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EW-DX

Digital wireless designed to make
collaboration and learning easier

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EW-DX

EW-DX, the latest addition to our Evolution Wireless Digital family, is designed to offer straightforward installation and integration along with the powerful scalability required for even the most demanding education and corporate applications – so you don't have to compromise.

With it's advanced feature set, along with Sennheiser Control Cockpit and the Smart Assist App facilitating effortless remote control and monitoring, 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.

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

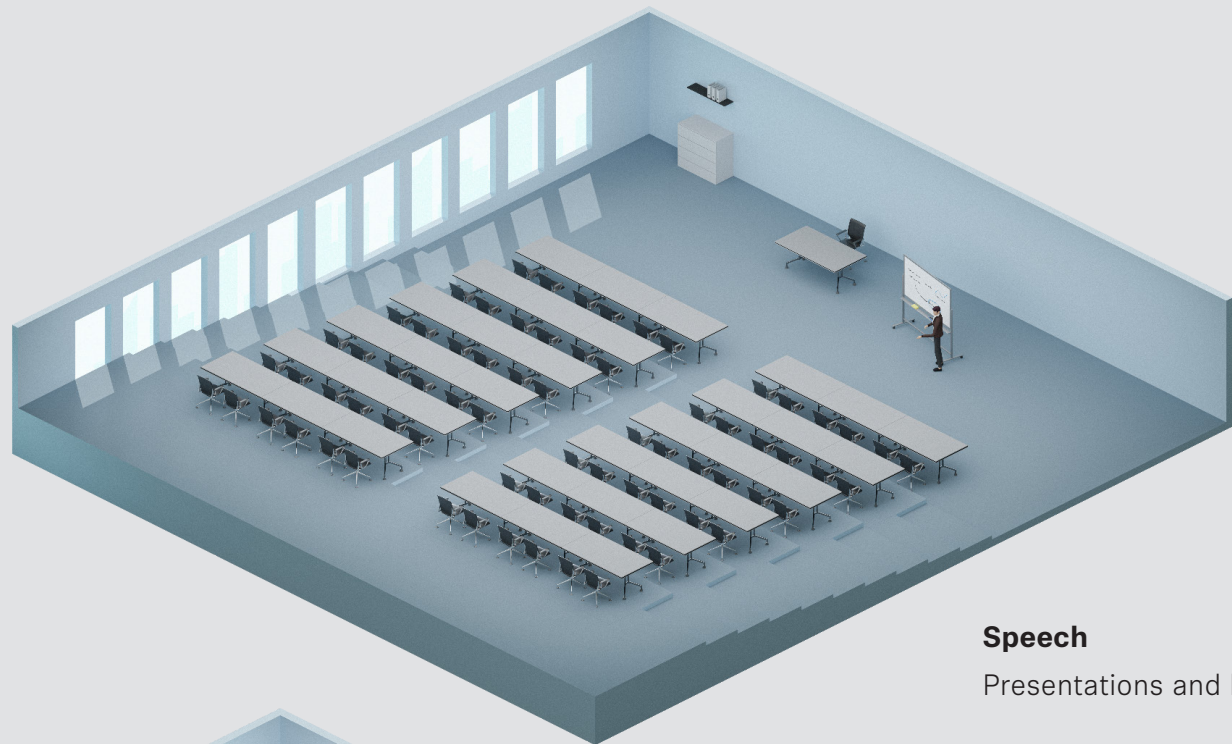
Effortless

Simplified workflow, installation and management of UHF mic system

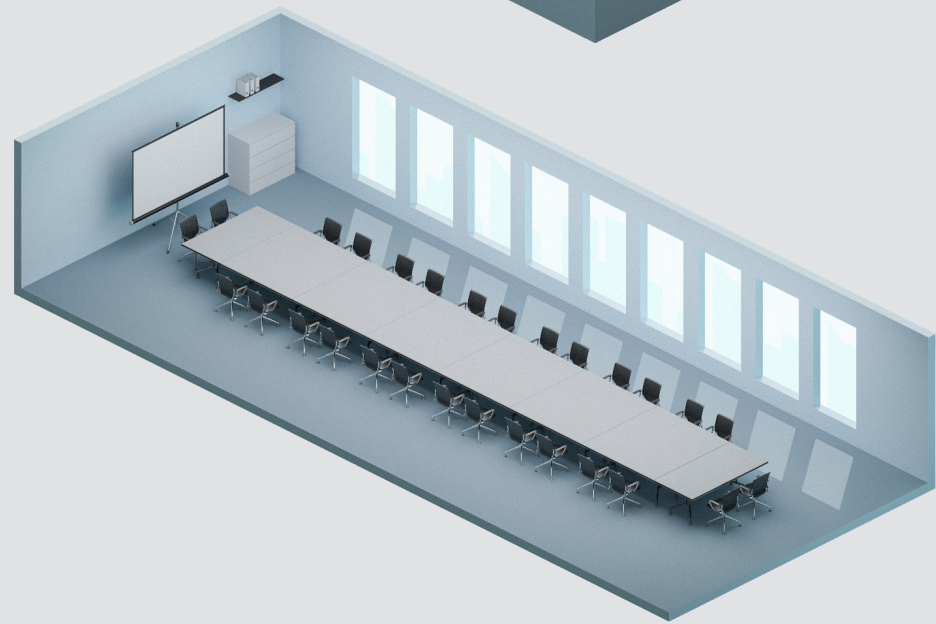
- Automatic RF setup allows for easy in-room multi-channel installations
- Monitoring and control through Sennheiser Control Cockpit and 3rd party apps – no physical maintenance required
- No sensitivity settings on transmitters required with 134 dB dynamic range

