



TeamConnect Ceiling 2

Ceiling microphone array (Firmware \geq 1.8.4)

FEATURES

- Patented automatic dynamic beamforming
- TruVoicelift
- 28 Electret condenser capsules, made in Germany
- Perfect speech intelligibility
- Dante or Analog Output
- PoE
- Certified for: MS Teams, Zoom, DingTalk and Tencent
- Exclusion Zones
- Priority Zone
- Camera Control via talker position data
- IEEE 802.1x
- 5 years warranty (with registration)

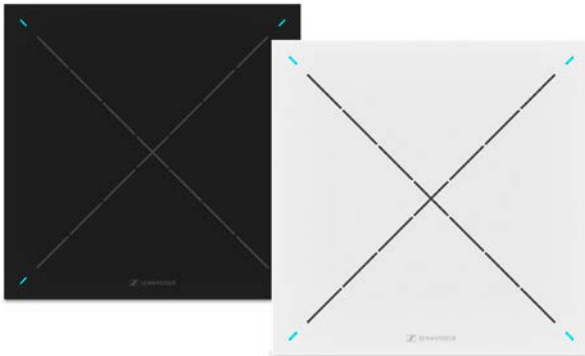
With a coverage of up to 80 m², there's still no better solution for larger meeting rooms and lecture or collaboration spaces than our industry-leading TeamConnect Ceiling 2 (TCC 2) ceiling microphone.

With its functional square form the TeamConnect Ceiling 2 gracefully integrates into the design of modern meeting rooms – simply by replacing a ceiling tile.

Like the TeamConnect Ceiling Medium, the TCC 2 is a real problem-solver that allows cable free tables und flexible furniture arrangement, while offering all of the TeamConnect Ceiling Solutions benefits like Trusted Sennheiser Audio Quality, efficient setup, brand agnostic integration, simple management and control, a sleek design and a sustainable impact.



Sennheiser
Control Cockpit



ACCESSORIES

Article	Description	Art. no.
SL CM FB	Ceiling mounting frame	506846
SL CM EB US	Extension brackets (for 2 ft ceiling grid)	508528
SL CM EB 625	Extension brackets (for 625 mm ceiling grid)	508290
SL CM SK	Ceiling suspension kit	508291
SL CM VB	VESA adapter	508620

DELIVERY INCLUDES

- TeamConnect Ceiling 2 ceiling microphone array
- 3-pin Phoenix Connector (3.81 mm)
- 8 self-adhesive rubber feet
- 2 eye bolts (M4x10)
- Instruction manual
- Supplement sheet with manufacturer declarations

CONTROL SOFTWARE

Sennheiser Control Cockpit



free download at:

www.sennheiser.com/control-cockpit-software



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PORT-INFORMATION

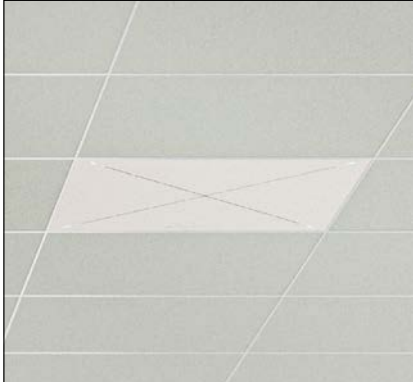
Application layer

Port	Protocol	Service	Product
443	HTTPS	Web UI	Sennheiser Control Cockpit
443	HTTPS	SSC update service	Sennheiser Control Cockpit

Transport layer

Port	Protocol	Service	Product
22	SCP/SSH	Certificate management	TeamConnect Ceiling 2
22	SCP/SSH	SCP Firmware update	TeamConnect Ceiling 2
45	UDP/TCP	SSC Sound Control Protocol	TeamConnect Ceiling 2
5353	UDP	mDNS (Multicast 224.0.0.251)	TeamConnect Ceiling 2

