a ceiling suspension kit and an outer housing for surface mounting. VESA mounting shall be possible with VESA MIS-D housing threads in 100 mm distance.

The microphone array shall consist of 15 pre-polarized condenser microphone capsules (Sennheiser KE 10) and shall use beamforming technology that automatically focuses on whoever is speaking in the room and always follows the person around the room. A threshold for the detection shall be adjustable. Live monitoring of the horizontal and vertical angle of the speaker position shall be available in the control software (Sennheiser Control Cockpit) and via media control protocol for 3rd party camera control.

The microphone array shall have a Dante™ interface for digital audio output, supporting both single-cable (PoE + Control + Dante) and split mode cabling (PoE + Ctrl / Dante) on a second RJ45 port. The microphone array shall also feature a 3-pin terminal for analog audio output, which is compatible with Phoenix contact MCVW 1.5-3-ST-3.81 connectors. In addition, one of the RJ45 Ethernet sockets shall support network control and easy configuration and monitoring using the Sennheiser Control Cockpit control software. The RJ 45 Ethernet socket shall also support Power over Ethernet, using the PoE IEEE 802.3af Class 3 for single unit or PoE IEEE 802.3at Class 4 when cascaded. Up to three microphones shall be supported in daisy-chain cabling mode.

802.1X network configuration shall be possible via SSH protocol.

The microphone array shall feature a reset button for restoring the factory settings.

The microphone sensitivity shall be 0 dBV/Pa (1020 mV/Pa). The maximum sound pressure level shall be 98 dB SPL. The dynamic range shall be 81 dB(A).

The microphone dimensions shall be 407 mm (16.02") diameter and 46mm (1.81") height, weight shall be approx. 4.9 kg (10.8 lbs).

The operating temperature shall range from 0 °C to +40 °C (+32 °F to +104 °F). The storage temperature shall range from -10 °C to 60 °C (14 °F to 140 °F). The microphone array shall be certified for IEC/EN 62368-1 including UL 2043 testing and compliance.

The microphone shall be available in either black or white color while the detachable front-plate and the back housing shall be paintable to match interior designs.

The microphone array shall be the Sennheiser TeamConnect Ceiling Medium (TCC M).