



Sennheiser for Business

SENNHEISER

Table of contents

OUR STORY WITH BUSINESS	2	ACCESSORIES FOR BUSINESS	76	TECHNICAL DATA	88
Our Business Communication Unit	5	Antennas	78	Personal communication	90
Unified Communications	7	Chargers	78	DW Series	90
		Charging cases	79	PRESENCE™ Series	90
		Batteries	80	Speakerphone Series	91
		Power supplies	80		
OUR BUSINESS SOLUTIONS	8	Mic heads	81	Meeting & conferencing	92
		Gooseneck mics	82	TeamConnect Wireless	92
		Table stands	82	TeamConnect System	92
Business solutions matrix	11	Gooseneck	83	TeamConnect Ceiling	92
Personal communication	12	Floor stands	83	SL Wired Boundary Microphones	93
DW Series	14	Headworn microphones	84	Audio Distribution Networks	94
PRESENCE™ Series	16	Windscreens	84	ADN-W MICS	95
Speakerphone Series	18	Clip-on	85	Interpretation	95
		Cables	86		
Meeting & conferencing	20			Presentation	96
TeamConnect Wireless	22			SpeechLine Digital Wireless	96
TeamConnect System	24			Evolution Wireless 100 G3	98
TeamConnect Ceiling	30			Evolution Wireless 300 G3	100
ADN / ADN-W	34			Evolution Wireless 500 G3	101
SL Interpreter	42			Wireless Loudspeakers	101
				SpeechLine Wired Microphones	102
Presentation	44			IS Microphones	104
SpeechLine Digital Wireless	46				
Evolution Wireless G3	54			Visitor guidance & audio streaming	106
LSP 500 PRO	58			TourGuide 2020-D	106
SpeechLine Wired Microphones	62			TourGuide 1039	107
				MobileConnect	108
Visitor guidance & audio streaming	66			Comparison between solutions	110
TourGuide 1039	68				
TourGuide 2020-D	70			Glossary	112
MobileConnect	72				

Our story
with business



We are shaping the future of the audio industry, based on our history, our culture of innovation and our passion for excellence.

Our Business Communication Unit

Andy Niemann

Director Business
Communication



Our business solutions approach

The modern, fast-paced business world is constantly evolving and so is the manner in which businesses are communicating. In the era of “liquid teams” – project groups working together for a predetermined length of time, holding spontaneous, multi-location audio conferences that bring experts together from across the world into one meeting – focus has been set on flexible, intelligent communication solutions. These products need to not only exceed expectations in user-friendliness and audio performance, but also – more importantly – meet requirements of modern business communication such as reliability and multi connectivity to any infrastructure and any type of device belonging to the meeting participants, e.g. notebooks, smart phones, tablets, etc. Collaboration between people but also between systems and devices is key.

More than 70 years of innovation

70 years ago marks the beginning of our story, the story of Sennheiser. In 1945, Fritz Sennheiser founded “Laboratorium Wennebostel”, or Labor W, in the region of Lower Saxony called Wennebostel, laying the foundation of a company tradition that would lead the audio industry. Despite our long heritage, Sennheiser is always curious to discover the newest trends and technologies, which can be seen in both our consumer products and our business communication solutions. Beginning in 1985, the MIA 1060 multi-channel information system with infrared technology for guided-tours made long strides in product development. Our first digital discussion system for formal meetings, SDC 3000 made its debut in 2002, and finally the TeamConnect Family was launched in 2016. We are now proud to offer our customers a complete portfolio of business communication solutions, ideal to cater for every situation.

Innovation tailored to customers

We have set standards in the industry over the last years with products such as our first visitor guidance system MIA 1060 or ADN. Our classic products, such as the wireless microphone EW G3 300 and the TourGuide system, are continuing to pave this path. In the same way, our newly launched products such as TeamConnect Ceiling, our ceiling microphone system solution, and the portable conference system TeamConnect Wireless, lead the way. All of our commercially successful product developments have one thing in common, they combine our strengths and our understanding of customer needs. For over 70 years, Sennheiser has developed quality products in audio technology. During this time span we have seen our product solutions become increasingly important for modern, everyday business life. The reason for this is simple: we are truly end-user-focused, we acknowledge and understand our customers’ needs and reflect this in our product development.

Strive to do what we do best

All our work is directed towards one goal, making the life of our customers easier and more efficient, especially in business environments where being understood really matters and is key to success. We are a global business as well, conducting numerous audio and video conferences, meetings, and events with our colleagues from all over the world who depend on reliable products as well. With great attention to detail, we start testing new solutions internally in real life situations very early on to identify areas of improvement long before the product hits the market. Our goal for the future is to surprise our customers with more innovative and sophisticated products for day-to-day business life. For this, we will continue to follow our philosophy: our 70 years of experience, product development at the highest level and our understanding of customer needs.



Unified Communications

Moving towards a UC environment

A Unified Communications solution does precisely what it says: It brings together a company's voice, text and video based communication under one unified solution. The advantages of a Unified Communications solution include enhanced overall efficiency of a business through increased productivity and mobility, resulting in a positive return on investment. The ability to view colleagues' availability status and send instant messages reduces unnecessary emails and missed calls to an absolute minimum.



Whether in the office, at a meeting, travelling, or working from home, Sennheiser offers a comprehensive range of quality wired and wireless headsets and speakerphones to enhance your Unified Communications experience and helping you to stay in touch. The human voice is still at the heart of all Unified Communications systems. It's the swiftest and most effective way of delivering and receiving important information. A Sennheiser headset for Unified Communications is designed to work seamlessly with major UC platforms and completes the solution with the best possible sound for both user and listener – ensuring your message always gets across clearly.

Sennheiser Global Alliances

Sennheiser Global Alliances are strategic partnerships with other technology driven companies and vendors having a common goal - to simplify your daily business. Our aim is to be your one-stop solution provider for all your business communication needs.

For unified communications

Our audio solutions for unified communications offer seamless integration to your new and existing AV infrastructure, making online collaboration easy and reliable.

For assistive listening

We are a global leader for assistive listening devices from infrared, RF or app based solutions like MobileConnect. We are working with end user and technology providers to offer best in class solutions for assistive listening.

Our business
solutions





Business solutions matrix

Suggested Business Solutions for Applications	Personal communication	Meetings & conferencing	Presentation	Visitor guidance & audio streaming
ADN / ADN-W		●		
DW Series	●			
Evolution Wireless G3			●	
LSP 500 PRO			●	
MobileConnect				●
PRESENCE™	●			
SL Interpreter		●		
Speakerphone	●			
SpeechLine Digital Wireless			●	
SpeechLine Wired Microphones			●	
TeamConnect Ceiling		●		
TeamConnect System		●		
TeamConnect Wireless		●		
TourGuide 1039				●
TourGuide 2020-D				●



Personal communication

- DW Series
- PRESENCE™ Series
- Speakerphone Series



When business demands the best performance.

The DW Series of DECT wireless headsets has been designed to provide the ultimate in sound, quality and iconic design to demanding business users. With a wide choice of supremely comfortable wearing styles, professional users can choose their headset according to their personal needs.

DW Series

Key features:

- Single or double-sided wireless DECT headsets
- Made for all-day use in noisy environments
- Iconic design and excellent sound quality
- Intuitive user interface



DW Office

- DW Office is a single-sided DECT headset for your desk phone and softphone/PC
- Choose between ear hook, headband and neckband* wearing style
- Noise-cancelling microphone
- Headset supplied with leatherette ear pad



DW Pro 1

- DW Pro 1 is a single-sided DECT headset for your desk phone and softphone/PC
- Single-sided headband wearing style
- Ultra noise-cancelling microphone for noisy working environments
- Headset supplied with extra soft leatherette ear pad



DW Pro 2

- DW Pro 2 is a double-sided DECT headset for your desk phone and softphone/PC
- Double-sided headband wearing style
- Ultra noise-cancelling microphone for noisy working environments
- Headset supplied with extra soft leatherette ear pads

*Available as optional accessory



Hear and be heard
wherever.

With Sennheiser PRESENCE™ you get the best of both worlds: You get the benefit of superb sound and your listener gets to hear you clearly – no matter where you're calling from. Because PRESENCE™ intelligently adapts to different environments, it always delivers the best sound possible – especially for your listener. From a noisy office, through a windy car-park to your car, PRESENCE™ takes background noise in its stride and adapts seamlessly to give the consistent listening experience that professional communication demands.

PRESENCE™ Series

Key features:

- Best-in-class sound quality
- Increased range - up to 25 m
- 10 hours of talk time
- Seamlessly switch between softphone/PC and mobile calls
- Sennheiser Voice Clarity
- SpeakFocus™ and WindSafe™ Technology
- ActiveGard® Technology



PRESENCE™ UC

- Single-sided headset with flexible wearing on left or right
- Multi-connectivity – seamlessly switch between softphone/PC and mobile phone
- Optimized for major UC and softphone brands
- Skype for Business certified variant is available (PRESENCE™ UC ML)



Connect

BTD 800 USB dongle for optimized audio and music quality.



PRESENCE™ UC Carry Case

Carry case for the PRESENCE™ Mobile Series headsets.

Wearing styles



HSA - PRESENCE™

- Ear hook and ear sleeves
- Choice of wearing style with ear hook, ear sleeve (size S-L) or optional headband



PRESENCE™ Headband

- Headband accessory for the PRESENCE™ Mobile Series.
- Easily charged with the charger stand CH 20 MB or the charger cable CH 20 MB USB



Conference calls with style.

The Sennheiser Series of compact, portable speakerphones is designed to provide flexible conferencing solutions for business professionals. Literally plug in and talk, it is ideal for both personal and small group conferences. Streamlined styling, superb finish and a lightweight design signal high-end quality on the desk – or wherever you choose to make your office.

Speakerphone Series

Key features:

- Simply plug in and talk
- Exceptional sound for better communication
- Turn any environment into your office
- Simple to operate with intuitive user interface



SP 10

- Sennheiser Voice Clarity and echo cancelling for a natural speaking and listening experience
- Sound-enhancement profile for multimedia and music
- Connect to softphone/PC
- Optimized for major UC and softphone brands
- Skype for Business certified variant is available (SP 10 ML)



SP 20

- Sennheiser Voice Clarity and echo cancelling for a natural speaking and listening experience
- Sound-enhancement profile for multimedia and music
- Connect to softphone/PC and mobile phones
- Merges softphone/PC and mobile calls into one conference
- Optimized for major UC and softphone brands
- Skype for Business certified variant is available (SP 20 ML)



Meeting & conferencing

- TeamConnect Wireless
- TeamConnect System
- TeamConnect Ceiling
- ADN
- ADN-W
- SL Interpreter



Conquer
every room!

TeamConnect Wireless from Sennheiser is a portable wireless conferencing system for online meetings. TeamConnect Wireless can be set up in an instant and is extremely easy to use, letting any user quickly turn any room into a high quality online meeting venue for up to 12 or up to 24 participants. TeamConnect Wireless delivers the top quality audio that Sennheiser is known for, with unmatched ease of use, German built quality and award-winning design. Its wired and wireless connectivity options support Unified Communications requirements allowing use with any laptop or smart device. The system is available in tray-set versions for dedicated meeting rooms and a portable case-set for flexible meeting rooms. With TeamConnect Wireless online meetings become more efficient.

TeamConnect Wireless

Key features:

- Online meeting solution for up to 12 or up to 24 people
- For flexible or dedicated meeting rooms
- Connect with any device (BYOD) – smartphone, tablet or PC
- Wireless connectivity via Bluetooth or via USB or 3.5mm jack audio cable
- Supports multiple simultaneous audio channels, so additional callers can be added with ease
- Comes with a stationary tray or in a portable case set for simple storage and charging of satellites
- Best speech intelligibility, for better and more effective online meetings
- Award Winning Design



TeamConnect Wireless - Case Set

Portable turnkey audio solution for online meetings in flexible meeting rooms with up to 24 participants.



TeamConnect Wireless - Tray Set

Stationary turnkey audio solution for online meetings in dedicated meeting rooms with up to 24 participants.



TeamConnect Wireless - Tray-M Set

Stationary turnkey audio solution for online meetings in dedicated meeting rooms with up to 12 participants.



Integrable into
any infrastructure.

TeamConnect is a complete audio system that can be integrated into any technical infrastructure and various spatial conditions. The unified communications solution enables real platform-independent collaboration and setting up conferences with personal business devices such as smartphones, notebooks or tablets. All system components of reliable Sennheiser quality are composed for optimum virtual collaboration.

TeamConnect System

All components at a glance



Integration – Integrates into any infrastructure or conference room

The TeamConnect conferencing system is an easy to operate, durably reliable audio solution for PC/telephone conferences. Whether landline or Unified Communication, permanently installed or for flexible use – TeamConnect can be integrated into any technical infrastructure and various spatial conditions.

Connectivity – Easier connections generate higher efficiency

“Bring-your-own-device” conferences can be easily set up with a smartphone, notebook or tablet. Connections to ongoing conferences can be established by plug-and-play.

Compatibility – The conferencing system for unified communications

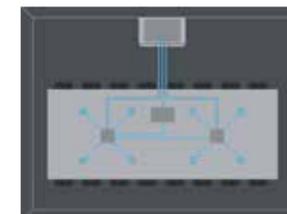
All are connected, all understand each other – TeamConnect enables real, platform-independent collaboration. It is compatible with Skype for Business, OpenSpace, GoToMeeting, IBM, Cisco, Avaya ...

Quality – All from one source.

Everything in Sennheiser quality

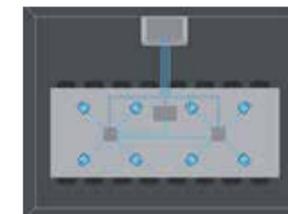
TeamConnect conference systems comprise of components of reliable Sennheiser quality, composed for optimum virtual collaboration within your company. Different bundle configurations, individually adjusted to spatial conditions and team constellations, are available.

