

## **MKH 800 TWIN – now AES42 digital microphone compatible**

**Wedemark/Amsterdam, 10 September 2010 – Sound engineers in broadcasting, studio recording, film scoring and location/mobile recording can now also benefit from the advantages of the MKH 800 TWIN dual-capsule microphone in a fully digital environment. A special adaptor cable is now available to connect the TWIN with the AES42 digital module of the MKH 8000 series.**

### **The TWIN principle**

The MKH 800 TWIN uses a signal principle that is as simple as it is unique: the audio signals from its two capsules are fed separately to the mixing console or portable mixer, enabling the engineer to set an infinite variety of pick-up patterns at the console. This is particularly useful with slung microphones or when the sound engineer wishes to experiment with the pick-up pattern to suit the acoustics of a difficult room. The MKH 800 TWIN even makes it possible to record the two capsules separately and set the ideal directional characteristics for the recording at a later time, in the peace and quiet of the post-production studio.



“Especially for large recordings, this takes the pressure off sound engineers at the session and gives them the creative freedom to experiment with small pick-up pattern variations,” explains Kai Lange, Sennheiser Product Manager for wired professional microphones. “By changing the fader setting and the signal phase, they can set any pick-up pattern they wish from omni to figure-8, as well as an infinite number of intermediate patterns.”



The MKH 800 TWIN has a natural and warm, yet neutral and transparent sound. Because of its minimal inherent self-noise, even the subtlest sound structures and the depth and character of the room are clearly audible. The frequency response extends to 50kHz, thus

improving the resolution for complex acoustic details, especially for top-quality digital formats with high sampling rates. Because it is so compact, the MKH 800 TWIN can be positioned inconspicuously – a significant advantage for film score or live location recordings. In addition to a nickel-coloured model there is a dark grey Nextel-coated version, ideal for these purposes as it does not reflect light. The Nextel version is the same colour as the MKH 8000 series of microphones.

### **The digital module**

The MZD 8000 AES42 digital module digitises the sound directly behind the microphone, thus ensuring that the natural sound of the MKH 800 TWIN is faithfully retained along the entire signal chain. Due to this immediate digitisation, the signal is not prone to cable losses, nor to signal disruptions caused by interference or cable capacitance. Using an AES42 interface (Mode 2, e.g. one of the DMI units from Neumann), microphone settings, such as the low-cut filter and pre-attenuation, can easily be remote-controlled. The MZD 8000 AES42 digital module is unique in that both capsules are kept totally separate through the module as a digital stereo signal, so only a single MZD 8000 is needed to digitise both capsules of the MKH 800 TWIN.



Kai Lange explains: “With the MKH 800 TWIN, you are now free to choose whether to make a fully digital recording with the MZD 8000 AES42 digital module and new MZLX 8003 adaptor cable, or to connect the microphone on its own via an analogue signal chain. Sound engineers and studios can thus make a decision based on their particular technical environment – and they can feel confident that they are fully prepared, whatever the future may hold.”

*If you have any technical queries about the MZLX 8003 TWIN adaptor cable please contact Sales Support, Sennheiser Vertrieb und Service GmbH & Co. KG, at [ssp@sennheiser.de](mailto:ssp@sennheiser.de). As the digital module, like all signal-carrying components in the MKH 8000 series, is designed with two channels, a Y cable (MZLL 8003), which connects the module to two MKH 8000 series microphone heads for stereo recordings, is also available.*

**Visit Sennheiser at IBC in Hall 8, Stand No. D50.**

The Sennheiser Group, with its headquarters in Wedemark near Hanover, Germany, is one of the world's leading manufacturers of microphones, headphones and wireless transmission systems. The family-owned company, which was established in 1945, recorded sales of around €390 million in 2009. Sennheiser employs more than 2,100 people worldwide, and has manufacturing plants in Germany, Ireland and the USA. The company is represented worldwide by subsidiaries in France, Great Britain, Belgium, the Netherlands, Germany, Denmark (Nordic), Russia, Hong Kong, India, Singapore, Japan, China, Canada, Mexico and the USA, as well as by long-term trading partners in many other countries. Also part of the Sennheiser Group are Georg Neumann GmbH, Berlin (studio microphones and monitor loudspeakers), and the joint venture Sennheiser Communications A/S (headsets for PCs, offices and call centres).

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**Captions:**

*MKH 800 TWIN.jpg*: A top-class analogue and digital microphone: the MKH 800 TWIN dual-capsule microphone's pick-up pattern can be freely adjusted at the mixing console

*MZLX 8003.jpg*: A special adaptor cable connects the MKH 800 TWIN with the MZD 8000 AES 42 digital module. It can also be used to connect the MKH 800 TWIN to the slim remote cables of the MKH 8000 series in situations where a normal microphone cable would be too obtrusive

*MZD 8000.jpg*: The 2-channel MZD 8000 digital module converts the audio signal in accordance with the AES42 standard