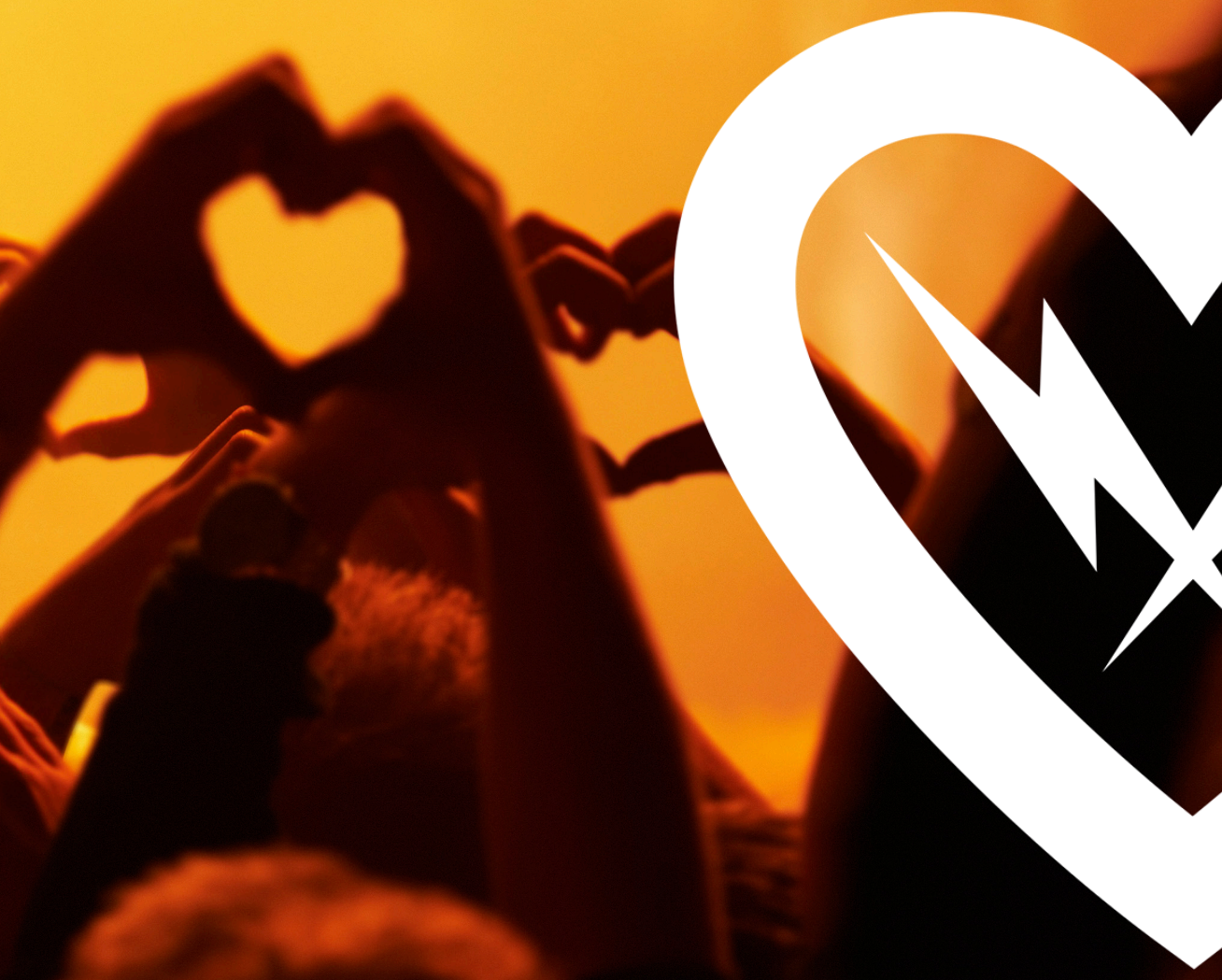


KILOHEARTS

Audio Plugins
Product Guide 2018





Modern music making requires modern tools

Did you notice people started making music on their computers?

Apparently most audio software companies didn't. They still model their interfaces on old hardware instead of looking at what musicians are actually doing. Don't get me wrong, tried and tested hardware effects and synths will get the job done, but do they really offer an efficient workflow on a computer screen?

