TeamConnect Bar M
All-In-One Device for Mid-Sized Collaboration Rooms

The TeamConnect Bar M is the most flexible all-in-one device for mid-sized meeting rooms and collaboration spaces. The TC Bar M features 6 microphones and 4 speakers to deliver Trusted Sennheiser Audio Quality to every meeting.

The TC Bar M is a true problem solver with benefits like easy setup, brand agnostic integration, easy management & control, high video quality, security and sustainability.

FEATURES

- **Plug and Play Device**
  Quick start via USB cable
- **Integrated Beamforming Technology**
  Freedom of movement and seamless transition among presenters
- **Flexible Extensions**
  Using Dante for adding extension mics and/or a 2nd external USB camera
- **High Video Quality**
  4K Ultra HD camera equipped with advanced AI features
- **Full-Range Stereo Speakers**
  Natural speech and outstanding intelligibility
- **Built-In DSP**
  Automatically optimizes room acoustics
- **Multiple Mounting Options**
  Wall Mount, VESA Mount, Tabletop or Freestanding
- **Autoframing and Person Tiling**
  Features to clearly see everyone in the room
- **Control Management**
  Full remote-control access via Sennheiser Control Cockpit
- **Brand Agnostic Integration**
  Certifications pending for 3rd party media control systems (Barco, Crestron, Extron, Q-Sys) and platforms (Microsoft Teams, Zoom, Tencent, etc.)
- **Advanced Security Features**
  Encrypted control communication and password protected by default for secure content transmission

DELIVERY INCLUDES

- TeamConnect Bar M
- Mounting Bracket
- Drilling Template
- Power Supply Unit + Power Cord
- Remote Control (incl. batteries, bracket & storage)
- Magnetic Lens Cap
- High-speed HDMI®/™ cable with Ethernet
- USB-C to USB-C Cable
- Screws
- Quick Guide
- Safety Guide with manufacturer's declarations

ACCESSORIES

Description	Art. No.
Mounting Kit	700117
VESA Mounting Kit	700118
RC TC Bar (Remote Control)	700121
Magnetic Lens Cap	700123
Power Supply	700131
USB-C to USB-C-Cable (3 m)	700312
High-Speed HDMI®/™ cable with Ethernet	700120

SYSTEM REQUIREMENTS

- Windows®: 10 or later
- macOS®:   13 or later
- Android™:   11 or later
- Installed DisplayLink driver on used operating system

CONTROL SOFTWARE

Sennheiser Control Cockpit

Free download at:

www.sennheiser.com/control-cockpit-software

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SPECIFICATIONS

General

Dimensions (L x W x H)	750 x 71 x 95 mm
Weight	2.5 kg
Operating temperature range	0 °C to 40 °C 32 °F to 104 °F
Storage temperature range	-25 °C to 70 °C -13 °F to 158 °F
Relative humidity operation	0 to 75 %, non-condensing
Relative humidity storage	0 to 95 %, non-condensing
DC IN	18 V ⎓, max. 4 A
Max. power consumption	72 W
Voltage range PoE (PSE)	44.0 - 57.0 V ⎓ (IEEE 802.3af Type 1, PoE)

Power State Information

Power State Information Standby Mode	≤ 0.50 W (Entered after < 2.5 hours with no activity on any network port)
Networked Standby (Ethernet port is in use)	≤ 7.00 W (Entered after < 20 minutes of inactivity)
Networked Standby (all other ports)	≤ 2.00 W (Entered after < 20 minutes of inactivity)

Interfaces

HDMI out 1	HDMI®
HDMI out 2	HDMI®
USB-C	USB 3.1 (Gen 1)
USB-A power output	USB 3.1 (Gen1) 5 V ⎓, max. 900 mA
Ethernet	2 x 1000/100/10 Mbit/s (RJ45) **Note:** Only use network cables with the standard CAT5e (F/STP) or better.
DC IN dimension	5.5 x 2.1 x 10.5 mm

