



The Future of Audio



EW-DX

## Evolving with you.

Digital wireless designed to make collaboration and learning easier



Get in touch with us now!

[sennheiser.com/ew-dx-business](https://sennheiser.com/ew-dx-business)

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## EW-DX Benefits

### Versatile and scalable

One system to cover multiple professional needs

- Easily scalable from 2 channels to a campus-wide installation – offers a flexibility to expand as customer's professional needs change
- Manageable with just one piece of software - network-enabled management of large setups through the Sennheiser Control Cockpit. 3rd party applications are also seamlessly supported in-line with Sennheiser brand-agnostic approach
- Convenient network-enabled charging with CHG 70N - charge EW-DX devices easily without interfering in the business workflow

### Reliable

A mic system that can be relied on in the most pressing and sensitive situations

- Secure content transmission with AES-256 encryption
- Digital system - robust RF links with stable connection and no audio artifacts
- IEEE 802.1x network authentication – secure deployment of EW-DX devices in your network

### Innovative

Advanced feature set to fulfill your professional requirements for years to come

- Channels: equidistant frequency grid for easy allocation with more channels per available space – even if less space is available in the future, you can still count on required number of channels
- Budget: technical characteristics unmatched by the similarly priced systems on the market - very low latency of 1.9 ms and battery time of up to 12h
- Build: robust design with traditionally high quality Sennheiser engineering

### Effortless

Simplified workflow, installation and management of UHF mic system

- Automatic RF setup allows for easy in-room multi-channel installations
- Monitoring and control through Sennheiser Control Cockpit and 3rd party apps – no physical maintenance required
- No sensitivity settings on transmitters required with 134 dB dynamic range