Kilohearts are creating a new generation of audio plugins that focus on workflow and efficiency. We believe modern music making requires modern tools that are not constrained to replicating obsolete hardware.



Per Salbark
Creative Director

Life changed

Kilohearts plugins are literally
all you need in the studio

- LAXX



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Snapin Hosts

FREE
PLUGIN

§ snapheap



Snap Heap transcends the classic channel strip by allowing for much more flexibility in routing and mixing. Utilizing the various *Snapin*-effects and adding extensive modulation options, there is very little that **Snap Heap** can not do.

Best of all, **it's free!**

Some companies make “magic” effects that can sound really good but you never know what’s going on under the hood. Others make modular units so that you have full control of every detail but your artistic intent is easily lost in the complexity. And worse, it takes so long to do simple things that you lose your inspiration half way there.

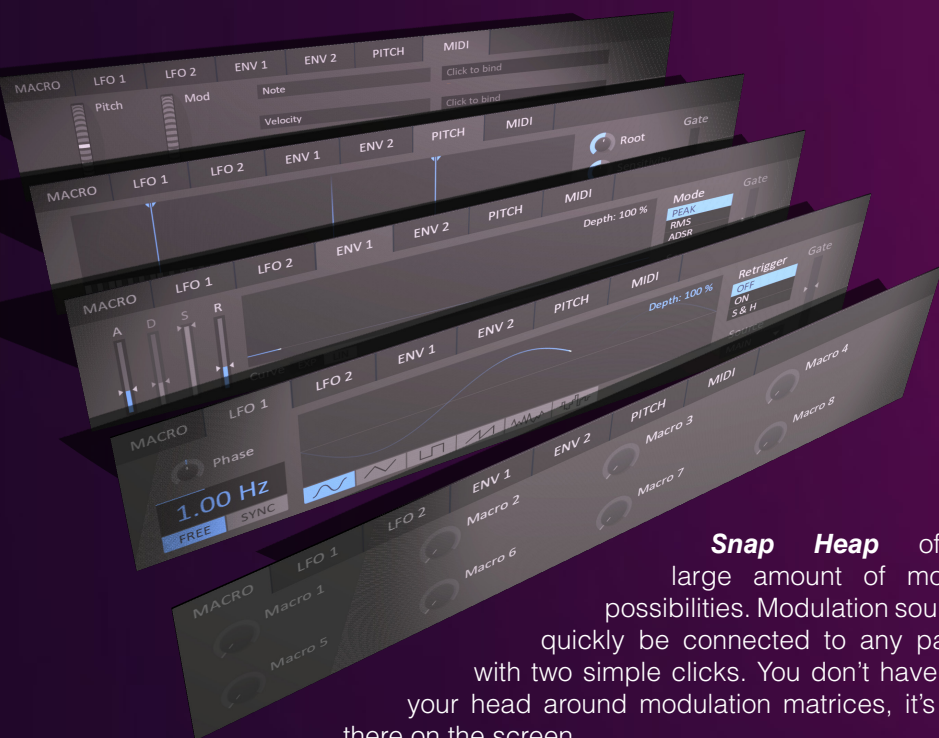
Kilohearts has struck a perfect balance between the two where you combine easy-to-understand effect units in interesting ways in seconds. These units are called **Snapins**, and they come in all shapes and forms. **Snap Heap** is the free workspace plugin that ties it all together. In **Snap Heap** you will be able to add, rearrange, remove, modulate and tweak your snapins quickly, and in an addictively easy way. You can find even more inspiration in the factory presets showcasing some of the interesting things you can do.

Snap Heap has received praise from countless musicians and producers and it has a way of changing the way you think about sound processing. As usual with Kilohearts' plugins, the UI is a no-nonsense affair where everything is clearly labeled and if there is ever any confusion there are helpful tooltips on everything. All in all **Snap Heap** offers all the utility you always dreamed that your DAW would when working with effects. ►

A self contained sound design workspace. Free.

Snap Heap is a great tool for both mixing and mastering, as well as more general sound design.

Set up your preferred chain of effects and save the preset. The next time you only need to load one instance of **Snap Heap** and you will have all your tools set up just the way you like them. We guarantee that it will take you a fraction of the time, and also a fraction of the CPU load.



Snap Heap offers a large amount of modulation possibilities. Modulation sources can quickly be connected to any parameter with two simple clicks. You don't have to wrap your head around modulation matrices, it's all right there on the screen.

