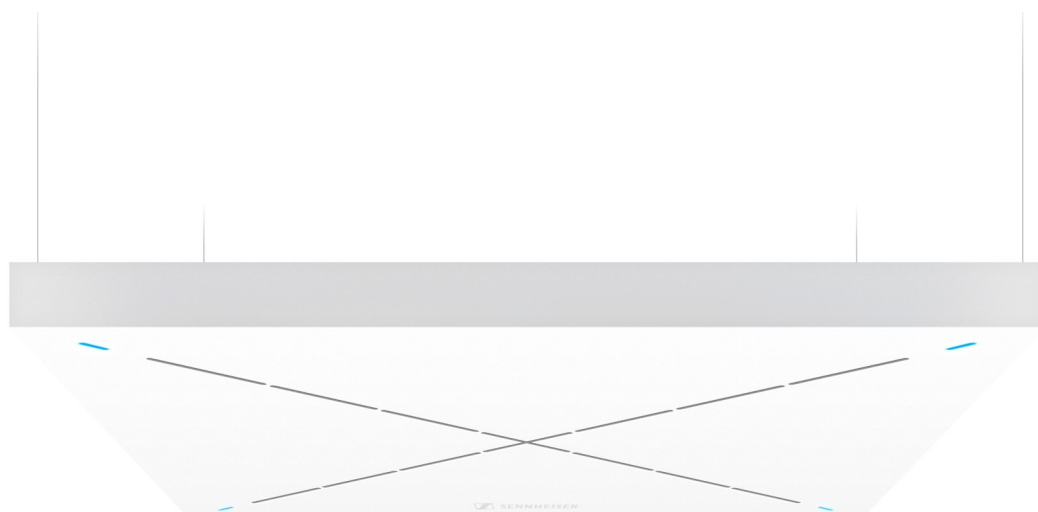
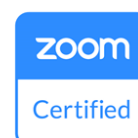




TeamConnect Ceiling 2, now with TruVoicelift





TeamConnect Ceiling 2, now with TruVoicelift

Overview

The TeamConnect Ceiling 2, with its [patented automatic dynamic beamforming technology](#), was already a leader in conference room audio technology. Now, with the addition of [TruVoicelift](#) and advanced zone control, TeamConnect Ceiling 2 is the best solution for both conferencing and in-room audio for classrooms, lecture halls, boardrooms and more. TeamConnect Ceiling 2 now offers our customers unparalleled levels of control with the addition of a priority zone (allowing a single area in the room to be highlighted), 5 advanced exclusion zones (for pinpoint targeting and removal of unwanted noise sources) and more. All of these new features are activatable and configurable via the latest firmware update for the TeamConnect Ceiling 2 and via the latest version of [Sennheiser Control Cockpit](#). Easy to install and easy to integrate. Let us help you understand the difference TeamConnect Ceiling 2 can make for you.



Speak freely

Thanks to the unique patented automatic beamforming technology, your messages are clearly transmitted to external meeting participants from anywhere in the meeting room. Now with TruVoicelift™ to highlight the voice, manage background noise and prevent feedback.



Everything under control

Focus on the essentials while the Sennheiser Control Cockpit software helps you control and monitor the microphone in any company network.



Perfect integration

100% connectivity with redundant Dante™ support for outstanding productivity and reliability. Integrates into any conference system and digital audio networks.



Easy to install

The ceiling microphone comes with PoE support and integrates easily into your existing media control environment.

Downloading Sennheiser Control Cockpit

To configure and use the TeamConnect Ceiling 2, you need the free Sennheiser Control Cockpit control software. You can download it here:

<https://www.sennheiser.com/control-cockpit-software>

To use the **Sennheiser Control Cockpit**, you must complete a one-time registration with your e-mail address to receive the software activation code. The Sennheiser Control Cockpit must be used to configure the product for the first time. After that, the TeamConnect Ceiling 2 can also be operated using a media control system. To have access to the full range of functions, however, you should use the **Sennheiser Control Cockpit**.

Please also visit the [TeamConnect Ceiling 2 webpage](#) for additional Information and to view our reference case:
<https://www.sennheiser.com/tcc2>



TeamConnect Ceiling 2, now with TruVoicelift

What is TruVoicelift?

Unlike other brands, Sennheiser believes that there's more to voicelift than just another application on a long list. Our activatable and configurable algorithm behind TruVoicelift, in combination with the most flexible beamforming and advanced zone control, make TeamConnect Ceiling 2 the most powerful beamforming microphone on the market. TeamConnect Ceiling 2 is the best solution for both conferencing and now in-room audio for classrooms, lecture halls, boardrooms and more.

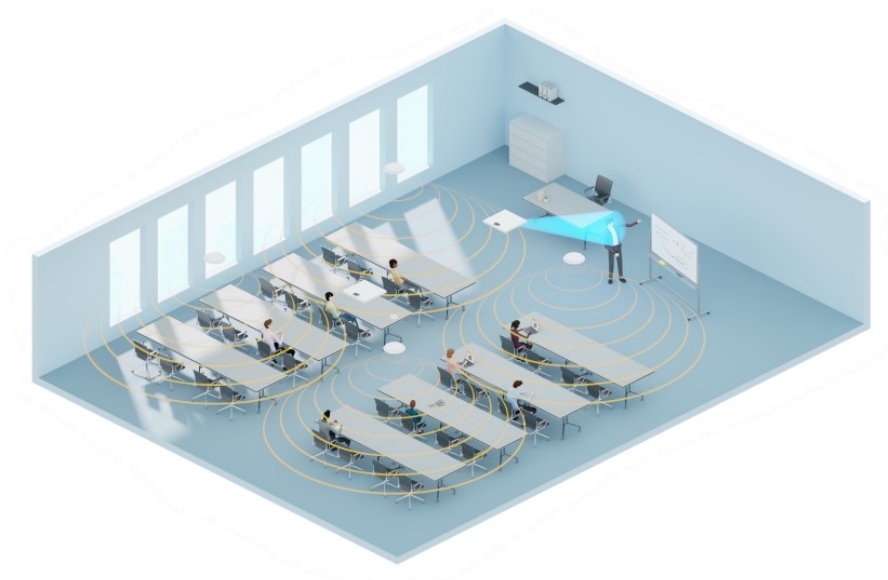
TruVoicelift ensures your voice can be heard in a room, all the way to the back row, providing perfect clarity for all participants.

Depending on the size of installation additional TeamConnect Ceiling 2's can be installed as audience mics.



This greatly reduces any hygiene risks as the TeamConnect Ceiling 2 is completely touchless.

TruVoicelift allows you to get significantly louder than other solutions ensuring that everybody in the room can hear a presentation. Its integrated emergency brake also automatically mutes the system should an issue occur, completely eliminating any feedback issues.





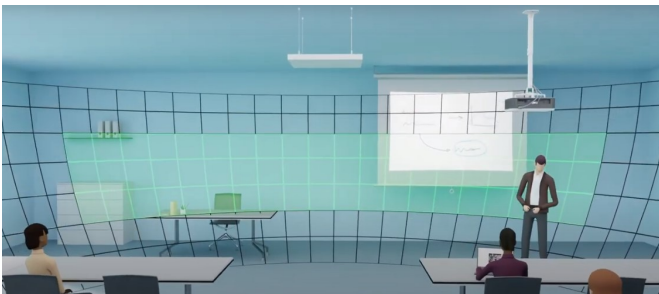
TeamConnect Ceiling 2, now with TruVoicelift

What is TruVoicelift?

TCC2 now also offers you a host of additional complimentary features such as:

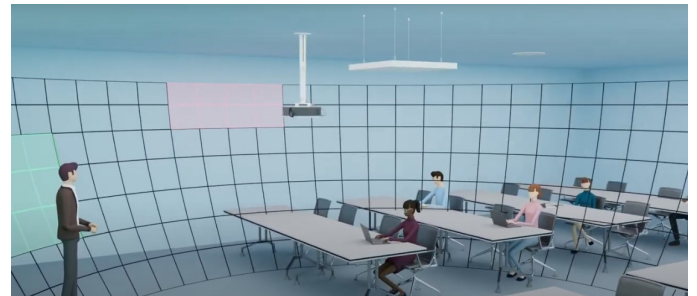
Priority Zone

Highlighting a single area in the room:



Advanced Exclusion Zones

For pin point targeting of unwanted noises, like HVAC or projectors:



With the addition of TruVoicelift, TCC2 is the best solution for both conferencing and now in room audio in classrooms, lecturehalls, boardrooms and more.