Wi-Fi

Standard	IEEE 802.11a /b /g /n /ac
Transmission system	SISO (Single-In, Single-Out)
Frequency ranges (max. RF output power)	2412 MHz – 2472 MHz (max 20 dBm RF power) 5150 MHz – 5350 MHz (max. 23 dBm RF power) 5470 MHz – 5725 MHz (max. 23 dBm RF power) 5725 MHz – 5850 MHz (max. 14 dBm RF power)
Modulation	64QAM, 16QAM, QPSK, BPSK, CCK, DQPSK, DBPSK

INTERFACES AND CONNECTIONS
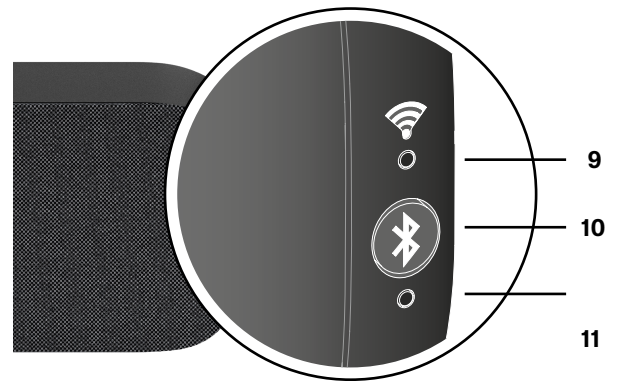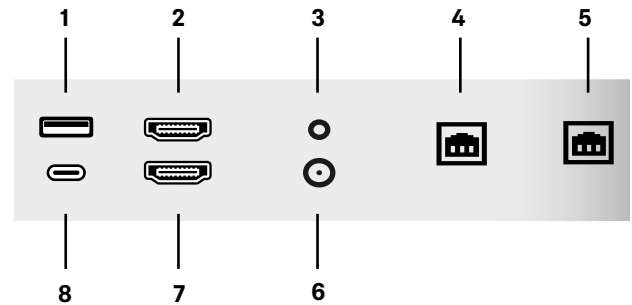
1	**USB-A**	USB-A Connector
2	**HDMI I**	HDMI out Connector I
3	**Reset**	Factory Reset
4	**Ethernet I**	Ethernet PoE (PSE) / RJ45 / Dante
5	**Ethernet II**	Ethernet PoE (PSE) /RJ45 / Dante
6	**DC**	DC IN
7	**HDMI II**	HDMI out Connector II
8	**USB-C**	USB-C Connector
9	**Wi-Fi LED**	LED for Wi-Fi Connection Status
10	**BT Button**	Bluetooth® Pairing Intialization
11	**BT LED**	Bluetooth® Pairing LED

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Bluetooth® Technology

Version	5.1
Transmission frequency	2402 MHz - 2480 MHz
Modulation	GFSK, π/4 DQPSK, 8DPSK
Profiles	A2DP, HFP, AVRCP
Max. RF output power	10 dBm
Codec	SBC

Loudspeaker

Number of speakers	4 full range loudspeakers with passive radiator
Dimensions	50 mm (2")
Frequency response	100 Hz - 18 kHz
THD at max. output	< 5 %
Amplifier	Class-D
Max. SPL (output)	84 dB SPL
Total Audio Power (RMS/PEAK)	20 W / 40 W

Microphones

Transducer principle	MEMS
Pick-up pattern	Beamforming Array
Number of microphone capsules	6
Frequency range	100 Hz to 14.5 kHz
Pickup range	4.5 m
Dynamic range	69 dB (A)

Camera

Resolution	UHD 2160p (4K), 1080p, 720p, 960×480, 848×480, 640×480, 640×360, 432×240

Zoom
    certified
    optional
	1.5x digital (Microsoft Teams)
	5x digital

Technology	ePTZ
Diagonal field of view	120°
Horizontal field of view	115°

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SPECIFICATIONS

RC TC Bar

Transmission	infrared
Range	approx. 6 m
Power Supply	2 AAA batteries, 1.5 V (zinc-carbon battery)
Dimensions (L x W x H)	126 x 40 x 14 mm
Weight	
Remote Control	60 g (incl. batteries)
Holder	160 g
Temperature range	-10 °C to 50 °C
	14 °F to 122 °F

