



Sennheiser Evolution Wireless Digital

EW-DX line now complete with 19" four-channel, Dante-enabled receiver

Wedemark, September 13, 2024 – Sennheiser is excited to announce the availability of the EW-DX EM 4 Dante receiver, which completes the company’s Evolution Wireless Digital EW-DX microphone offer. The network-ready, 4-channel receiver (19", 1U) is an ideal choice for anybody specifying or setting up large multichannel systems in live audio, touring, broadcasting, theatre, and system integration applications. The receiver seamlessly integrates into existing workflows and infrastructures, offering versatile connectivity via Dante (including AES 67 support) for audio over IP, balanced XLR-3 audio outputs and unbalanced 1/4" jacks.



The EW-DX
EM 4 Dante

“With the introduction of EW-DX, we created a new standard for wireless microphones and have built a worthy successor of our evolution wireless G4 series,” comments Michael Altemark, Lead Product Manager Wireless, Business Communication. “With the EM 4 Dante, we have further enhanced the standard, and the EW-DX line is complete.”



Ulf Sikora, Product Management Pro Audio adds: “The EW-DX EM 4 Dante packs high-quality audio and spectrum-saving equidistant channel spacing into a compact and sleek design that system designers and operators require for large wireless set-ups.”

Spectrum-friendly operation

EW-DX is yet another example of Sennheiser’s spectrum-friendly product design. As the systems emit no intermodulation products, frequencies can simply be placed at 600 kHz intervals, or 300 kHz intervals in Link Density (LD) Mode, making the job of the frequency manager a lot easier. The switching bandwidth of 88 MHz leaves plenty of room to manoeuvre in a congested spectrum and will, under ideal conditions, accommodate up to 146 channels in standard mode (600 kHz spacing) or up to 293 channels in LD Mode (300 kHz spacing).

Simplifying your professional workflows

Ease of use has been a paramount objective in the design of the receiver, starting with its auto-switching PSU that adapts to local power supply. Up to four EW-DX EM 4 (up to 16 channels) can be daisy-chained directly without the need for any additional devices, as the receiver is fitted with an integrated antenna splitter with antenna power and signal loop-through.

For network-based systems, the receiver’s four network ports allow for flexible configuration modes, and the ports are configured accordingly: Control & Dante Primary combined (Single Cable Mode), Control and Dante Primary separate (Split Mode), Control, Dante Primary, and Dante Secondary separate (Redundancy Mode). Ethernet connectivity is IPv4.

Once the receivers have been set up, a quick frequency scan can be initiated via one EW-DX EM 4 Dante. The receiver will auto-deploy free frequencies across all connected receivers, including EW-DX EM 2 and EW-DX EM 2 Dante receivers, saving time and effort. Custom frequency lists can be loaded into the receiver, too.

Transmitters are conveniently sync’ed via BLE from a distance of up to 20 metres – the operator does not have to crouch in front of the rack to link receivers and transmitters. Parameters to be sync’ed can be determined via the receiver menu. The EW-DX receiver also gives you the option to perform a walk test to check signal integrity across the stage or performance area.



Transmitters are conveniently sync'ed via Bluetooth Low Energy

For remote control and monitoring, Sennheiser offers network-enabled software like the [Wireless Systems Manager](#) or [Sennheiser Control Cockpit](#). Third-party media control systems can be accommodated, too, via the SSC Sennheiser Sound Control protocol. For small setups with a maximum of 16 channels, the system can also be handled via the [Smart Assist App](#).

The user interface of the EW-DX EM 4 Dante is well structured with easy access to all functions via jog wheel navigation and control buttons, and an OLED display that helps to read off settings even in less than ideal lighting conditions. In addition to displaying RF levels, a Link Quality Indicator gives information about RF health, and a switchable headphone output on the front panel allows monitoring of the audio signal.

Pristine low-latency audio

EW-DX uses the proprietary Sennheiser Performance Audio Codec (SePAC), which ensures a latency of just 1.9 ms. “This codec has been developed especially for high-quality audio transmission,” emphasizes Sikora. “The audio quality and clarity you get is much better than with off-the-shelf-codecs.”

All transmitters have an input dynamic range of an incredible 134 dB, which removes the pressure of having to find the correct gain for spontaneous performances or unrehearsed presentations.

EW-DX at a glance

Besides the EW-DX EM 4 Dante, the EW-DX line comprises two half-19” two-channel receivers with and without Dante outputs, handheld and bodypack transmitters with various mic



options, a wireless table stand, remote and wall mount antennas, as well as a variety of table-top and rack-mount charging solutions.

“Evolution Wireless Digital EW-DX has been designed with ease of use in mind and offers a comprehensive portfolio to flexibly adapt to almost any digital wireless microphone need,” concludes Sikora.



Evolution Wireless Digital EW-DX offers a comprehensive digital wireless microphone portfolio

(Ends)

The images accompanying this media release can be downloaded [here](#).

Dante is a registered trademark of Audinate Pty. Ltd.



Additional information for the editor:

SPECIFICATIONS

System		EW-DX EM 4 Dante (Rack Receiver)	
Audio link frequency ranges	Q1-9 470.2 - 550 MHz R1-9 520 - 607.8 MHz S1-10 606.2 - 693.8 MHz S2-10 614.2 - 693.8 MHz S4-10 630 - 693.8 MHz U1/5 823.2 - 831.8 MHz & 863.2 - 864.8 MHz V3-4 925.2 - 937.3 MHz V5-7 941.7 - 951.8 MHz & 953.05 - 956.05 MHz & 956.65 - 959.65 MHz Y1-3 1785.2 - 1799.8 MHz	Input voltage	90 - 265 V AC, 47 - 63 Hz
Bluetooth® Low Energy (BLE) frequency range	2402 - 2480 MHz	Power consumption	max. 37 W
Audio frequency response	20 Hz - 20 kHz (-3 dB)	Transmit power (radiated)	BLE: max. 10 mW EIRP
Audio THD	≤ -60 dB for 1 kHz @ -3 dBfs input level	Audio output power	18 dBu max.
Dynamic range	134 dB	Headphone output	2x 70 mW @ 32 Ω
System latency	1.9 ms	Ethernet	<ul style="list-style-type: none">• Digital audio output Dante®, RJ-45; 48 kHz, 96 kHz, 24 bit• Daisy chain outputs 2 × BNC (50 Ω), 0 dB +/- 0.5 dB amplification relative to antenna inputs• Daisy-chained receivers (RF), max. 4 EW-DX EM 4 Dante
Operating temperature	-10 °C - +55 °C (14 °F - 131 °F)	Dimensions	483 x 44 x 373 mm (19" x 1.73" x 14.66")
Relative humidity	5 - 95 % (non-condensing)	Weight	approx. 4560 g (10.1 lbs) (without antennas and power supply)

About the Sennheiser brand

We live and breathe audio. We are driven by the passion to create audio solutions that make a difference. Building the future of audio and bringing remarkable sound experiences to our customers – this is what the Sennheiser brand has represented for more than 75 years. While professional audio solutions such as microphones, meeting solutions, streaming technologies and monitoring systems are part of the business of Sennheiser electronic SE & Co. KG, the business with consumer devices such as headphones, soundbars and speech-enhanced hearables is operated by Sonova Holding AG under the license of Sennheiser.

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