INSTALLATION VARIANTS

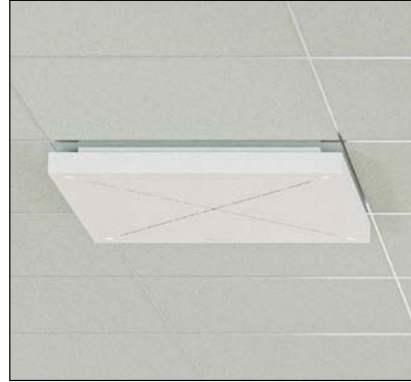


Variant 1

installed flush in a dropped/coffered ceiling (600 x 600 mm)

Accessories:

SL CM EB US (590 mm to 2 ft) or
SL CM EB 625 (590 mm to 625 mm)
angle brackets



Variant 2

mounted directly below the ceiling

Accessories:

SL CM FB Ceiling mounting frame



Variant 3

suspended from the ceiling

Accessories:

SL CM SK Ceiling suspension set



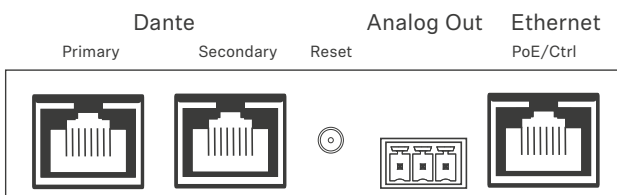
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SPECIFICATIONS

Product properties		Acoustic properties	
Dimensions (L x B x H)	590 x 590 x 43 mm	Transducer principle	Pre-polarized condenser microphone
Weight	5670 g (12.5 lbs)	AF frequency response	160 Hz - 18,000 Hz
Audio Output	1 x 3-pin terminal (fits Phoenix contact MCVW 1.5-3-ST-3.81) 2 x Digital Dante Network Audio (RJ-45 Primary and Secondary)	Sensitivity	0 dBV/Pa (988 mV/Pa)
Ethernet / Control	1 x RJ-45 Ethernet Port for PoE power supply and data/control communication	Signal-to-noise ratio	83 dB (A)
Supply voltage	44 – 57 V DC PoE IEEE 802.3af Class 3	Latency	4 ms
Power consumption	max. 8.8 W	Equivalent noise level	11 dB (A)
Safety certification	UL 62368 certification (including UL 2043 testing and compliance)	Number of KE 10-237 mikrofon capsules	28
		Pick-up pattern	Beam Pattern
		Max. sound pressure level	104 dB SPL
		Dynamic range	93 dB (A)
Ambient conditions			
Temperature	Operation: 0 - 40°C (32 - 104 °F) Storage: -10 - 60°C (14 - 140 °F)		
Relative air humidity	20 - 95 %, non-condensing		

CONNECTIONS AND OPERATING ELEMENTS



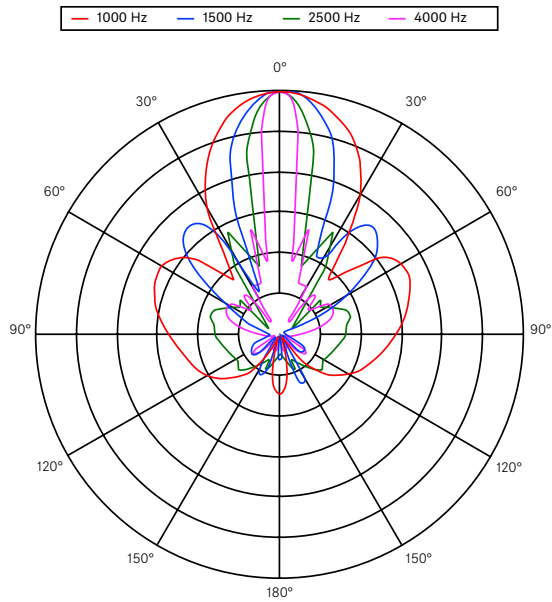
Dante	Dante™ interface with two RJ 45 sockets Primary and Secondary
Reset	Factory reset switch
Analog Out	3-pin terminal for analog audio out
Ethernet	RJ 45 socket for network control and PoE



