Wholegrain Digital Systems LLC

DynPEQ™
Dynamic parametric equalization for digital audio

2016 NAMM Show Media Kit

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Wholegrain Digital Systems LLC announces the release of the DynPEQ plugins version 1.3. The DynPEQ plugins are digital audio signal processors performing dynamic parametric equalization.

According to the company, the principal feature in the new version of DynPEQ is support for the Pro Tools digital audio workstation application from Avid. The DynPEQ plugins have been approved for sale on the Avid Marketplace. They are compatible with AAX workstations and HDX hardware platforms, both 32-bit and 64-bit versions. DynPEQ version 1.3 has also added compatibility with 64-bit Audio Unit workstations with support for sandboxing and the Mac OS gatekeeper.

The DynPEQ plugins currently have two variants. Trio DynPEQ is a three-band dynamic parametric equalizer configured as a single-channel insert for input processing. Quartet DynPEQ is a four-band dynamic parametric equalizer with support for multi-channel stems and an interpolating peak limiter for mastering applications.

A DynPEQ band takes the traditional design of a dynamics processor and applies its gain control to additional boost/cut of a digital parametric filter. While a DynPEQ band can operate as either a standalone parametric filter or a standalone dynamics processor, feeding the dynamics control to the boost/cut opens a vast space of spectral control intuitive to the audio engineer.

To help the operator navigate this control space, both Trio DynPEQ and Quartet DynPEQ include administrative and audition tools. There are multiple switches for excluding and isolating individual bands, and multiple switches for bypassing all bands and other configuration comparisons. The plugins offer an expandable library of DynPEQ settings for either individual bands or all bands together. This library, called the band toolchest, provides the operator starting points for finer tuning and common applications of a dynamic equalizer.

The DynPEQ plugins are fully compatible with Pro Tools AAX/HDX from version 10 forwards on Mac OS X version 10.6 forwards. The plugins are also compatible with Audio Unit workstations on Mac OS X version 10.7 forwards.

Trio DynPEQ and Quartet DynPEQ can be purchased at the Avid Marketplace, accessible from the Pro Tools application from version 11 onwards. The plugins will also be available for purchase or rental from other outlets to be announced in the future.

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LEGAL NOTICES

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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
- DC-block filtering of input and sidechain
- Band bypass and solo, all bands and effect bypass
- A/B registers
- Controls for compression curve paradigms
- Step controller for all dynamics thresholds
- Persistent store of band settings and your own creations

Trio DynPEQ™
- Three DynPEQ bands
- Pro Tools mono insert
- HDX DSP support up to 192 kHz sample rate
- Acoustic correction and enhancement
An 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.

DynPEQ: everything you expect from an equalizer and dynamics unit separately, and more

**Host Specifications:** 32-or-64-bit Intel Mac; Pro Tools AAX / HDX version 10 and above, on Mac OS X 10.6 and above; Audio Unit workstation on Mac OS X 10.7 and above.

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Wholegrain Presence at NAMM 2016: Booth Location and Special Appearances

The location of Wholegrain Digital Systems LLC’s booth at the NAMM show is **201C-6**, which is located on Level 2 in the SOFTWARE.NAMM pavilion sponsored by IMSTA. This is Wholegrain's first year as an exhibitor on the show floor. Wholegrain intends to man the booth throughout the duration of the NAMM Show 2016. Show hours for Level 2 exhibits are 9:30 AM to 6:00 PM on Thursday 21 January through Saturday 23 January, and 9:30 AM to 5:00 PM on Sunday 24 January. The principal host at the Wholegrain booth will be Duane Wise, company founder and president.

The Wholegrain exhibit will feature the just-released version 1.3 of the DynPEQ plugins, now available for both Pro Tools and Audio Unit workstations. Duane Wise will be demonstrating features, operations, and applications of Quartet DynPEQ, the 4-band version of DynPEQ for mastering applications, and Trio DynPEQ, the 3-band version of DynPEQ for input processing. Visitors to the exhibit are encouraged to request a free 90-day trial of the DynPEQ plugins.

Wholegrain will host three special presenters from the professional audio community to talk about how they use the DynPEQ plugins in their work. The presenters, presentation times and locations, and presenter biographies follow.

**Nathaniel Kunkel, Producer/Engineer, Studio Without Walls**  
**Friday 22 January, 4:30 PM, SOFTWARE.NAMM pavilion presentation area 201CD**

Nathaniel Kunkel is a music producer/mixer based in Los Angeles, California. His services through Studio Without Walls also include location recording, studio design, and product consultation. His production and engineering work has garnered multiple awards.

**Wes Maebe, Freelance Audio Engineer**  
**Saturday 23 January, 2:00 PM, Wholegrain booth 201C-6**

Wes Maebe (aka The Wesonator) has been a London-based freelance recording, mixing, mastering, and live engineer since 2003 for a vast and varied clientele. Clients have described the quality of his work as the bridge between old school edgy British engineering and lush American production values. His work has earned him nominations for multiple awards.

Wes is on the Grammy P&E Wing Advisory Board and a member of the APRS board. He is a regular reviewer for Mix Magazine US, Pro Sound News and Audio Media International magazine. He has done presentations for the AES and also been a visiting lecturer at City of Westminster College, London.

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Tom Marks, Re-Recording Engineer, Warner Brothers Studios
Sunday 24 January, 2:00 PM, Wholegrain booth 201C-6

Tom Marks has mixed feature films, foreign films, theatrical trailers, television programs, video games, virtual reality media, webisodes, and film scores. He has worked in many of the current and emerging formats including 5.1, 7.1, Stereo, Dolby Atmos, Auro-3D, and IMAX. Prior to moving to Los Angeles in 2003, Tom worked in television and music while living in Illinois & Florida.

Among his many credits are: Mob City (TNT), Killer Women (ABC), Gang Related (Fox), Proof (TNT), Deliverance Creek (Lifetime), and The LXD (Paramount).
Online Resources for DynPEQ Plugins

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

Literature References for DynPEQ Plugins


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