DynPEQ™ at a Glance

An equalizer
At the core of DynPEQ is a classic multi-band parametric equalizer, a cascade of digital filters. The filters in DynPEQ are designed to be practically noiseless for any extreme tuning and input you can throw at it. The filter performance is comparable to that of the best rack-mount units. Give it a try and see for yourself.

A dynamics controller
Any stage of DynPEQ can have its parametric filter disabled, which turns it into a classic dynamics processor. A key difference is calculating the total RMS energy of the input, which makes a much flatter measurement, as is easily seen in the real-time level feedback for each stage. Test it by feeding it very low frequency input.

A dynamic equalizer
Two changes to the dynamic processor make up DynPEQ. First, a parametric filter replaces the dynamic gain (Arrow 1). Second, the complement of the parametric filter processes the sidechain, which limits the energy measurement to the operational band (Arrow 2). The dynamics curve then offsets the boost or cut of the parametric. The result: a step beyond EQ.

Additional features
• Real time level measurement
• Dynamic gain
• Band levels
• Band bypass and solo, all bands
• Band attenuation meters
• Band peak level compiler
• Limiter hit indicator
• Limiter bypass
• Adapts to channel

Triplet DynPEQ™
• Three DynPEQ bands
• Pro Tools mono insert
• HDX DSP support up to 192 kHz
• Sample rate
• Acoustic correction and enhancement

Quartet DynPEQ™
• Four DynPEQ bands
• Pro Tools multi-channel stem support
• HDX DSP support up to 96 kHz, depending on channel count
• Analog peak limiter
• Peak level and limiter attenuation meters
• Running and resettable maximum peak level compiler
• Limiter hit indicator
• Limiter bypass
• Patch store extension of A/B registers placed in session file
• Patch store registers selectable by Pro Tools automated parameter
• Analog noise reduction

Analog peak limiter
It would be a shame to perform the detailed processing that Quartet DynPEQ offers only to have digital overs affect the result. To address this, a peak limiter follows the dynamic equalizer. This limiter goes a step further by measuring the analog peaks that will exit the DACs of playback systems. By compensating for the analog peaks, unexpected distortion is virtually eliminated.

Online Resources for DynPEQ Plugins

Company landing page: http://www.wholegrain-ds.com
DynPEQ tools for tuning audition: http://www.whoelgrain-ds.com/operation/audition/
DynPEQ tools for work organization and libraries: http://www.whoelgrain-ds.com/operation/administration/
DynPEQ band UI feedback: http://www.whoelgrain-ds.com/performance/visual-feedback/
DynPEQ manual and video access: http://www.whoelgrain-ds.com/support/
DynPEQ support: http://www.whoelgrain-ds.com/support/

Literature References for DynPEQ Plugins


A description of compression curve paradigms implemented in DynPEQ: Martin, Geoff; Introduction to Sound Recording; 2007; http://www.tonmeister.ca/main/textbook/; section 6.2

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