Mounting Kit

Dimensions (L x W x H)	268 x 66 x 86 mm
Weight	ca. 520 g

VESA Mounting Kit

Screen size	27" - 78"
Max. extension	845 mm (33")
Weight	2.6 kg (57 lbs)
Max. load	20 kg (44 lbs))

Power Supply TC Bar M

Dimensions (L x W x H)	148 x 60 x 34 mm
Weight	600 g
Input (AC)	100-240 V~, 50/60 Hz, 1.5 A
Output (DC)	18 V ⎓, max. 5 A, 90 W
AC plug type	3-pin
DC out dimension	5.5 x 2.1 x 11 mm
Relative humidity operation	20 to 98 %, non-condensing
Relative humidity storage	20 to 98 %, non-condensing
Operating temperature	0 °C to 40 °C 32 °F to 104 °F
Storage temperature	-40 °C to 80 °C -40 °F to 176 °F
Relative humidity operation	20 to 98 %, non-condensing
Relative humidity storage	20 to 98 %, non-condensing
Operating temperature	0° C to 40 °C 32 °F to 104 °F
Storage temperature range	-40 °C to 80 °C -40 °F to 176 °F
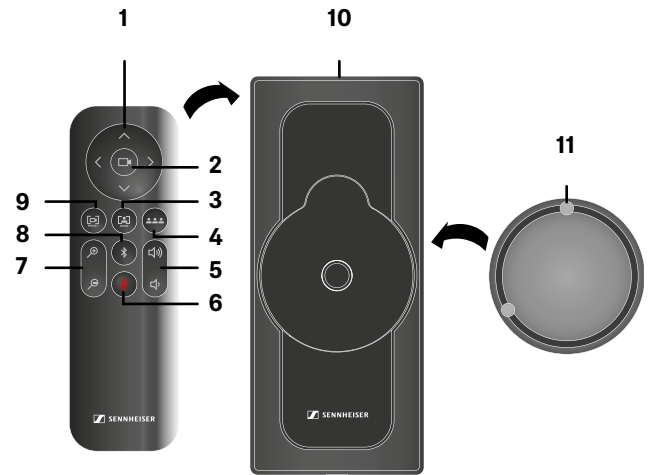
1	Camera Pan & Tilt
2	Camera Home View
3	Auto Framing Mode
4	Person Tiling Mode
5	Volume Controls
6	Mute ON/OFF
7	Camera Zoom
8	Bluetooth® Pairing
9	Camera Preset
10	Bracket & Storage
11	Magnetic Lens Cap
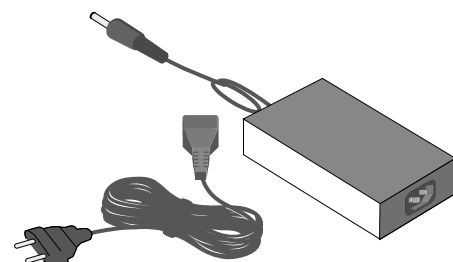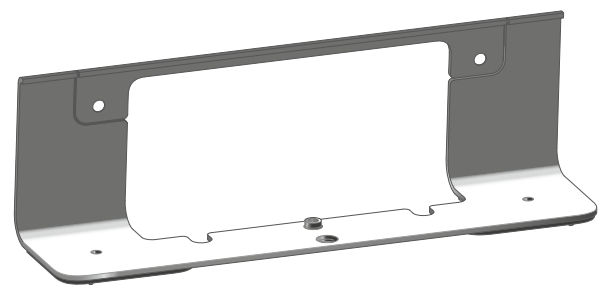
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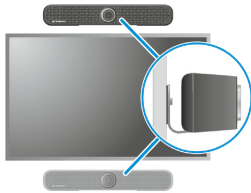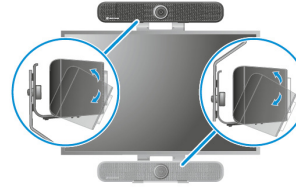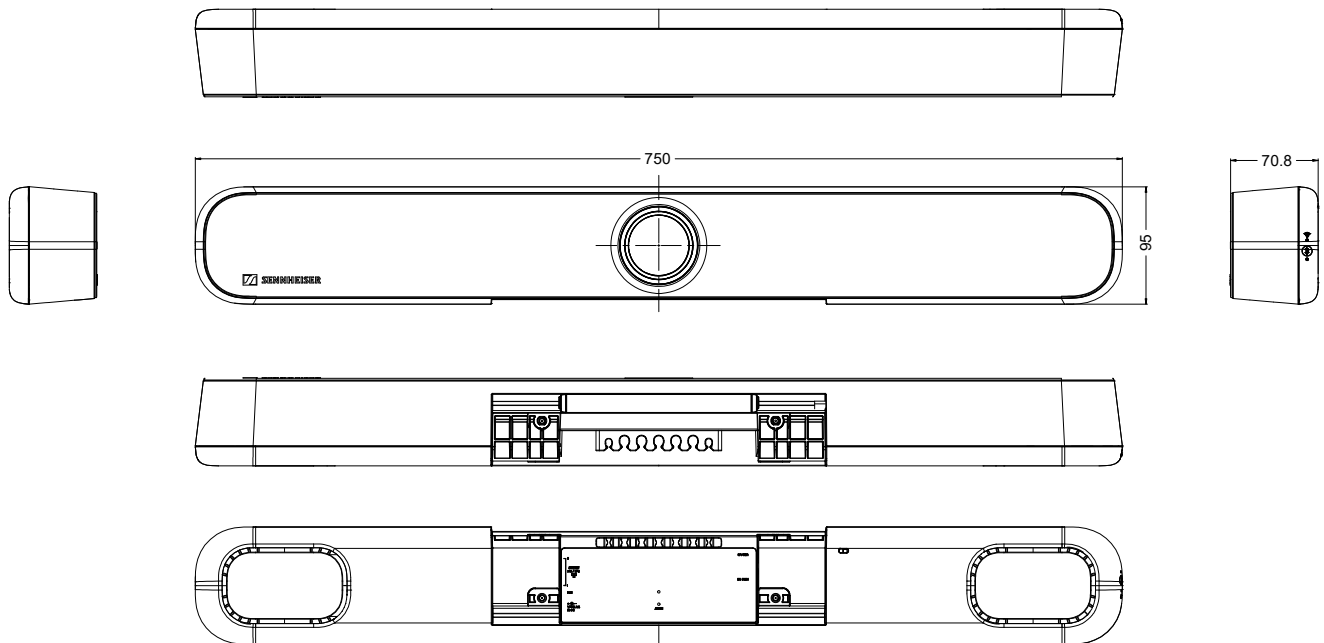
INSTALLATION TYPES

