

HK AUDIO - DSM 2060 CONTROLLER



The HK AUDIO® DSM 2060 Digital Speaker Management System is a digital controller rich in practical features for both touring and fixed installations.

With its innovative HFT™ Hardman Filter Technology, it exceeds standard requirements and offers high-end audio.

The DSM 2060 incorporates high-end 24-bit, 96-kHz converters that ensure extremely accurate and natural digital signal processing and a frequency response up to 40 kHz.

The two inputs and six outputs can be configured separately for front-of-house and monitor use in touring applications, and likewise allow for a great deal of flexibility in fixed installation projects.

To best meet the needs of any given venue, you can apply as many as six parametric EQ's plus two shelving filters to each input and output channel.

To facilitate setup of delay zones and time alignment of loudspeaker components in multi-amped systems, the DMS 2060 offers input delays up to 400 ms and output delays up to 80 ms.

For greater speaker and driver protection different limiters can be applied to each output in steps as fine as 0.2 dB.

Attack and release times of these limiters are optimally preconfigured.

At the heart of the controller is a comprehensive set of crossover types, including Butterworth, Bessel, and Linkwitz- Riley, with selectable slopes from 6 to 24 dB.

Unique to the DSM 2060 are the fourth-order and eighth-order HFT™ filters that create crossover slopes of 36 dB and 52 dB. The HFT™ crossover achieves absolutely minimal phase shift and group delay, even at maximum slopes, thereby maintaining an extraordinarily natural-sounding signal.

As a result, HFT™ produces exceptionally smooth response in the crossover region and faster roll-off rates, which in turn minimise distortion, permit lower crossover frequencies and safely expand the effective frequency range of the drivers.