
FILE
BYPASS
PSYCHO EQ
VOLUME
DYNAMIC FATBASS
LOUDNESS MIX
LOUDNESS BASSBOOST
SILKY SURROUND
LAZER PUNCH
SMART FILTER
CLARITY ENHANCE
Tone2
AkustiX
HIGH WIDENER
HIGH DELAY
MID WIDENER
MID DELAY
MID FREQUENCY
LOW WIDENER
LOW DELAY
SPECT.
TONE2 ACOUSTIC ENHANCER

USER MANUAL

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- Installation & Activation

To start the installation, run the installer program and follow the on-screen instructions, once the installation has finished AkustiX will be displayed in your host program's list of available effects.

When you run AkustiX for the first time you will be asked for your keyfile, browse-to and select the akustix.t2k file you received with your order and restart your host program to activate your copy of AkustiX.



Click in the activation screen to browse-to and select your keyfile; akustix.t2k, after restarting your host program the plugin will be activated

- Introduction

AkustiX is a collection of six essential mix and mastering enhancement tools combined into an intuitive and easy to use interface.
Each effect is based on the latest developments in psycho-acoustic research and offers various ways to customize your recordings, using psycho-acoustic processing to shape and enhance the sound.
The user interface is divided into different sections featuring six powerful mixing effects and a spectrum analyzer / phase meter to visualize imaging and signal phase.



1) Psycho EQ
   Dynamically boosts and equalizes frequencies based on the nonlinearity of the human ear

2) Ultra Stereo
   Adds transparency and auditory spaciousness within a mix

3) Phase Enhance
   Masks nonlinearities and simulates a more natural dispersion & propagation of the sound

4) Multi Exciter
   Adds vibrancy and depth by adding additional harmonics

5) Smart Filter
   Adds more detail and enhances transparency

6) Stereo Width
   Provides independent frequency control over the stereo width and spatial image

- Psycho EQ



The Psycho EQ section dynamically boosts and equalizes the frequencies based on the nonlinearity of the human ear, it raises the perceived volume without drastically changing the overall volume and makes the mix sound more solid. The led meter displays the level of dynamic bass processing.

CONTROLS.

Dynamic Fatbass: boosts the lower frequencies and raises the perceived volume

Loudness Mix: equalizes the frequencies based on the nonlinearity of the human ear, use this control in combination with Loudness Bassboost.

Loudness Bassboost: controls the bass level of the loudness contour, use this control in combination with Loudness Mix.

Tone: use the linear phase tone control to compensate for recording deficiencies, hearing impairments, room acoustics or shortcomings within playback equipment.

- Ultra Stereo



The Ultra Stereo section enhances perceived spaciousness and auditory distance within a mix, it adds transparency in a way that the stereo field's sound quality is less dependent on the listeners position. It can also be used to up mix from mono to stereo.

CONTROLS.

Virtual Surround: creates more auditory spaciousness and transparency.

Silky Surround: adds a silk like quality and auditory spaciousness to the sound.

- Phase Enhance



The Phase Enhance section masks non linearities and simulates a more natural dispersion and propagation of the sound.

CONTROLS.

Lazer Punch: gives a punch like analog quality to the sound, it masks nonlinearities in speakers & amplifiers and simulates the natural dispersion of sound.

Diffuse Cream: gives a soft, silky type analog sound, it masks nonlinearities in speakers & amplifiers and simulates a natural propagation of the sound. Can also be used to enhance vocals.

- Multi Exciter



Designed to enhance presence and brightness the multiband exciter adds vibrancy and depth to your mix by adding additional harmonics. It's also suitable for reconstructing missing frequencies from old analog and low bit-rate recordings.

CONTROLS.

Mix: controls the amount of processed signal mix in.

Freq: sets the frequency the exciter operates on.

! When working with the Multi Exciter be careful not to use too high settings as it's easy to overdo the effect and end up with a mix that is too bright

- Smart Filter



The Smart Filter enhances transparency and adds more detail by using frequency-domain masking, making the sound more open.

CONTROLS.