Snap Heap has two customizable LFOs and two envelopes as well as full MIDI-control support and 8 macro controls that can be renamed and accessed, and modulated in themselves, from the DAW you are using.

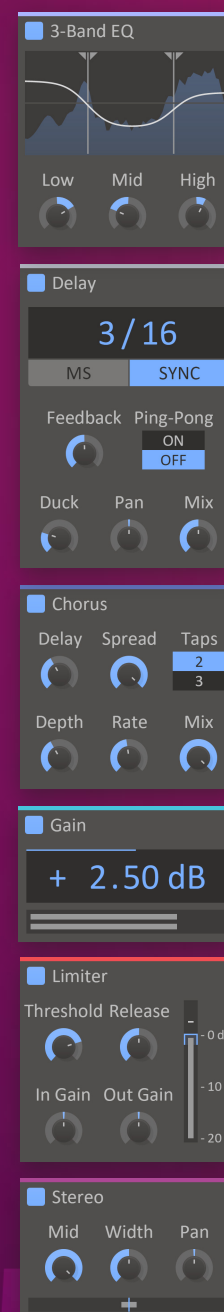
Hit the track running!

To get you going **Snap Heap** includes our 6 free snapins. These 6 effects are very potent tools for any sound designer, and don't let their straightforward appearance fool you, they offer top-tier sound processing and performance. You can read more about each of these effects in the later pages of this catalog.

Yeah, I've gone from "this is quite good for a free chorus" to "no, this is just a really good chorus, period!"

Once you get comfortable with the workflow of **Snap Heap** and feel like you want to expand on your experience Kilohearts offer a vast library of other snapins. Use **Snap Heap** to set up your own custom channel strips and reuse them on all your tracks with just a single click, or create complex modulated soundscapes to alter your input sound in ways you never thought possible. Since it's so easy to change the routing (by drag-dropping) and modulate values you will soon find that experimenting within **Snap Heap** is a very addictive activity.

The snapins you install will work on their own as stand alone plugins, but more importantly they will power up any other of Kilohearts' snapin host plugins, like **Multipass**. That's the beauty of the snapin system.



multipass

Building on the awesomeness of **Snap Heap** and the Snapins, **Multipass** brings everything to the next level, with even more mixing possibilities, and a band-splitter smack bang in the middle.

Multi-band everything!

Bring in a slight distortion on everything below 450 Hz, formant filter the mids, slap a reverb and a modulated tape stop effect on the high stuff above 4 kHz? Ok, that's about 5 seconds of work. What are you going to do with the rest of your day?

The worlds most versatile multi-effect offers something akin to a DAW within you DAW, but one that is exclusively for sound design, and it's about as quick as it gets. Don't believe us? Try it out for just a few seconds and we promise you will be wanting more.

It's been a while since I had so much fun and so many possibilities within one plugin as **Multipass**.

- Nik Roos | Noisia



"Taking multiband processing to new heights Kilohearts' groundbreaking plugin is the ultimate effects playground. Kilohearts have developed a brilliant and technically challenging conceptual blueprint into an intoxicating reality. **Multipass**' is nothing short of stupendous."

Winner of Computer Music's
Innovation of the Year 2016

COMPUTER
music
AWARDS
2016



Premium Plugins

DISPERSER

Disperser will apply an all-pass filter that rotates the phases of your signal across the audio spectrum. It makes basses juicy and leads sparkly. It makes drums sound louder, yet adds headroom.