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
Frequency variants		Region
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

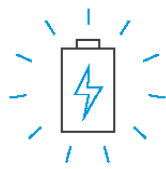


Meetings
online/offline and hybrid

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



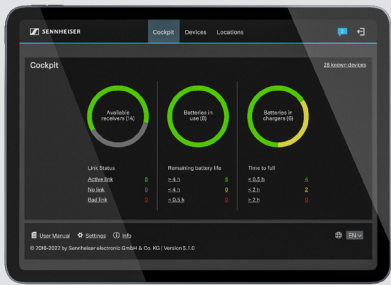
Low latency
of 1.9 ms

Applications Business and Learning

EW-DX is the UHF 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

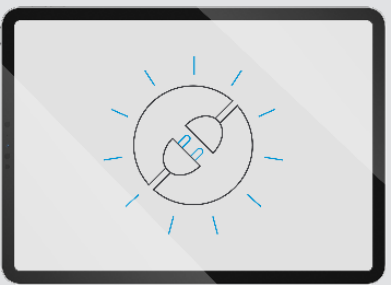
Software Effortless Monitoring & Control



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

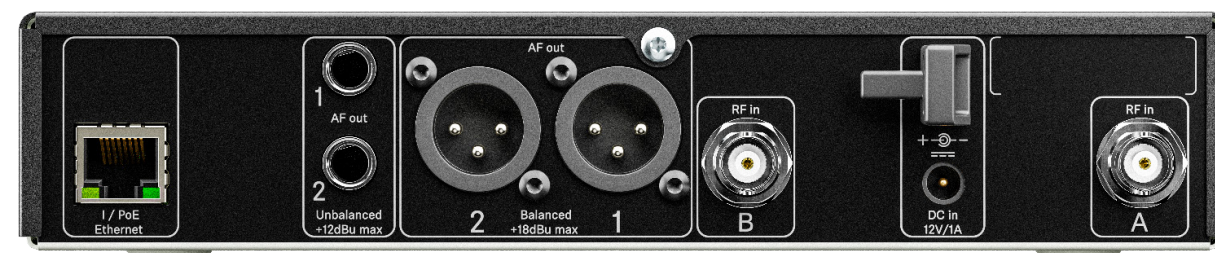
- 3,5 mm jack or 3-pin connector variants
- 10mW RF power with up to 100m/328ft working range
- Charging contacts for in-device charging with CHG 70N
- Persistent elnk display - parameters visible on screen even when device is not powered on
- Programmable mute switch - customize the device depending 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%



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.

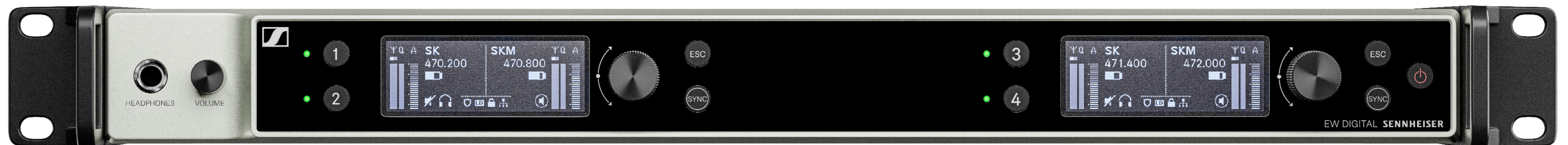
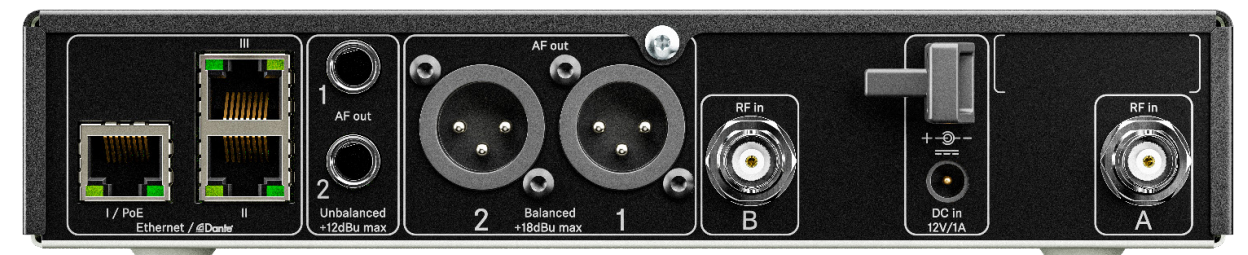
- Easy wireless charging
- Compatible with EW-DX TS 3-pin & EW-DX TS 5-pin



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 9,5" 1CH	EW-DX EM 2 9,5" 2CH	EW-DX EM 2 Dante 9,5" 2CH	EW-DX EM 4 Dante 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 (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 (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.