Clarity Enhance : Enhances transparency and more expression and dynamics.

Noise Reduction: Removes noise from recordings and mixes.

- Stereo Width



Stereo width allows you to adjust the stereo width and imaging by introducing a very short delay between the left and right channel. Up to 3 frequency bands are available, each band using a separate Gain, Widener and Delay to provide independent frequency control over the stereo width and spatial image.
The mono button on top of the stereo width section allows you to check the current signal for mono compatibility.

! AkustiX' phase meter can be used to provide a visual feedback of the stereo image by displaying the signal's current image and phase. You can read more about the Phase Meter in the Phase Meter section on page 9 of this manual.

CONTROLS.

Mono button: checks the signal for mono compatibility

High Gain: controls the high frequency gain of the 3 band parametric EQ, the Mid Frequency knob is used to control the cutoff.

High Widener: adjusts the high frequency's stereo width.

High Delay: adjusts the high band's stereo width, it is recommended to use values between 0 and 50% to keep the signal compatible with mono sub-woofers.

Mid Gain: controls the mid frequency gain of the 3 band parametric EQ, the Mid Frequency knob is used to control the cutoff.

Mid Widener: adjusts the mid frequency's stereo width.

Mid Delay: adjusts the mid band's stereo width, use values above 50% to widen the stereo field without affecting the mono signal.

Mid Frequency: controls the frequency of the 3 band parametric EQ and stereo widener.

Low Gain: controls the low frequency gain of the 3 band parametric EQ, the Mid Frequency knob is used to control the cutoff.

Low Widener: adjusts the low frequency's stereo width.

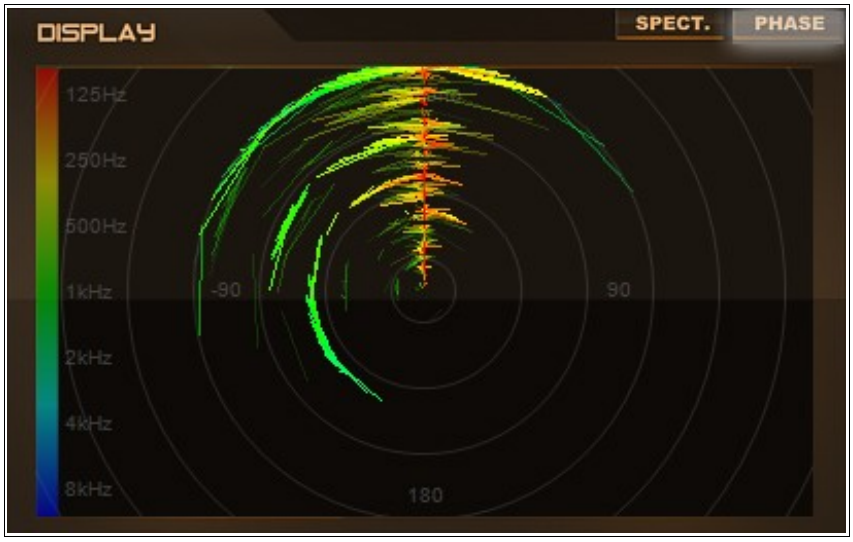
Low Delay: adjusts the high band's stereo width, use values above 50% to widen the stereo field without affecting the mono signal.

- Spectrum Analyzer



The Spectrum Analyzer provides a real time overview of the signal's spectral content.
By graphically displaying which frequency components are present in a signal and how strong these frequencies are it helps analyzing EQ and other settings within AkustiX.

- Phase Meter



The Phase meter is used to check the phase and phase correlation of your tracks and mixes, it provides a real time view of the stereo image by displaying information about the stereo source positioning and relative phase of the two channels.

The color bar on the left side of the Phase Meter displays the frequency range and the colors used to display these frequencies.