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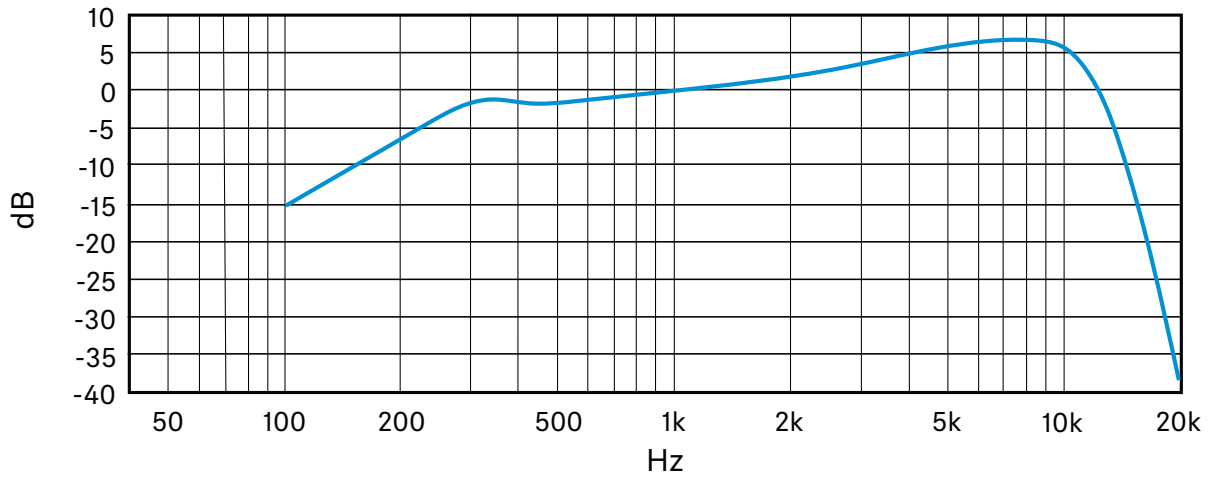
Ceiling microphone array (Firmware \geq 1.8.4)

POLAR PATTERN



FREQUENCY RESPONSE

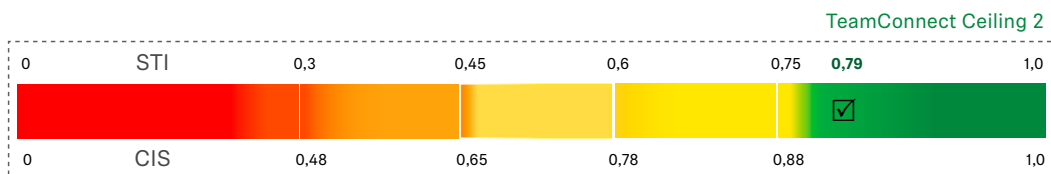
Frequency response measured directly on-axis at a distance of 2.90 m.



SPEECH TRANSMISSION INDEX (STI)

Room conditions: RT60 = 430 ms @ 1 kHz
at room noise level (weighted) = 40 dB(A) SPL (according to IEC 60268-16)