TeamConnect System Bundles



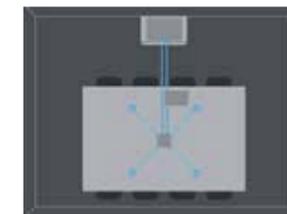
Large Fix

Up to 16 participants -
with in-table microphones



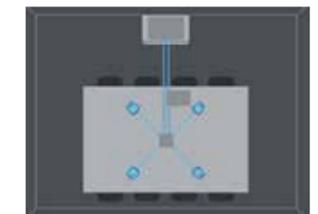
Large Flex

Up to 16 participants -
with on-table microphones



Standard Fix

Up to 8 participants -
with in-table microphones



Standard Flex

Up to 8 participants -
with on-table microphones

TeamConnect System

**SL TeamConnect CU1**

The TeamConnect Central Unit is an automatic mixer that processes audio inputs (e.g. microphones, telephone audio, computer audio) and outputs (e.g. loudspeakers) for web and teleconferencing applications. The unit provides for network/landline connections, as well as ten audio input channels (up to eight microphones and two auxiliary audio devices) and eight audio output channels. Following installation, system operations are controlled via personal business device (e.g. tablet, smartphone or computer).

**SL TeamConnect CB1**

The TeamConnect Combox, connected to the Central Unit, provides the audio interface to the system within the meeting room. It allows for connection of USB audio and headset audio. For web conferencing applications, the Combox processes all audio signals from the PC to the TeamConnect system.

**SL Mic Hub 1**

The SL Mic Hub 1 simplifies the cabling for integrated audio conference systems. It reduces the amount of cables that have to be integrated by a significant amount by bundling up the audio signals into a single Cat 5 cable.

**SL Loudspeaker 52 A W**

Optimized for speech intelligibility, the unobtrusive, active SL Loudspeaker 52 A W reproduces spoken word as naturally as possible.

**SL Mobile Adapter 1**

The SL Mobile Adapter 1 allows to connect mobile devices easily via 3,5 mm jack to the TeamConnect Combox. It is compatible to all relevant devices like smartphones, iPhone, iPad and Blackberry.

TeamConnect System

SL Wired Boundary Microphones

Every room is different. They vary in size, interior materials, and shape. For each room, the type and setup of the MICs play an important role to provide the best audio experience. To ensure our high standard of quality, we recommend using a selected range of the SpeechLine microphones to compose a superior TeamConnect system.

**MEB 114-S TC ***

The sturdy boundary layer microphone MEB 114-S TC is the perfect on-table microphone solution for the TeamConnect Audio Conferencing System. The fixed cable allows a simple and direct connection to the TeamConnect system via SL Mic Hub 1. The integrated mute button with bi-color status LED controls the mute function of the whole system and gives a clear visual status feedback. Thanks to its rugged housing and its high-quality microphone capsule the MEB 114-S TC ensures the best speech intelligibility. It features fixed cable (3m).

**MEB 102-L TC / MEB 104-L TC ***

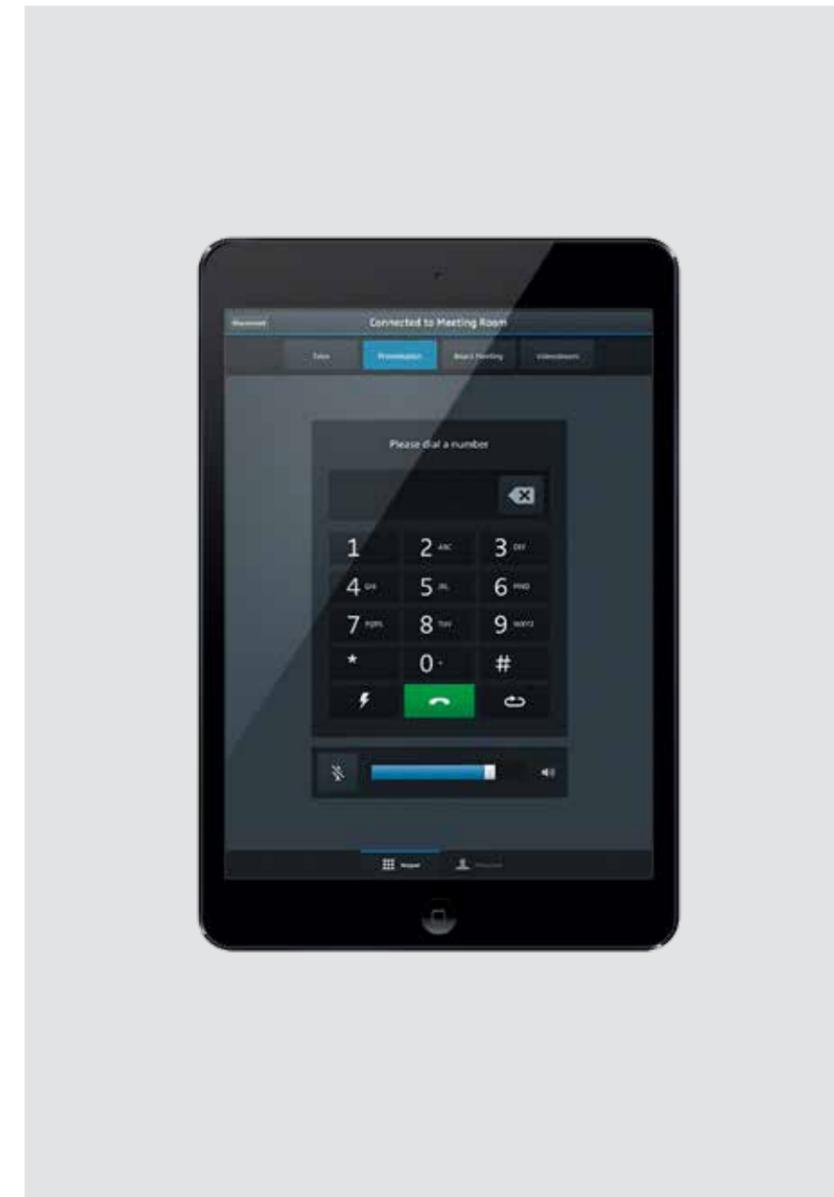
Compact and unobtrusively designed, the boundary layer microphones MEB 102-L TC (omnidirectional) and MEB 104-L TC (cardioid) fits any style of interior and can be easily installed into surfaces such as tables or ceiling tiles. Each of them features a proven Sennheiser microphone capsule for the best speech intelligibility, and is protected by a rugged housing. With a bi-color LED ring for status indication. Cable included (3m).

**MAS 1 TC / MAS 2 TC ***

Elegant and low-key in its appearance, the sturdy MAS 1 TC and MAS 2 TC logic control button makes logic control a breeze. Connected to the SL Mic Hub 1 the buttons can control the logic functions mute and hook. For clear status indication the MAS 1 comes with a bi-color status indicator. Cable included (3m).

* This product is available in:



**TeamConnect App**

The Sennheiser TeamConnect App allows easy operation of the system by any meeting participant. Dial directly from an iPad or iPhone to start a meeting instantaneously. No additional dialer or remote control is needed!

The App "TeamConnect" can be downloaded free of charge from the Apple iTunes Store.



New dimensions of conferencing.

Sennheiser's new conference solution with a ceiling microphone and automatic beamforming technology takes meetings to the next dimension. TeamConnect Ceiling is a perfect fit for any existing interior design concept or infrastructure. Whether integrated into the ceiling or in a suspended version, the understated design goes well with any decorating style, frees meeting tables of visible cables and keeps maintenance work at a minimum. The remaining system elements (TeamConnect Central Unit, Combox and Active Loudspeakers) can be installed in the room as desired. One SL Ceiling Mic covers an area up to 60m². For larger groups, the system is easily expandable with additional ceiling mics.

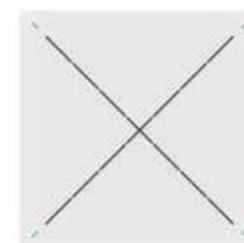
TeamConnect Ceiling

All components at a glance



TeamConnect Ceiling is a combination of a ceiling microphone featuring the latest beamforming technology and a TeamConnect Central Unit with DSP for echo cancellation and auto mixing. The ceiling microphone allows complete flexibility to the user to speak and be heard anywhere in the room without worrying about the microphone set up.

- Nearly invisible integration with its sleek design and unobtrusive installation variants
- Assembled by hand in Germany to meet proven Sennheiser quality
- Exceptional array-microphone with automatic beamforming technology focusing on the speaker
- Minimal support during normal operation
- Bring Your Own Device: Regardless of smartphone, tablet, or notebook the meeting participants can call in using their preferred device



SL CEILING MIC

- Coverage up to 60m²
- New beamforming-technology with automatic speaker focus
- No desk-wiring or desk-installation
- Unobtrusive and high-quality design



Installation in the ceiling



Installation on the ceiling



Suspended installation



SL Ceiling Mic Configuration Manager

The SL Ceiling Mic Configuration Manager can be used during the installation to fine-tune the following system settings:

- Beamforming parameters (threshold, opening angle, tracking speed)
- Microphone gain
- LED visibility

Compatibility:

- TeamConnect App: iOS
- TeamConnect Dialer: any OS browser
- SL Ceiling Mic Configuration Manager: Win 7 / 8 / 10



Set just the right tone at conferences.

Structure, substance and clarity are the fundamentals of successful communication; these are the outstanding characteristics of the ADN digital conference solution. Sennheiser's top-quality sound, design, and manufacture mean that, with the ADN Digital conference solution, you will create an ideal environment for a successful conference.

Audio Distribution Network



ADN C1

The digital chairperson unit ADN C1 offers high speech-intelligibility in a modern design. The goose-neck microphone is equipped with a super-cardioid capsule that attenuates unwanted ambient noise efficiently. A twin-loudspeaker system guarantees a homogenous sound level in the meeting room. The cabling of the units, which is done by CAT5 cables and hidden connections can be optionally secured with strain reliefs for fixed installations.



ADN D1

The digital delegate unit ADN D1 offers high speech-intelligibility in a modern design. The goose-neck microphone is equipped with a super-cardioid capsule that attenuates unwanted ambient noise efficiently. A twin-loudspeaker system guarantees a homogenous sound level in the meeting room. The cabling of the units, which is done by CAT5 cables and hidden connections can be optionally secured with strain reliefs for fixed installations.



ADN IK1

The ADN Installation Kit allows a very easy and elegant installation of ADN D1 or C1 wired units into conference tables. One set comes with 5 units of Top and Bottom frames for easy installation of the ADN conference units.



ADN CU1

The digital discussion central unit ADN CU1 powers up to 40 and controls up to 400 connected delegate and chairperson units. It offers full configuration in a quick and easy way over the menu display in several languages. Alternatively the integrated software package, Conference Manager can be used directly on the CU1 by connecting a screen, mouse and keyboard.



ADN PS

The cascable ADN PS Power Supply allows the extension of the conference and discussion system to up to 400 conference units. It also increases the failure-safety of the system by allowing redundant ring-cabling (redundancy rings) on its two double conference ports. Up to 40 units can be connected in two rings and up to 70 units in alternative branch cabling (daisy-chain branches). Status LEDs at the front of the 19" rack-mount unit indicate the type of cabling to easily monitor the system.



When it counts.

The ADN-W system is an ideal solution for applications in assemblies, congress centers or smaller conference rooms where no fixed audio infrastructure is installed. The wireless delegate and chairperson units can be freely positioned on the tables and shared between delegates if necessary. Up to 28 usable frequencies ensure a reliable and interference-free conference. Sennheiser gooseneck microphones allow for comfortable speaking whilst reducing the pickup of unwanted side noise. Setup and configuration is done within minutes due to the plug and play character of the system. The Li-Ion battery packs last for 25h while the twin loudspeakers reproduce the speech with best-in class intelligibility. The complete system can be stored, transported and recharged easily with the modular ADN-W Cases.

Audio Distribution Network Wireless

Key Features:

- Reliability: 28 usable frequencies and diversity antennas ensure interference-free conferences
- Intelligibility: Sennheiser microphones and twin loudspeakers for best acoustic performance
- Flexibility: One central unit for both wired and wireless units allow great flexibility



ADN-W D1

The ADN-W D1 wireless delegate unit offers excellent speech intelligibility and ease of use. Powered by the exchangeable ADN-W BA battery pack, the unit offers more than 20 hours operating time. The delegate unit features a microphone key that functions either as an on/off switch or as a request-to-speak button. The unit is equipped with a high-performance broadband twin loudspeaker system for decentralized sound reinforcement.



ADN-W C1

The ADN-W C1 wireless chairperson unit offers excellent speech intelligibility and ease of use. Powered by the exchangeable ADN-W BA battery pack, the unit offers more than 20 hours operating time. The chairperson unit features a microphone key that functions either as an on/off switch or as a request-to-speak button, a Next key to grant speaking privileges and a Priority key to deactivate all active conference units. The unit is equipped with a high-performance broadband twin loudspeaker system for decentralized sound reinforcement.

Audio Distribution Network Wireless

**ADN CU1**

The digital discussion central unit ADN CU1 powers up to 40 and controls up to 400 connected delegate and chairperson units. It offers full configuration in a quick and easy way over the menu display in several languages. Alternatively the integrated software package, Conference Manager can be used directly on the CU1 by connecting a screen, mouse and keyboard.

The intuitive workflow of the conference manager allows a fluent monitoring and control of the conference. With its low-noise fan the central unit can be used directly in the meeting without disturbing it.

**ADN-W MIC**

The ADN-W MIC gooseneck microphones are detachable and available with different capsules and in different lengths. The ADN-W MIC 15 variants are equipped with a Sennheiser super-cardioid capsule whereas the ADN-W MIC 36 versions include the famous Sennheiser ME 36.

**ADN-W AM**

The ADN-W AM antenna module is designed to ensure reliable wireless bidirectional communication with the ADN-W D1 and C1 wireless conference units in both the 2.4 GHz and the 5 GHz frequency band. The antenna module easily connects to the ADN CU1 central unit via the ADN bus cable. The ADN-W AM features a built-in 5/8" mounting thread (with a 3/8" thread insert) that allows easy mounting on walls or ceilings.