For an explanation of how the TeamConnect Ceiling 2 room microphone with new TruVoicelift technology works in different rooms and scenarios, please visit this link for our full video:

<https://www.sennheiser.com/truvoicelift>



TeamConnect Ceiling 2, now with TruVoicelift

TruVoicelift Features Overview:

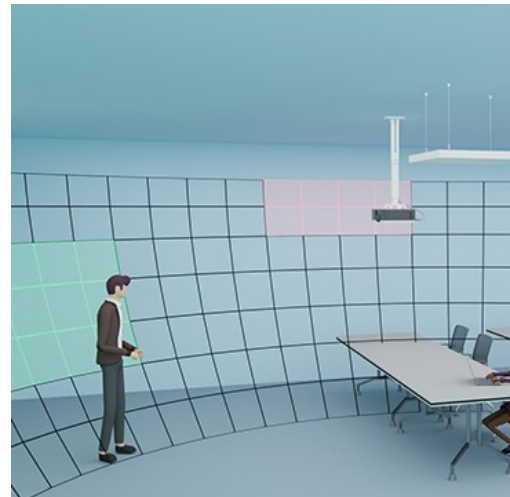
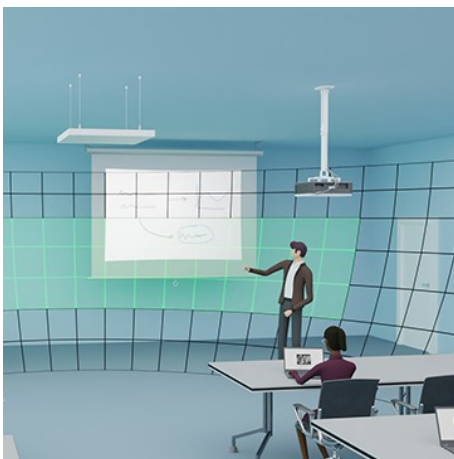


TruVoicelift

TruVoicelift allows the customer to significantly increase speech amplification on-site in the meeting room and gives the option to get significantly louder than other solutions.

Advanced exclusion zones

With 5 advanced exclusion zones, the customer has 100% flexibility and can precisely define the position of noise sources to be ignored by the beam tracking (vertically and horizontally) in a new, visually powerful 3D optic via Sennheiser Control Cockpit.



Priority zone

100% control by setting a particular area of a room as priority zone so that whenever someone in this zone is talking, they are given priority over any others that are talking in the room.

For more information on your room planning, please visit the following link:

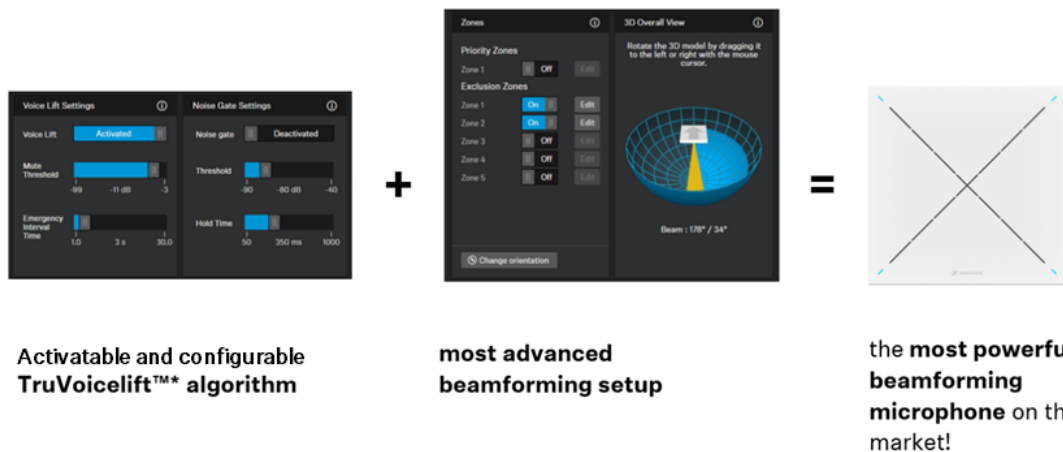
https://assets.sennheiser.com/global-downloads/file/20934/AN_1338_v1.0_TeamConnect_Ceiling_2_Planning_Guide_EN.pdf



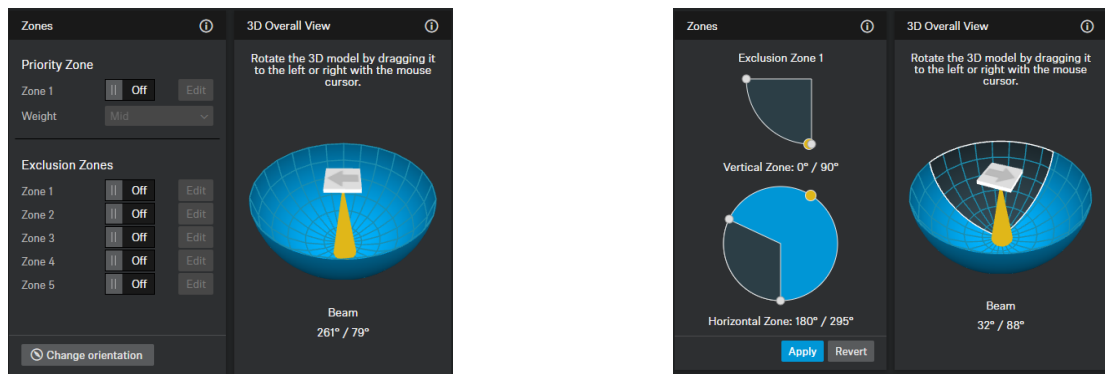
TeamConnect Ceiling 2, now with TruVoicelift

Key Features: TeamConnect Ceiling 2 Advanced Exclusion Zones

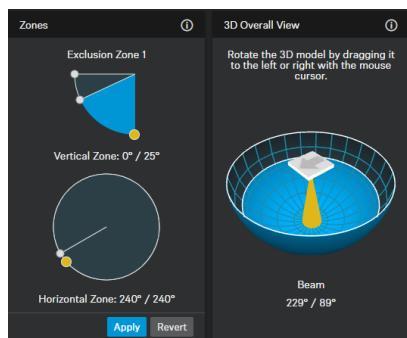
You can easily set exclusions zones using the Control Cockpit App via the visually powerful 3D optic. This means if you have areas with some electrical noise such as TV/AV equipment, projectors or HVAC, or even a meeting room where you would like the beam to only focus on half of the room, these can be cut from the beams search area's . Example below show what can be done using this simple function within the software pane.



Control Cockpit Audio app, showing Source Detection section, where you can create your exclusions zones.

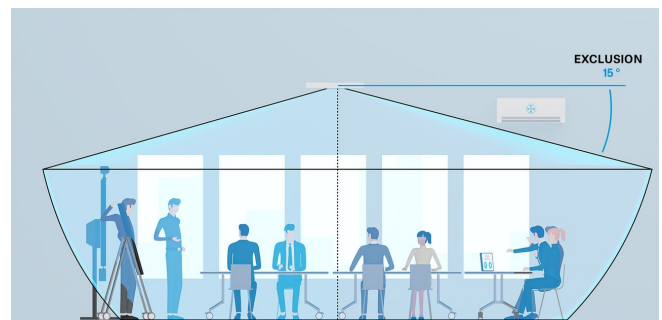


No Zones set up, showing approx. beam pick up area.



Further vertical exclusion zone made to cut out ceiling installed equipment such as projectors and HVAC.

Horizontal exclusion zone made to cut out AV equipment at front of room



Side view showing AC exclusion on vertical plane.

Please visit the link below for your Sennheiser Control Cockpit Download and Manual:

<https://www.sennheiser.com/control-cockpit-software>

<https://www.sennheiser-sites.com/responsive-manuals/SCC/EN/index.html>

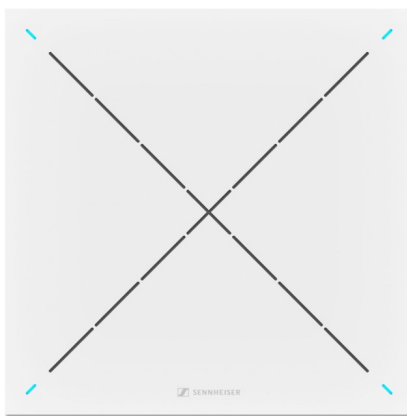


TeamConnect Ceiling 2, now with TruVoicelift

TeamConnect Ceiling 2

The TeamConnect Ceiling 2 is a reliable ceiling microphone solution that is quick and easy to install. Thanks to the patented automatic dynamic beamforming technology, it adapts to the respective conditions on-site, without reconfiguration. Gain more flexibility and complete “freedom of speech” in your meeting rooms for an individual meeting and learning environment and maximum productivity.