Wallmount

Table Top

VESA Mount

Free Standing

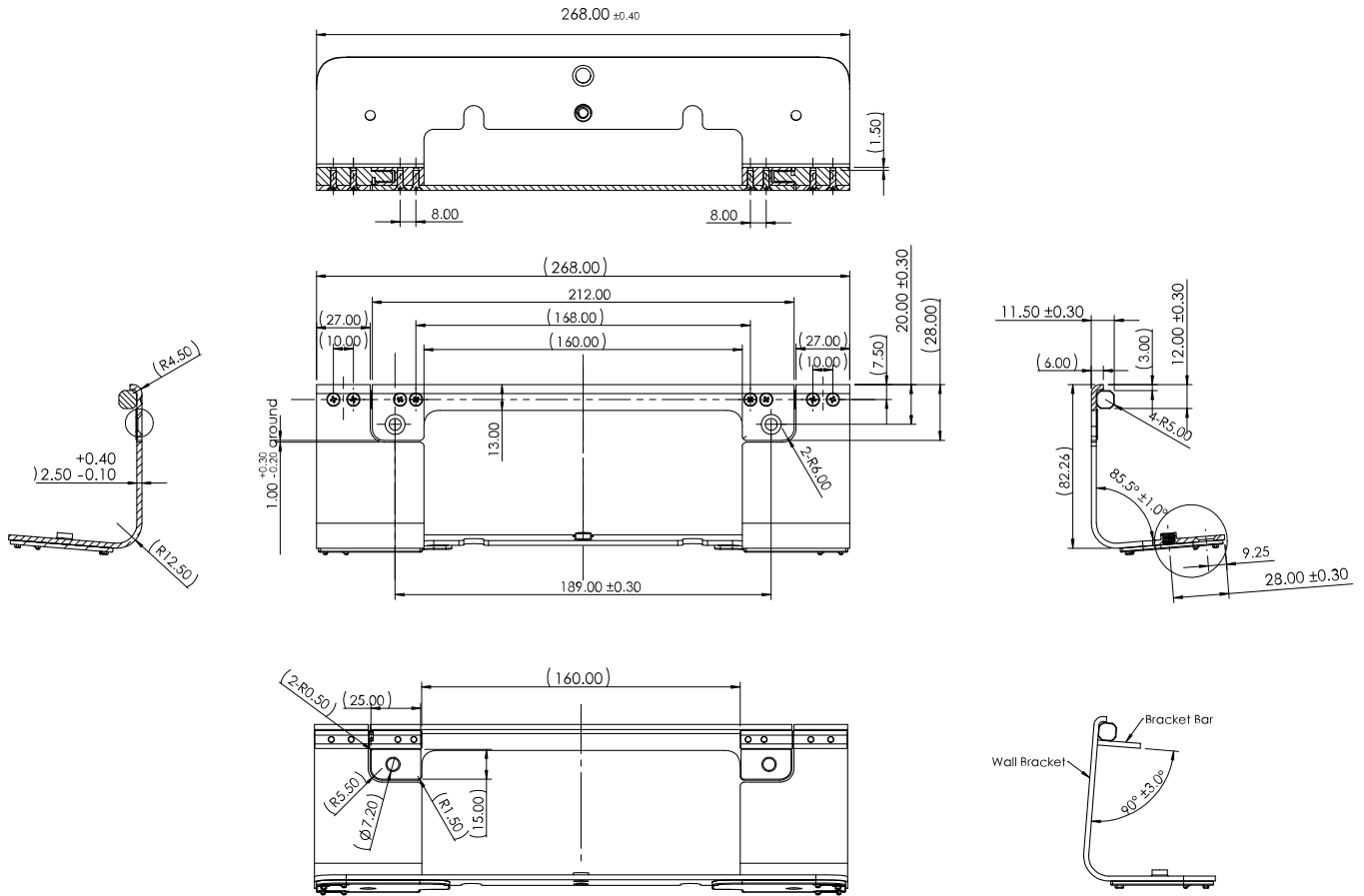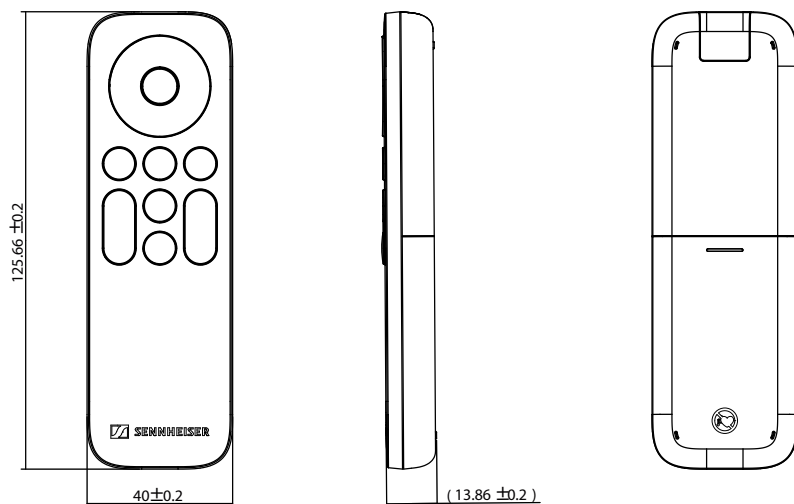## DIMENSIONS TC BAR M