Audio Distribution Network Wireless

**ADN-W BA**

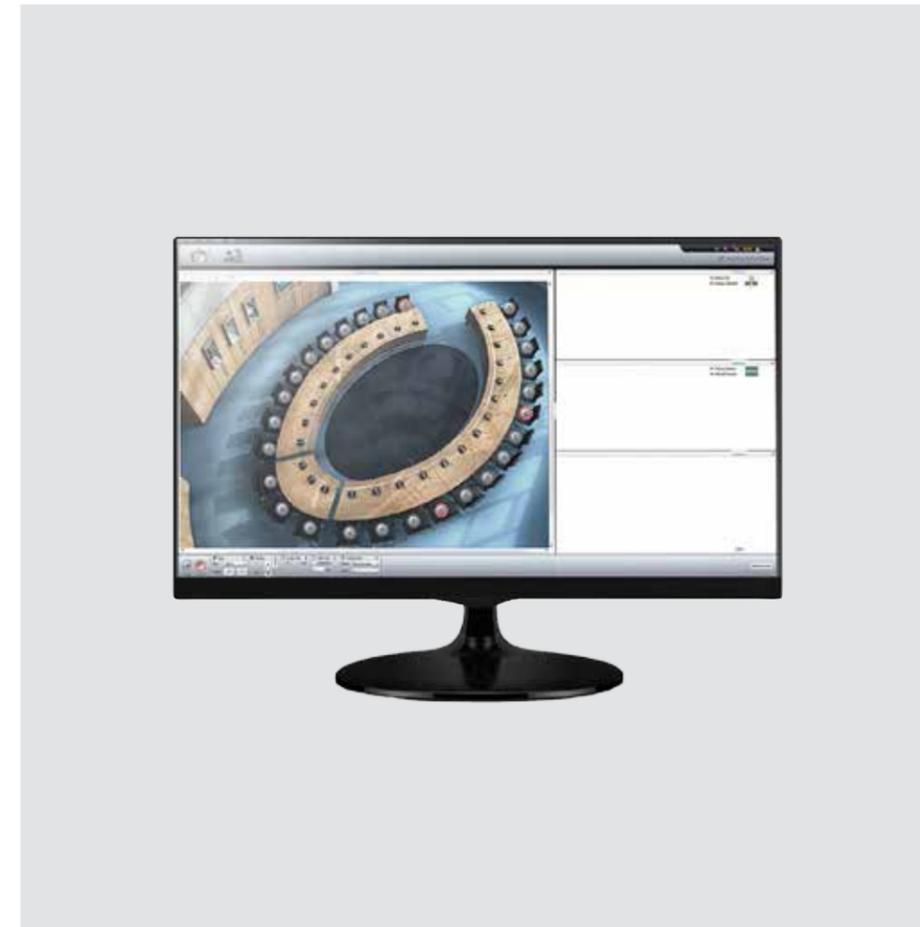
The ADN-W BA Lithium-Ion battery pack is designed for powering the ADN-W C1 and ADN-W D1 wireless conference units. A fully charged battery pack offers an operating time of more than 20 hours. The battery charge status can be checked by pressing the test button or via the Conference Manager software. The ADN-W BA features two LED indicators for both battery and RF status. The battery pack can be charged separately using the NT12-50C DC power supply or the ADN-W L 10 charger or while inserted in the conference unit using the ADN-W CASE UNITS charging case.

**ADN-W L10**

The ADN-W L 10 charger simultaneously charges up to 10 ADN-W BA battery packs. The charging time for full charge is approximately 4 hours. A status display with 10 LEDs allows to monitor the overall charging process. The battery charge status of an individual battery pack can be checked by pressing the test button. The charger can be mounted in a 19" rack.

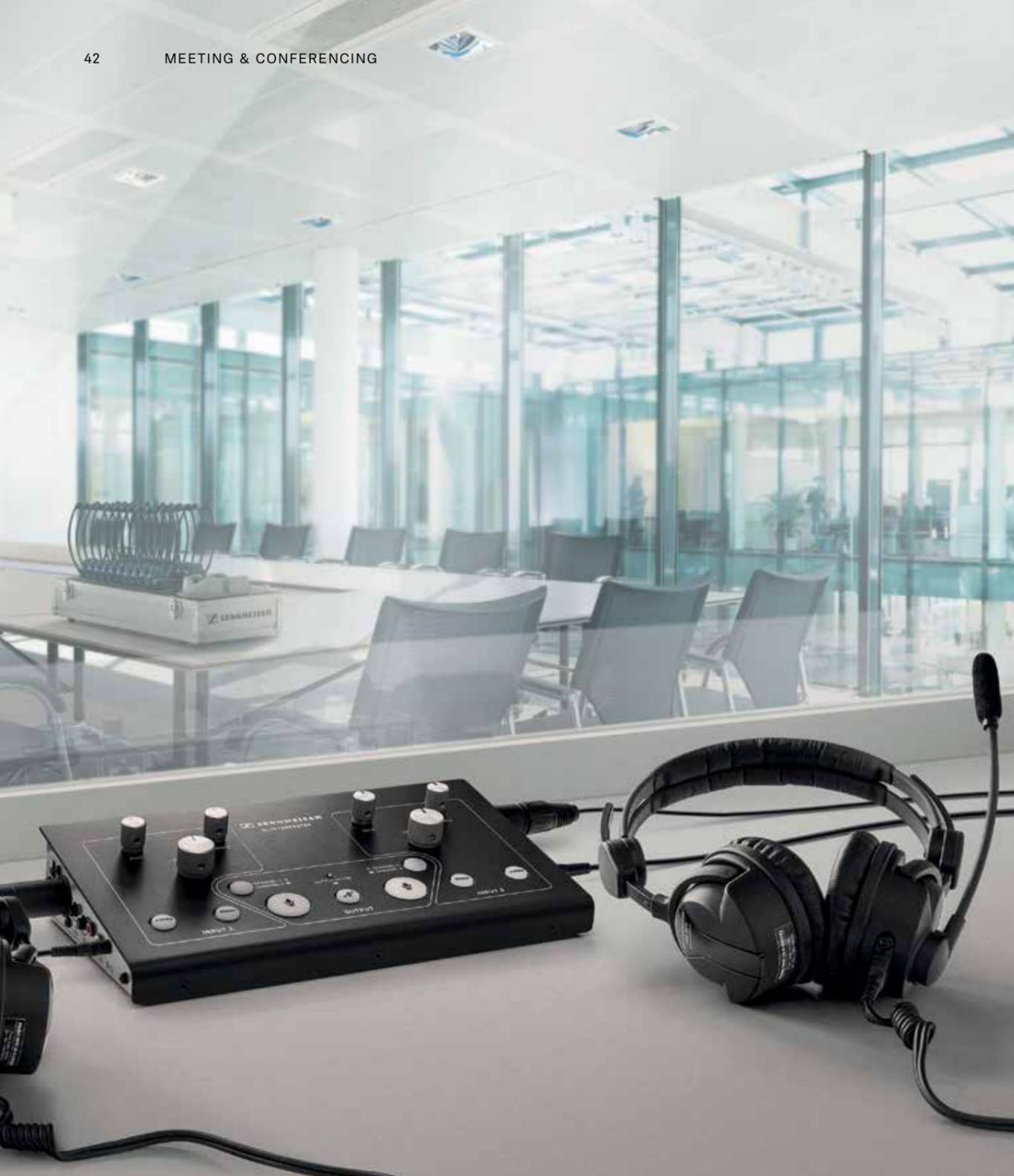
**ADN-W CASE**

The ADN-W CASE transport and charging case contains three dedicated, stackable modules. The BASE module consists of a case bottom with wheels and a case lid, the UNITS module allows to charge and transport 10 complete wireless conference units and the CENTRAL module has padded compartments to accommodate all other system components and accessories. Due to its modular design, the ADN-W CASE transport and charging case can be easily adapted to the size of the conference system.



ADN Conference Manager software

With the ADN digital conference system, organising a successful conference is child's play. After connecting the monitor, keyboard and mouse, the system can be controlled almost intuitively – whether you use an external PC or the central unit itself, the conference manager software provides an extremely clear user interface that is very easy to use: producing a custom seating plan, adding a picture of the conference room as a background, adjusting the volume level, setting the conference mode, etc. – you can control everything simply and reliably.



The right word.
The right language.

The SL Interpreter perfectly completes either the Tourguide 2020 or the Tourguide 1039 portfolio to create a compact, quick to install and easy to use interpretation setup for presentation-style conferences or events alike. The inbuilt distribution amplifier allows to cascade up to 4 SL Interpreters for translation into 1 - 4 languages.

SL Interpreter



SL Interpreter

The SL Interpreter is a compact and stand-alone audio control center for simultaneous interpretation of one or more languages. It allows one or two interpreters to monitor floor or relay sources, activate microphone inputs, and route the interpretation signal to different outputs. Ideal for presentation-style conferences, where a floor and a single relay language are used.



PC 151

The PC 151 is the entry level headset. Still it delivers detailed sound even at low volumes. The large velour ear pads keep the interpreter comfortable for long interpretation sessions. The adjustable, noise-cancelling pro microphone reduces ambient noise for extra clear communication.



HME 26-II-600 (4)

The HME 26-II-600 (4) is the more professional and sophisticated headset which provides the perfect characteristics for interpretation. It is lightweight and features a very high wearing comfort. The dynamic and closed headphones provides a perfect passive noise attenuation and ensures superior audio quality. The noise-compensating microphone performs extraordinary speech intelligibility.



MEG 14-40

The MEG 14-40-L features a made in Germany quality gooseneck microphone on an attractive price. Together with the HD26 pro it offers the perfect entry level solution to those interpreters who prefer to have the microphone fixed to the interpreter console.



HD 26 PRO

The HD 26 PRO provides a very accurate sound reproduction for demanding applications. Soft ear cushions and low weight guarantee outstanding wearing comfort even in long term use. Together with the ME 34, 35 and 36 mounted on the MZH goosenecks the HD 26 pro offers the perfect solution for those interpreter who prefer to have the microphone fixed to the interpreter console and enjoy optimum sound quality and wearing comfort.



ME 34, 35 and 36

The ME 34, 35 and 36 together with the MZH 3042 gooseneck and the HD26 pro offer the perfect solution to those interpreters who prefer to have a more sophisticated microphone fixed to the interpreter console.



Presentation

- SpeechLine Digital Wireless
- Evolution Wireless G3
- LSP 500 PRO
- SpeechLine Wired Microphones



Dedicated to
speech.

SpeechLine Digital Wireless is a presentation solution dedicated to speech. The digital wireless microphone system is a future-proof solution that's easy to set up, use and manage. A microphone which lets presenters concentrate on their words, not on the technology.

SpeechLine Digital Wireless



All components at a glance

SpeechLine Digital Wireless comprises of mobile transmitters tailored for presentation, speech optimized microphone capsules (condenser capsules, lavalier or headworn microphone) and an easy-to-integrate stationary receiver. For convenience, the system relies on lithium-ion technology with a battery lifetime of more than 15 h and flexible charging solutions of multi-device chargers or USB-charging on the fly.

All features at a glance



Automatic frequency management
No frequency planning or manual fine tuning required due to Auto Frequency Management.



Automatic audio level management
Adjusts gain levels and sensitivity automatically and always guarantees superior audio clarity.



Software based status monitoring
Easy monitoring and maintenance via Sennheiser Control Cockpit Software.



Optimum speech intelligibility
Audio presets for male/female voices, and preconfigured sound profiles for dedicated settings.



Automatic interference management
Actively avoids wireless transmission disturbances by quickly switching to an available frequency.



Dante™ interface
The SL DI 4 XLR converts your signal and feeds into your Dante™ system.



Convenient recharging
Powerful Li-Ion technology: Outstanding battery life up to 15 h.



License-free
License-free operation, no registration required.



Future-proof 1.9 Ghz
A smart investment in a future-proof frequency range.



Advanced 256-bit AES encryption
The strongest encryption algorithm for secure wireless transmission.



Multichannel operation
Automatic Mode for up to 20 links (dependant on local regulations).



Multi-room mode
Adjustable transmission power for parallel use of multiple systems.

SpeechLine Digital Wireless

**SL Rack Receiver DW**

- Automatic frequency and interference management
- Speech optimized automatics and sound profiles
- Clear and easy focused user interface with OLED display
- Ethernet connectivity (IPv4 and IPv6)
- Media control protocol integration
- Secure 256 bit AES encryption
- Remote controllable
- Quick setup pairing process

**SL Handheld DW**

- Automatic frequency and interference management
- Speech optimized condenser microphone capsule
- Clear and easy focused user interface
- Long operation time (up to 15 hours)
- Advanced power management and Li-Ion rechargeables
- Secure 256 bit AES encryption
- Remote controllable

**SL Bodypack DW**

- Automatic frequency and interference management
- Lockable 3.5 mm jack socket
- Clear and easy focused user interface
- Long operation time (up to 15 hours)
- Advanced power management and Li-Ion rechargeables
- Secure 256 bit AES encryption
- Remote controllable

**SL Headmic 1**

- Most comfortable-to-use presenter microphone
- Outstanding sound quality, omni-directional
- Sleek and unobtrusive appearance
- Extremely lightweight, but sturdy metal frame
- Soft case for convenient transport and storage
- Available in black, beige and silver

**MKE 1**

- Extremely small size (3.3 mm capsule diameter)
- Excellent speech intelligibility; clear, pleasant treble
- Thin (1 mm diameter) and sturdy cable, extremely flexible, minimum handling noise
- Very resistant to perspiration due to protective membrane

**Dante Interface**

The SL DI 4 XLR is a four input Dante™ interface. Easily add wireless microphone receivers or add mic/line inputs to a Dante™ system. The small form factor of the SL DI 4 XLR allows it to be mounted almost anywhere and to get close to audio sources to minimize interference-prone analog wiring. The SL DI 4 XLR features four balanced mic/line XLR inputs, each with software selectable +48 V phantom power and selectable gain levels.