TeamConnect Ceiling 2—Front View



TeamConnect Ceiling 2—Rear View



TeamConnect Ceiling 2—Connection view



Characteristics

- Various Mounting options available
- Analog audio output for existing infrastructure
- 2 x Dante digital audio
- AES67
- Power over Ethernet (PoE)
- Control and configuration via control cockpit
- Integrated IT / network security standards
- Supports intergration in media control environments via API
- Customisable LED colour settings
- Also available in Black.

TeamConnect Ceiling 2—scope of delivery

- TeamConnect Ceiling 2
- 8 self-adhesive rubber feet
- Phoenix Connector Contact MCVM 1.5-3-ST-3.81
- Mounting and operating instructions
- Safety instructions
- Manufacturer's declarations



TeamConnect Ceiling 2, now with TruVoicelift

TeamConnect Ceiling 2 Application Scenario's

Please find examples here showing that, no matter what space you may have, the TeamConnect Ceiling 2 can be configured to work in an ever changing room and multiple scenarios.



In this room, TeamConnect Ceiling 2 is connected to a video codec. It increases the microphone pick up range up to 50m² while allowing free positioning within. Connection is done easily via analog output.



TeamConnect Ceiling 2 can also be used for presenting, allowing the presenter to work hands-free without the need for a carried mic. Additional TeamConnect Ceiling 2 microphones are simply added via Dante Network.

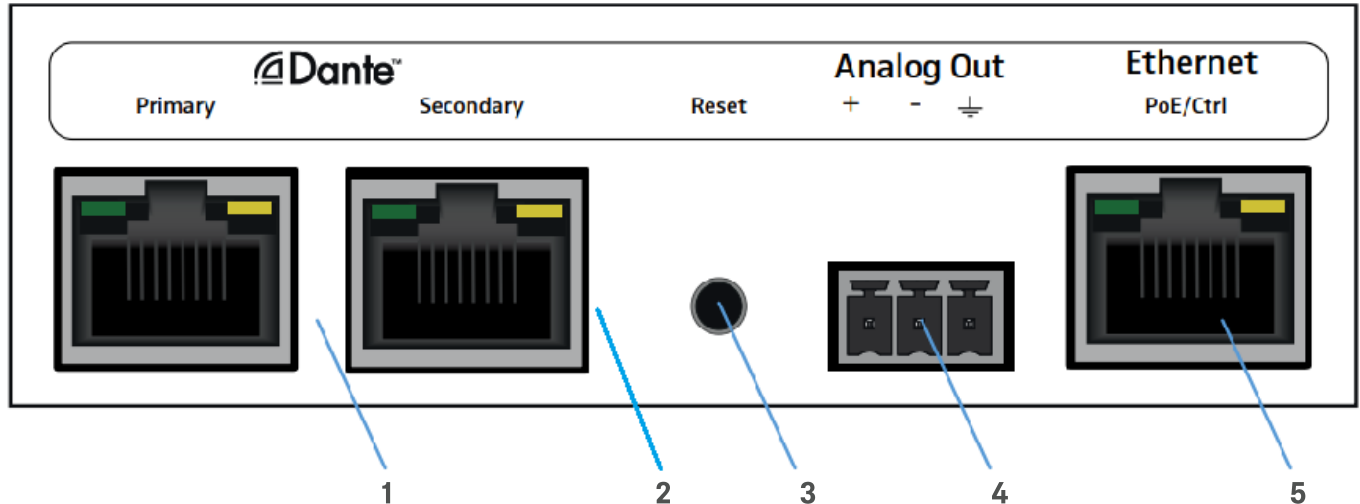
Here, TeamConnect Ceiling 2 is being used as an extender microphone for a collaboration screen. The dynamic beamforming allows for flexible usage of the complete space and collaboration with remote participants.





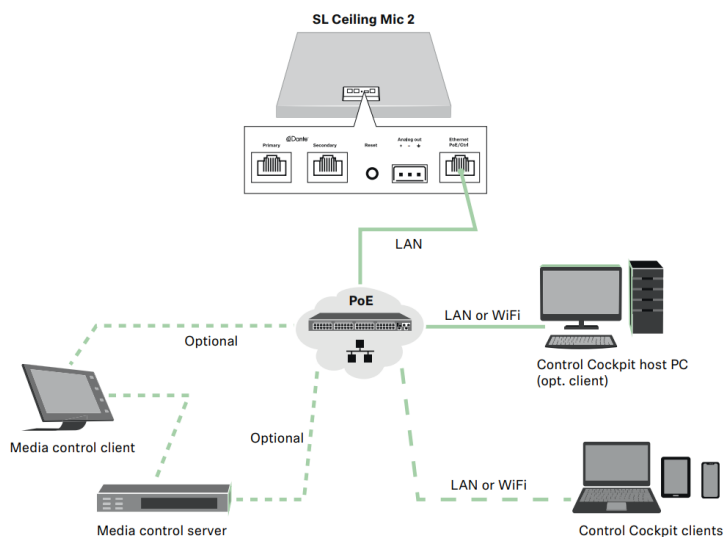
TeamConnect Ceiling 2, now with TruVoicelift

TeamConnect Ceiling 2 Connections and Application Examples.



1	Digital audio output	Dante™ interface with two RJ-45 sockets, Primary and Secondary • Supports redundancy and switched mode
2	Secondary Dante input	Secondary port can be used as an input for: • Daisy Chaining devices. • Sending a reference signal for AEC • For Voice Lift Compatibility
3	Reset button	To restore the factory settings • Hold for 5 seconds
4	Analog audio output	3-pin socket • Suitable for Phoenix Contact MCVW 1.5-3-ST-3.81
5	PoE/Ctrl socket	RJ-45 socket • PoE supply (Power over Ethernet) • Configuration via the software or a media control system

Connecting to the network (power supply and configuration)



The Ethernet PoE/Ctrl RJ-45 socket is used to both power the SL Ceiling Mic 2 via Power over Ethernet and configure it using the Sennheiser Control Cockpit software

- In your network you can either use a switch that provides PoE or a PoE injector.
- Use only shielded STP network cables that do not exceed an AWG value of 24.

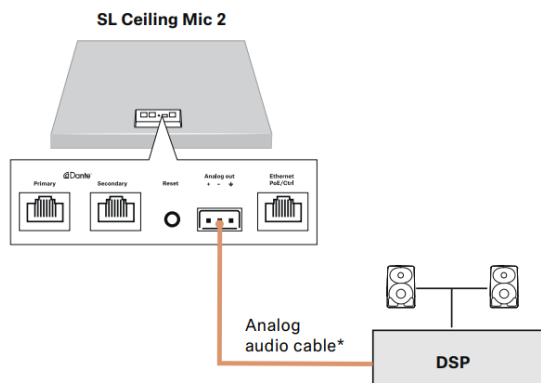


TeamConnect Ceiling 2, now with TruVoicelift

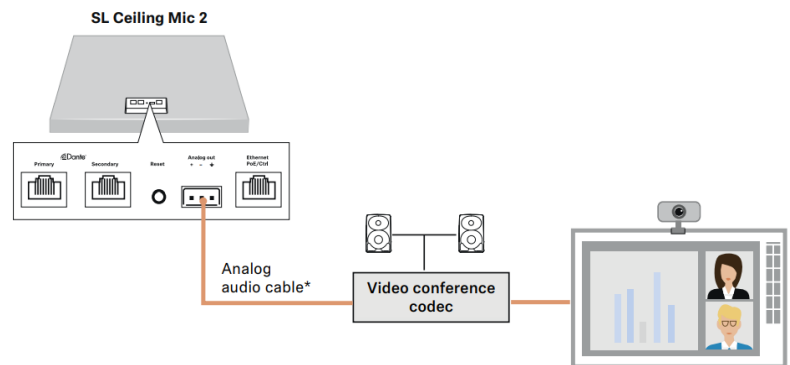
TeamConnect Ceiling 2 Connections and Application Examples (Cont.....)