- Support and Contact information

Tone2 website	-	http://www.tone2.com
Support forum	-	http://www.tone2.org/forum/index.php
Email support	-	tone2@tone2.com

- Credits

Development:	Markus Feil, Bastiaan van Noord
Programming & Graphics:	Markus Feil
Sound design:	Markus Feil, Bastiaan van Noord
Manual:	Bastiaan van Noord, Markus Feil

Thanks go out to Anna Krause, all our friends, family and of course to all Tone customers for their continued support throughout these years, without all of you this would not have been possible, thanks! ;-)

- Tone2 Audiosoftware Catalog

Be sure to take a look at some of our other effect & synthesizer plugins, the following pages will provide a short overview of part of our product line.

For more information on our products, MP3s and product demos please visit our website at http://www.tone2.com

ElectraX Synthesizer



ElectraX! Explore the vast musical universe of multi-synthesis oscillators, analog modeled filters, chaotic fractals, samples, psychoacoustic processing, flexible modulation and an immense sonic range.
Combine multiple polyphonic or monophonic synthesizers and 13 different synthesis methods to create incredible results while the well-designed preset management system provides access to a large library of sounds carefully crafted by professional designers.

Features - summary

- Four synthesizers in one interface
- High-end sound quality
- Huge sonic range
- High flexibility
- 13 different synthesis methods which can be combined
- Psychoacoustic processing
- Low CPU, multicore processor support
- Easy to use
- 4x multitimbral, 4x stereo unison
- Over 1000 sounds in 575 presets by professional sound designers
- 32 exclusive analog modeled filter types
- 45 oscillator types
- 18 effect types; Master effect section with Equalizer
- More than 1000 waveforms
- 64x4 voices
- Midi learn
- Customizable user interface with 4 skins
- Expandability
- Standalone version for PC
- Flexible preset management

Features per synthesizer (4 synthesizers available)

- Several playmodes: Monophonic, legato, polyphonic, glide
- 3 multi-synthesis oscillators
- Dual multimode filters
- Dual multimode distortion/waveshaper
- 3 LFOs (global or per voice) and a Step LFO, BPM syncable
- Four Envelope generators
- Arpeggiator
- Insert effect, BPM syncable
- Flexible modulation
- Key splitting

Synthesis methods & OSC features

- Virtual analog
- FM
- Sample playback and import of own samples with loop/sustain loop support
- Wavetables with resynthesis function and the ability to load own waveforms
- Ultrasaw (up to 18 detuned oscillators per voice)
- Fractal (a completely new synthesis method)
- Phase distortion
- Waveshaping
- Exclusive oscillator types
- PWM
- Sync
- Noise
- Ringmod
- Vocoder
- Analog oscillator drift modeling
- Fat tuning

18 warm sounding effect types

- Reverbs: Hall, Cathedral, Room
- Delays: Delay, Delay band, Ping Pong, Multitap
- Chorus, Ensemble, Phaser, Flanger, Rotary
- Trancegate, Compressor, Ampsim, Equalizer, Surround Encode
- Vocoder

23 exclusive filter types

- 11 analog modeled filters with self oscillation: Lowpass/Highpass/Bandpass
- 12dB/18dB/24dB, Moog, Filter-FM
- High precision digital filters: Lowpass, Highpass, Bandpass, Notch
- Equalizers: LowShelf, HighShelf, Peak, Wide
- Special types: Phaser, Comb+, Comb-, Vocals, Aliaser, Ringmod
- Exclusive fractal filters

For more information: http://www.tone2.com/html/electrax_synthesizer__vst_au.html

Gladiator2 Synthesizer



The award winning Gladiator gives you a groundbreaking approach to sound generation. Its exclusive HCM synthesis technique covers new and unique aural territory, only possible with Gladiator. The innovative synthesis, design and unmatched sound quality, make this not only the perfect instrument, but also the best virtual synthesizer and go-to instrument for all those looking for the ultimate creative tool.