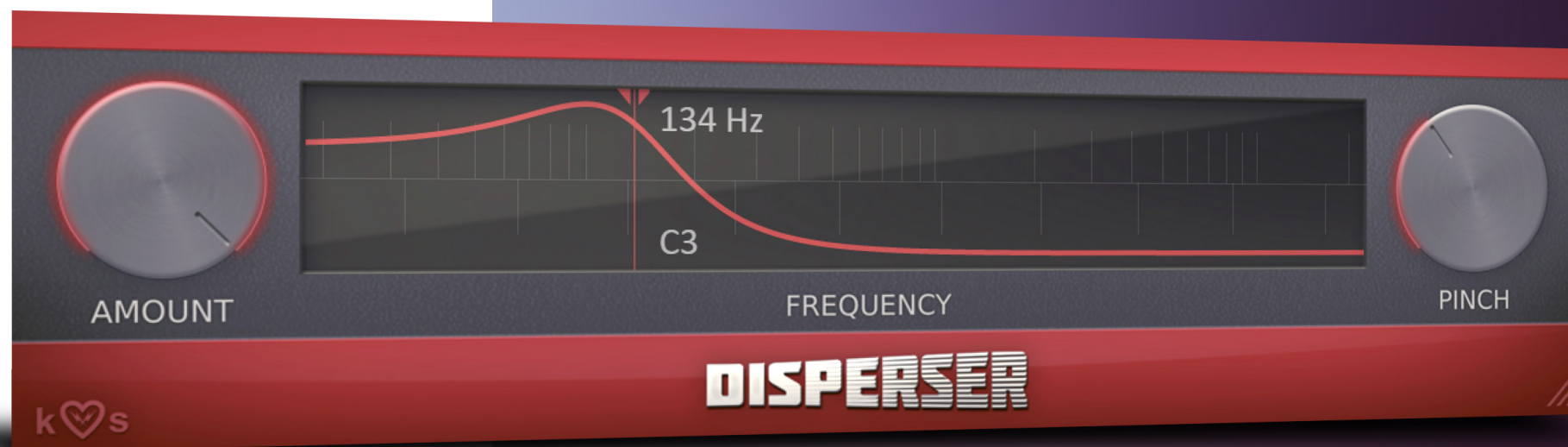
Disperser is the secret sauce effect that must be heard to be believed. By just altering the phases of the individual harmonics in your input it achieves a pleasing sound that can be hard to pin down. It has an effect that no amount of EQing or compression can replicate.

Disperser can have a profound effect on your percussion tracks. The sharp transients of the drum hits gives **Disperser** a lot of frequency content to work with. You can use it to shape the transients, giving more weight to any part of the frequency spectrum. It can also delay and extend certain frequency ranges, to give your kicks a longer boom or snares more snap, without actually increasing the volume of the track. Try it on your bassline, or on vocals, to blur them just a little bit to give them more presence. If that sound counter-intuitive, just try it out and let your ears decide.

The interface consists of only three controls making it easy to reach the desired results quickly. A big spectrum analyzer displays the current setting in an understandable way, while also working as the frequency setting.

Disperser is one of those plugins that does something you probably didn't think was possible, until you hear it.

- Noisia



Lets talk about how **Disperser** adds openness to even the most basic sound...

- Gammer



FATURATOR

Faturator can do everything from adding subtle and warm, gritty character to your sounds, to slam them into a wall of heavy saturation and digital fuzz. And it works as a Snapin as well.



Grit, oomph, fatness, color, and a shovel of dirt.

Faturator is standing ready to tear whatever you throw at it apart violently, and then gently (but firmly) put it back together fatter and rawer than ever. Contrary to many distortion effects, **Faturator** will preserve the dynamics of your sound and work its wonders on it regardless of input gain.

The independent *Drive* and *Fuzz* controls make it easy to dial in the type of distortion you want. It can also color the input to emphasize a specific tone of the sound, or throw some stereo width into the mix. Everything to give you a fast and easy way of making any input come alive.

Did you know that the graphic interface of **Faturator** is modeled after the Swedish 80s computer system ABC?

Faturator is one of our oldest and most popular plugins and it has gotten a lot of artist recognition through the years; KSHMR, Dom Kane, and Evil Nine are among the outspoken proponents.



Thanks a lot for **Faturator**. It's in every project I do.