STIPA: 0.79



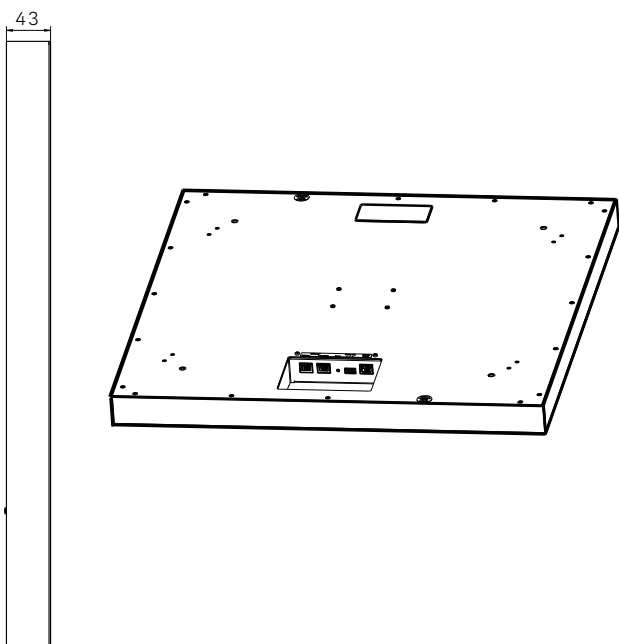
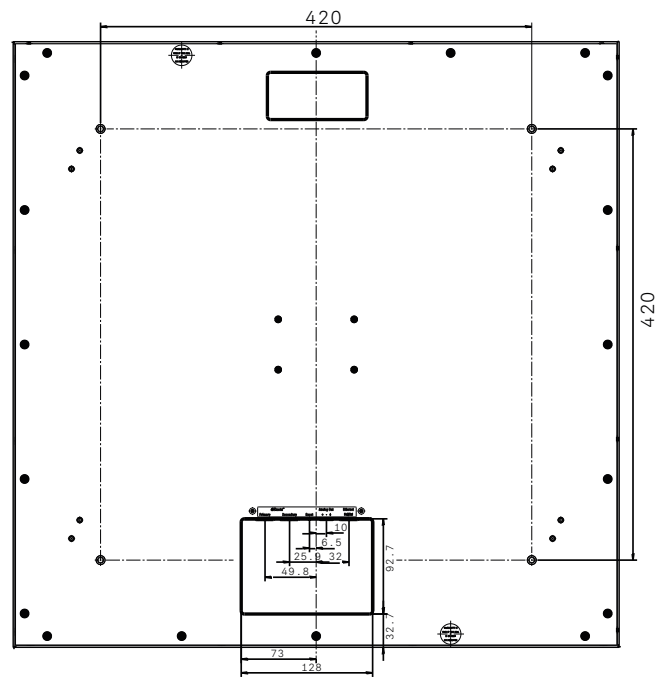
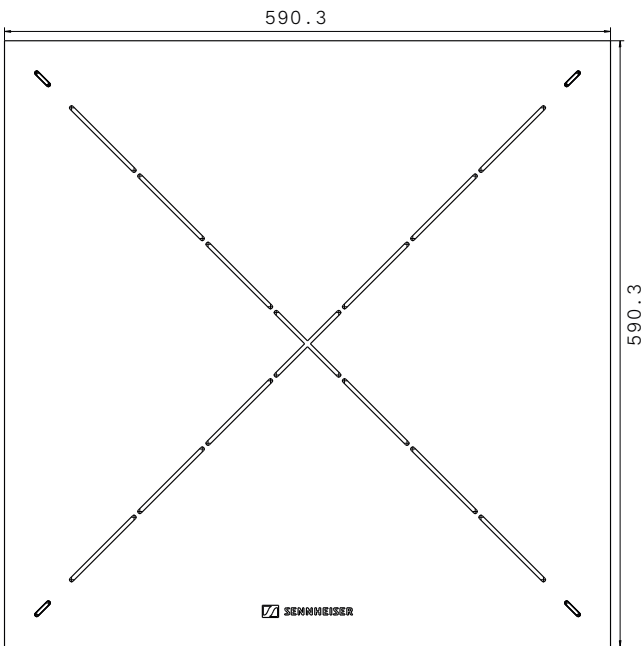


