

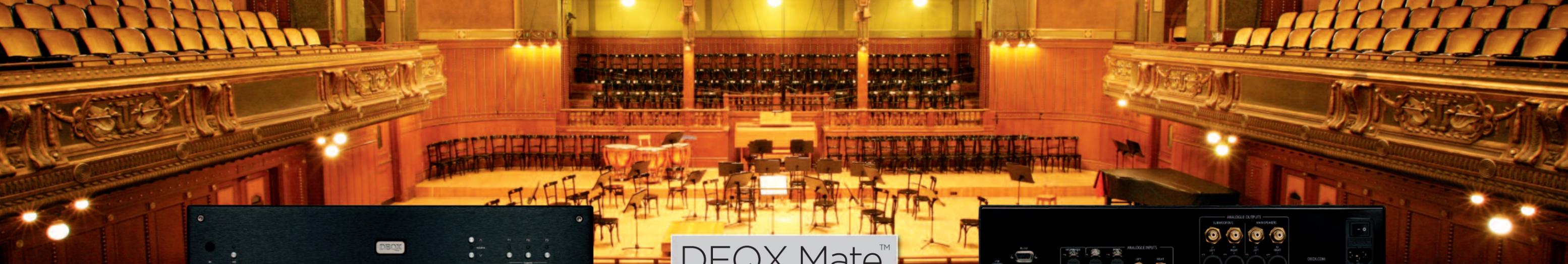


DEQX Mate™

PROCESSOR

Unlock the potential  
in your speakers

DEQX™



*Correct the speakers first, then the room  
for dynamic, precise and powerful sound*

*Rectifies speaker frequency-response and timing errors,  
adjusting thousands of frequency groups to arrive on time*

#### Master the art of timing

DEQX processors correct the distortion that all speakers make—electro-mechanical devices that they are—and offer room compensation as an added extra. While righting frequency-response errors as other units do, they also uniquely fix critical timing errors by adjusting thousands of frequency groups so that they arrive on time.

Other 'room correction devices' simply adjust amplitude response (uneven output at different frequencies) to offset room modes. But they can't address the fine details of phase coherence; the group-delay timing issues that manifest in all real-world speakers.

The results are startling; two-channel and surround systems open up in a dramatic way when timing, phase and amplitude accuracy are restored to the speakers, with judicious room compensation added.

#### DEQX Mate™

The DEQX Mate is an analog-in and out, two-channel processor sitting between your stereo preamp, or home theater processor/receiver (front left/right speakers), and power amplifier. It incorporates many features from our flagship HDP-4 Preamp Processor, the same audiophile-grade parts and new technology but in a set-and-forget package.

It also features a selection of Balanced (XLR) and Single ended (RCA) analog inputs and outputs and a new Zero Earth Leak High Isolation power supply.

The DEQX Mate is your friend; after correcting any existing

speakers and room, it does the impossible by seamlessly integrating one or a pair of subwoofers into your system. So, after the initial setup, you won't have to engage with anything except the music. And you can change the profile and bypass the correction filters from the front panel or remote control to hear the striking difference.

#### Correct your speakers first, then the room

In correcting the speakers—before the room—our comprehensive DEQX-Cal™ software generates correction filters for phase, timing coherence and frequency-response. Only then does DEQX-Cal measure from the listening area for room correction.

#### DEQX technology is unique.

It corrects speaker frequency-response and timing errors by adjusting thousands of frequency groups, depending on your speakers' measurements, so that they arrive at the correct time.

Traditional analog and digital EQ corrupts the timing coherence around the frequencies that they're trying to equalize for volume. DEQX Processors slow down on-time and early-arriving frequencies so that slower frequencies can catch up.

That just can't be done in the analog domain!

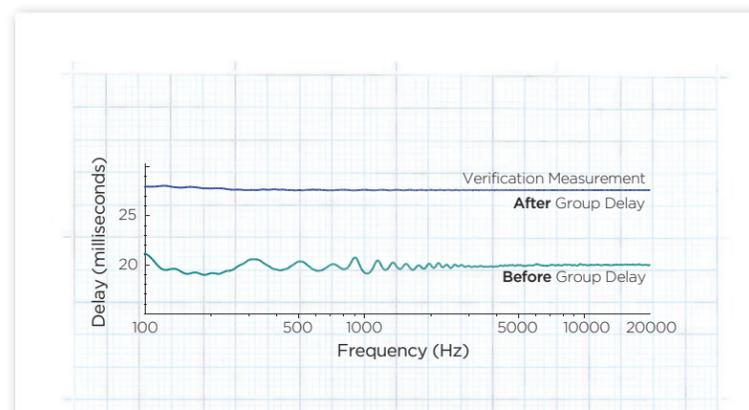
DEQX uses real computing horsepower to make that happen with a 240-megaflop, 32bit floating-point Digital Signal Processing Engine that essentially achieves zero distortion.

#### We're DEQXperts

A DEQXpert agent can run the comprehensive DEQX Cal™ software for you on a secure, remote connection for a surprisingly affordable price. You'll need a simple USB link to your PC (Windows compatible computer) using a measurement microphone and a broadband connection. Or, if you prefer to calibrate it yourself, we can lend a hand via email or phone with tips and directions on getting the best from your setup.

For more information and our dealer list, visit: [deqx.com](http://deqx.com)  
Get DEQXified today!

*Unique technology that makes  
it easy to immerse yourself  
in music and video*



#### The Forensic Tone Control

The remote control features Standby, Profile Select, Volume, Mute and Input Select, and what must be the world's most powerful tone controls.

Its three bands include bass, mid and high with up/down buttons for +/- 1dB adjustments.

Bass shelf defaults to below 100Hz and high shelf above 3kHz, but frequency is user definable.

The Mid band is fully parametric and adjustable from the remote. Its center frequency can be set in octaves from lowest bass to highest highs then fine-tuned in semitones.

Bandwidth is from one semitone (1/2th octave) to four octaves wide. And you can save settings to 99 presets.



### DEQX-Mate™ Specifications

Stereo inputs

Analogue: RCA unbalanced, XLR balanced

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Stereo outputs

Analogue: Subwoofer/s, Main speakers: RCA unbalanced and XLR balanced

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Measurement mic input: XLR balanced with 48V phantom power

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Mains input voltage: Auto select 100V-240VAC, 50-60Hz Zero earth leakage

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Power consumption: 30VA

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Dimensions: height: 2U / 97mm • depth: 325mm • width: 430mm

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DSPs: Dual Analogue Devices SHARC 32-bit floating point

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Analogue input maximum levels

Balanced: +17 dBu differential

Input impedance (balanced and unbalanced): 50 kohms

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Analogue output (jumper set) maximum levels

Maximum level: +21 dBu differential

Maximum level: +15 dBu differential

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Total harmonic distortion: <0.0005% (analogue-analogue)

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PC connections: USB or RS232

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Latency: from 2.5ms, typically 15ms with speaker correction filters (video sync OK)

*Due to our policy of continuous product improvement the above specifications may change without notice.*

Your DEQX dealer:



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