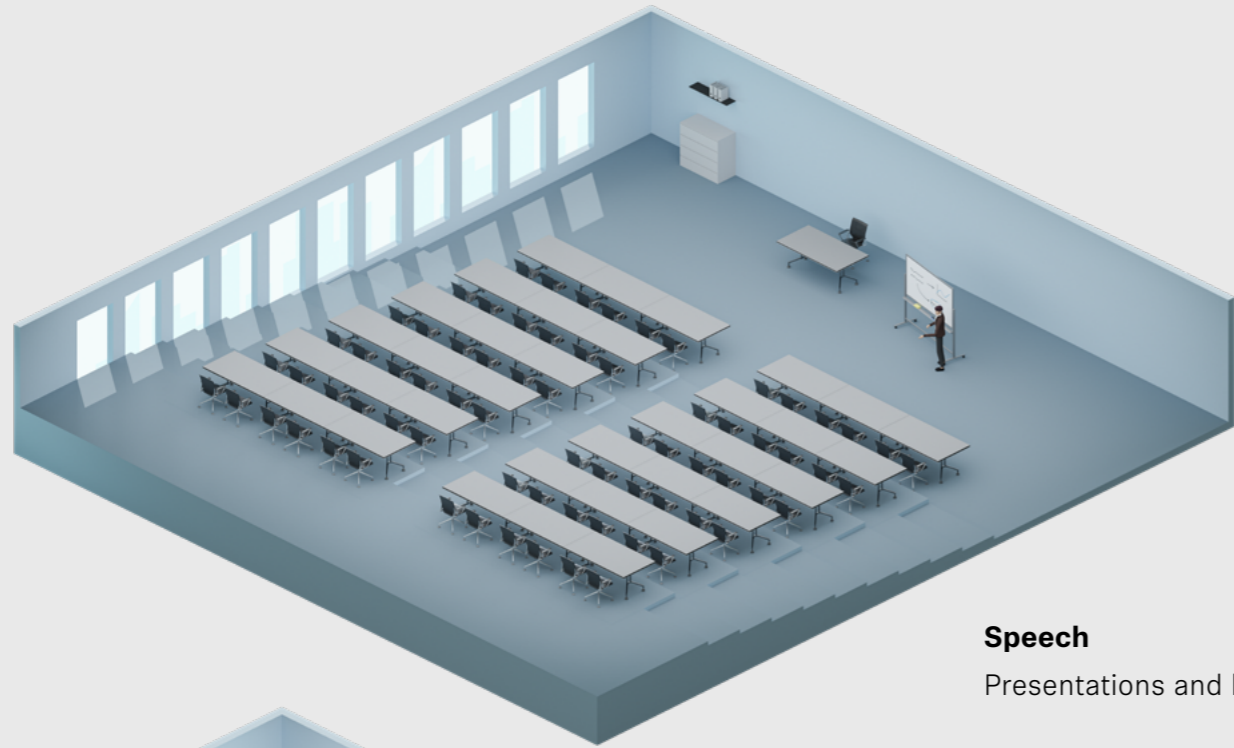
## EW-DX

### Evolving with you.

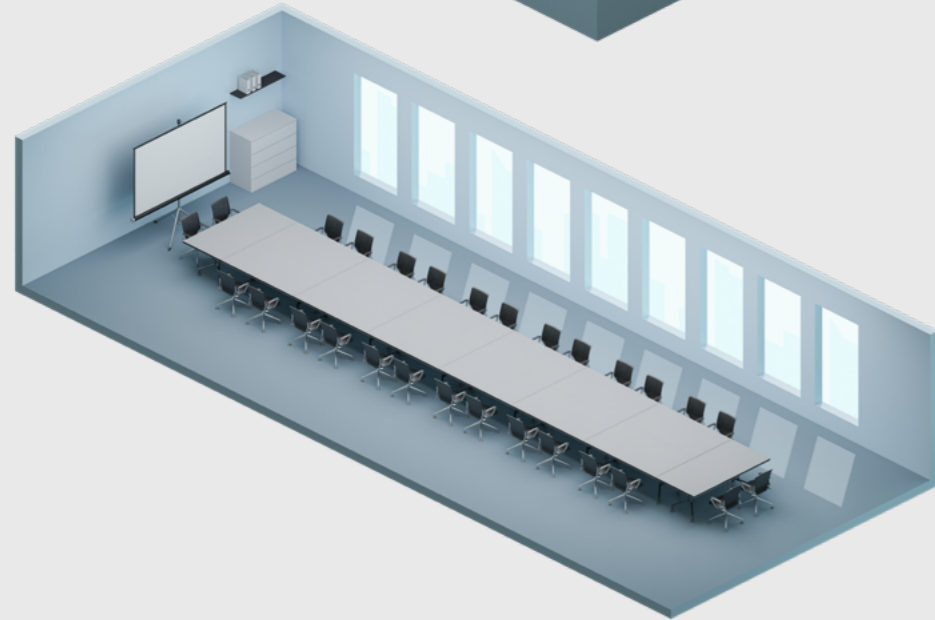
EW-DX is designed for the most demanding business and professional applications. The latest digital wireless system solution from Sennheiser is scalable, reliable and easy to install. The Sennheiser Control Cockpit allows the microphone system to be effortlessly controlled and monitored remotely. With its advanced feature set, EW-DX can easily be scaled from the smallest meeting space or classroom to the largest business and educational installations, all via your existing Dante® network.

### Technical Data: System

|  |   |
|--|---|
| Frequency range for app & synchronization                          | Bluetooth® Low Energy (BLE): 2402 - 2480 MHz  |
| Audio frequency response   | 20 Hz - 20 kHz (-3 dB) @ 3 dBfs               |
| Audio THD  | ≤ -60 dB for 1 kHz @ -3 dBfs input level      |
| Operating temperature  | -10 °C - +55 °C (14 °F - 131 °F)              |
| Relative humidity  | 5 - 95 % (non-condensing)                     |
| Latency  | 1.9 ms  |
| <b>Frequency variants</b>  | <b>Region</b>                                 |
| Q1-9 470.2 - 550 MHz   | EU, US, Canada, Middle East, Japan            |
| R1-9 520 - 607.8 MHz   | EU, US, Canada, Australia, Middle East, Japan |
| S1-10 606.2 - 693.8 MHz  | UK, Australia, Korea, Japan                   |
| S2-10 614.2 - 693.8 MHz  | EU  |
| S4-10 630 - 693.8 MHz  | China   |
| U1/5 823.2 - 831.8 MHz & 863.2 - 864.8 MHz                         | EU, UK  |
| V3-4 925.2 - 937.3 MHz   | Korea   |
| V5-7 941.700 - 951.800 & 953.050 - 956.050 & 956.650 - 959.650 MHz | US, Canada                                    |
| Y1-3 1785.2 - 1799.8 MHz   | EU, UK, Australia                             |



**Speech**  
Presentations and lectures

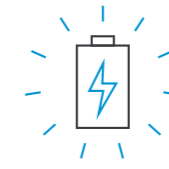


**Meetings**  
online/offline and hybrid

## Features At a glance



Easy in-room automatic setup



Network enabled charging



AES 256 encryption



Worldwide usage



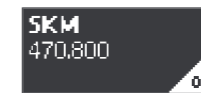
Dante® integration



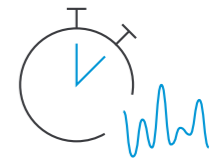
12 hours battery life



Transmitters with function buttons



Transmitters with e-Ink display



Low latency of 1.9 ms

## Applications

### Business and Learning

EW-DX is the digital wireless microphone system for business and professional use designed with features and flexibility to make collaboration and learning easier.