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DIMENSIONS

TeamConnect Ceiling 2



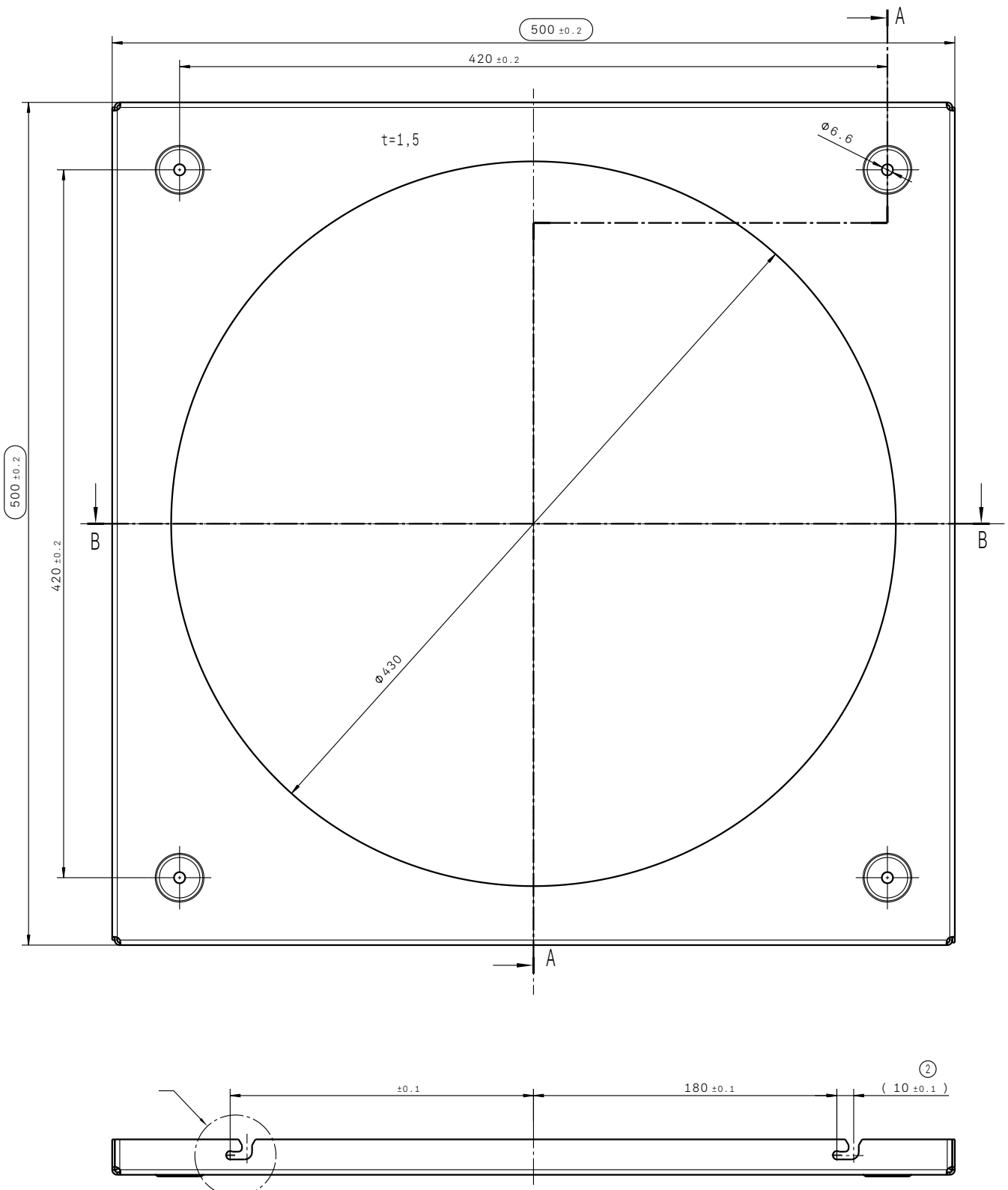


TeamConnect Ceiling 2

Ceiling microphone array (Firmware $\geq 1.8.4$)

DIMENSIONS

SL CM FB - Mounting bracket (Surface)