750

95

70.8

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DIMENSIONS MOUNTING BRACKET

DIMENSIONS REMOTE CONTROL

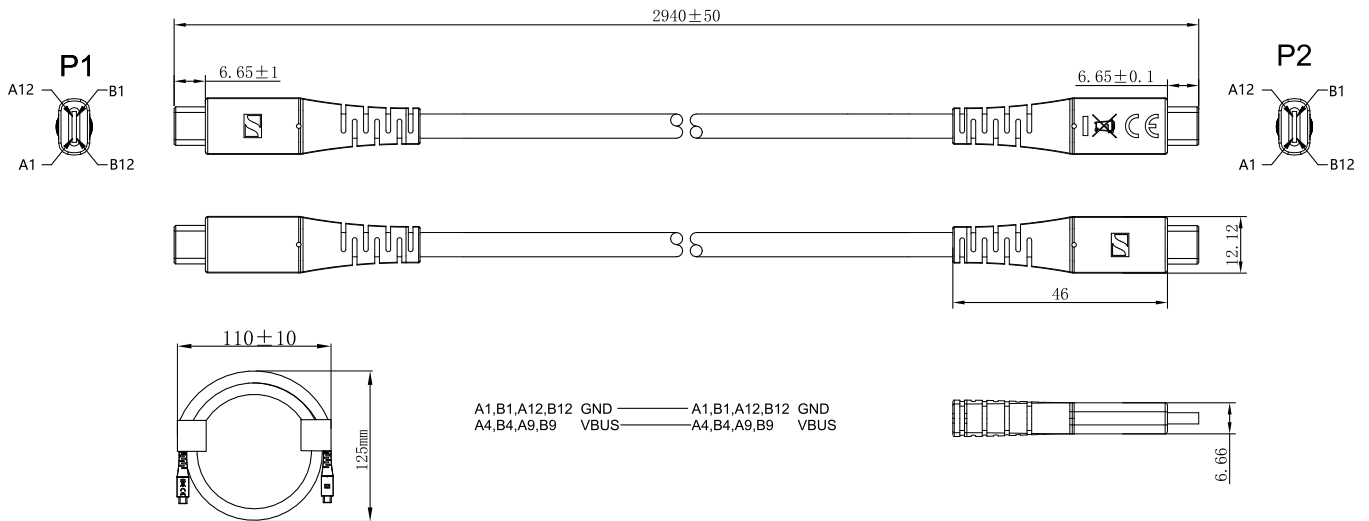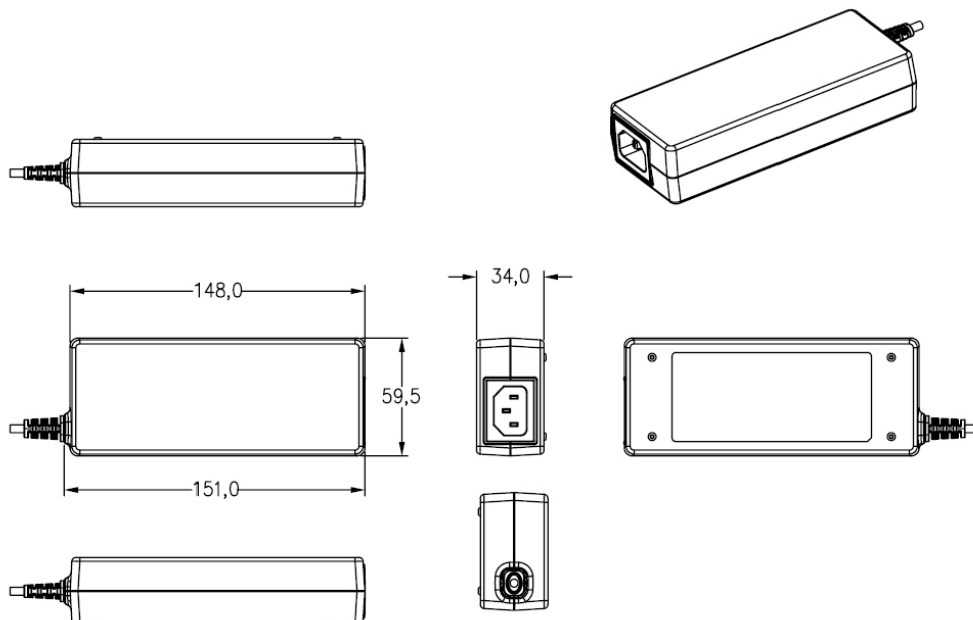# TeamConnect Bar M
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DIMENSIONS USB-C CABLE

