



EVOLUTION WIRELESS DIGITAL FAMILY

EW-D & EW-DX Product Series

Intuitive Control, Scalable Flexibility, Reliable Performance:
Wireless Audio Perfected

SENNHEISER





EW-D for Business

EW-DX for Business

EVOLUTION WIRELESS DIGITAL FAMILY

Evolution Wireless Digital combines leading UHF technology, intuitive workflows, and an adaptable, scalable design into a futureproof wireless audio platform for applications demanding straightforward implementation, reliable performance, and pristine sound. The family's EW-DX series is the most versatile and feature-rich UHF system on the market. Controlled via Sennheiser Control Cockpit software, it is perfect for extensive professional installations. The EW-D series fits more streamlined applications, offering intuitive system control and monitoring via the Smart Assist App. Installation and setup of either series couldn't be easier. Whether in a meeting room or across a campus, Evolution Wireless Digital is your ideal wireless audio solution.

APPLICATIONS

Education - from simple classroom setups to campus-wide installations

Corporate - mid to large sized meeting rooms and conferencing infrastructure

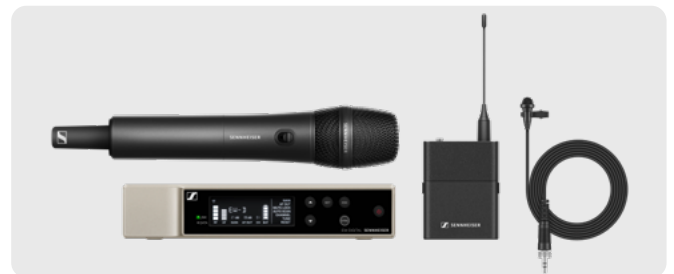
FEATURES

- **Digital transmission** operating in the UHF spectrum maximizes range, reliability, and scalability.
- **Equidistant frequency spacing** allows it to fit more channels per band.
- Worry-free **worldwide usage** thanks to UHF digital wireless technology. (Specific frequencies subject to local RF regulations).
- Robust, rechargeable battery pack delivers up to **12 hours of worry-free operation** when fully charged.
- **1.9 ms ultra-low latency** offers near-immediate audio delivery.
- Industry-leading **134 dB audio input dynamic range** removes the need for onboard sensitivity settings.
- The **Auto-Scan feature** quickly and automatically identifies target frequencies and creates reliable connections.

PRODUCT SERIES



EW-DX



EW-D

SOFTWARE



Smart Assist App



Control Cockpit (EW-DX)



3rd-party plugins (EW-DX)

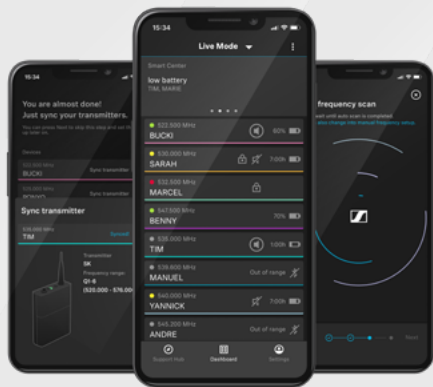
Smart Assist App

Sennheiser Control Cockpit

Global Alliances & Partnerships



SOFTWARE OPTIONS - MONITORING, CONTROL AND MORE



SMART ASSIST APP

The Sennheiser Smart Assist App puts effortless management of your entire Evolution Wireless Digital system in the palm of your hand. Whether harnessing the EW-D series' streamlined convenience in a small meeting room or EW-DX's expanded features across an entire campus, you get easy access to automated setup and frequency allocation, channel naming, muting, firmware updates, and battery status. Smart Assist's support hub also features helpful tools to prepare you for a successful meeting, lecture, or event.

CONTROL COCKPIT

Sennheiser Control Cockpit is the central software for easy handling, control and maintenance of Sennheiser wireless mic systems like SpeechLine Digital Wireless and EW-DX.

The easy-to-use Sennheiser Control Cockpit provides a global overview of all network-enabled 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.



GLOBAL ALLIANCES AND PARTNERSHIPS

Collaboration with industry-leading manufacturers and a platform-agnostic approach make it easy to integrate Sennheiser products alongside your preferred platforms and chosen technology solutions.

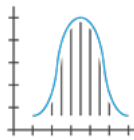
Readily available Crestron, Extron and Q-SYS modules, supported by co-testing, certification and ongoing solution development, make EW-DX a reliable choice for your meeting and learning spaces.