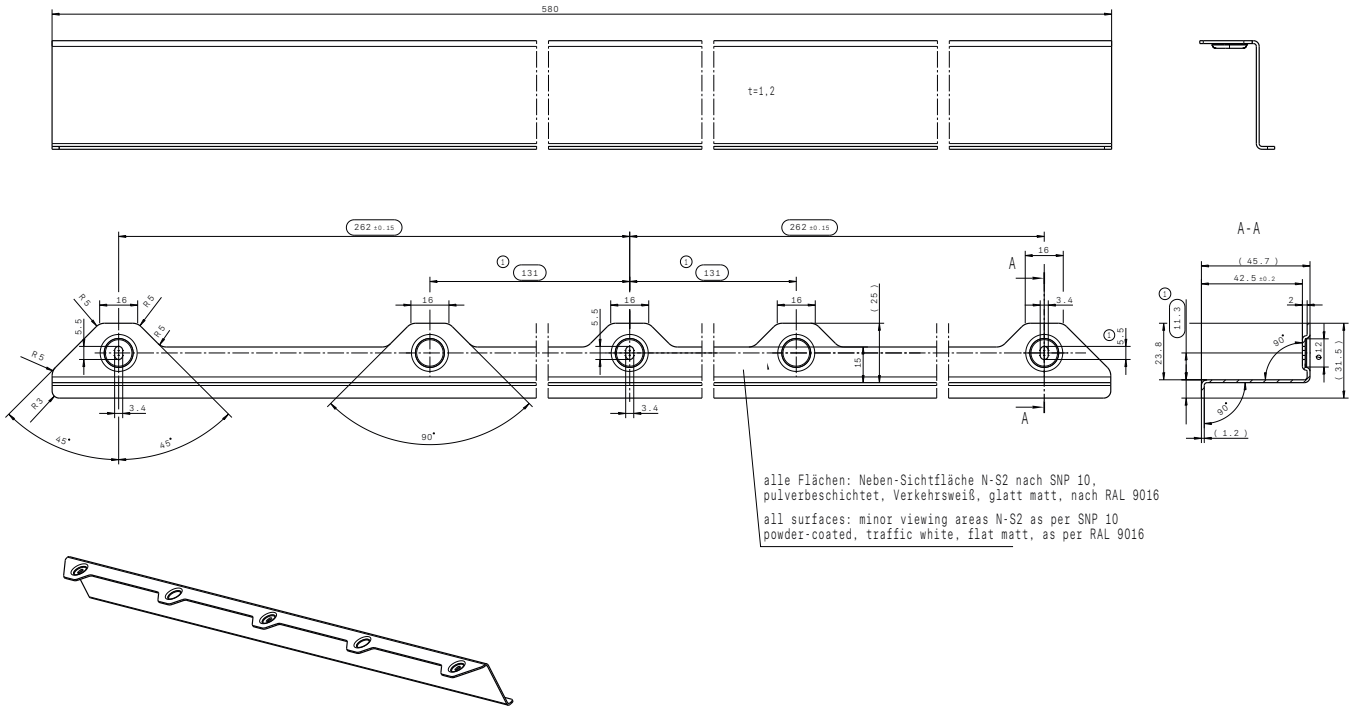


TeamConnect Ceiling 2

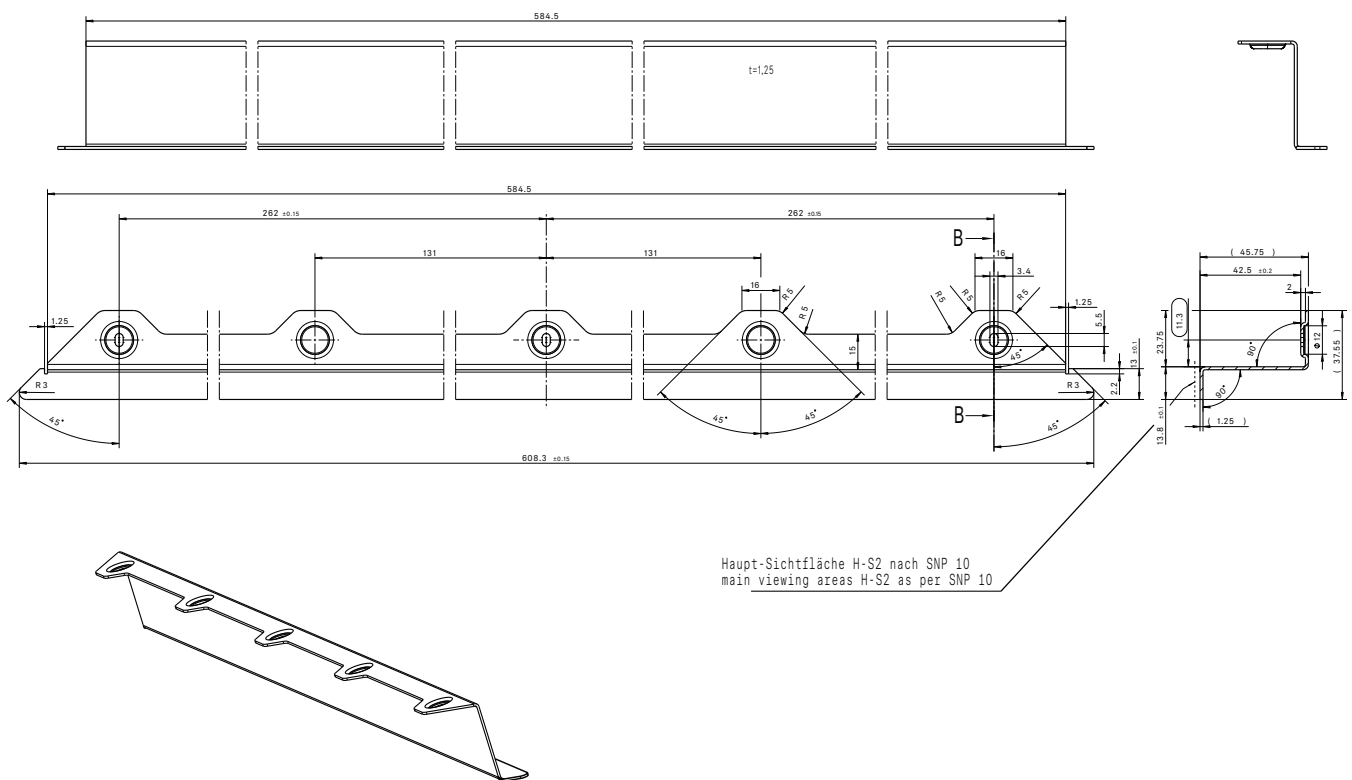
Ceiling microphone array (Firmware $\geq 1.8.4$)

DIMENSIONS

SL CM EB US - Extension brackets 2 ft (609.6 mm)