Outputting analog audio signals.

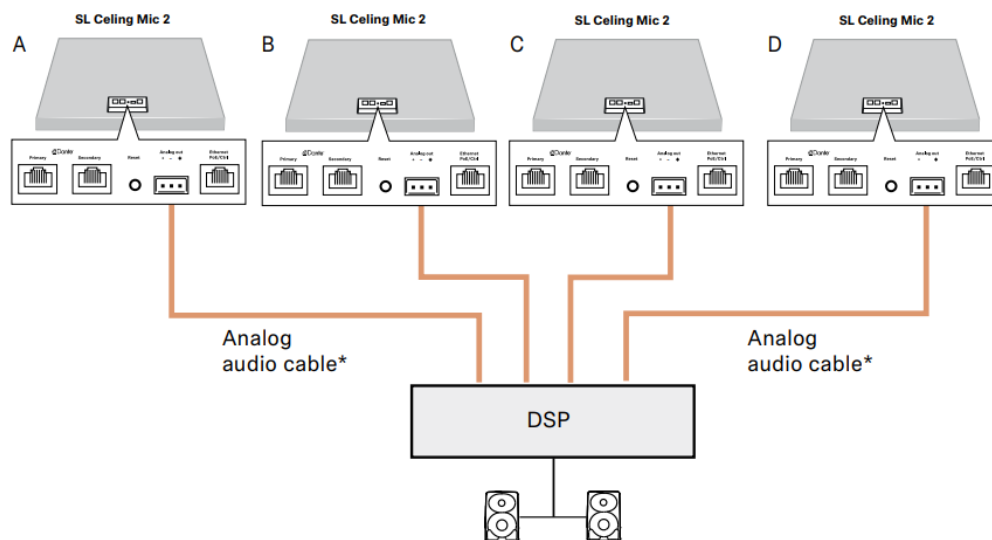
Variant 1: output analog audio signal to a DSP.



Variant 2: output analog audio signal to video conference codec.



Variant 3: output analog audio signal from multiple ceiling microphones to a single DSP.



Note: *The cable is not included with delivery. Depending on the audio input of your DSP, the cable must connect 3-pin terminal to 3-pin XLR terminal or to jack.



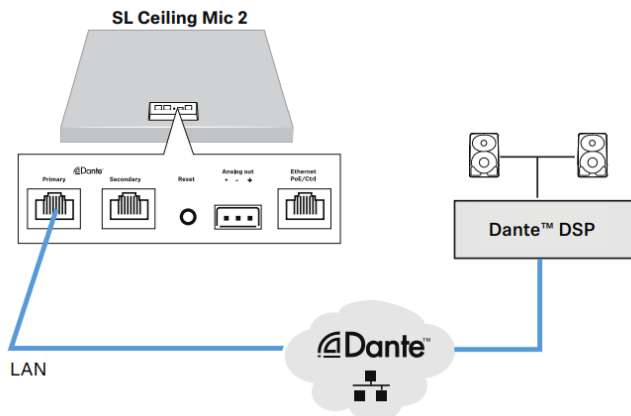
TeamConnect Ceiling 2, now with TruVoicelift

TeamConnect Ceiling 2 Connections and Application Examples (Cont.....)

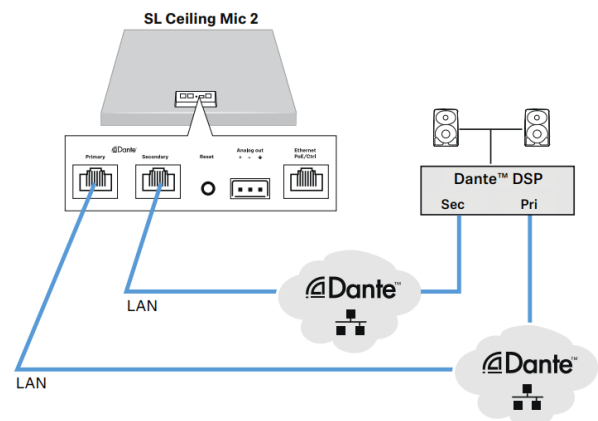
Outputting digital audio signals.

The Dante™ interface with two RJ-45 sockets, Primary and Secondary, is used for outputting digital audio signals. The interface supports redundant output and series connection of multiple ceiling microphones (switched mode). The mode is configured using the Dante Domain Manager or Dante Controller from Audinate (www.audinate.com).

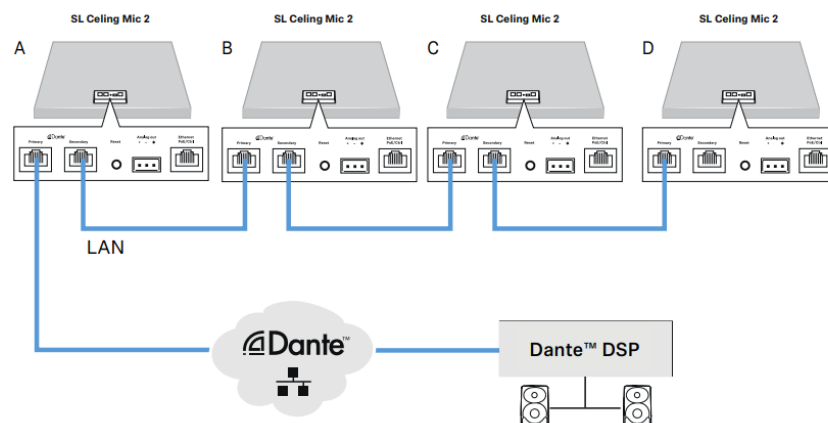
Variant 1: output digital audio signal to one Dante™ network



Variant 2: output redundant audio signals to two separate Dante™ networks



Variant 3: output digital audio signals from multiple ceiling microphones connected in series to one Dante™ network



Ports Requirements

Port	Protocol	Service	Product
45	UDP	SSC (Sennheiser Sound Control Protocol)	TeamConnect Ceiling 2
69	UDP	tftp (only temporary during firmware update)	TeamConnect Ceiling 2
5353	UDP	mDNS via Multicast 224.0.0.251	TeamConnect Ceiling 2
8181,8182	HTTP	Web UI	Control Cockpit
80	HTTP	Control Cockpit update service	Control Cockpit



TeamConnect Ceiling 2, now with TruVoicelift

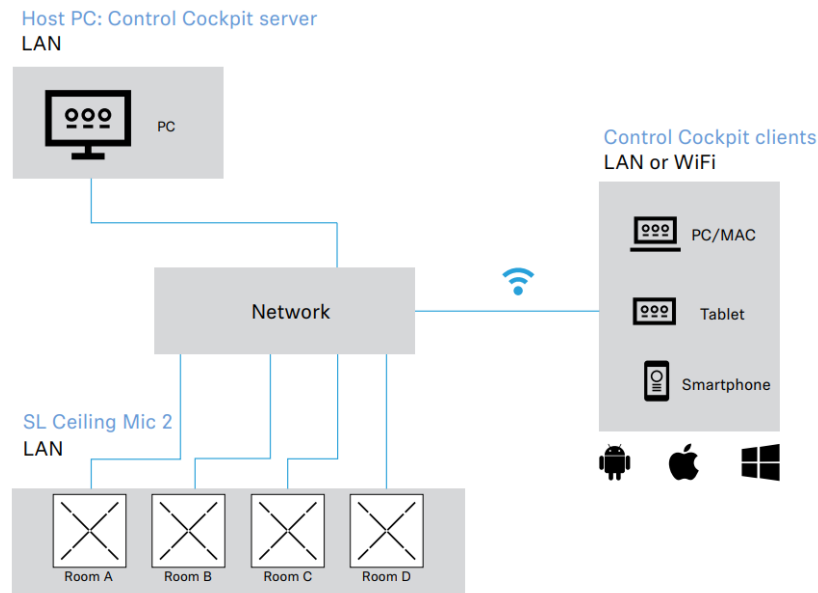
Configuring TeamConnect Ceiling 2

To configure and use the TeamConnect Ceiling 2, you need the free Sennheiser Control Cockpit control software. You can download it here:

www.sennheiser.com/control-cockpit-software

Integrating the TeamConnect Ceiling 2 in an existing network

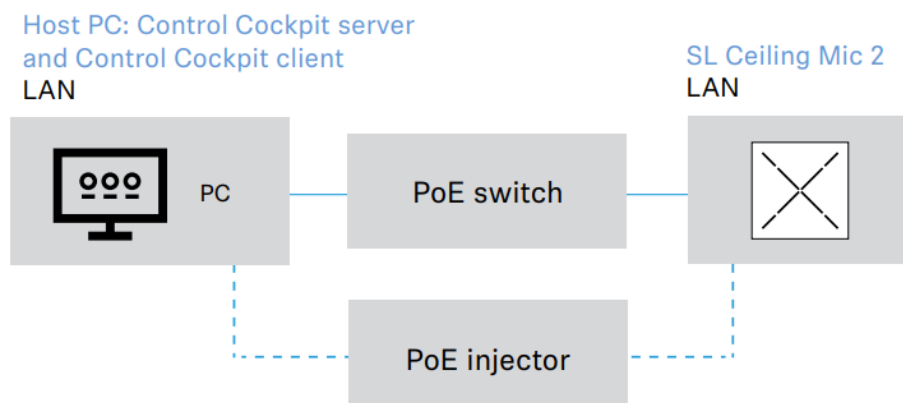
The Sennheiser Control Cockpit should be installed on a host PC (Windows 7 or later) that is in the same network as the SL Ceiling Mic 2 that you want to configure. The Sennheiser Control Cockpit runs on the host PC as a Windows service. Any browser-capable device in the network (e.g. PC/Mac, tablet or smartphone) can operate the product using the Control Cockpit Client, which is accessed at a specific URL in the browser.



Configuring the TeamConnect Ceiling 2 as a standalone solution using a computer

To configure the TeamConnect Ceiling 2 without network integration using a computer:

- Connect the computer to a PoE-capable network switch using a network cable (Cat5e or higher). Alternatively, you can use a PoE injector.
- Connect the network switch to the Ethernet PoE/Ctrl socket on the SL Ceiling Mic 2.





TeamConnect Ceiling 2, now with TruVoicelift

Configuring TeamConnect Ceiling 2 with a media control system

After initial configuration with the Sennheiser Control Cockpit, the TeamConnect Ceiling 2 can also be operated using a media control system.

A media control system allows you to use a custom user interface with the following functions:

- Control the mute function
- Edit audio parameters (adjust output level, show microphone level, set EQ)
- LED control
- Transmit speaker position

Controlling a conference camera with TeamConnect Ceiling 2

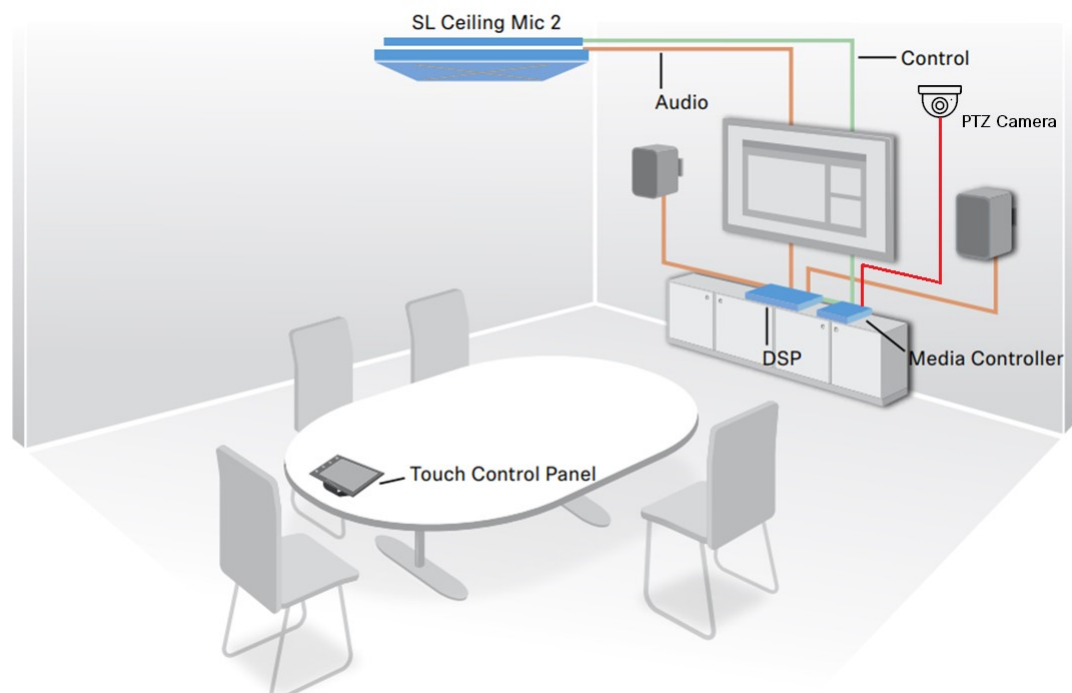
TeamConnect Ceiling 2 (TCC2) provides the status information of the horizontal and vertical angles of the beam-forming via the SSC protocol.

This information can be used for camera control. This means that a camera controller can use that information to recall programmed positions of a videoconferencing camera.

The angle information of the TCC2 is related to the centre of the audio beam. The beam itself has an opening angle of 30° (average, depending on the frequency) . This relates to a pick-up spot of approximately 2 m in diameter (= 1 m radius) on a distance of 4 m to the centre of the microphone.

How to use the angle information: Depending on the distance of the person speaking, the integrator needs to define a value range of horizontal and vertical angles for every participant position in the room which needs to be picked up. This needs to be set to a dedicated camera pre-set position.

Sennheiser just provides the status data of the beam. The configuration of the camera control needs to be done by an integrator.





TeamConnect Ceiling 2, now with TruVoicelift

Camera Preset Recall

The TCC2 revolutionising automatic beamforming technology tracks all the audio signals in the meeting room. By means of digital signal processing, the position of the person speaking can be determined at any time, regardless of whether he or she is sitting, standing or moving around. This position data of the beam can be sent to a separate DSP or controller that corresponds with predetermined camera pre-sets within the room. In this way camera switching and tracking can be achieved with other vendors meeting space devices.

Does TCC2 do camera tracking?

No, TCC2 only provides the vertical and horizontal position of the microphone beam to the partnered DSP. This is accomplished by subscribing to the Sennheiser Sound Control (SSC) control protocol of the TCC2.

How accurate is the positioning?

The beam, on average, is within 3 to 5 degrees accurate to where the sound comes from. The beam is 30 degrees wide.

How fast does the beam switch positions?

The beam switches within 9 ms.

How many cameras can I use?

This depends on the DSP that you are using. Example: QSC's camera tracking module allows for up to 4 cameras

Do I have to write all the programming myself?

This is an option, but some of our partners have preconfigured options for camera control. For more info on our partner collaboration [please click on the images below.](#)

What DSP's and control systems will this work with?

Please visit our Global Alliance page for up-to-date info on partnered DSP's and what plug-ins are available. If a plug-in is not available a skilled programmer can program camera control by subscribing to the positional data via our command protocol.

What connection does the positioning data come from?

All the control data is on the LAN POE port of the TCC2.

Is there a way to limit where the beam will track within the room?

You have up to 5 exclusions zones where you can carefully tailor the horizontal and vertical pickup area of the TCC2. This is adjusted through our [Control Cockpit](#) software.

Where can I find the Media Control Protocols for TCC2?