EW-D

Part of the Evolution Wireless Digital family, the EW-D series is ideal for smaller or less complex education, entertainment, and corporate audio applications. Utilizing cutting-edge UHF digital wireless technology, it provides trusted reliability, digital audio quality, and effortless app-based control.



Digital UHF
Transmission



Equidistant
Frequency Spacing



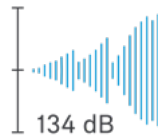
Worldwide
Usage



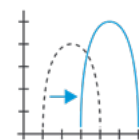
12 Hours
Battery Operation



1.9 ms Ultra-Low
Latency



134 dB
Audio Input
Dynamic Range



Auto Frequency Scan
Feature

EASY SETUP & MONITORING

Use the free of charge EW-D Smart Assist App to remotely manage your system settings (for installations up to 16 channels) from the palm of your hand. Colour-coded channels let you quickly identify system components as you access automated setup and operation, as well as full system monitoring. The equidistant tuning grid creates equally spaced frequencies, simplifying RF coordination. This eliminates intermodulation dropouts, maximizing your channel count in even the most congested RF environments.

WORRY-FREE RELIABILITY

EW-D provides greater dynamic range (up to 134 dB) than any wireless system currently on the market. It can also automatically locate and secure the most reliable signal and features a battery pack with up to 12 hours of operation time. Combined with its performance-ready, rugged metal housing, EW-D delivers peace of mind for those long days ahead.

FUTURE-PROOF INVESTMENT

Utilizing Evolution Wireless Digital's wide range of hardware and accessory options, as well as compatibility with a variety of Sennheiser and Neumann handheld microphone heads, EW-D easily adapts to your audio application's evolving requirements. It's also fully scalable for up to 90 channels. This ensures you have the power and flexibility you need in any environment.



EW-D
Technical data: System

Bluetooth® Low Energy (BLE) frequency range	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
Q1-6 470.2 - 526 MHz	EU, US, Canada, Middle East, Japan
R1-6 520 - 576 MHz	EU, US, Canada, Australia, Middle East, Japan
R4-9 552 - 607.8 MHz	EU, US, Canada, Australia, Middle East, Japan
S1-7 606.2 - 662 MHz	UK, Australia, Korea, Japan
S4-7 630 - 662 MHz	EU
S7-10 662 - 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
Y1-3 1785.2 - 1799.8 MHz	EU, UK, Australia

EW-D EM Receiver

One-channel digital half-rack (9,5") receiver for use with Evolution Wireless Digital handheld and bodypack transmitters.

 [EW-D EM Website](#)



EW-D SKM-S Handheld Transmitter

Digital wireless handheld transmitter with switch compatible with Evolution Wireless Digital systems.

 [EW-D SKM-S Website](#)

EW-D SK Bodypack Transmitter

Digital UHF bodypack transmitter for use with Evolution Wireless Digital systems.

 [EW-D SK Website](#)



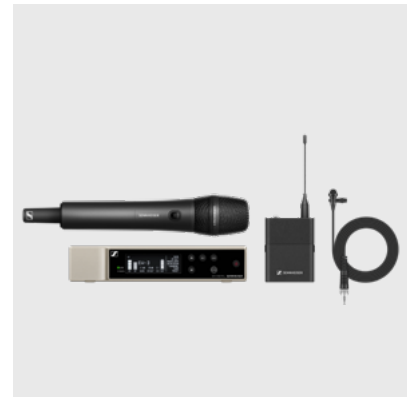
EW-D SETS



EW-D 835 SET



EW-D SKM BASE SET



EW-D ME2/835 SET



EW-D SK BASE SET



EW-D ME2 SET



EW-D ME3 SET



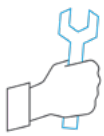
EW-D ME4 SET

EW-DX

EW-DX, the latest member of our Evolution Wireless Digital family, is designed so that you don't have to choose between a system that is easy to use and one that is powerful and flexible enough for even the most demanding business and professional applications. With its straightforward installation and integration, the system easily scales across your existing Dante network, from the smallest meeting room or classroom to the largest educational and corporate campus installations.

With advanced functionality, you can manage the fine details or allow the system to eliminate the frustration of complex channel and audio setting management. Additionally, you can experience virtually effortless system maintenance with the Sennheiser Control Cockpit, which allows the system to be managed, monitored, and controlled remotely.

