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ClarityEQ Renamed DEQX

Australian developer of leading-edge loudspeaker and room correction technology is named after its unique process.

DEQX - Digital EQ with the added 'X' factor.

May 27, 2003, Sydney, Australia - In a move to make its company identity synonymous with its leading-edge loudspeaker and room correction process, ClarityEQ Pty Limited has been renamed DEQX Pty Limited. DEQX (pronounced 'dex') is short for Digital EQualization and Crossover (X) - the name given to the company's revolutionary digital loudspeaker and room correction technology announced at CES 2003 in Las Vegas this January.

DEQX is a new generation of Digital Correction technology, especially developed to dramatically increase the 'three-dimensional being there' experience from stereo and surround recordings. The DEQX Calibrated™ process involves measuring and analyzing errors in loudspeaker drivers, loudspeaker systems and the listening environment to correct both time and frequency domain problems. DEQX technology has spent five years in research and development, culminating in the company's long awaited initial product release, the PDC-2.6 Digital Reference Processor - slated for delivery during the third quarter of 2003.

"As a name, DEQX better reflects the full breadth of this technology," says Kim Ryrrie, company CEO; "DEQX is not just another graphic or parametric audio equalizer, which often do more harm than good. First of all, the loudspeaker is corrected 'natively', or anechoically, so that frequency response, phase and timing errors can be corrected in fine detail, especially at mid to high frequencies - something which is not possible with traditional systems, or even with digital room correction alone. The unit also provides very high-order crossover filtering that allows every driver to be individually corrected. This has flow-on advantages such as improving mid to high frequency dispersion, reduced crossover distortion, greater power handling by protecting drivers from frequencies outside their comfort zone. Finally, user defined parametric EQ and optional room correction compensates for unruly room acoustics. We like to think of DEQX as Digital EQ with the added 'X' factor."

The DEQX Calibrated™ PDC-2.6 Digital Reference Processor provides DEQX's proprietary DSP correction for every driver in a stereo 2-way or 3-way speaker system. The end result is matched phase response/time alignment and flat frequency response - typically within 1dB. An integral function of the DEQX PDC-2.6 processor is a stereo, 3-way linear phase digital crossover that provides very high order slopes.

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The DEQX correction process creates a wider and deeper three-dimensional soundstage, where imaging is improved well outside the sweet spot. This is because with two-way speakers much of the high frequency energy from the woofer ‘beams’ on axis above the crossover frequency. When minimized with DEQX’s linear-phase high-order crossovers, enabling the complete speaker to behave more omni-directionally.

For the technically minded, the PDC-2.6 employs two 32-bit floating-point SHARC DSPs, providing 240-MFLOPS of processing power. Stereo inputs are both digital S/PDIF and AES/EBU. Balanced and unbalanced analog inputs are sampled with DEQX’s low jitter, 96kHz/24-bit A/Ds. Audiophile-grade Burr Brown op-amps are employed throughout, and analog outputs are from six low jitter Analog Devices new generation 192kHz/24-bit D/A converters. Balanced analog outputs or digital outputs are optionally available.

Measurement and set up are usually performed by an experienced dealer/installer, however approved users can purchase the DEQX Calibration Kit, which includes measurement software and a calibrated measurement microphone. The initial set up process is carried out on a PC (connected via USB or RS-232), which is disconnected once the system is operational. Furthermore, multiple PDC-2.6 processors may be linked together, catering for current and future surround formats.

DEQX offers products for professionals, speaker manufacturers, home audio users and installers. Based in Sydney, Australia, DEQX’s principals have a three-decade history in digital innovation for professional audio engineers.

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For further information please visit www.deqx.com or contact:

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