You can find all documentation on the [TCC2 webpage](#). Here is a link to the SSC control protocol [document](#)





TeamConnect Ceiling 2, now with TruVoicelift

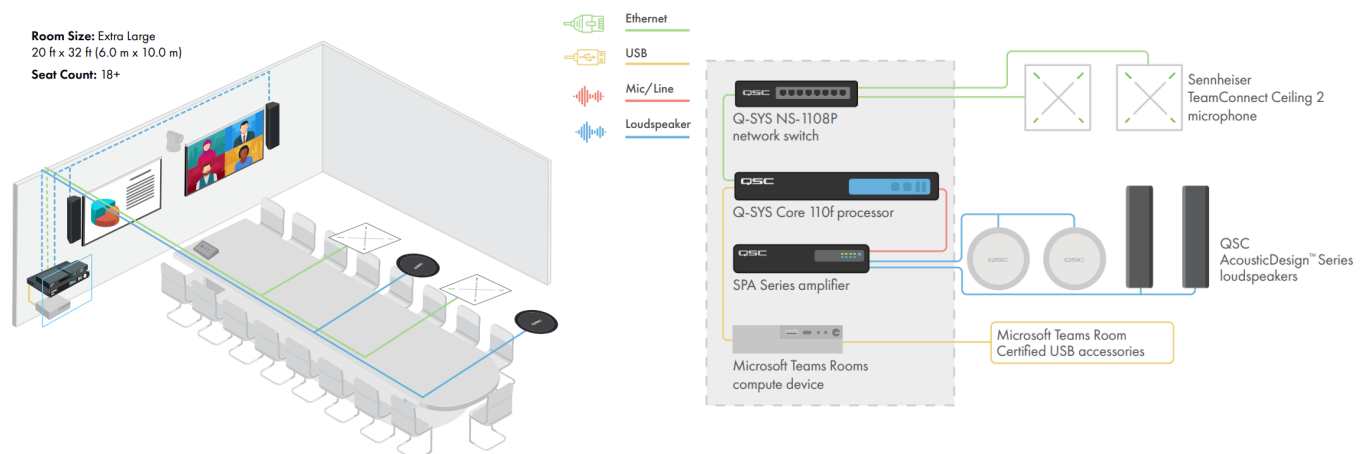
TeamConnect Ceiling 2 Collaboration examples.

Sennheiser TeamConnect Ceiling 2 and QSC Audio solution



QSC and Sennheiser have partnered to simplify the meeting space, classroom and beyond – Q-SYS Control plugins enable quick integration of the TeamConnect Ceiling 2 and SpeechLine Digital Wireless system into your Q-SYS designs.

Introducing QSC Room System Accessories certified for Microsoft Teams. Each QSC Room System Accessory features the Sennheiser TeamConnect Ceiling 2 as the microphone solution, and helps Q-SYS extend the Microsoft Teams experience into high-value divisible spaces, training rooms, executive boardrooms, and all-hands spaces.



Please follow this link for more information regarding the Sennheiser and QSC collaboration:

<https://www.qsc.com/alliances-partnerships/sennheiser/>



TeamConnect Ceiling 2, now with TruVoicelift

TeamConnect Ceiling 2 Collaboration examples.

Sennheiser TeamConnect Ceiling 2 and Bose ES1 Ceiling Audio solution



The Bose ES1 Ceiling Audio Solution is Microsoft Teams certified as part of a complete system solution that includes the following components:

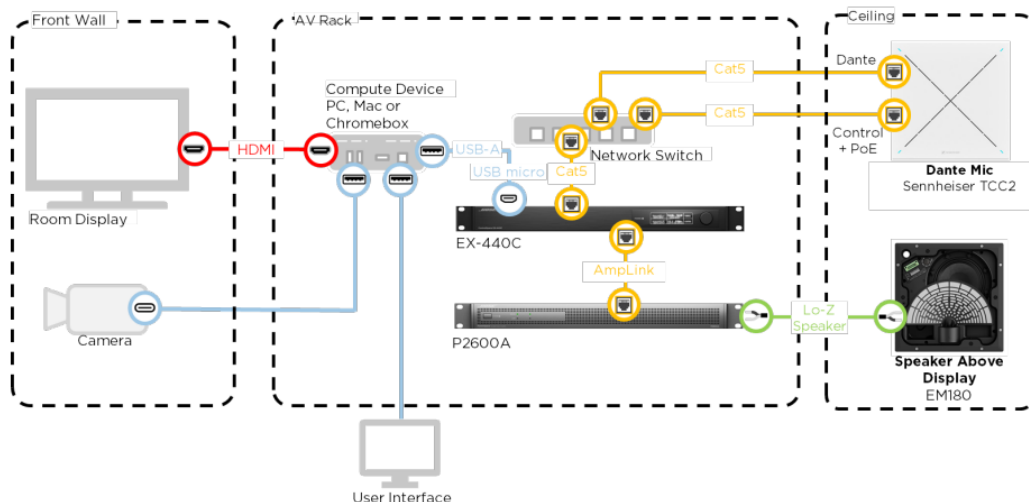
- Bose ControlSpace EX-440C
- Bose PowerSpace P2600A (includes Amplink cable)
- Bose EdgeMax EM180
- Sennheiser TeamConnect Ceiling 2 (TCC2)

Additional components required, but not included:

- Microsoft Teams Room camera and display
- Network switch with PoE for Dante and ControlSpace configuration
- Windows computer with ControlSpace Designer 5.8.2 or later, Sennheiser Control Cockpit, and Dante Controller. (The computer is required for adjustments only and can be disconnected after use.)

System Diagram

The system diagram for ES1 appears below. Components in the background (such as Microsoft Teams Room [MTR] components, camera, and network switch with PoE) are required but are outside the scope of ES1.



Please follow this link for Full System Design download for the Sennheiser TeamConnect Ceiling 2 and Bose ES1 Ceiling Audio Solution:

https://assets.sennheiser.com/global-downloads/file/13924/Bose_ES1_Application_Note_A4.pdf



TeamConnect Ceiling 2, now with TruVoicelift

TeamConnect Ceiling 2 Collaboration examples.

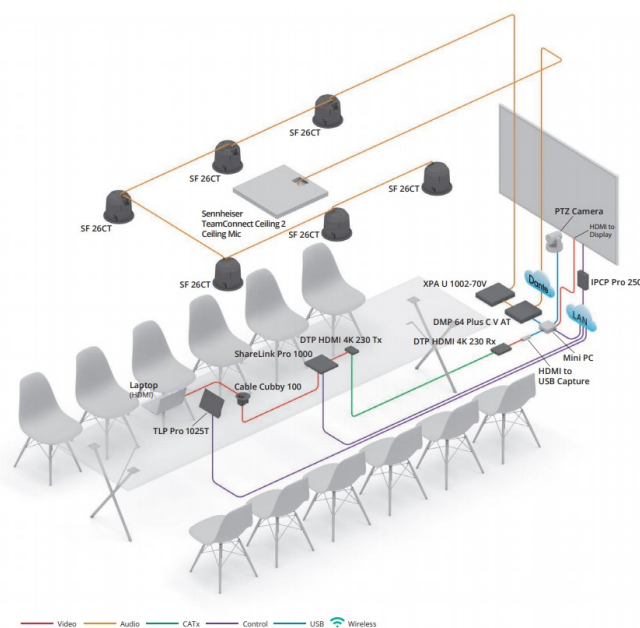
Sennheiser TeamConnect Ceiling 2 and Extron Audio solution



Extron and Sennheiser have partnered to create easy to deploy audio solutions for modern workspaces. We are providing additional control system and audio DSP resources that simplify the integration of Sennheiser Dante microphone arrays with Extron devices. Using an Extron DMP Plus series audio DSP processor connected to a Sennheiser TeamConnect Ceiling 2 microphone, customers can create high quality sound systems that are easy to control and work reliably.

Every day, millions around the world have their experiences enhanced by Extron AV signal processing, distribution, and control technologies. This partnership with Sennheiser brings audio and control elements together; helping people deploy meeting solutions in their workspaces and across their enterprise.

LARGE CONFERENCE ROOM WITH SENNHEISER TEAMCONNECT CEILING 2



Please follow this link for more information regarding the Sennheiser and Extron collaboration:

<https://www.extron.com/article/sennheiser>



TeamConnect Ceiling 2, now with TruVoicelift

TeamConnect Ceiling 2 Collaboration examples.

Sennheiser TeamConnect Ceiling 2 and Xilica



Xilica partnered with global audio specialist Sennheiser to develop an integrated room solution. The collaboration's goal is to minimize installation time, improve audio quality, and enhance collaboration for end-users. The partnership will leverage audio products from both companies.

"We're pleased to partner with Sennheiser to help unlock the power of human connection," said James Knight, COO, Xilica. "Our joint solution offers a pre-validated room system for the high-value collaboration space that delivers greater freedom and flexibility to end-users while eliminating lengthy setup for integrators. Pairing Sennheiser's patented technologies with the audio-enhancing algorithms of Xilica processors give a distraction-free experience in which people can come together."

The complete solution pairs the Sennheiser TeamConnect Ceiling 2 beamforming microphone array with Xilica's ecosystem DSP, user interfaces, and network endpoints. The whole solution ensures speech intelligibility for physical and remote participants in hybrid spaces. End-users will have the flexibility to move throughout their space and present in their own style, eliminating the risk of inaudibility.