**SL Boundary 114-S DW**

- Designed especially for speech
- Optimized for speech transmission in conference rooms
- Wireless charging or USB charging
- Charging status LEDs

**SL Tablestand 133 DW**

- Automatic frequency and interference management
- Solid XLR 3 connection
- Clear and easy focused user interface
- Long operation time (up to 10 hours)
- Advanced power management and Li-Ion rechargeables
- Secure 256 bit AES encryption
- Remote controllable
- Wireless charging enabled

**SL Tablestand 153 DW**

- Automatic frequency and interference management
- Solid XLR 5 connection
- Clear and easy focused user interface
- Long operation time (up to 10 hours)
- Advanced power management and Li-Ion rechargeables
- Secure 256 bit AES encryption
- Remote controllable
- Wireless charging enabled

**CHG 4N**

- Seamless network integration
- 4 individual charging bays
- Battery status indication for each bay
- Full remote control
- Ethernet connectivity (IPv4 and IPv6)
- Media control protocol integration

**CHG 2**

- Two bay charger for SL DW, ew D1 and AVX
- Universal charging slots for either bodypack or handheld
- External DC adaptor

**CHG 2W**

- Wireless charging base
- Charging up to two mobile devices
- It can be used both with the SL Tablestand 133-S DW, SL Tablestand 153-S DW and with SL Boundary 114-S DW

SpeechLine Digital Wireless Sets

**SL Handheld Set**

The sleek but robust SL Handheld DW is optimized for speech in presentations or lectures where every word matters.

**SL Lavalier Set**

Sennheiser's smallest lavalier microphone set optimized for speeches and lectures.

**SL Headmic Set**

An extremely unobtrusive and comfortable-to-use headworn microphone set. Dedicated to Speech.

**SL TS 153 GN-L Set DW**

- Highly flexible solution for ad hoc press conferences or podium discussions
- Convenient charging via the optional wireless charging base CHG 2W

**SL TS 133 GN Set DW**

- Highly flexible solution for podium discussions, speeches and lectures
- Convenient charging via the optional wireless charging base CHG 2W

**SL Boundary Set**

- An unobtrusive low-profile and easy to use
- Boundary layer microphone with all relevant components in a set providing wireless or USB charging

SpeechLine DW Multi-Room Mode

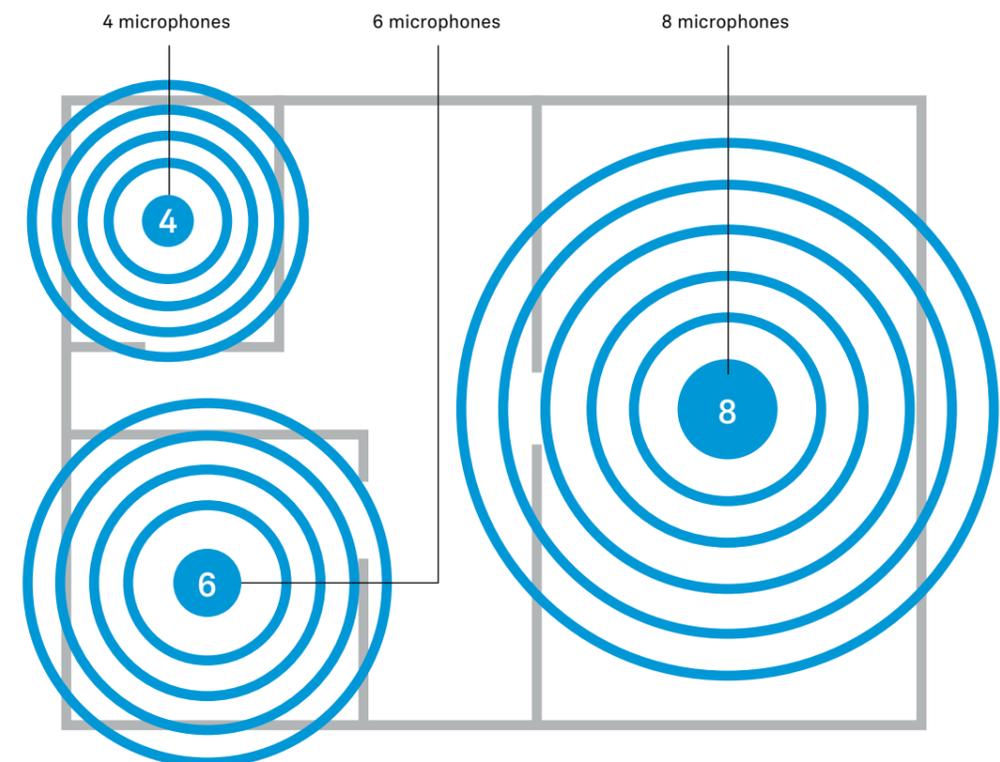
SpeechLine DW uses the future-proof, license-free 1.9 GHz frequency range*. In order to make the most of this frequency range, SpeechLine DW features two operating modes. The Automatic Mode ensures the simplest startup and a reliable, maximum range for up to 20* simultaneously used links. In Multi-Room Mode, the transmission power is adjusted to allow a significantly larger number of links. These setting options make SpeechLine DW ideal for a wide variety of projects.

Multi-Room Mode offers you the following advantages for planning and integration:

- Two operating modes for optimal use of the frequency range
- A reliable, flexible microphone solution for many different project sizes
- Simple planning and configuration
- No frequency planning required thanks to Automatic Frequency Management and Interference Management

* Depending on frequency variant due to local regulation

Multi-Room installation





Control Software: Sennheiser Control Cockpit

Sennheiser Control Cockpit is the central software for easy handling, control and maintenance of the entire SpeechLine Digital Wireless system. The easy-to-use Sennheiser Control Cockpit provides a global overview of all network enabled SpeechLine Digital Wireless devices at all times. It shows all status information at a glance and makes setting adjustments for one or multiple devices at the same time very easy. The room overview connects the locations of all components to their respective status information, so the user always knows the location and status of a specific device. The Sennheiser Control Cockpit is accessible everywhere in the intranet via web browser across all platforms. As a result, the software allows you to manage even huge setups with hundreds of devices with very low efforts.

The Control Cockpit is accessible on Windows, iOS, MacOS and Android.



Professional wireless solutions for large stages and multi-channel applications.

One system for exacting demands: G3 combines analog system benefits with sophisticated third generation technology. What this gives you: Extreme ease-of-use for up to 32 channels, huge UHF bandwidth, synchronization via software (ew 300 G3 and better) or infrared, and sophisticated antenna technology to truly satisfy all stage conditions. Tried & tested features make the configuration, channel management and operation all child's play. The three G3 Series ew 100, ew 300 and ew 500 meet every expectation in these respects – by professionals for professionals.

Evolution Wireless G3

Key features

- Extended 42 MHz bandwidth, a total of 1680 frequencies and 20 fixed frequency bank
- True Diversity Technology
- The Series effectively supports up to 32 channels in parallel – sufficient for complex installations
- The scan function detects free channels, while the infrared synchronization takes care of the receiver/transmitter configuration – fully



ew 100 Series G3 Presentation Sets

- 20 pre-coordinated frequency banks
- 1 user bank with up to 12 compatible frequencies per bank
- 42 MHz switching bandwidth
- Integrated equalizer
- Soundcheck Mode continuously checks the RF and audio levels



ew 300 Series G3 Presentation Sets

- 20 pre-coordinated frequency banks
- 6 user banks with up to 24 compatible frequencies per bank
- Sync function links from transmitter to receiver with a button
- Maximum operational reliability in multichannel applications
- Programmable mute functions
- Remote control via WSM



ew 500 Series G3 Presentation Sets

- 20 pre-coordinated frequency banks
- 6 user banks with up to 32 compatible frequencies per bank
- Vocal Sets include microphone capsules from evolution 900 series
- Industry-standard MKE 2-ew Gold lavalier microphone
- Remote control via WSM



Wireless Systems Manager Software (WSM)

Sennheiser's Wireless Systems Manager is a professional software solution for remotely monitoring and controlling wireless systems. Its intelligent features make the WSM the ideal choice for TV studios, live events, as well as musical productions. Wireless Systems Manager 4.2 for Mac and Windows assists users in setting up and coordinating the frequencies of wireless microphones and personal monitors by having the most important parameters handily displayed on a single screen.

- All devices can be arranged individually to have all important information on one screen
- In the professional setup frequency scans can be done and free or occupied areas in the spectrum can be marked
- The professional setup calculates frequency setups free from intermodulation automatically and rates them by "robustness"
- After calculating frequencies the areas free from intermodulation can be allocated to the connected systems



Save time. Yours.

When convening audiences with professional sound you often are constrained to certain factors. Technical specifications, audience sizes, spatial arrangements and, last but not least, time and cost pressure require detailed planning for each and every venue. In spite of this, almost every set-up situation poses last-minute problems that necessitate workarounds. Fresh Solutions to Public Address. Once the show is on, it's your job to serve pristine sound. Different input sources and diverse live situations call for your attention. Usually you're tied to a mixing console in one spot – so to keep the mix in control and the show in flow you're often required to compromise.

Sennheiser now offers an integrated PA system like none before. LSP 500 PRO – it's a real game changer: Imagine a set-up scenario where things work seamlessly together. Imagine a complete event under remote control.

LSP 500 PRO

Key features:

- Complete wireless integrated PA system
- Wireless control for up to 20 LSP 500 PRO via iPad or Windows device
- Integrated Bluetooth audio streaming
- Integrated USB player/recorder
- Mixing function for: Up to 3 wireless microphones, USB player, Bluetooth audio input, 2 wired audio inputs
- Professional 2-way speaker
- Battery powered
- 3 slots to integrate ew G3 wireless microphone receivers



LSP 500 PRO

The LSP 500 PRO is a wireless two-way audio system for professional use. It has been designed to address audiences at indoor and outdoor events without the need of any power or audio cables. The LSP 500 PRO allows you to install up to three receivers for wireless microphones. You can also play music wirelessly via a Bluetooth connection. Alternatively, you can use the integrated media player to play music from your USB storage device. For larger events you can send the sum signal of one LSP 500 PRO via a wireless transmitter to other LSP 500 PRO devices. The LSP 500 PRO is remote controllable via iPad App or Windows Remote Control Software, which serves as a mixing console and permits the control of up to 20 LSP 500 PRO simultaneously.



Remote Control Software

Sennheiser's remote control software for the LSP 500 PRO professional wireless PA system turns the iPad or Windows device into a mobile mixing console. You only need to connect the Sennheiser LSP 500 PRO with an existing wireless network and you can start operating your LSP 500 PRO directly from the iPad or Windows device. The Software allows to configure all functions and inputs of the LSP 500 PRO. Using Sennheiser evolution wireless receivers for wireless microphones of ew 300/500 G3 series, the Software gives information about battery and mute status of the connected wireless microphone transmitters. The functionality of the software includes the control and configuration of up to 20 LSP 500 PRO at the same time. That provides a completely wireless operation of a large sound setup at large events.



True to the word.

The SpeechLine Wired installation microphones enable flexible, scalable setups covering the entire bandwidth of applications in the areas of meetings and presentations, all the while offering premium quality in terms of speech intelligibility, workmanship and product design.

SpeechLine Wired Microphones

Key features:

- Outstanding design: Stylish, discreet design that fits seamlessly into any room
- Optimized for speech: Clear sound and amazing quality, for any speech application and in any situation
- Simple integration: Compatibility with all DSP systems; seamless integration into existing AV environments
- Versatile setup: The series' modular principle allows you to adapt your solutions flexibly for any number of different requirements



MEB 114 *

Thanks to its sturdy housing and high-quality microphone capsule, the MEB 114 guarantees optimum speech intelligibility.



MEB 114-S *

Thanks to its sturdy housing and high-quality microphone capsule, the MEB 114 guarantees optimum speech intelligibility (S variant = two-color LED ring for status display).



MEB 102 / MEB 102-L *

The MEB 102 (-L) boundary installation microphone is suitable for straightforward installation on tables or in ceiling elements (L variant = two-color LED ring).



MEB 104 / MEB 104-L *

The MEB 104 (-L) boundary installation microphone is suitable for straightforward installation on tables or in ceiling elements (L variant = two-color LED ring).



MAS 1 *

The MAS 1 is a robust microphone button with an intuitive pictogram.



MAS 133

The MAS 133 is an XLR inline switch box for simple microphone control and status indication, and can also be used without a DSP system. Connected between the microphone and the mixing desk, it supplies power to the MAS 1 microphone button.

* This product is available in:



SpeechLine Wired Microphones

**ME 34, ME 35, ME 36 ***

The ME 34 (cardioid) and ME 35 (super cardioid) condenser microphone heads are incredibly versatile capsules with great acoustic performance. The ME 36 (super-cardioid/interference tube) mini shotgun microphone offers outstanding background noise suppression.

**MZH 30xx SERIES**

The matt-black-painted goosenecks are suitable for use with ME 34, ME 35 and ME 36. They are available in the lengths 15, 40, 60 and 70 cm and optionally integrated light ring.

**MEG 14-40(-L),
MEG 14-40-L-II**

The MEG 14-40 is a flexible, 40 cm gooseneck microphone with an XLR-3 connection and built-in Sennheiser KE10 cardioid microphone capsule. The L variants feature an LED ring that indicates when the user has permission to speak.

**MZH 3015 / ME 36 ***

The ceiling microphone option 1 comprises the MZH 30 suspension in combination with the MZC 30 connection cable with a special coaxial connector for aligning the ME 34 microphone head.

**MZH 3072 / ME 36**

In applications of standing spokesperson the ME 36 microphone head guarantees excellent acoustic performance, even when speaking into it from a greater distance.

**MAT 133 B / MAT 133-S B**

The MAT 133 is a sturdy, discreet table stand. The MAT 133-S B features a user-friendly microphone button with a two-color status display that provides quick visual feedback on whether the microphone is active or muted.

