

## ARCHITECT'S SPECIFICATION

### Sennheiser TeamConnect Ceiling M Plus (TCC M Plus)

#### Applications

The microphone shall be a ceiling-mounted microphone array utilizing patented Dynamic Beamforming technology and designed for unified communications, AV conferencing, TruVoiceLift, camera tracking, and room automation applications.

The microphone shall be suitable for deployment in collaboration spaces, meeting rooms, classrooms, training spaces, hybrid working and learning environments requiring reliable speech intelligibility, simplified integration, centralized device management, and enterprise-grade security.

#### Coverage

The microphone shall utilize premium condenser microphone capsules engineered and manufactured in Germany together with patented Dynamic Beamforming technology to provide consistent speech intelligibility across the coverage area without requiring manual beam steering or configuration.

Reliable voice pickup shall be supported up to 4.3 m (14 ft), enabling reliable voice capture across spaces up to 60 m<sup>2</sup> (646 ft<sup>2</sup>).

The microphone shall feature Intelligent Noise Control technology to reduce the impact of distracting background noise and enhance speech intelligibility for remote and in-room participants.

The microphone shall support configurable Priority Zones and Exclusion Zones, enabling optimization of speech pickup for a wide variety of room layouts and collaboration scenarios.

The microphone shall provide real-time speaker position data for camera tracking, room automation, and intelligent room control applications.

#### Connectivity & Integration

The microphone shall support Dante audio networking for digital audio transport within professional AV environments.

The microphone shall support native integration with supported third-party AV platforms through PartnerLink technology, reducing deployment complexity and simplifying commissioning workflows.

The microphone shall provide direct integration with the Q-SYS ecosystem, enabling streamlined configuration, monitoring, control, and interoperability within Q-SYS-based AV environments.

The microphone shall provide an analog audio output for connection to legacy audio systems, DSPs, conferencing platforms, and other audio infrastructure requiring analog signal distribution.

The microphone shall support Power over Ethernet (PoE) for power, control, and audio transport.

The microphone shall support Single Cable Mode, enabling digital audio transport, control, and power delivery over a single network connection.

The microphone shall support integrated network daisy-chain and PoE connectivity, enabling simplified installation and reduced network infrastructure requirements when deploying multiple microphones within the same environment.

The microphone shall provide an open SSCv2 API for integration with third-party control systems, room automation platforms, camera tracking solutions, and enterprise management systems.

## **Management**

Configuration, monitoring, and firmware management shall be available through a browser-based Local User Interface (LUI) without requiring dedicated software installation.

The microphone shall support centralized cloud-based device management, monitoring, configuration, firmware updates, and fleet administration through the DeviceHub platform.

The microphone shall support an integrated standby mode to reduce power consumption while maintaining network connectivity and remote management capabilities.

## **Security**

The microphone shall support secure device administration through authenticated user access and dedicated user roles, such as for the 3rd party access.

The microphone shall deploy a brute force prevention mechanism to safeguard against unauthorized access attempts.

The microphone shall support encrypted communication for device management, monitoring, and cloud connectivity.

The microphone shall support secure firmware update mechanisms to help maintain device integrity throughout its lifecycle.

The microphone shall support secure cloud-based device management through the DeviceHub platform.

The microphone shall support Dante Domain Manager, Dante Director and Dante media encryption to help secure audio transmission across networked AV deployments.

The microphone shall support authenticated audio streams to secure audio transmission through the Sennheiser PartnerLink integration.

The microphone shall support multiple, configurable network ports to allow for network isolation.

The microphone shall support secure by default principles, disabling the 3<sup>rd</sup> party interface, cloud connectivity and audio inputs in the default factory state.

The microphone shall not store personal data.

## **Physical Characteristics & Mounting**

The microphone shall be available in round and square form factors. Square variants shall support standard ceiling tile dimensions of 2 ft and 600 mm.

The microphone shall be available with dedicated mounting bundles supporting flush-mount, suspended, and surface-mount installation methods.

The microphone shall support VESA MIS-D mounting with a 100 mm mounting pattern.

The microphone shall be available in black or white finishes. Visible components shall be paintable to accommodate architectural, ceiling, and interior design requirements.

## **Compliance**

The microphone shall be certified in accordance with IEC/EN 62368-1 and shall comply with UL 2043 requirements for installation in environmental air handling spaces (plenums).

The microphone shall be compliant with the U.S. Trade Agreements Act (TAA) requirements.

**Product Identification**

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