- KSHMR



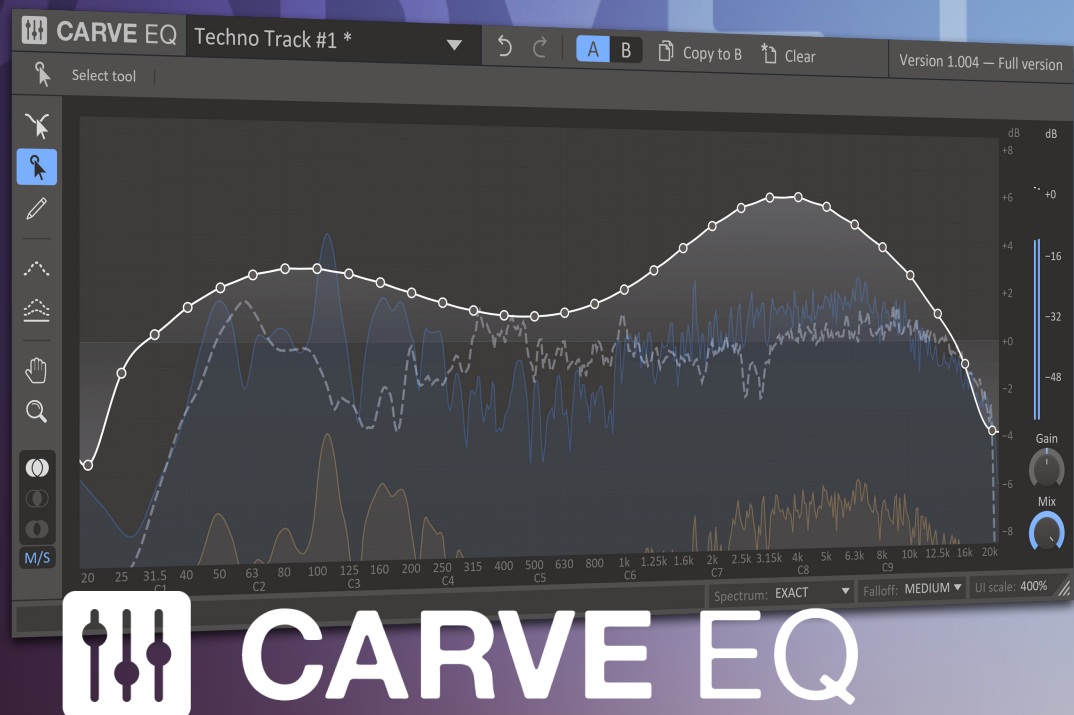
SUBTRACTIVE POLYPHONIC SYNTHESIZER

kHs ONE is a virtual analog synth with all the classic components, and a sound that will blow you away. While it is not modelled after any existing synth, it does sound a little bit like some 80s Roland models, or the older Ensoniq synths.

The first plugin by Kilohearts has been a workhorse for many musicians through the years, and it keeps churning out deep basses and squeaky leads to this day. In fact, it's seen quite the revival in 2017. And no wonder. Even though its classic looks can lead you to believe you've heard it all before, there is more to **ONE** than meets the eyes.

The oscillators feature saw, square, and noise waveforms, and the extra SUB-oscillator is there to get your guts rumbling with awesome full bass tones. Up to 8 unison voices will create a rich, lush sound, and the 24 voice polyphony makes sure you never drop a note, even with long release times. The onboard effects chain consists of a filter, waveshaper, second filter and then chorus and delay. All fully modulatable.

kHs ONE has inspired users around the world to create a multitude of sound and it now contains an additional 11 banks shock full of presets from various artists and communities.



The first of the two premium equalizers from Kilohearts, **Carve EQ** is an innovative, 31-band graphic equalizer that packs a lot of punch!

Workspace layout

With a recognizable workspace layout Kilohearts' premium equalizers user interfaces makes sure you will quickly find your way to all the features.

Tired ears?

When EQing you can sometimes start having problems determining if you are actually making things better or worse. Use the A/B comparison tool to make your way forward.

Match EQ

Do you have the perfect reference track? Simply steal the EQ footprint of any audio and let **Carve EQ** apply it to your song in seconds.

More of a feeling

Carve EQ provides an innovative *Sculpting Tool* which lets you smoothly work with sections of the spectrum. Keep massaging the frequencies while listening to your output until you are happy.



The second premium equalizer is called **Slice EQ**, and it is a classic parametric equalizer in a modern workspace layout.

The magic tool

Almost everything you want to do in **Slice EQ** can be accomplished using only one tool, making your work that much easier and quicker.

Perfect sound

Kilohearts' premium equalizers won't let anyone down soundwise. Using top of the line, digitally clean filters it will give you a crisp result every time.

Full modulation

Slice EQ offers modulation of almost all values from your DAW, or from one of Kilohearts' snapin hosts, like **Snap Heap**.

Size does matter

The workspaces of both EQs are freely resizable and you can set the UI scale to match your preference.



Snapins

3-Band EQ

3-band EQ will get you surprisingly far when it comes to shaping your sound, or your entire song.