**MAT 153-S + MEG 14-40-L-II**

The MAT-153-S has a user-friendly microphone button with a two-color status display that provides quick visual feedback. Combining it with a MEG 14-40-L-II makes installation easier than ever: Thanks to phantom power, the gooseneck/table stand pair can be connected using a single microphone cable. No further complicated cabling is required to activate the LED ring.

**MZS 31, MZT 30, MZT 30-L**

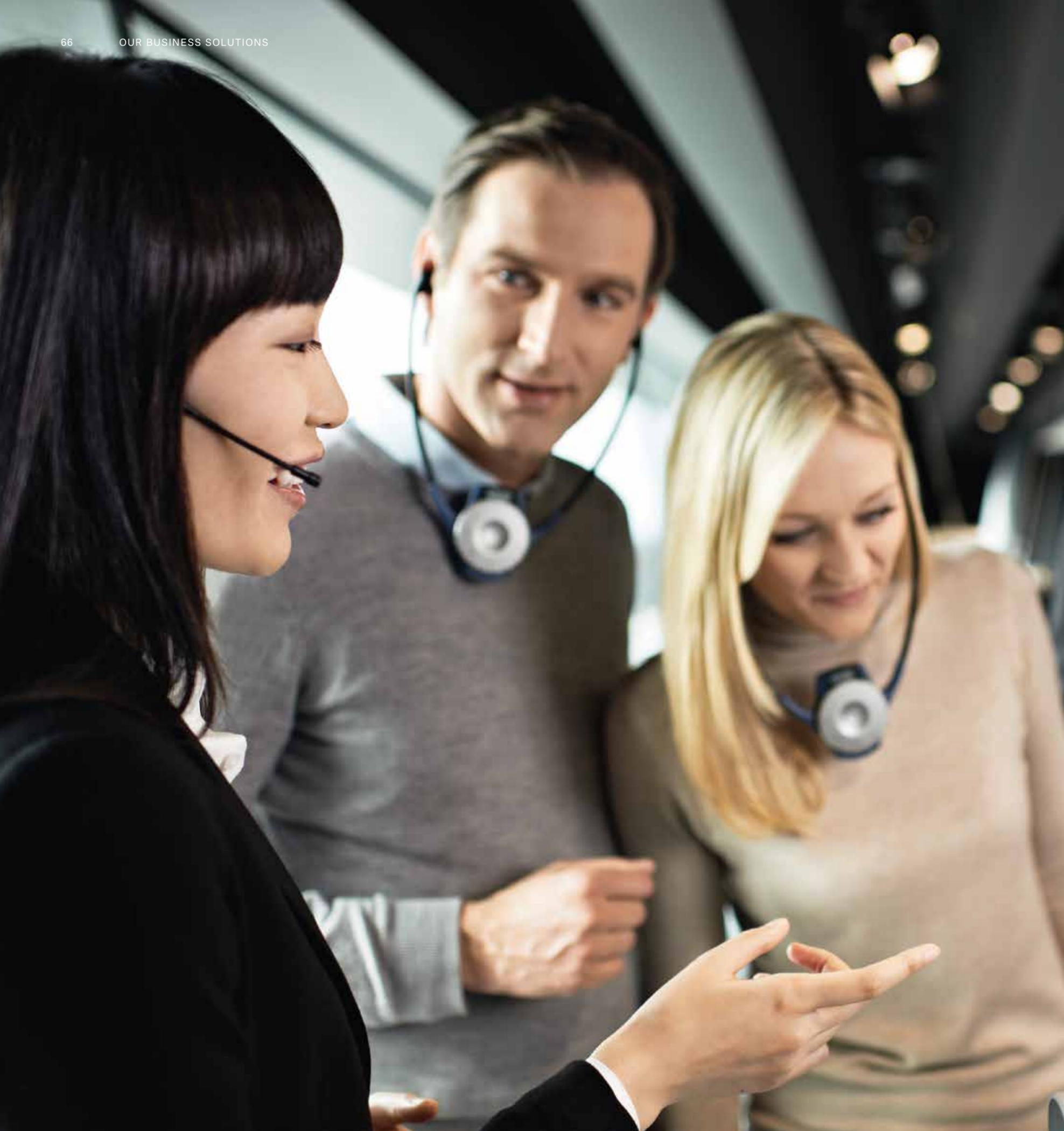
The MZS 31 is an elastic fixed-installation shock mount for goosenecks that reduces the transmission of vibration noise through tables and lecterns. The MZT 30 and MZT-L table installation sockets are compatible with Sennheiser MZH goosenecks.

**MZFS 60 / MZFS 80 /
SKP 300 G3**

The MZFS 60 (60 cm height) or MZFS 80 (80 cm height) are the perfect floor stand for wireless speech microphones. All the cables are routed through the stand, and the evolution SKP 300 G3 wireless plug-on transmitters are simply plugged onto it.

* This product is available in:





Visitor guidance & audio streaming

- TourGuide 1039
- TourGuide 2020-D
- MobileConnect



Information becomes
an experience.
Precise and safe.

Endless individual options, no compromises — Tourguide 1039 is the professional visitor guide system for highest demands. With enormous power reserves and ample scope for really made-to-measure applications.

TourGuide 1039

Key features:

- Speech is highly intelligible
- Easy to operate
- For up to 32 groups of visitors simultaneously
- Assistive listening devices possible



EK 1039

- Up to 32 channels in parallel
- Simple channel selection and volume setting
- Channel and battery status shown clearly on the display
- Customizable channel name makes it easy to find the desired channel
- Copy function between receivers for easy preset handling



SKM 100-835 G3

- Sturdy metal housing
- 42 MHz bandwidth: 1680 tunable UHF frequencies for interference-free reception
- Enhanced frequency bank system with up to 12 compatible frequencies
- Pilot tone squelch for eliminating RF interference when transmitter is turned off



SK 500 G3

- Sturdy metal housing
- Enhanced frequency bank system with up to 32 compatible frequencies
- User-friendly menu operation with more control options
- Transmitter features battery indication in 4 steps, also shown on receiver display



SR 300 IEM

- Pilot tone squelch for eliminating RF interference when transmitter is turned off
- Enhanced AF frequency range
- Wireless synchronization of receiver parameter from transmitter
- Mute function



EZT 3012

Induction neck loop with 40 cm connection cable for use with Sennheiser receivers.



Information becomes
an experience -
quite simply.

Excels with extremely simple handling,
convinces with professional functionalities:
The digital system Tourguide 2020-D stands
for uncomplicated audio solutions in visitor
guidance, at conferences, and for assistive
listening.

TourGuide 2020-D

Key features:

- For visitor guidance, interpreter applications and assistive listening
- Operates within the license-free ISM frequency band
- Immediately ready to operate
- Combines receiver and headphones in one device



HDE 2020-D

- Battery power up to 8 hours operating time and quickly charges in less than 3 hours
- LC Display for channel number, volume level, battery status and RF reception quality
- Channel selector
- Volume control
- Automatic on/off
- Stethoset - Headphones integrated



EK 2020-D-II

- Digital RF signal transmission
- Licence free Frequency range (EU, US)
- 16 hours battery life
- Usage with headphones or induction loop



SKM 2020-D

- Digital Handheld Transmitter
- Rotatable end cap for on/off, mute and menu settings
- Up to 8 hours of use with BA2015G2 (included)
- Rugged housing for everyday use
- Back-lit LCD indicates selected channel and battery status



SR 2020-D

- Digital RF signal transmission
- 19" rack-mount kit included
- 6-8 Channel Transmitter
- Balanced XLR-3F-Input with switchable phantom-power (48V)
- 6.3 mm jack-plug headphones connection for monitoring
- Backlit display



SK 2020-D

- Digital RF signal transmission
- Licence free Frequency range (EU, US)
- Microphone input (3.5 mm screw-type jack socket) with adjustable sensitivity
- Status LEDs: MUTE/ LOW BATT warning peak warning
- Line input (3.5 mm screw-type jack socket) with adjustable sensitivity
- Backlit display



Assistive listening over Wi-Fi.

MobileConnect is an Assistive Listening App for everybody. It delivers high-definition sound to your ear on your own mobile phone.

MobileConnect - Sennheiser's WiFi based system for your venue that enables low-latency transmission of audio content to mobile devices such as smartphones and tablets. With our real time audio streaming server and the MobileConnect App, you can easily provide assistive listening, audio description, interpretation channels or audio for silent screens to your venue.

Sennheiser's MobileConnect system embraces the bring-your-own-device (BYOD) principle enabling users to use their own mobile devices on the MobileConnect WiFi network. The system consists of a ConnectStation, a central unit for integrating different audio streams and transmitting them via WiFi access points to the personal mobile devices.

MobileConnect

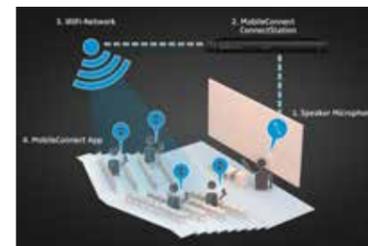
Key features

- Real Time Audio Streaming with BYOD
- Individualized sound adjustment with the Personal Hearing Assistant
- Designed for assistive listening, audio description and language translation
- BYOD: zero maintenance (no storage, servicing, charging, or staff training is required)



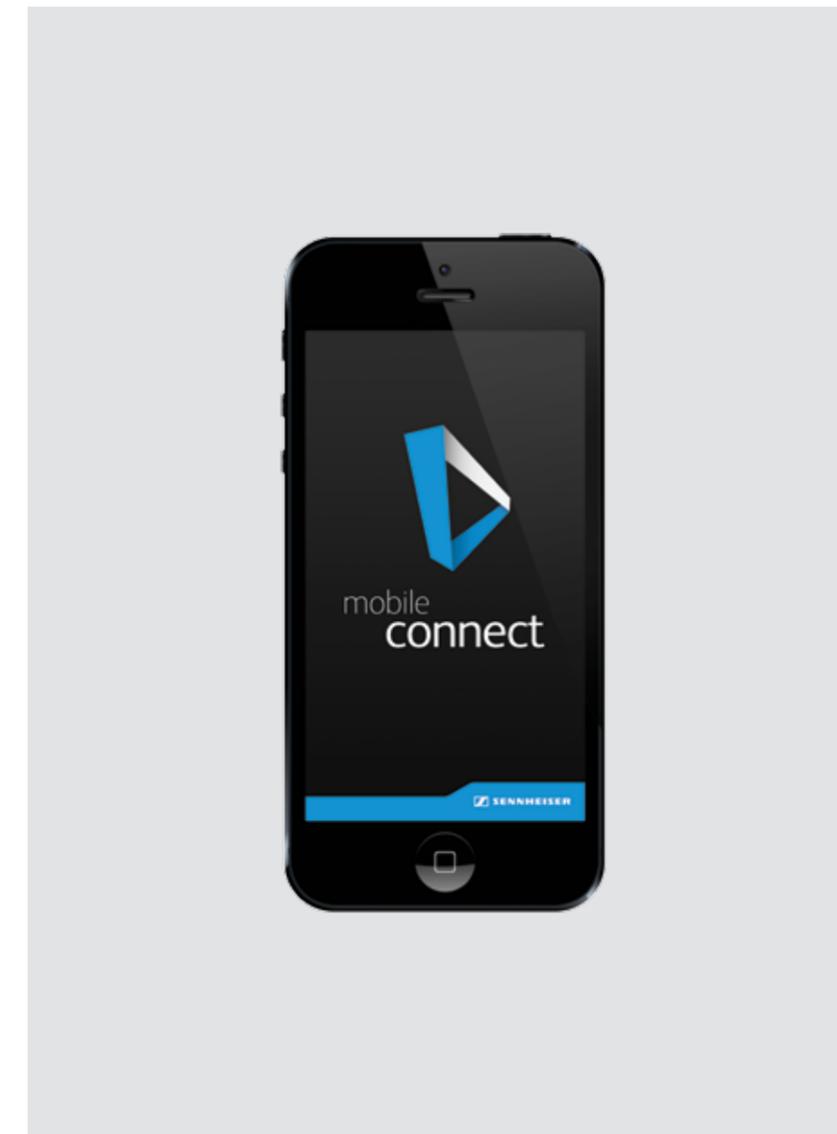
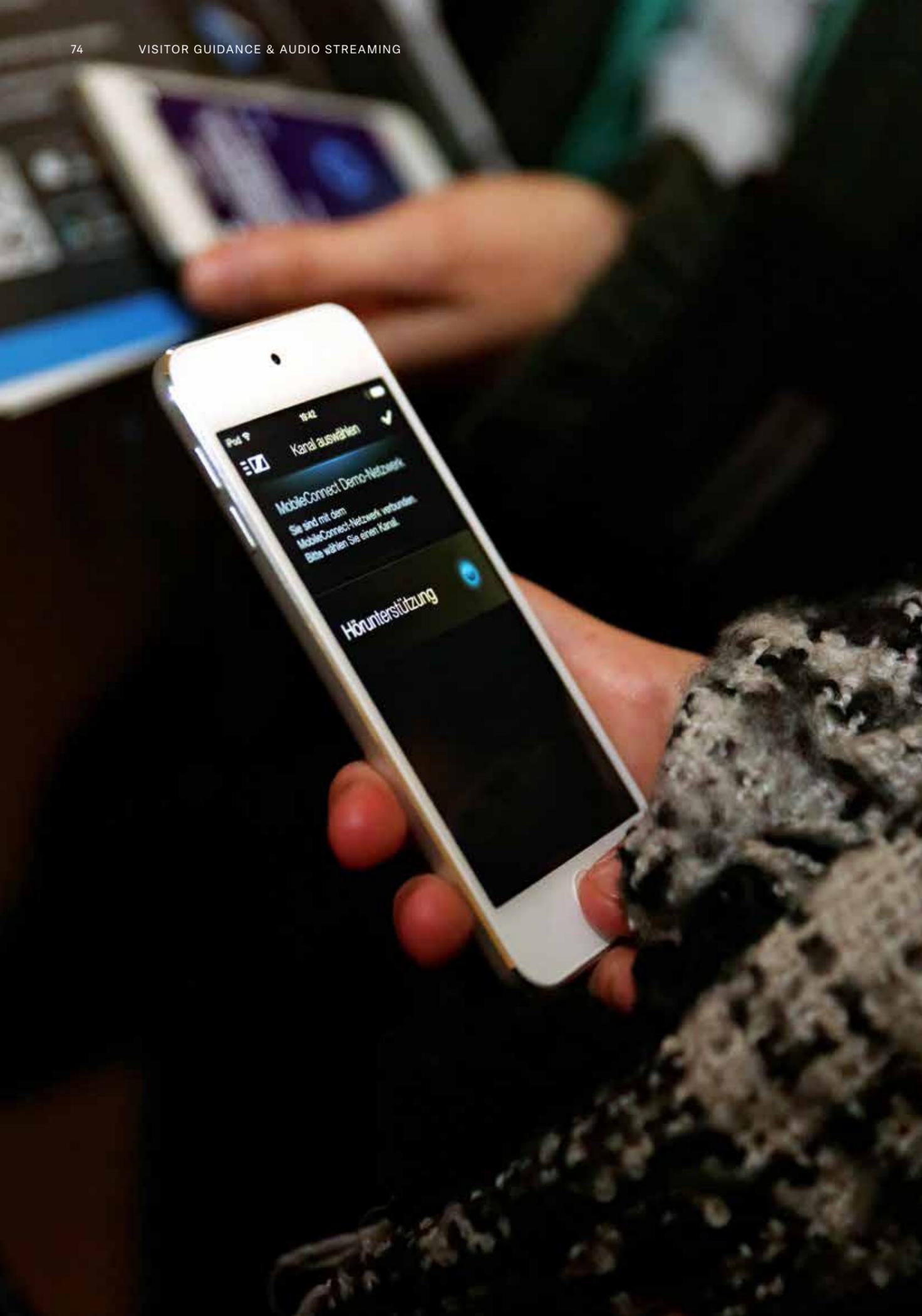
MobileConnect CS-1M ConnectStation

