AMPLIFIERS

EM ACOUSTICS DQ20D 4CH DANTE AMPLIFIER



The DQ Series of advanced system amplifiers offer a unique combination of high power and audio performance, seamlessly combined with advanced DSP and network control. The DQ Series offers different models, physically identical four-in-four-out amplifiers but with varying total output power configurations of 10,000 watts (DQ10) and 20,000 watts (DQ20) to suit specific loudspeaker models and audio applications. The DQ Series models offer extremely high power density in a convenient and flexible format for both mobile applications and installations alike.

DQ Series advanced system amplifiers represent the ideal solution for powering EM Acoustics loudspeakers. Each amplifier comes loaded with preset files for all EM Acoustics loudspeaker products, as well as a dedicated “linear” preset with no processor settings applied – but also blank memory slots for users to create their own setting files. Aside from the non-adjustable factory settings for each EM Acoustics product, users have access to a variety of processing functions including gain, delay and EQ (parametric and shelf) for system or venue optimisation. Power delivery is an area where the DQ Series amplifiers are unmatched. A state-of-the-art switchmode power supply with power factor correction ensures that a DQ Series amplifier can deliver all that is required, even under demanding load conditions and across a wide range of mains supply voltages. DQ10 amplifiers feature an automatic load sensing function which allows them to deliver maximum power into higher impedances. This makes them very cost effective and flexible in a variety of applications. The use of state-of-the-art components and a finely optimised design results in generous power reserves, thus ensuring that pristine sound quality is maintained even under the most extreme conditions, anywhere in the world.

DQ Series amplifiers have both analog inputs (4) and AES3 digital inputs (2) as standard, and is supplied with the Dante networked audio input card.

The front panel provides an intuitive set of controls and indicators to enable simple and straightforward operation of all functions without the need for the remote software. A set of five LED indicators show signal level from -12dB to clip for each of the four DSP inputs. Six illuminated push buttons and two velocity-sensitive rotary encoders provide the user interface for all input and output functions,

as well as utility features, in conjunction with the clear back-lit graphical display. A further set of LED indicators show output level and limiter status, and individual backlit channel mute buttons are also provided. A final set of four LED indicators give further status information for the amplifier including AES3 or Dante network audio input, device control network status, and also the presence of a system EQ overlay if activated. DQ Series amplifiers are built around a 2U all-metal chassis to ensure a lifetime of reliable performance. Low-noise variable speed fans are fitted, along with a reticulated foam dust filter which can easily be removed for cleaning. The rear panel houses the Neutrik XLR analog input and link connectors, AES3 input and link connectors, RJ45 communications port, and output connectors on Neutrik NL4. Mains power is connected via a 32A Neutrik powercon locking type connector. The Dante primary and secondary RJ45 ports are also located on the rear panel of the amplifier, along with a Phoenix connector for contact-closure input and relay output connections.

Power Output

Total Output – 20,000Watts
1500W/ch @ 8ohms
3000W/ch @ 4ohms
5000W/ch @ 2ohms
10000W @ 4ohms (Bridged)



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