Synthesis types supported by Gladiator 2 are:

- Tone2's award winning Harmonic Content Morphing synthesis (HCM)
- Frequency Modulation (FM) & Amplitude Modulation (AM)
- Pulse Width Modulation (PWM)
- Analog osciallators
- Resynthesized instruments
- Vocoder sounds
- Oscillator sync
- Phase Distortion
- Phase Modulation
- Waveshaping
- Super-saw
- Additive synthesis
- Sample playback

Filters

The analog modeled filter section uses high-end quality stereo filters, most of which are exclusive to Tone2 products.
Gladiator 2 ships with 40 different filter types: Moog, Low Pass, High Pass, Band Pass, Vocals, Comb, EQ, FM, AM,
Phaser, Resample, Analog, ...

Sounds

Gladiator 2 ships with an inspiring library of 1105 outstanding presets from top sound designers. Besides that a variety of expansion banks is available to further expand Gladiator's features and preset library. All sounds are arranged into categories for easy access to the sound you require.

Effects

Gladiator 2 comes with an impressive reverb that offers a warm sound similar to high-end hardware units. 37 different stereo effects are included, all carefully crafted to offer the highest quality possible:
Reverbs, Delays, Flanger, Phaser, Chorus, Ensemble, Rotary, Bitcrusher, Talkbox, Ringmod, Tube Amp, Dolby
Prologic II compatible surround encoding, Waveshaper, Pingpong, Filters, ...

Modulation

Gladiator 2 has a powerful and flexible modulation section which is easy to setup. The analog modeled envelopes sound punchy. LFOs offer 22 different waveforms and can be synced to BPM. The Step LFO's design was inspired by the old analog step sequencers and can be used to create rhythmic sequences and trance gates.
With 'midi-learn' you can assign your hardware controller with a single mouse click.

Psychoacoustic processing

The exclusive IQM algorithm (Intelligent Microtuning) makes the synthesizer sound fatter and cleaner by automatically detuning notes for lush chords.
The innovative phase modulator module in the OSC section is based on the latest knowledge in phonetic science. It makes a digital spectrum sound warm, silky and analogue.
A special post-processing module in Gladiator mimics effects of the human ear. It creates deeper basses and more transparency.

- True high-end quality: Analog, warm, crystal clear, rich sound
- New synthesis method (HCM)
- New unique sounds which no other synthesizer can create
- Huge sonic range
- Boundless possibilities
- Psychoacoustic processing
- Different synthesis methods can be combined freely
- Flexibility, expandability
- Easy to use
- Low CPU and high reliability
- 1135 professional preset sounds included

For more information: http://www.tone2.com/html/gladiator_2_vsti_au_synthesize.html

Warmverb Multi Effect



Warmverb is a multi-effect unit which gives you the flexibility to create unique sounding custom effects with a mouse click. Not only can it do classic effects with pristine sound quality - it can do crazy stuff like a 'distorted-reverb-phaser-feedback-vocoder'!
Equipped with the high quality reverb technology which can be found in our Gladiator synthesizer, Warmverb improves upon it by including an ultra version of the reverb.