A1,B1,A12,B12 GND ——— A1,B1,A12,B12 GND
A4,B4,A9,B9 VBUS ——— A4,B4,A9,B9 VBUS

DIMENSIONS POWER SUPPLY

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ARCHITECT´S SPECIFICATION

All-In-One-Conferencing Device (Plug-and-Play)
The TC Bar M shall be designed as an all-in-one conferencing system that supports video and audio streaming for mid-sized conference rooms. The plug-and-play device is intended to fit in any room, supporting different installation types depending on space constraints, and is easily connected via a USB connection.

The TC Bar M features an in-built DisplayLink technology and does not require an additional HDMI cable from the PC to the TV. With an up-to-date DisplayLink driver, multiple monitors can be quickly and easily connected to a PC via a simple USB-C connection.

Only one bracket for all mounting accessories is to be available, which supports installation types as wall mounting, tabletop and freestanding. For suspensions on TVs only one VESA mount should be available for all common TV sizes up to 65".

Beamforming Technology
The TC Bar M consists of six beamforming MEMS microphone capsules which automatically focus on the person speaking in the room. Depending on the direction from which a speaker is detected, the beam that can best detect the speaker is selected. If another speaker from another direction is detected the algorithm will switch beams automatically. One Priority Zone and up to three Exclusion Zones shall be adjustable in the Sennheiser Control Cockpit software at the same time.

Flexible Extensions
The TC Bar M has two Ethernet RJ45 sockets for network control with the Sennheiser Control Cockpit software and for using Dante with regard to the extension with additional microphones and/or a 2nd external USB camera in the room. In addition, the RJ45 socket allows the device to be controlled via a third-party application and to supply another device via Power over Ethernet in accordance with the IEEE 802.3at Type 1, PoE standard.

Bring-Your-Own-Device Philisophy
The TC Bar M should enable fast and uncomplicated connection to conference-capable devices, regardless of the installation type. The USB port allows to easily connect to 3rd party media control systems (Barco, Crestron, Extron, Q-Sys) and platforms (Microsoft Teams, Zoom, Tencent, etc.) and be ready to go. The TC Bar M is equipped with Bluetooth® and Wi-Fi technology for wireless remote control of the TC Bar M via control systems and mobile devices.

High Video Quality
The TC Bar M shall be equipped with a 4K Ultra HD camera to achieve high video quality. The camera provides advanced AI functions and supports features such as autoframing and person tiling to clearly identify all people in the room.

Full-Range Stereo Speakers
The TC Bar M features four full-range stereo speakers that provide natural speech reproduction and excellent intelligibility. An integrated DSP is designed to automatically optimize the acoustics in the room.

Advanced Security Features
The TC Bar M shall be equipped with advanced security features to ensure an encrypted control communication by default. The TC Bar M should be password protected for secure content transmission and shall be claimed via Sennheiser Conrol Cockpit for activating the full device control.

Control Management
The TC Bar M is to be fully remote controllable via the Sennheiser Control Cockpit software. The software allows adjustment of all available settings of the TC Bar such as audio, zones, device, network and access.