Features



Easy In-Room Automatic Setup



Low Latency Of 1.9 ms



Sennheiser Control Cockpit



Network-Enabled Charging



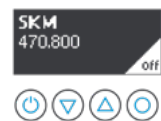
Dante Integration



12 Hours Battery Operation



3rd-Party Plugins



Transmitters With Function Buttons And e-Ink Displays

Components



Receivers



Transmitters



Accessories



Sets



EW-DX
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

[EW-DX SKM Website](#)[EW-DX SKM-S Website](#)

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-C
- Persistent eInk 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 Website](#)[EW-DX SK 3-pin Website](#)

EW-DX SK

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-C
- 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 TS 3-pin Website](#)[EW-DX TS 5-pin Website](#)

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

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 or USB-C charging
- 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



[EW-DX EM 2 Website](#)
[EW-DX EM 2 Dante Website](#)

EW-DX EM 2 & EM 2 Dante

Receivers

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

- EM 2 : 2 channel half rack (9,5") receiver without Dante®
- EM 2 Dante : 2 channel half rack (9,5") receiver with Dante®
- 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



EW-DX EM 4 Dante

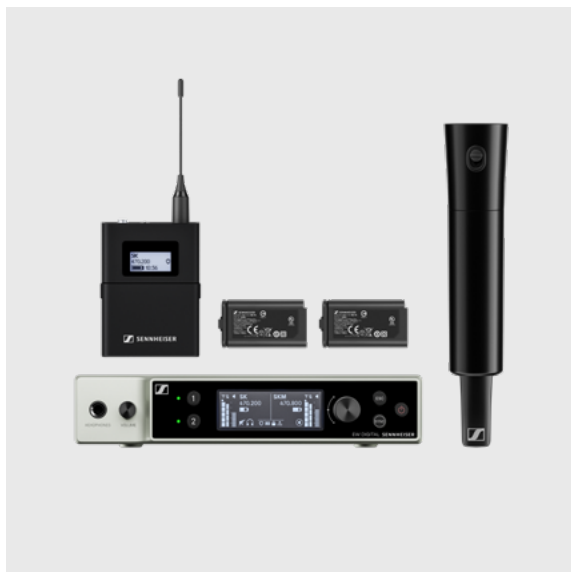
Receiver

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

- 4 channel full rack (19") receiver 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