The customizable cross-over frequencies makes it much more versatile than your standard 3-band equalizer.



Bitcrush

When the nostalgia hits, Bitcrush is ready to bring you back to the digital hardware of times past.

The Bitcrush can be used to create distorting effects that sound like that of scraping analog radio, or inherently lo-fi sound sources, like old video games. It simulates the audio being played back using a low quality sampler with limited sample rate (down to 200 Hz) and bit depth (down to 1 bit - simply on or off).



Chorus

Chorus enhances the stereo effect and presence of a sound by mixing it with a delayed and modulated copy of itself.

You can add 2 or 3 chorus voices, and using the *Depth* and *Rate* controls you can add movement to the sound making the chorus voices stray farther from the original sound. The *Spread* knob can add some stereo effect to the voices creating interesting patterns.

Comb Filter

The Comb Filter will mix the signal with a delayed copy of itself, creating a filter with repeated troughs and peaks across the spectrum.

It's also possible to process left and right differently in a way that not only gives a wide stereo effect, but also collapses back to the original signal when mixed to mono.

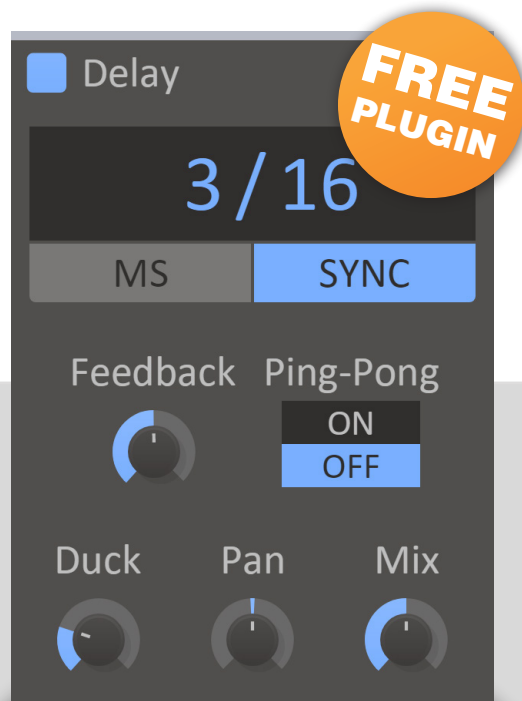
Nifty!



Compressor

A compressor will even out the audio volume by lowering the volume when the signal is loud. This helps shape the dynamics of the sound both at the initial attack and the sustain tail. Each compressor has their own flavor, and the Kilohearts Compressor tastes sweet.

Don't miss the chance to use Compressor in Multipass for some great multi-band compression.



Delay

Delay can be run both free running and tempo synced with various stereo and feedback options.

Most notable however is the duck feature, which

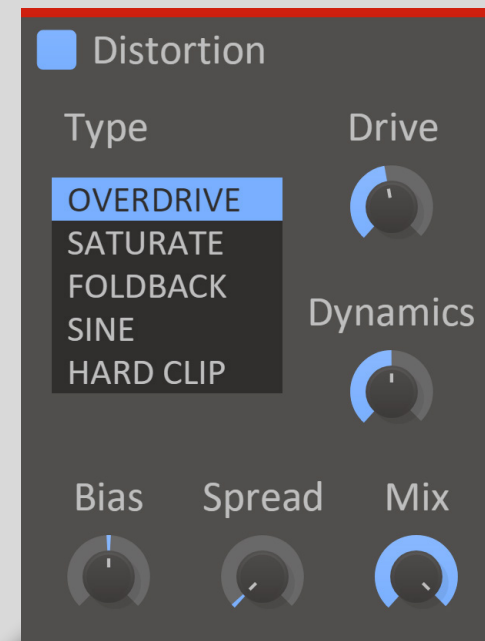
optionally only lets the echoed sound through when there is no dry input signal. This allows for long and heavy delay while still avoiding clutter over the original sound.

Distortion

Since man invented music, there a been a desire to make it louder. [Citation needed]

5 different distortion shapes are available to add a tinge of edge or rip things apart. In stereo, if that's what you're into.