Real-time streaming server with up to 16 audio inputs (analog and digital) and up to 4 mono or stereo audio channels on air. The CS-1M can be integrated in existing networks (integrated mode) or can operate in a separate network (stand alone mode) with up to 8 access points.



How it works

To access a live audio stream, users simply need to download and install the free MobileConnect app (available for iOS and Android) and connect to the WiFi network with their own device.



MobileConnect App

Available for iOS/Android – and for free.
The MobileConnect App is easy to use and convenient for everyone. It is fully compatible with iOS and Android accessibility modes where visual impairment support is required. Its advanced Personal Hearing Assistant is based on technologies by Fraunhofer Institute IDMT and allows for individual audio adjustments via a simple and intuitive touchscreen user interface.



Accessories
for business

Antennas



AWM 2

- Unobtrusive antenna wall or tripod mounting
- Compatible with Speechline DW



AWM 4

- Unobtrusive antenna wall or tripod mounting
- Compatible with SpeechLine DW



ADN-W AM

- Unobtrusive antenna wall or tripod mounting
- Compatible with ADN-W

Chargers



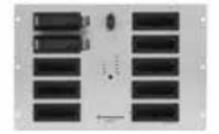
L 2015

- Compatible with: Evolution wireless G3, 2000 Series, Tourguide 2020 and Tourguide 1039.



L 1039 L10

- Compatible with Tourguide 1039.



ADN-W L10

- Compatible with ADN-W.

Chargers



CH 10

- Headset Charger (with stand)
- Compatible with DW Series



CH 10 USB

- Headset charger cable (without stand)
- Compatible with DW Series



CH 20

- Headset charger stand
- Compatible with PRESENCE™ Series



L 2020-40

- Compatible with Tourguide 2020-D.



TC-W Tray

- Compatible with TeamConnect Wireless.

Charging cases



CH 20 USB

- Headset charger cable (without stand)
- Compatible with PRESENCE™ Series



CHG 2

- Compatible with SpeechLine DW.



CHG 4N

- Compatible with SpeechLine DW.



TC-W CASE

- Compatible with TeamConnect Wireless.



ADN-W CASE

- Compatible with ADN-W.



EZL 2020

- Compatible with Tourguide 2020.

Batteries



BA 10
Compatible with
SL Handheld DW.



BA 40
Compatible with
SL Tablestand DW and
SL Boundary DW.



BA30
Compatible with
SL Bodypack DW.



BA 100
Compatible with
TeamConnect Wireless.



BA 2015
Compatible with Evolution
wireless G3, 2000 Series,
Tourguide 2020 and
Tourguide 1039.



ADN-W BA
Compatible with ADN-W.

Power supplies



NT 12-50 C
Compatible with
TeamConnect Wireless.



NT 12-50 C
Compatible with ADN-W
AM, ADN-W BA, CHG 2
and CHG 4N.



NT 1-1 / NT 2-3
- NT 1-1 compatible with
ASA 1 and L 2015
- NT 2-3 Compatible with
Evolution Wireless G3

Mics heads



MME 865
Permanently polarized
Super cardioid.



MMK 965
- Dual-membrane
technology
- Cardioid and super
cardioid, switchable



MMD 835
- Dynamic
- Cardioid



MMD 845
- Dynamic
- Super cardioid



MMD 935
- Dynamic
- Cardioid



ME 34
Cardioid.



ME 35
Super cardioid.



ME 36
Hyper cardioid
Lobar directivity.

Gooseneck mics



MEG 14-40
- Cardioid
- One flexible section



**MEG 14-40-L /
MEG 14-40-L-II**
- Cardioid
- Integrated light ring
(L: red, L-II: green)
- One flexible section



ADN-MIC 15-39
- Super cardioid
- One flexible section



ADN-MIC 15-50
- Super cardioid
- One flexible section



ADN-MIC 36-39
- Hyper cardioid
- One flexible section



ADN-MIC 36-50
- Hyper cardioid
- One flexible section

Gooseneck



MZH 3015 *
- 150 mm
- One flexible section



MZH 3040 *
- 400 mm
- One flexible section



MZH 3042 *
- 400 mm
- Two flexible sections



MZH 3062 *
- 600 mm
- Two flexible sections



MZH 3072 *
- 700 mm
- Two flexible sections

Table stands



MAT 133
Solid table stand with
XLR 3 input.



MAT 133-S
- Solid Table stand with
XLR 3 input
- Integrated Mute button
and TTL logic



MAT 153-S
- Solid Table stand with
XLR 5 input
- Integrated Mute button
and TTL logic

Floor stands



MZSF 60 / MZSF 80
- 60 cm / 80 cm
- Usable as "wireless"

* These models are also available
with integrated light ring

Headworn microphones



ME 3
Cardioid.



HS 2
Omni-directional.



HSP 2
Omni-directional.



HSP 4
Cardioid.



SL Headmic 1
Omni-directional.

Windscreens



MZW 34 PRO
Compatible with ME 34
and ME 35.



MZW 36 PRO
Compatible with ME 36.



MZW ME 3

Clip-on



MKE 1
Omni-directional.



MKE 2
Omni-directional.



ME 2
Omni-directional.



ME 4
Cardioid.



MKE 40
- Cardioid
- High feedback-rejection



MKE 102
Omni-directional.



MKE 104
Cardioid.

Cables



AM 2
- Antenna front mount
- Evolution wireless G3



CL 5 / CL 10 / CL 20
- Step-proof antenna cable
- R-SMA connectors
- 5 m / 10 m / 20 m
- For AWM 2



**CL 1 PP / CL 5 PP /
CL 10 PP / CL 20 PP**
- Step-proof antenna cable
- R-SMA connectors
- 1 m / 5 m / 10 m / 20 m
- For AWM 4



TC-W Telephone Cable
- 2.5 mm jack to easy disconnect
- Additional individual cable needed (depending on telephone)



TC-W USB Cable
Micro USB (type B) to USB (type A) cable



TC-W Jack Cable
2.5 mm to 3.5 mm jack cable



CL 1
- Line output cable
- Evolution wireless G3



CL 2
- Mic cable
- 3.5 mm lockable jack



SDC CBL RJ45-xx
- Shielded-Twisted-Pair (STP)
- AWG24
- Gold-plated connectors
- Color coded (grey / black)
- 2 m / 3 m / 5 m / 10 m / 20 m / 50 m
- For ADN



MZC 30
- 9 m length
- Ø 1 mm
- Compatible with ME 34, ME 35 and ME 36

Technical data



Personal communication

DW Series



Specification	DW Office	DW Pro 1	DW Pro 2
Ear pad size	ø 50 mm / 1.96 in	ø 50 mm / 1.96 in	ø 50 mm / 1.96 in
Frequency response (speaker)	150 Hz - 6.8 KHz	150 Hz - 6.8 KHz	150 Hz - 6.8 KHz
Frequency response (microphone)	150 Hz – 6.8 kHz wideband	150 Hz - 6.8 kHz wideband	150 Hz - 6.8 kHz wideband
Microphone	Electret Condenser Microphone	Electret Condenser Microphone	Electret Condenser Microphone
Power supply	Battery (Lithium Polymere)	Battery (Lithium Polymere)	Battery (Lithium Polymere)
Range	Up to 180 m (line of sight) Up to 55 m (typical office)	Up to 180 m (line of sight) Up to 55 m (typical office)	180 m (line of sight) Up to 55 m (typical office)
Standby time	up to 100 h	up to 100 h	up to 100 h
Storage temperature	-20 °C to +70 °C (-4 °F to +158 °F)	-20 °C to +70 °C (-4 °F to +158 °F)	-20 °C to +70 °C (-4 °F to +158 °F)
Talk time	up to 12 h	up to 12 h	up to 12 h
Weight	Ear hook version 24 g Headband version 50 g	65 g	85 g

PRESENCE™ Series



Specification	PRESENCE™ UC
Device connection	Softphone/PC and mobile phone
Wearing style	Ear sleeve, ear hook or headband (optional)
Frequency response (speaker)	100 Hz - 15.0 KHz
Frequency response (microphone)	150 Hz - 6.8 KHz
Microphone	Digital MEMS-Microphone (3 Microphones)
Speaker type	Dynamic, neodymium magnet
Range	25 m (device dependent)
Standby time	up to 14 days
Talk time	up to 10 h
Weight	approx. 13 g (w/o cable)

Speakerphone Series



Specification	SP 10	SP 20
Dimensions	110 x 30 mm	110 x 30 mm
Frequency response (speaker)	150 Hz – 15.0 kHz	150 Hz – 15.0 kHz
Frequency response (microphone)	150 Hz – 6.8 kHz	150 Hz – 6.8 kHz
Microphone	Omni Electret Condenser Microphone	Omni Electret Condenser Microphone
Weight	190 g	210 g

Meeting & conferencing

TeamConnect Wireless



Specification	TC-W SATELLITE
Charging time	up to 10 h
Connection cable	Micro USB type B to USB type A cable 2.5 mm to 3.5 mm jack cable
Connector	2.5 mm socket / Micro USB socket (Master satellite)
Dimensions	97 x 76 mm (Ø x H)
Frequency response (headphones)	200 Hz – 9.0 kHz
Frequency response (microphone)	200 Hz – 12.0 kHz
Operating time	up to 8 h
Range	Bluetooth (Master to smart device) approx. 10 m / DECT (Master to Satellite) approx. 20 m
Frequency range	EU: 1,880 to 1,900 MHz
RF output power	max. 100 mW (EIRP)
Weight	449 g incl. battery pack

TeamConnect System



Specification	TEAMCONNECT CU1 & CB1	SL 52 A W	TC CEILING
Connection cable			Phoenix 3 pins
Connector	USB Headset 3.5 mm Jack LAN		USB Headset 3.5 mm Jack LAN
Dimensions	19" rack mountable	240 x 140 x 161 mm (W x H x D)	590 x 590 x 43 mm (W x H x D)
Frequency response		35 Hz – 30.0 kHz	
Microphone			29 x KE 10
Operating time			Dynamic Beamforming
Phantom powering	24 V DC at 10 mA on all MIC Inputs		
Weight		3.1 kg	approx. 6 kg

TeamConnect Ceiling

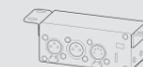


SL Wired Boundary Microphones



Specification	MEB 114-S TC	MEB 102-L TC	MEB 104-L TC
Connector	Terminal block 5-pin		
Current consumption	5.3 mA		
Dimensions	85 x 100 x 25 mm (W x D x H)	H: 83 mm (12 mm above surface) Ø: 28.5 mm	H: 90 mm (19 mm above surface) Ø: 28.5 mm
Dynamic range	111 dB(A)	104 dB(A)	97 dB(A)
Equivalent noise level	29 dB(A)	21 dB(A)	28 dB(A)
Equivalent noise level weighted as per CCIR 468-3	39 dB (CCIR)	31 dB (CCIR)	38 dB (CCIR)
Frequency response	40 Hz – 20 kHz	40 Hz – 20 kHz	40 Hz – 20 kHz
Phantom powering	P 24 – P 48	P 24 - P 48	P 24 - P 48
Pick-up pattern	cardioid	omni-directional	cardioid
Sensitivity	10 mV / Pa	16 mV / Pa	14 mV / Pa
Transducer principle	pre-polarized condenser microphone	pre-polarized condenser microphone	pre-polarized condenser microphone
Weight	291 g (w/o cable)	58 g	60 g

SL Wired Boundary Microphones



Specification	MAS 2 TC	SL MIC HUB 1
Connector	XLR-5M	
Current consumption	3 mA	
Dimensions	H: 81 mm (8 mm above surface) Ø: 28.5 mm	14.4 x 7.63 x 3.15 cm (W x D x H)
Phantom powering	12 V (1.5 mA max.)	
Weight	60 g	