"Modern meetings have more remote participants than ever, and they need to hear clearly without being distracted by background noise and interruptions," said Charlie Jones, Global Alliance and Partnerships Manager for Sennheiser.

Part of the partnership allows Sennheiser to enable support of their TruVoicelift functionality across Xilica's Solaro Series of DSPs. This will simplify the installation of multiple Sennheiser TCC2 microphones through automatic testing and calibration of audio. TruVoicelift provides noise reduction, speaker amplification and creates targeted zones in busy areas to highlight participants speaking. The complete solution offers end-to-end mute status sync for Microsoft Teams enabling a software-based mute action.

"TruVoicelift is perfect for large conference spaces and lecture halls that allow everyone to hear a presenter or a question from a student that is raised. Together with Xilica DSPs, end users are assured high-quality, dependable audio with exceptional room and user control," said Charlie Jones

Please follow this link for more information regarding the Sennheiser and Xilica collaboration:

<https://xilica.com/partners/sennheiser/>



TeamConnect Ceiling 2, now with TruVoicelift

TeamConnect Ceiling 2 Collaboration examples.

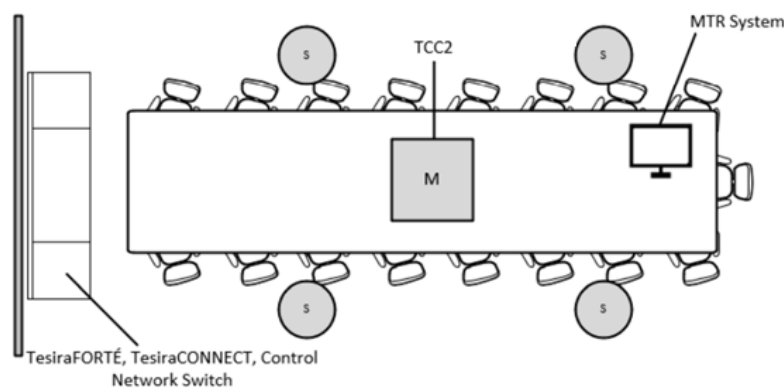
Sennheiser TeamConnect Ceiling 2 and biamp TesiraFORTÉ® AVB VT4



This application note shows how TeamConnect Ceiling 2, Biamp Tesira hardware and Microsoft Teams can be integrated to support a Large Meeting Room Space. In this document a large meeting room is defined as a meeting space of about 4.5 m x 8.5 m (15' x 28')

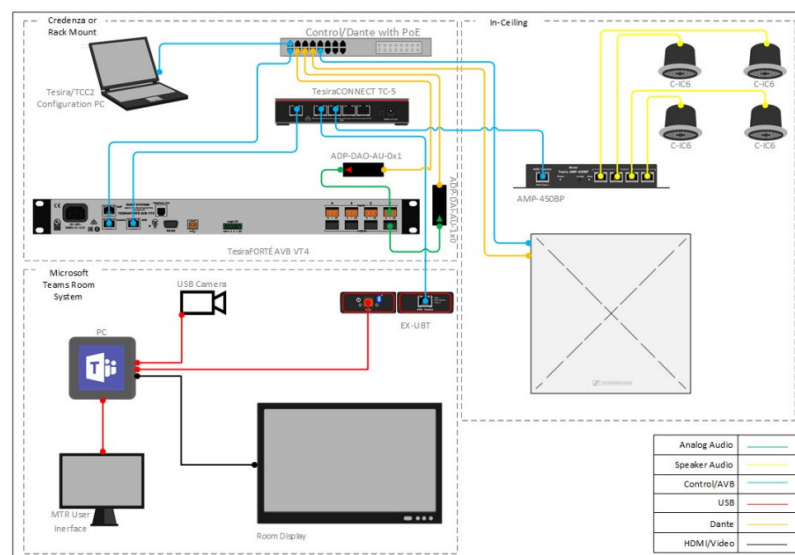
Equipment installation

The diagram below provides an example of typical installation locations for the required hardware and may vary based on room layout.



It is recommended that a qualified AV integrator be utilized for installation and configuration of all hardware. For assistance locating an integrator, please contact the [Sennheiser Customer Service](#).

Connect the hardware components as outlined in the diagram below.



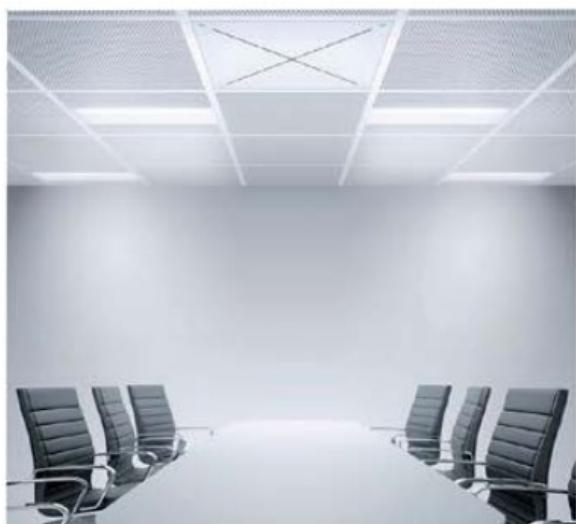
Please follow this link for Full System Design download for the Sennheiser TeamConnect Ceiling 2 and biamp TesiraFORTÉ® AVB VT4 Collaboration:

https://assets.sennheiser.com/global-downloads/file/12872/AN_1255_v1.0_TeamConnect_Ceiling_2_and_TesiraFORTE_EN.pdf



TeamConnect Ceiling 2, now with TruVoicelift

Mounting Accessories and possible installation variants



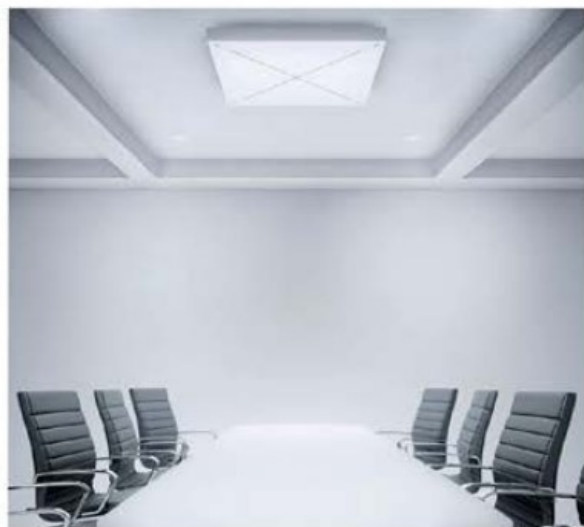
Variant 1: Installed flush in a dropped/coffered ceiling



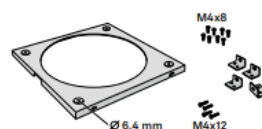
Mounting bracket 625mm
SL CM EB 625



Mounting bracket US-
Variante
SL CM EB US (2 ft)



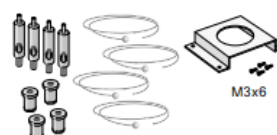
Variant 2: Mounted directly below the ceiling



Ceiling mounting frame
SL CM FB



Variant 3: Suspended from the ceiling

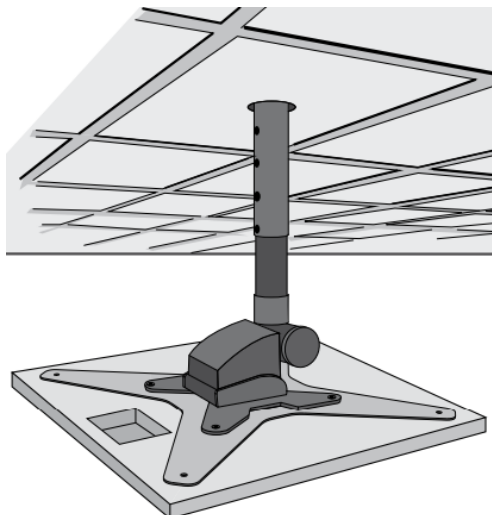


Ceiling suspension set
SL CM SK



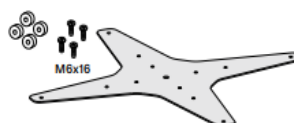
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Mounting Accessories and possible installation variants



Variant 4:

Allows you to mount the SL Ceiling Mic 2 on any 100 x 100 mm or 200 x 200 mm VESA mount.