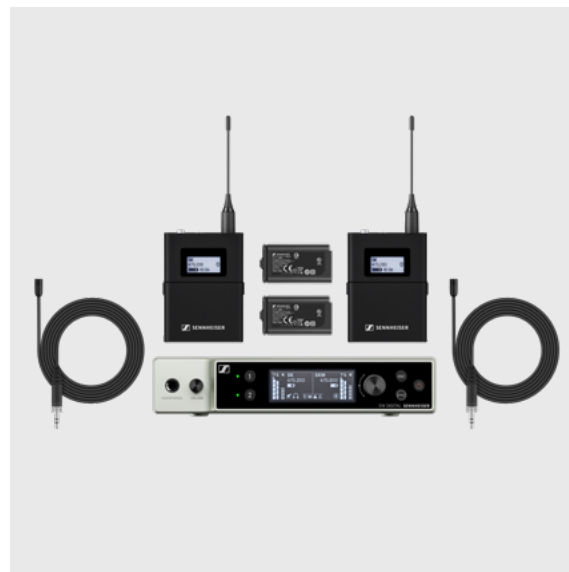


EW-DX SETS



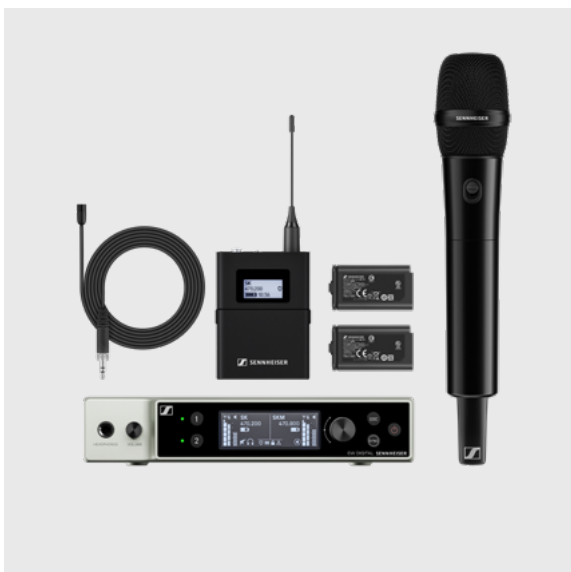
EW-DX SK / SKM-S BASE SET

Flexibility for those who want to choose the capsule that best meets their needs



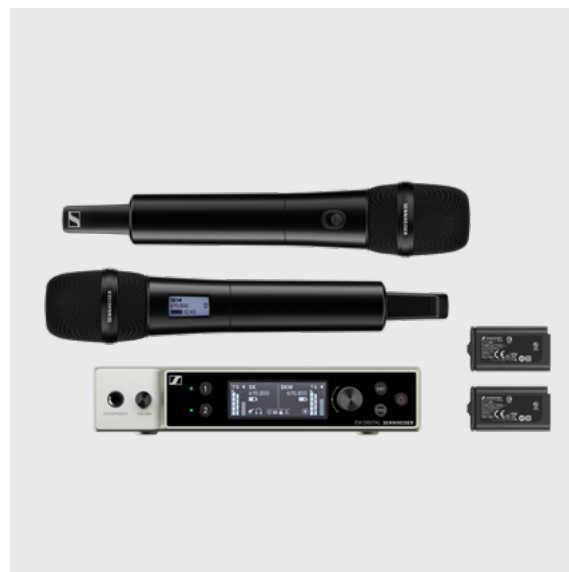
EW-D MKE 2 SET

Designed for those who appreciate freedom of movement



EW-DX MKE 2 / 835-S SET

The best choice for professional users, businesses and educators



EW-DX 835-S SET

Perfect for presenters and singers



CHG 70N-C

Network Charger

The CHG 70N-C 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
- 2h charging time (0 ~ 80%), 3h till 100%

[CHG 70N-C Website](#)

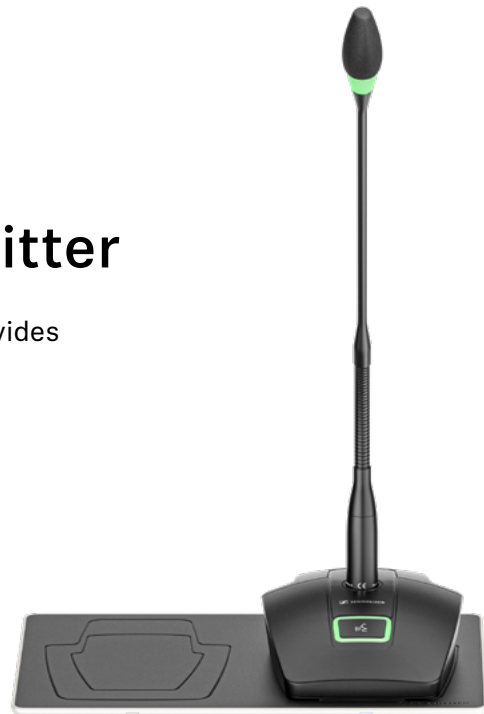
CHG 2W

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

[CHG 2W Website](#)



AWM

Antenna






AWM Antenna is an active directional antenna for use with Evolution Wireless Digital microphone systems.

- Active directional antenna
- Adjustable gain settings for different cable length
- Wall, ceiling or mic stand mounting options
- Power supply either via BNC or DC Jack





[AWM Antenna Website](#)



Antennas and RF Accessories

Product	Description	Product variant	Article number	Frequency range	Web link
EW-D ASA Antenna Splitter 	Antenna splitter, active (dual 1:4), BNC connector	EW-D ASA (Q-R-S)	508879	470 – 694 MHz	PRODUCT WEB PAGE
		EW-D ASA CN/ANZ (Q-R-S)	508998	470 – 694 MHz	
		EW-D ASA (T-U-V-W)	508880	694 – 1075 MHz	
		EW-D ASA (X-Y)	508881	1350 – 1805 MHz	
EW-D AB Antenna Booster 	Antenna booster	EW-D AB (Q)	508873	470 – 550 MHz	PRODUCT WEB PAGE
		EW-D AB (R)	508874	520 – 608 MHz	
		EW-D AB (S)	508875	606 – 694 MHz	
		EW-D AB (U)	508876	823 – 865 MHz	
		EW-D AB (V)	508877	902 – 960 MHz	
		EW-D AB (Y)	508878	1785 – 1805 MHz	
Half Wave Dipole Antenna 	A pair of rod antennas	HALF WAVE DIPOLE (Q)	508868	470 – 550 MHz	PRODUCT WEB PAGE
		HALF WAVE DIPOLE (R)	508869	520 – 608 MHz	
		HALF WAVE DIPOLE (S)	508870	606 – 694 MHz	
		HALF WAVE DIPOLE (U)	508871	823 – 865 MHz	
		HALF WAVE DIPOLE (V)	508966	902 – 960 MHz	
		HALF WAVE DIPOLE (Y)	508872	1785 – 1805 MHz	
AWM Antenna 	Active directional antenna with adjustable gain settings and various mounting options	AWM UHF I	508865	470 – 694 MHz	PRODUCT WEB PAGE
		AWM UHF II	508866	823 – 1075 MHz	
		AWM 1G8	508867	1785 – 1805 Hz	
ADP UHF Antenna 	Passive directional antenna	ADP UHF	508863	470 – 1075 MHz	PRODUCT WEB PAGE