**Education** – from simple classroom setups to campus-wide installations

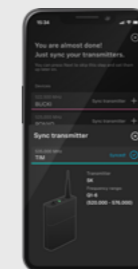
**Corporate** – mid to large sized meeting rooms and conferencing infrastructure

## Software

### Effortless Monitoring & Control



Sennheiser Control Cockpit



Smart Assist App



Third-Party Plugins



## EW-DX SKM/ SKM-S Handheld transmitter

Rugged and versatile handheld transmitter with or without switch

- 10mW RF power with up to 100m/328ft working range
- Charging contacts for in-device charging with CHG 70N
- Persistent elnk display - parameters visible on screen even when device is not powered on
- Programmable mute switch on EW-DX SKM-S - customize the device depending on your professional needs
- Function buttons - control all the transmitter settings directly from handheld microphone
- Extended runtime with lithium-ion batteries - up to 12 hours operation time
- Standard capsule interface - compatible with a wide range of Sennheiser and Neumann capsules
- Mic input trim control
- Metal housing

## EW-DX SK/ SK 3-pin Bodypack transmitter

Compact and versatile bodypack transmitter for use with Evolution Wireless Digital receivers - with 3,5 mm jack or 3-pin connector variants

- 3,5 mm jack or 3-pin connector variants
- 10mW RF power with up to 100m/328ft working range
- Charging contacts for in-device charging with CHG 70N
- Persistent elnk display - parameters visible on screen even when device is not powered on
- Programmable mute switch - customize the device depending on your professional needs
- Extended runtime with lithium ion batteries - up to 12 hours operation time
- Mic input trim control
- Metal housing





## EW-DX EM 2

### Receiver

Half-rack (9,5") receiver for use with Evolution Wireless Digital handheld, bodypack and tablestand transmitters

- 2 channel half rack (9.5")
- Up to 88 MHz switching bandwidth
- PoE IEEE 802.3af Class 3
- Equidistant Channel Spacing: 146 channels in Standard Mode; 293 channels in Link Density Mode
- Network enabled for control with Sennheiser Control Cockpit / media control system through a number of 3rd party modules
- Clear and easy focused user interface with OLED display
- Ethernet connectivity (IPv4 and IPv6)
- Secure AES 256 encryption
- External PSU 12V/1A
- All-metal housing



## CHG 70N

### Network Charger

The CHG 70N is a network enabled charger featuring two individual charging bays

- Control and monitoring via the Sennheiser Control Cockpit and 3rd party applications
- 2 bays: charge EW-DX SKM, SK or BA70
- Power via PoE or PSU
- PoE IEEE 802.3af Class 3
- Cascade up to 5 CHG 70N (only one network and PSU needed)
- 2h charging time (0 ~ 80%), 3h till 100%



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## EW-DX TS 3-pin / 5-pin Tablestand

EW-DX TS tablestand transmitter is a sturdy, wireless table stand that provides a stable base for a wide range of Sennheiser gooseneck microphones. EW-DX TS is available in two variants - 3-pin or 5-pin XLR connector

- Programmable mute switch
- Inductive charging with CHG 2W
- 11 h runtime with BA 40 lithium-ion battery
- Wide range of compatible Sennheiser gooseneck microphones: MEG 14-40 L-II B for a 5-pin variant and any gooseneck without LED ring for a 3-pin variant
- Metal housing

## CHG 2W Wireless Power Transmitter

The CHG 2W is a wireless power transmitter. It provides convenient wireless charging.