Meeting & conferencing

Audio Distribution Networks

Specification	ADN CU1-II	ADN C1	ADN D1
Dimensions	417 x 100 x 345 mm	185 x 63 x 140 mm (without gooseneck)	185 x 63 x 140 mm (without gooseneck)
Frequency response	100 Hz – 14.0 kHz		
Input voltage range	-18 dBu to +18 dBu (XLR IN)		
Operating voltage (stand alone)		35 V à 52.8 V CA	35 V à 52.8 V CA
Output voltage	52.8 V (ADN Bus)		
Pick-up pattern		Super-cardioid	Super-cardioid
Signal-to-noise ratio	> 80 dB(A) weighted at +11 dBu		
THD, total harmonic distortion	< 0.01 % A-weighted at +6 dBV IN, OUT	0.03 % at 50 mW / 16 Ω	0.03 % at 50 mW / 16 Ω
Weight	approx. 6.5 kg	approx. 700 g	approx. 700 g

Audio Distribution Networks

Specification	ADN-W C1	ADN-W D1	ADN PS	ADN-W AM
Dimensions	185 x 180 x 67 mm (W - L - H)	185 x 180 x 67 mm (W - L - H)	482.5 x 168 x 100 mm (W - L - H)	226 x 58 x 181 mm (W - L - H)
Frequency range	2.4 / 5.1 - 5.9 GHz			2.4 / 5.1 - 5.9 GHz
Frequency response	100 Hz – 14.5 kHz			100 Hz – 14.5 kHz
Input voltage range	100 - 240 VAC / 50 - 60 Hz			
Operating time	approx. 20 h with battery pack	approx. 20 h with battery pack		
Output voltage	4 x 52.8V max. 1.75A per port			
Power supply	7.4 VDC via ADN-W BA	7.4 VDC via ADN-W BA		12 to 15 VDC
RF output power	25 to 100 mW	25 to 100 mW		25 to 100 mW
Weight	approx. 940 g	approx. 940 g	approx. 4.6 kg	approx. 1.66 kg
Power consumption				6 W
Max. coverage area				30 m radius
Connector				3 rod antennas/ omni-directional with R-SMA connector

ADN-W MICS

Specification	ADN-W MIC 15-39	ADN-W MIC 15-50	ADN-W MIC 36-29	ADN-W MIC 36-50
Connector	proprietary connector	proprietary connector	proprietary connector	proprietary connector
Dimensions	approx. 390 mm	approx. 500 mm	approx. 290 mm	approx. 500 mm
Frequency response (microphone)	190 Hz - 14.5 kHz	190 Hz - 14.5 kHz	40 Hz - 20 kHz	40 Hz - 20 kHz
Max. sound pressure level	120 dB	120 dB	130 dB	130 dB
Operating relative humidity	20 to 80 %			
Operating temperature	5 °C to 45 °C			
Pick-up pattern	super-cardioid	super-cardioid	hyper-cardioid	hyper-cardioid
Sensitivity	38 mV / Pa	38 mV / Pa	18 mV / Pa	38 mV / Pa
Weight	98 g	116 g	98 g	116 g

Interpretation

Specification	SL Interpreter
Dimensions	25.4 x 16.1 x 6.2 cm (10" x 6.35" x 2.45")
Jack plug	RCA jack for CH1 audio RCA jack for CH2 audio Interpreter audio only no feedthrough
Weight	3.4 lbs (1.5 kg)

Presentation

Speechline Digital Wireless



Specification	SL HANDHELD DW	SL RACK RECEIVER DW	SL BODYPACK DW
AF connection sockets		XLR 3 / 2 x RCA	3.5 mm jack socket, lockable
AF frequency response	50 Hz – 20.0 kHz	20 Hz – 20.0 kHz	Mic: 50 Hz – 20.0 kHz Line: 20 Hz – 20.0 kHz
Antenna connector		2 x reverse SMA	
Audio effects		Low cut: -3 dB at 120 Hz Equalizer: 7-band graphic equalizer with sound presets Sound profiles: female voice, male voice, instrument/media	
Audio sampling	24 bit / 48 kHz	24 bit / 48 kHz	24 bit / 48 kHz
Display	LCD	OLED	LCD
Dynamic range	> 120 dB(A)	> 120 dB(A)	> 120 dB(A)
Encryption	AES 256	AES 256	AES 256
Input sensitivity	automatic sensitivity adjustment	automatic sensitivity adjustment	automatic sensitivity adjustment
Latency	19 ms	19 ms	19 ms
Max. input level			Mic: 2.2 V RMS Line: 3.3 V RMS
Modulation	GFSK with back channel	GFSK with back channel	GFSK with back channel
Mute switch	Available		Available
Network protocol		Media Control Protocol TCP/IP IPv4 (DHCP, manual) / IPv6	
Network sockets		RJ-45	
Operating time	Accupack: typ. 15 h Batteries: typ. 10 h		Accupack: 15 h Batteries: 11 h
RCA output level, unbalanced		max. +6 dBu	
RF frequency range	EU: 1,880 to 1,900 MHz USA: 1,920 to 1,930 MHz Brazil: 1,910 to 1,920 MHz Taiwan: 1,880 to 1,895 MHz Japan: 1,893 to 1,906 MHz	EU: 1,880 to 1,900 MHz USA: 1,920 to 1,930 MHz Brazil: 1,910 to 1,920 MHz Taiwan: 1,880 to 1,895 MHz Japan: 1,893 to 1,906 MHz	EU: 1,880 to 1,900 MHz USA: 1,920 to 1,930 MHz Brazil: 1,910 to 1,920 MHz Taiwan: 1,880 to 1,895 MHz Japan: 1,893 to 1,906 MHz
RF output power	adaptive, up to 250 mW (country-specific)	adaptive, up to 250 mW (country-specific)	adaptive, up to 250 mW (country-specific)
Signal-to-noise ratio	> 90 dB(A)	> 90 dB(A)	> 90 dB(A)
Transmission method	TDMA, space diversity	TDMA, space diversity	TDMA, space diversity
XLR output level, balanced		max. +18 dBu	

Speechline Digital Wireless



Specification	SL HEADMIC 1	MKE 1	SL DI 4 XLR
AF connection sockets			4x XLR 3f
AF frequency response			20 Hz – 20.0 kHz
Connector	3.5 mm jack plug	3.5 mm jack plug	Single RJ-45
Current consumption	approx. 240 µA	approx. 240 µA	
Dimensions			219 x 38 x 120 mm 8.63" x 1.50" x 4.74"
Equivalent noise level	27 dB	27 dB	
Equivalent noise level weighted as per CCIR 468-3	39 dB	39 dB	
Frequency response	20 Hz - 20 kHz ± 3 dB	20 Hz - 20 kHz ± 2.5 dB	20 Hz - 20 kHz
Input type			Balanced and RF filtered
Max. input level			+18 dBu at 0 dB gain, with pad +8 dBu at 0 dB gain, no pad -7 dBu at +15 dB gain, no pad -22 dBu at +30 dB gain, no pad -36 dBu at +45 dB gain, no pad
Phantom powering			+48 V, 10 mA per input software selectable
Pick-up pattern	Omni-directional	Omni-directional	
Sensitivity in free field, no load (1 kHz)	5 mV / Pa ± 2.5 dB	5 mV / Pa ± 2.5 dB	
Transmission speed			100 Mbps
Weight	7 g (w/o cable)	0.1 g (w/o connector and cable)	770 g

Speechline Digital Wireless



Specification	SL TABLESTAND 133 DW	SL TABLESTAND 153 DW
Frequency response	75 - 20,000 Hz	75 - 20,000 Hz
Total harmonic distortion	0.1 %	0.1 %
Output power adaptive	Up to 250 mW (country-specific)	Up to 250 mW (country-specific)
Operating time	10 h with BA 40	10 h with BA 40
Frequency range	1,880 to 1,900 MHz	1,880 to 1,900 MHz
Input impedance	30 kΩ	30 kΩ
Weight	650 g	650 g

Presentation

Evolution Wireless 100 G3



SKM 100-835



SK 100



SKP 100

Specification	SKM 100-835	SK 100	SKP 100
Compander	HDX	HDX	HDX
Dimensions	Ø 50 x 265 mm	82 x 64 x 24 mm	105 x 43 x 43 mm
Frequency response (microphone)	80 Hz – 18.0 kHz	80 Hz – 18.0 kHz	80 Hz – 18.0 kHz
In compliance with	ETS 300422, ETS 300445, CE, FCC	ETS 300422, ETS 300445, CE, FCC	ETS 300422, ETS 300445, CE, FCC
Input voltage range		1.8 V line	max. 3.0V eff
Microphone	dynamic		
Operating time	> 8 h	> 8 h	> 8 h
Peak deviation	± 48 kHz	± 48 kHz	± 48 kHz
Pick-up pattern	cardioid		
Presets	12		20
RF frequency range	516 to 865 MHz	516 to 865 MHz	516 to 865 MHz
RF output power	30 mW	30 mW	30 mW
Signal-to-noise ratio	> 110 dB(A)	> 110 dB(A)	> 110 dB(A)
Sound pressure level (SPL)	154 dB(SPL) max.		
Switching bandwidth	42 MHz	42 MHz	42 MHz
THD, total harmonic distortion	< 0.9 %	< 0.9 %	< 0.9 %
Transmission/receiving frequencies	1,680	1,680 (max. 20 Presets)	1,680
Weight	450 g	160 g	195 g

Evolution Wireless 100 G3



EM 100



EK 100

Specification	EM 100	EK 100
Compander	HDX	
Dimensions	212 x 202 x 43 mm	82 x 64 x 24 mm
Frequency response		25 Hz – 18.0 kHz
Frequency response (microphone)	25 Hz – 18.0 kHz	
In compliance with	ETS 300422, ETS 300445, CE, FCC	
Jack plug		3.5 mm
Operating time		6 - 10 h
Output voltage		3.5 mm jack socket unbalanced: +12 dBu
Peak deviation	± 48 kHz	
Power supply		2 AA batteries (1.5 V)
Presets	12	
RF frequency range	516 to 865 MHz	
Sensitivity		< 2.5 µV at 52 dB(A) eff S / N
Signal-to-noise ratio	> 110 dB(A)	> 110 dB(A)
Switching bandwidth	42 MHz	
THD, total harmonic distortion	< 0.9 %	
Transmission/receiving frequencies	1,680	
Weight	900 g	160 g

Presentation

Evolution Wireless 300 G3



Specification	SKM 300-835	SK 300	SKP 300	EM 300
Compander	HDX	HDX	HDX	HDX
Dimensions	Ø 50 x 265 mm Ø 2.0 x 10.4 in	82 x 64 x 24 mm 3.2 x 2.5 x 0.9 in	105 x 43 x 43 mm 4.1 x 1.7 x 1.7 in	212 x 202 x 43 mm 8.3 x 8.0 x 1.7 in
Frequency response		80 Hz – 18.0 kHz	80 Hz – 18.0 kHz	25 Hz – 18.0 kHz
Frequency response (microphone)	80 Hz – 18.0 kHz			
In compliance with	ETS 300422 ETS 300445 CE FCC	ETS 300422 ETS 300445 CE FCC	CE FCC IC	ETS 300422 ETS 300445 CE FCC
Input voltage range		1.8 V line	mic 1.2 V max	
Microphone	dynamic			
Modulation	FM			
Nominal deviation	± 24 kHz			
Operating time	> 8 h	> 8 h	> 8 h (30 mW HF, without PG 48)	
Peak deviation	± 48 kHz	± 48 kHz	± 48 kHz	± 48 kHz
Phantom powering	48 V ± 2 V			
Pick-up pattern	cardioid			
Presets	max. 24			max 24
RF frequency range	516 to 865 MHz	516 to 865 MHz	516 to 865 MHz	516 to 865 MHz
RF output power	10 / 30 mW	10 / 30 mW	10 / 30 mW	
Signal-to-noise ratio	> 115 dB(A)	> 115 dB(A)	≥ 120 dB(A) at 1 mV peak deviation)	> 115 dB(A)
Sound pressure level (SPL)	154 dB(SPL) max.			
Switching bandwidth	42 MHz	42 MHz	max. 42 MHz	42 MHz
THD, total harmonic distortion	< 0.9 %			
Transmission / receiving frequencies	1,680	1,680 (max. 20 Presets)		1,680
Weight	450 g	approx. 160 g	195 g	980 g

Evolution Wireless 500 G3



Specification	SKM 500-935	SK 500	EM 500
Compander	HDX	HDX	HDX
Dimensions	Ø 50 x 265 mm Ø 2.0 x 10.4 in	82 x 64 x 24 mm 3.2 x 2.5 x 0.9 in	212 x 202 x 43 mm 8.3 x 8.0 x 1.7 in
Frequency response	80 Hz – 18.0 kHz		25 Hz – 18.0 kHz
Frequency response (microphone)	80 Hz – 18.0 kHz		
In compliance with	ETS 300422 ETS 300445 CE FCC	ETS 300422 ETS 300445 CE FCC	ETS 300422 ETS 300445 CE FCC
Input voltage range		1.8 V line	
Microphone	dynamic		
Operating time	> 8 h	> 8 h	
Peak deviation	± 48 kHz	± 48 kHz	± 48 kHz
Pick-up pattern	cardioid		
Presets	max. 32		max. 32
RF frequency range	516 to 865 MHz	516 to 865 MHz	516 to 865 MHz
RF output power	10 / 30 mW	10 / 30 mW	
Signal-to-noise ratio		> 115 dB(A)	> 115 dB(A)
Sound pressure level (SPL)	154 dB(SPL) max.		
Switching bandwidth	42 MHz	42 MHz	42 MHz
THD, total harmonic distortion	< 0.9 %		
Transmission / receiving frequencies	1,680	1,680	1,680
Weight	450 g	approx. 160 g	980 g

Wireless Loudspeakers



Specification	LSP 500 PRO
Frequency response	65 Hz – 18.0 kHz (-10 dB)
Power supply	CA 90-240 v, 50 - 60 Hz
Sound pressure level (SPL)	110 dB(SPL) (DhT 10% free space)
Speaker type	20.3 cm woofer, 19 mm compression driver, passive crossover
Weight	Approx. 13.6 kg without receiver