SL CM EB 625 - Extension brackets 625 mm



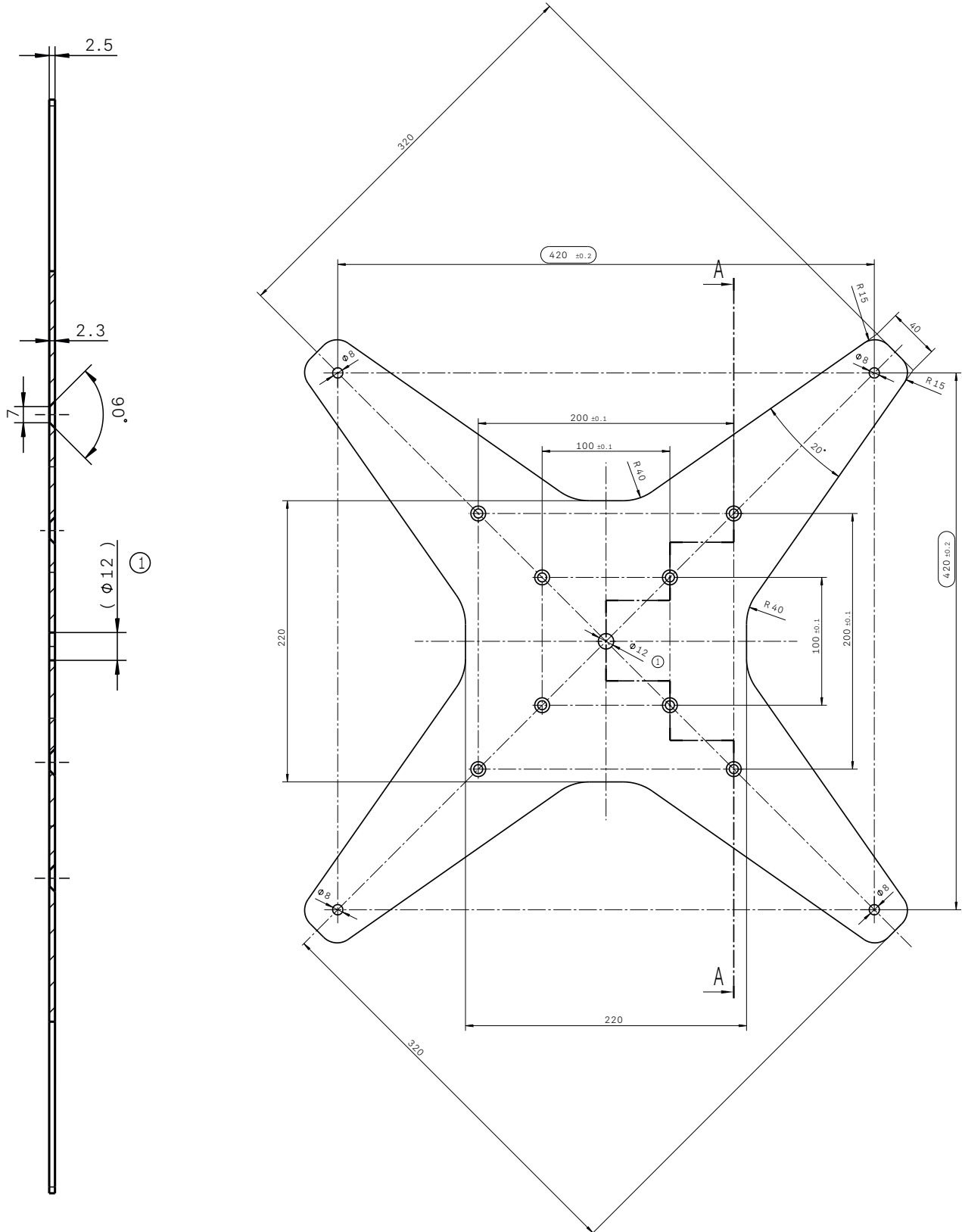


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DIMENSIONS

SL CM VB - VESA adapter





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ARCHITECT'S SPECIFICATION

The ceiling mounted microphone array shall be designed for fixed installation in medium to large conference rooms. The microphone array shall fit within the space of a standard 600 mm (2 ft.) ceiling panel and shall be mountable either onto or flush with the ceiling itself. Several mounting accessories shall be available, including a ceiling suspension kit, a ceiling fixation bracket as well as mounting brackets for US size ceiling panels and for 625 mm ceiling panels. Additionally, a VESA adapter shall be available for all standard 100 mm and 200 mm VESA mounting material.

The microphone array shall consist of 28 Sennheiser KE 10-237 pre-polarized condenser microphone capsules and shall use beamforming technology that automatically focuses on whoever is speaking in the room. The beam will automatically detect the position of the person speaking and will follow the person around the room at all times. A threshold for the detection shall be adjustable. Live monitoring of the horizontal and vertical angle of the position shall be available in the Sennheiser Control Cockpit control software.

The microphone array shall have a Dante™ interface with two RJ 45 sockets (Primary and Secondary) for digital audio output, supporting both redundant and daisy-chain modes. 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, the microphone array shall have an RJ 45 Ethernet socket for 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 standard.

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 (988 mV/Pa). The maximum sound pressure level shall be 104 dB SPL. The dynamic range shall be 93 dB(A).

The microphone dimensions (L x W x H) shall be 590 x 590 x 43 mm (23.2" x 23.2" x 1.7"), weight shall be 5670 g (12.5 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 tested according to UL 2043 rating.

The microphone array shall be the Sennheiser TeamConnect Ceiling 2.