- Easy wireless charging
- Compatible with EW-DX TS 3-pin & EW-DX TS 5-pin





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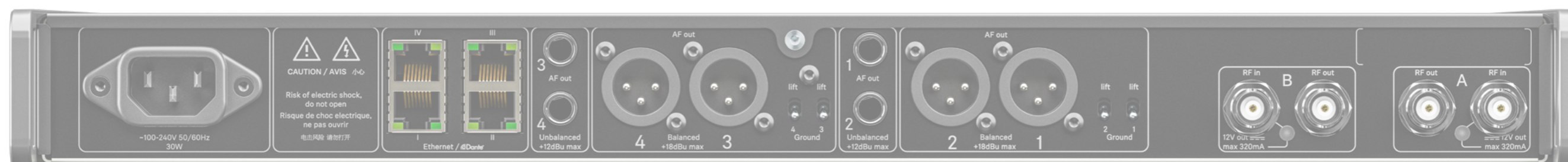
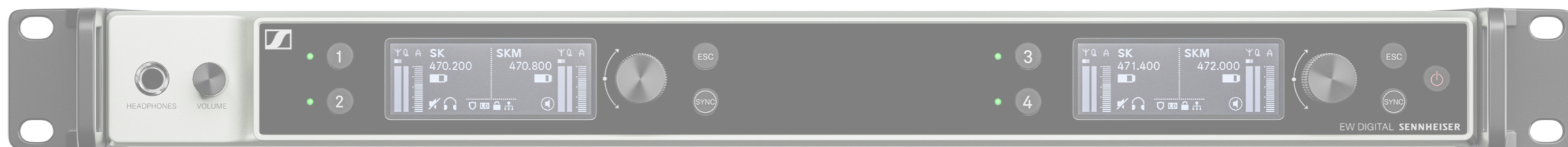
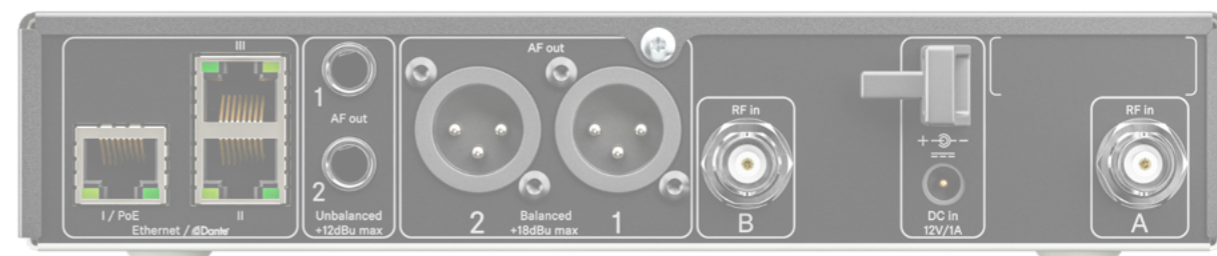
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## EW-DX EM 2 / 4 Dante

### Receiver

2 channel half rack and 4 channel full rack (19") receiver for use with Evolution Wireless Digital handheld and bodypack transmitters

- EM 2 : 2 channel half rack (9,5") with Dante®
- EM 4 : 4 channel full rack (19") with internal PSU and with Dante®
- 88 MHz switching bandwidth
- Equidistant Channel Spacing: 146 channels in Standard Mode; 293 channels in Link Density Mode
- Antenna power and loop through up to 16 channels (4 x EM 4)
- Secure AES 256 encryption
- Network enabled for control with Sennheiser Control Cockpit / media control system through a number of 3rd party modules
- Flexible network mode from single cable to a full redundancy
- Clear and easy focused user interface with OLED display
- Ethernet connectivity (IPv4 and IPv6)
- All-metal housing



# Evolution Wireless Digital Family Comparison



|                                       | EW-D EM<br>9,5" 1CH        | EW-DX EM 2<br>9,5" 2CH | EW-DX EM 2 Dante<br>9,5" 2CH | EW-DX EM 4 Dante<br>19" 4CH  | EW-D SKM-S | EW-DX SKM-S       | EW-DX SKM | EW-D SK | EW-DX SK          | EW-DX SK 3-pin | EW- DX TS                |
|---------------------------------------|----------------------------|------------------------|------------------------------|------------------------------|------------|-------------------|-----------|---------|-------------------|----------------|--------------------------|
| Channel spacing<br>(equidistant grid) | 600 kHz                    |                        |                              |                              |            |                   |           |         |                   |                |                          |
|                                       |                            | 300 kHz                |                              |                              |            | 300 kHz           |           |         | 300 kHz           |                |                          |
| Remote control                        | Smart Assist App           |                        |                              |                              |            |                   |           |         |                   |                |                          |
|                                       | Sennheiser Control Cockpit |                        |                              |                              |            |                   |           |         |                   |                |                          |
| Ease of use                           |                            |                        | Dante                        |                              |            | Charging contacts |           |         | Charging contacts |                | USB / inductive charging |
|                                       | LCD Display                | OLED Display           |                              |                              |            | e-Ink display     |           |         | e-Ink display     |                |                          |
|                                       |                            |                        |                              | Antenna Power & Loop Through | AF mute    |                   |           | AF mute |                   |                |                          |
|                                       |                            |                        |                              |                              |            | RF mute           |           |         | RF mute           |                |                          |
| Security / encryption*                |                            | AES 256                |                              |                              |            | AES 256           |           |         | AES 256           |                |                          |
| Switching bandwidth<br>(up to)        | 56 MHz                     | 88 MHz                 |                              |                              | 56 MHz     | 88 MHz            |           | 56 MHz  | 88 MHz            |                |                          |

\*Encryption only works if both ends of the link are encryption enabled.