Battery Packs and Charging

Product	Description	Product variant	Article number	Compatible products	Web link
 BA 70	Rechargeable battery pack with 1720 mAh capacity	BA 70	508860	EW-D SK, EW-D SKM, EW-DX SK, EW-DX SKM	PRODUCT WEB PAGE
 CHG 2W	Wireless power transmitter for two devices with external power supply	CHG 2W	506805	SL Tablestand 133-S DW, SL Tablestand 153-S DW, SL Boundary DW, EW-DX TS 3/5 Pin	PRODUCT WEB PAGE
 CHG 70N-C	Network enabled charger featuring two individual charging bays, cascadeable up to 5 units	CHG 70N-C	700332	EW-DX SK, EW-DX SKM, BA 70	PRODUCT WEB PAGE
	Network enabled charger featuring two individual charging bays, cascadeable up to 5 units, incl. power supply	CHG 70N-C + PSU KIT	700333	EW-DX SK, EW-DX SKM, BA 70	PRODUCT WEB PAGE
 L 70 USB	USB charger with dual slots	L 70 USB	508861	BA 70	PRODUCT WEB PAGE
	Set of L 70 USB charger and 2 BA 70 rechargeable battery packs	EW-D Charging Set	508862	BA 70	PRODUCT WEB PAGE
Power distribution cable (EW-D)	Distribution cable (1 DC input, 4 DC output) to power up to 4 x EW-DX EM 2 or EW-DX EM 2 Dante® simultaneously	EW-D Power Distribution Cable	509458	EW-D EM, EW-DX EM 2/EM 2 Dante	PRODUCT WEB PAGE
Power supply (EW-D)	Power supply including country adapters	EW-D Power Supply	509454	EW-D EM, EW-DX EM 2/EM 2 Dante	PRODUCT WEB PAGE
Power supply (NT12-35CS)	Power supply including country adapters	NT12-35CS Power Supply	508995	EW-D ASA, CHG 70N-C	PRODUCT WEB PAGE

Other Accessories

Product	Description	Product variant	Article number	Compatible products	Web link
EW-D Color Coding Set	Color coding sets for Evolution Wireless Digital transmitters and receivers	EW-D color coding set (EM, SKM-S, SK)	508989	EW-D EM, EW-D/EW-DX SK, EW-D/EW-DX SKM	PRODUCT WEB PAGE
		EW-D color coding set (SK)	508990	EW-D SK, EW-DX SK	PRODUCT WEB PAGE
		EW-D color coding set (SKM)	508991	EW-D SKM, EW-DX SKM	PRODUCT WEB PAGE

EW-D / EW-DX COMPARISON

	Link Density Mode	Remote control		Ease of use			Security / encryption*	Switching bandwidth (up to)
EW-D EM 9,5" 1CH	No							56 MHz
EW-DX EM 2 9,5" 2CH	Yes	Smart Assist App	Sennheiser Control Cockpit				AES 256	88 MHz
EW-DX EM 2 Dante 9,5" 2CH				Dante				
EW-DX EM 4 Dante 19" 4CH				Antenna Power & Loop Through				
EW-D SKM-S	No							56 MHz
EW-DX SKM-S	Yes				AF mute			
EW-DX SKM				Charging contacts		RF mute	AES 256	88 MHz
EW-D SK	No							56 MHz
EW-DX SK	Yes			Charging contacts	AF mute	RF mute	AES 256	88 MHz
EW-DX SK 3-pin								
EW-DX TS				USB / inductive charging				

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