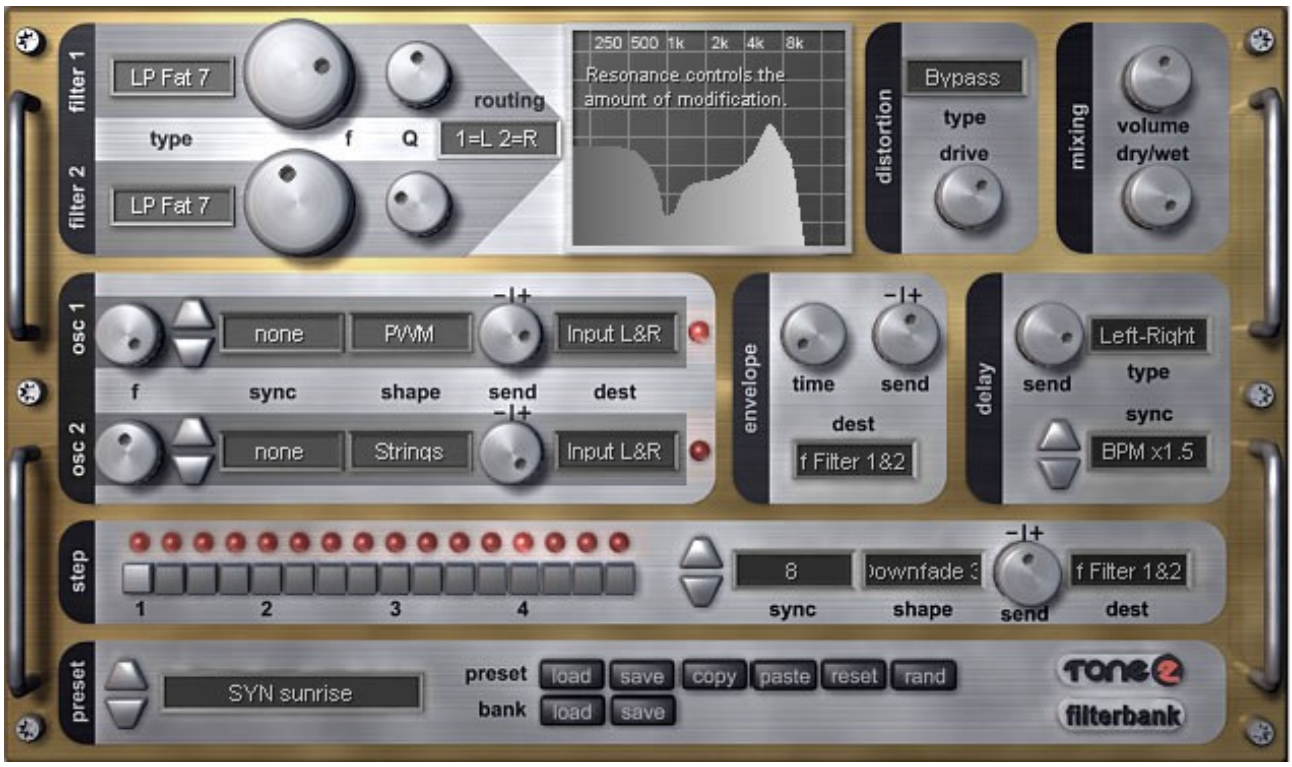
With an easy to use interface, an intelligent randomize function and over 150 presets, Warmverb gives you instant access to a large selection of essential effects and inspiring new sounds.

Effect modules

- 3 high-end quality Reverbs
- Vocoder and Vocoder L-R
- Delay, Ping pong delay, Filtered Ping pong
- Chorus, Ensemble
- Flanger, Stereo Flanger
- Superstrings
- Phaser, Stereo phaser
- LFO Low pass, Band pass and High pass
- Talkbox
- Tubeamp, Transistor, Presence, Hardclip
- Bitcrush, Waveshape
- Rotary
- Dolby Prologic II surround encoding
- Tremelo
- Autopanning
- Stereo enhancing
- Stereoizer
- Equalizer
- Ringmod
- Trancegate
- Early reflections (3 different types)
- Pitch shifter
- Feedback module

For more information: http://www.tone2.com/html/warmverb_vst_au_effect_synthes.html

Filterbank 3 Effect



Tone2 FilterBank3 is more than an analog modeled filter plugin - it is a complete VST synthesizer and a flexible multi-effect unit. The modular design and flexible modulation routing give you nearly unlimited possibilities. With self-oscillating filters, oscillators and feedback it can create complete sequences and textures. FilterBank sounds impressive and unique. The built-in step sequencer can create rhythmic sequences with some mouse clicks.

- 58 different high-end quality dual-stereo filters
- Outstanding sound quality
- Flexible, semi - modular architecture and routing
- Virtual-analog OSCs/LFOs
- FM, AM, feedback
- 20 Delay types, Reverb, 12 Distortion types
- 320 presets included
- Can be loaded as synthesizer as well as effect
- Vocal filtering, equalizing, phasing, flanging, compressing, envelope following
- 303-like step sequencer
- Midi learn
- Syncable to BPM
- Realtime frequency display
- Dolby Prologic II compatible
- Easy to use

For more information: http://www.tone2.com/html/filterbank3_vsti_vst_au_synthe.html