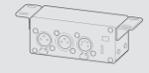
Presentation

Speechline wired microphones



Specification	MEB 114	MEB 114-S	MAS 1
Colour			LED light ring: red / green
Connector	tiny XLR-3Pin assignment	Terminal block 5-pin	XLR-5M out Pin assignment
Current consumption	1.5 mA	5.3 mA	LED ring: 3 mA
Dimensions	85 x 100 x 25 mm (W x D x H)	85 x 100 x 25 mm (W x D x H)	H: 81 mm (8 mm above surface) Ø: 28.5 mm
Dynamic range	111 dB(A)	111 dB(A)	
Equivalent noise level	29 dB(A)	29 dB(A)	
Equivalent noise level weighted as per CCIR 468-3	39 dB (CCIR)	39 dB (CCIR)	
Frequency response	40 Hz – 20 kHz	40 Hz – 20 kHz	
Phantom powering	P 24 - P 48	P 24 - P 48	12 V (1.5 mA max.)
Pick-up pattern	cardioid	cardioid	
Sensitivity	10 mV / Pa	10 mV / Pa	
Transducer principle	pre-polarized condenser microphone	pre-polarized condenser microphone	
Weight	291 g	291 g (w/o cable)	60 g

Speechline wired microphones



Specification	MEB 102	MEB 104-L	MAS 133
Connector	Terminal block 5-pin		Mic in: XLR-3F Mic out: XLR-3M Pin assignment: 1 = gnd, 2 = +, 3 = - Switch in: XLR-5F Connector: 1 = gnd, 2 = Switch, 3 = LED red -, 4 = LED green -, 5 = LEDs +12 V out
Current consumption			4.5 mA
Dimensions	H: 83 mm (12 mm above surface) Ø: 28.5 mm	H: 90 mm (19 mm above surface) Ø: 28.5 mm	14.4 x 7.63 x 3.15 cm (W x D x H)
Dynamic range	104 dB(A)	97 dB(A)	
Equivalent noise level	21 dB(A)	28 dB(A)	
Equivalent noise level weighted as per CCIR 468-3	31 dB (CCIR)	38 dB (CCIR)	
Frequency response	40 Hz – 20 kHz	40 Hz – 20 kHz	
Phantom powering	P 24 - P 48	P 24 - P 48	P 48
Pick-up pattern	omni-directional	cardioid	
Sensitivity	16 mV / Pa	14 mV / Pa	
Transducer principle	pre-polarized condenser microphone	pre-polarized condenser microphone	
Weight	58 g	60 g	212 g
Operating temperature			-10 °C - +50 °C
Output voltage			High level: > 2.4 V Low level: < 0.4 V

Presentation

IS microphones



Specification	ME 34	ME 35	ME 36
Current consumption	250 μ A	250 μ A	250 μ A
Dimensions	\varnothing 12 x L 18 mm	\varnothing 12 x L 18 mm	\varnothing 8.2 x L 96 mm
Equivalent noise level	26 dB(A)	26 dB(A)	23 dB(A)
Equivalent noise level weighted as per CCIR 468-3	37 dB	37 dB	34 dB(A)
Frequency response (microphone)	40 Hz - 20 kHz	50 Hz - 20 kHz	40 Hz - 20 kHz
Impedance	50 Ω	50 Ω	50 Ω
Maximum sound pressure level (passive)	130 dB SPL	130 dB SPL	130 dB SPL
Min. terminating impedance	1 k Ω	1 k Ω	1 k Ω
Phantom powering	P12 - P48	P12 - P48	P12 - P48
Pick-up pattern	cardioid	super-cardioid	super-cardioid / lobar
Transducer principle (Microphone)	pre-polarised condenser microphone	pre-polarised condenser microphone	pre-polarised condenser microphone
Weight	approx. 9 g	approx. 9 g	approx. 17 g

IS microphones



Specification	MEG 14-40	MAT 133 • MAT 133-S	MAT 153-S
Connector	XLR 3M	XLR-3F, Pin assignment: 1 = Ground 2 = Positive (+) 3 = Negative (-)	XLR-5F, Pin assignment: 1 = gnd 4 = LED (-) 2 = hot (+) 5 = LED (+) 3 = cold (-)
Current consumption	3 mA	1.9 mA	3.7 mA
Dimensions	L 450 mm	120 x 170 x 43 mm (W x D x H)	120 x 170 x 43 mm (W x D x H)
Equivalent noise level	26 dB(A)		
Equivalent noise level weighted as per CCIR 468-3	37 dB		
Frequency response (microphone)	50Hz - 20 kHz		
Impedance	< 100 Ω		
Maximum sound pressure level (passive)	130 dB(SPL)		
Phantom powering	P 12 - P 28	P 24 - P 48	P 24 - P 48
Pick-up pattern	cardioid		
Power supply	P 12 - P 48		
Transducer principle (Microphone)	pre-polarised condenser microphone		
Weight	147 g	1.21 kg	1.21 kg

Visitor guidance & audio streaming

Tourguide 2020-D



Specification	HDE 2020-D-II	EK 2020-D-II	SKM 2020-D
Dimensions	245 x 125 x 20 mm	98 x 61 x 24 mm	
Frequency response		100 Hz – 7.0 kHz	100 Hz – 7.0 kHz
Frequency response (headphones)	100 Hz – 7.0 kHz		
Frequency response (microphone)			100 Hz – 7.0 kHz
Modulation	2-FSK	2-FSK	2-FSK
Number of channels	6 in parallel	6 in parallel	6
Operating time	8 h	ca. 16 h	8 h
Pick-up pattern			Cardioid
Power supply	830 mAh Lithium-Polymer	1,500 mAh Lithium-Polymer	BA 2015 (2,4 V) 2 AA (1,5 V)
RF frequency range	EU 863 - 865 MHz US 926 - 928 MHz	EU 863 - 865 MHz US 926 - 928 MHz	EU 863 - 865 MHz US 926 - 928 MHz
RF output power			10 mW
Signal-to-noise ratio			> 65 dB(A)
Sound pressure level (SPL)	120 dB(SPL)		
THD, total harmonic distortion	< 1 %	< 1 %	≤ 1%
Transducer principle			Dynamic
Weight	73 g	78 g	420 g

Tourguide 2020-D



Specification	SR 2020-D	SK 2020-D
Dimensions	212 x 145 x 38 mm	245 x 125 x 20 mm
Frequency response	100 Hz – 7.0 kHz	
Frequency response (microphone)		100 Hz – 7.0 kHz
Modulation	2-FSK	2-FSK
Number of channels	6 / 8	
Operating time		10 h (BA 2015)
Phantom powering	48 V	
Power supply		BA 2015 / 2.4 V 2x AA 1.5 V
RF frequency range	EU 863 - 865 MHz US 926 - 928 MHz	EU 863 - 865 MHz US 926 - 928 MHz
RF output power	10 mW	
Signal-to-noise ratio	> 70 dB(A)	
THD, total harmonic distortion	≤ 1%	
Weight	1.1 kg	160 g

Tourguide 1039



Specification	EK 1039
Dimensions	82 x 64 x 24 mm
Frequency response	25 Hz – 15.0 kHz
Modulation	FM large band MPX mono
Operating time	8 h
Signal-to-noise ratio	> 90 dB(A)
Switching bandwidth	72 / 75 MHz
Weight	200 g

Visitor guidance & audio streaming

MobileConnect



Specification	ConnectStation CS1-M	Ruckus Zoneflex 7372
Dimensions	48.3 x 24.0 x 4.4 cm	15.8 x 15.8 x 4 cm
Frequency band		IEEE 802.11b/g/n : 2.4 - 2.484 GHz IEEE 802.11a/n : 5.15 - 5.25 GHz 5.25 - 5.35 GHz 5.47 - 5.725 GHz 5.725 - 5.85 GHz
Frequency response	5 Hz to 21.5 kHz	
Input sensitivity	Low gain, +4 dBu, -10 dBV	
Input type	1x RCA (XLR) transformer balanced galvanically isolated according to AES3-1992 (SPDIF/AES) 4x 1/4" TRS jack servo balanced (Analog In)	
Operating relative humidity	10 % to 90 % at 25 °C non-condensing	10 % to 95 % non-condensing
Operating temperature	+5 °C to +45 °C (+41 °F to +113 °F)	0 °C to 50 °C (+32 °F to +122 °F)
Power supply	100 - 240 VAC 50/60 Hz max. 600 mA	DC input: 12 V DC 1.0 A
RF output power		(aggregated) maximum power varies by country: 26 dBm for 2.4 GHz 24 dBm for 5 GHz
Signal-to-noise ratio	113 dB RMS unweighted / 116 dB(A) at 44.1 kHz	
Storage temperature	-20 °C to +75 °C (-4 °F to +167 °F)	
Weight	2.9 kg	350 g



Comparison between solutions

Meeting & presentation solutions	MEB 114	MEB 114 -S	MEB 102	MEB 102-L	MEB 104	MEB 104-L	MEG 14-40	MEG 14-40-L	ME 34	ME 35	ME 36	MAT 133	MAT 133-S	MAT 153-S
Applications	SL Wired Microphones													
Conferences (voice lift)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Teleconferences	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Presentations	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Setting up and installing														
Table - Mobile installation	•	•					•	•	•	•	•	•	•	•
Table - Permanent installation			•	•	•	•	•	•	•	•	•			
Ceiling			•						•	•	•			
Lectern							•	•	•	•	•	•	•	•
Floor							•	•	•	•	•			
Pick-up patterns														
Omni-directional			•	•										
Cardioid	•	•			•	•	•	•	•					
Super-cardioid									•					
Super-cardioid - lobar										•				
Other features														
Signal light ring		•		•		•		•					•	•
Slide switch for setting mic behavior		•											•	•

Audio & web conference systems

	Wireless	Wired	Wireless	Wired	Ceiling
Connectivity	Speakerphone		ADN		TeamConnect
USB	•			•	•
Audio (jack plug)	•			•	•
Audio (XLR plug)		•	•		
Landline				•	•
Bluetooth				•	
NFC				•	
Conference size					
Small (up to 4 participants)	•			•	•
Medium (up to 24 participants)		•	•	•	•
Large (more than 24 participants)		•	•		•
Meeting requirements					
Wireless			•	•	
Fixed		•			•
Local sound reinforcement	•	•	•		•
Flexible speaker position	•		•	•	•
Scalability		•	•	•	
Network integration		•	•		•
Clean table					•
Office environment					
Multi-purpose room (flexible furniture)	•		•	•	•
Shared spaces	•		•	•	
Ad-hoc / unequipped meeting rooms	•			•	
Dedicated conference rooms	•	•	•	•	•

Describing the Sound

SOUND QUALITY

Sennheiser Voice Clarity uniquely enhances the most important frequencies and details of the human voice. For you, sound is crisper and clearer, allowing you to hear the nuances contained in spoken conversation – and for your listener, a noise-cancelling microphone sends the clearest signal to improve intelligibility. In combination, this results in better, more natural sounding conversations where no important details are lost.

SpeakFocus™ technology ensures that your listener receives all the important details of your call to reduce misunderstandings – no matter where you are calling from. The technology zooms in on your voice, works in all sound environments and adapts intelligently whatever the environment – for instance in the car, in the office, at a seminar or at the airport.

Wideband audio technology operates in the extended frequency range of 150 – 6,800 Hz and offers higher quality speech transmission than narrowband. To be able to use wideband, all components of the communication line must support this standard (PPX, mobile network operator etc.).

Narrowband audio technology operates in the 300 – 3400 Hz frequency. As many traditional desk phones only support these narrowband frequencies, we have a range of narrowband headsets, which get the best performance available from this standard.

Noise-cancellation technology is incorporated in our microphones to reduce background noise, filter out disturbing ambient noise and enable crystal clear telephone conversations. On certain models in our range we offer ultra-noise cancelling microphones, which are able to improve voice transmission in particularly noisy environments.

WindSafe™ technology reduces wind noise to ensure the clearest possible sound is sent to your listener. By choosing the best mix of three microphones and processing the sound, WindSafe™ technology finds the best way to balance and enhance the user's voice when speaking outside in windy conditions.

HEARING PROTECTION

ActiveGard® hearing protection technology protects users from the potential danger of acoustic injury from unexpected and sudden sound bursts on the line. ActiveGard® is like a fast-acting intelligent volume control. If an incoming signal rises to a level that is harmful to your hearing, it is instantly reduced to a lower, and more comfortable level. When the sound level returns to normal, the volume returns to the original level.

WIRELESS TECHNOLOGIES

Bluetooth® technology is a global radio transmission standard, which supports the application of a wide range of wireless electronic devices. The technology connects devices over a distance of up to 100 meters in line of sight, depending on the Bluetooth® class and device.

DECT (Digital Enhanced Cordless Telecommunications) is a digital transmission standard for wireless telephony, primarily used for wireless voice transmission in office and contact center environments. DECT provides a cleaner, more stable sound and does not interfere with nearby WiFi devices. In addition DECT protects voice calls with highly secured DECT authentication and encryption.

DECT vs Bluetooth® – One of the chief advantages of a DECT solution is that it doesn't interfere with 2.4 GHz WiFi, whereas a Bluetooth® solution uses the same frequency as WiFi. This means that it is possible to have more users in the same area when a DECT solution is used. On the other hand, a Bluetooth® headset gives more mobility as it can connect directly with the user's mobile phone. This gives the user the advantage of being able to use it both in the office and on the go.

	DECT	Bluetooth®
Frequency	EU/Asia-Pacific* : 1.8 GHz 2.4 GHz US/Canada : 1.9 GHz	2.4 GHz
Range	Typical office environment : 55 m/180 ft Line of sight : 180 m/590 ft	Typical office environment : Up to 25 m/82 ft (device dependent) Line of sight : Up to 100 m /328 ft
Connectivity	Desk phone and/or PC via bottom cables to base station	Mobile phone, tablet and/or PC (via dongle)

* Restrictions may apply

Sennheiser electronic GmbH & Co. KG
Am Labor 1, 30900 Wedemark, Germany
www.sennheiser.com