VESA-Adapter
SL CM VB

TeamConnect Ceiling 2 Specifications

Product properties

Dimensions (L x B x H)	590 x 590 x 43mm
Weight	5670g (12.5 lbs)
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)
Ethernet / Control	1 x RJ-45 Ethernet Port for PoE power supply and data/control communication
Supply voltage	44—57 V DC PoE IEEE 802.3af Class 3
Power consumption	Max. 8.8 W
Safety certification	UL 62368 certification (including UL 2043 testing and compliance)

Acoustic properties

Transducer principle	Pre-polarized condenser microphone
AF frequency response	160 Hz—18,000 Hz
Sensitivity	0 dBV/Pa (988 mV/Pa)
Signal-to-noise ratio	83 dB (A)
Latency	4 ms
Equivalent noise level	11 dB (A)
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)

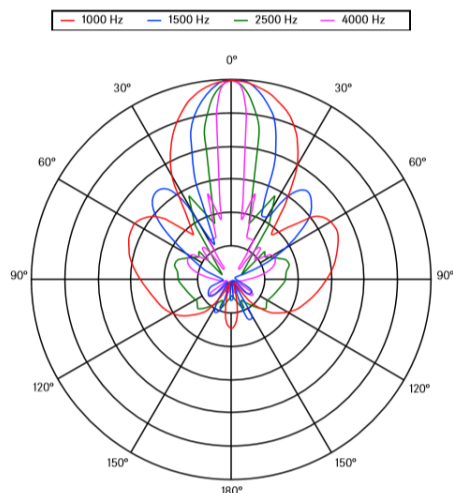
Ambient conditions

Temperature	Operation: 0—40°C (32—104°F), Storage: -10—60°C (14—140°F)
Relative air humidity	20—95 %, non condensing



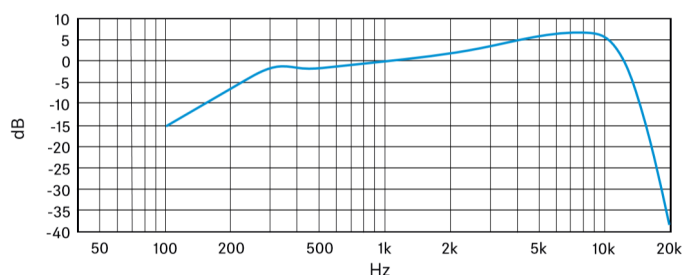
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Polar Pattern



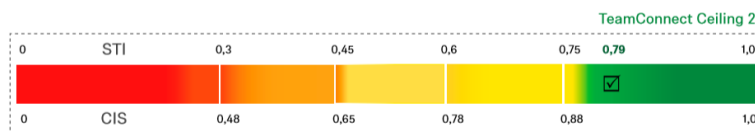
Frequency Response

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



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.

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).

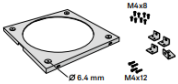
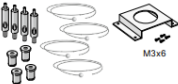
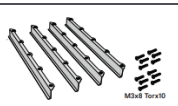
The microphone dimensions (L x W x H) shall be 590 x 590 x 43 mm (23.2" x 23.2" x 1.7"), weight shall be 5670 g (12.5 lbs). The operating temperature shall range from 0 °C to +40 °C (+32 °F to +104 °F). The storage temperature shall range from -10 °C to 60 °C (14 °F to 140 °F). The microphone array shall be tested according to UL 2043 rating.

The microphone array shall be the Sennheiser TeamConnect Ceiling 2.



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Item data

	Type	Article Number	Description	MSRP inc VAT (Subject to change)
	SL Ceiling Mic (White)	507488	TeamConnect Ceiling 2, a beamforming ceiling array mic with two Dante and one analog audio output, PoE powered	£4,590.00
	SL Ceiling Mic (Black)	509161	TeamConnect Ceiling 2, a beamforming ceiling array mic with two Dante and one analog audio output, PoE powered	£4,590.00
	SL CM FB	506846	Ceiling fixing bracket for SL ceiling mic, for installing the microphone directly under the ceiling	£189.00
	SL CM SK	508291	Ceiling Mic Suspension Kit	£109.00
	SL CM VB	508620	Ceiling Mic VESA Bracket	£109.00
	SL CM EB 625	508290	Ceiling Mic Extension brackets 625	£79.00
	SL CM EB US	508528	Ceiling Mic Extension brackets US	£79.00



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Optional—Vinyl Wrapping Guide



TeamConnect Ceiling 2 Vinyl Wrapping Guide



TeamConnect Ceiling 2, now with TruVoicelift

Optional—Vinyl Wrapping Guide

Wrap your TeamConnect Ceiling 2 in Vinyl for a Custom Finish

Whether you're trying to blend into the wooden ceiling of an historic building, match the modern aesthetic your architect envisioned, or simply add a fun design element to a room, the Sennheiser TeamConnect Ceiling 2 can be customized to fit your space. [\(Click to see examples\)](#)

The TeamConnect Ceiling 2 not only provides you with the most advanced ceiling microphone on the market, but also a blank canvas to fit your needs. We know that a simple black, white or gray square isn't always enough, with the TCC2's precision cut channels, the possibilities are only limited by your imagination.

Follow the guidelines below to begin customizing your TCC2.

1. Locate a Local Vinyl Wrapping Company

Most vehicle-wrapping companies can easily work with the TeamConnect Ceiling 2. A simple Google search for "vehicle wrapping company" should provide you with plenty of options.

2. Prepare Your Artwork

In order to have the full ceiling mic wrapped, including the sides, it's important to provide an image large enough to wrap around the full housing. Use the details below when preparing your artwork:

Image File Type(s): AI | EPS | PDF | JPG | TIFF – Do not use a PNG or BMP file as they are for digital only.

Image Size: 27" x 27" square – Wrapping company will take care of the light and channel cut-outs.

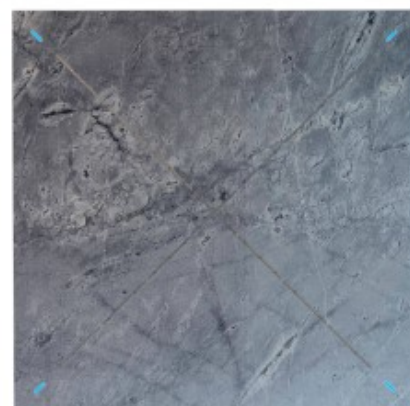
Image Resolution: 300 DPI

3. Send Artwork and TCC2 to be Wrapped

Send your final artwork and TCC2 to your chosen local wrapping company. The final product should have your artwork wrapped around the front and all sides of the housing. The wrapping company should also take care to trim the vinyl where the light and channel cut-outs are located on the housing, allowing the microphone to function without any interference from the vinyl.

In the UK we would suggest: <https://www.rebelstagegear.com/microphones>

Questions? Please contact your local Sennheiser Sales Manager.





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Deep Dive Online Training





**Register now
for free!**

Enter Group Key BC_m8hxj7 at:
training.soundacademy.sennheiser.com



Make your work easier and get Sennheiser support at home. Register now for the TCC2 training at:
<https://training.soundacademy.sennheiser.com>

TeamConnect Ceiling 2: Deep Dive Online Training for Integrators

We support you in your daily work with exclusive TCC2 insights, diverse application examples & valuable practical tips!

What are the challenges we can solve together?

Special customer requirements, challenging system planning or new developments such as hygiene standards and hybrid meetings: the consulting for customers can be as diverse and individual as the rooms and the IT landscape in which TeamConnect Ceiling 2 is used. That's why we have developed a special training course that will prepare you for every scenario.

What is the training process?

In short, concise video segments, you will get to know the TCC2 from a completely new perspective:

- Short training sequences (total length 90 minutes) on the Sennheiser online platform
- Clearly defined learning objectives
- Final exam incl. certificate (Avixa CTS approved) for download
- Lifelong access to the content

The online training takes place in the Learning Management System (LMS) of the Sennheiser Sound Academy in English.

Why should you participate?

After this TCC2 training, designed specifically for integrators, you will be equipped with:

- A deep understanding of the features and benefits of the TeamConnect Ceiling 2 microphone
- All the necessary skills for configuring and commissioning the product - without studying the manual!
- Technical background knowledge on topics such as voice lift & camera control
- Solution strategies from real customer cases with regard to application and installation variants
- Overview of the advantages for the customer
- 1 Avixa CTS Renewal Unit (RU)