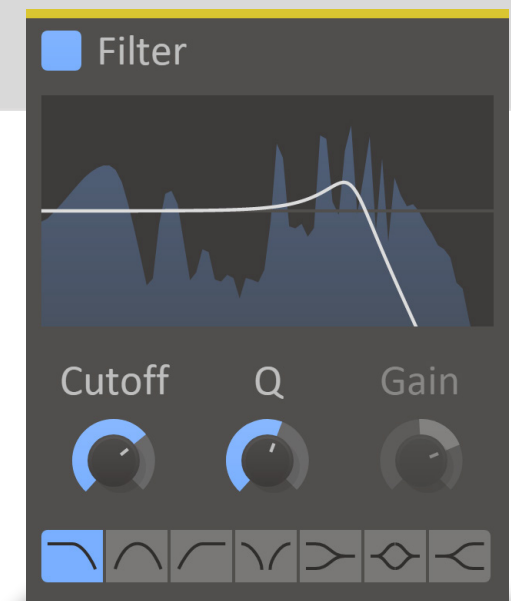
A common problem with distortion is that it can remove the dynamic content of the input signal, forcing the output to maximum volume. Turn up the Dynamics knob to preserve the dynamics of the original sound.



Filter

Filter is a resonant filter with 7 modes, swiftly getting rid of frequencies you don't like or enhancing frequencies you do.

The filter visualization will keep up with modulation making it easy for you to determine the right amount.



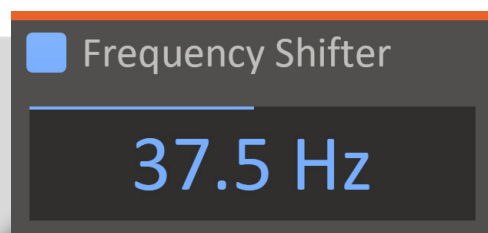
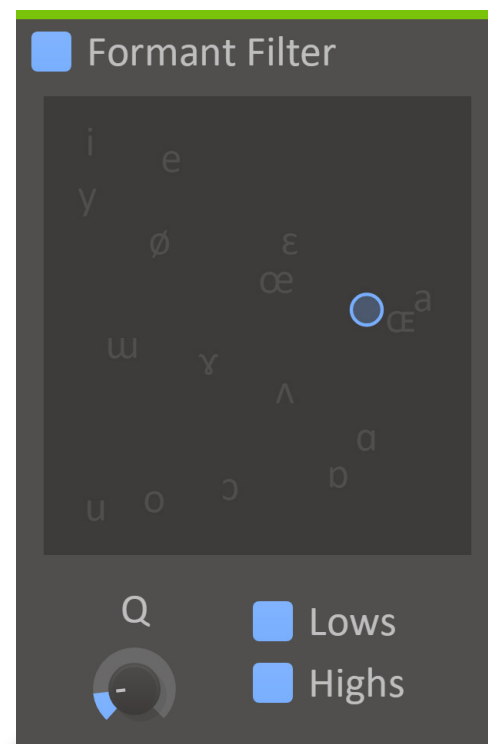
Formant Filter

If your music doesn't get enough *Aahs* and *Oohs*, maybe you should try to put them into the actual music?

Formant Filter shapes the sound in a similar way to how the vocal tract works, boosting two different frequencies leading to vowel-esque sounds.

We've put the phonetic symbols of some common vowel sounds on the selection pane. (Honestly that doesn't help much. I have no idea how they sound anyway.)

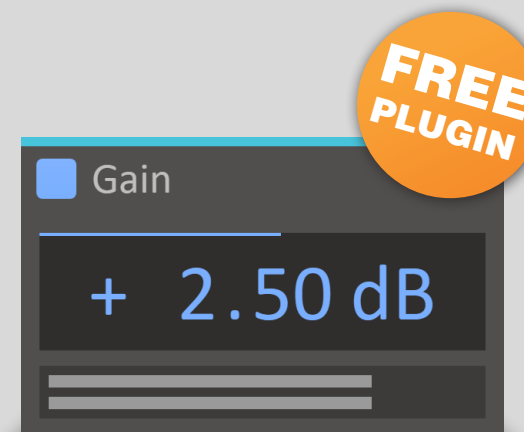
Applying a LFO modulation to either axis of the pane can give some nice voice-like qualities to your sound.



Frequency Shifter

Do you ever think to yourself: *Screw harmonics*? Well, ok, probably not. But let's do it anyway!

Frequency Shifter will shift all the frequencies in the input signal up or down by a certain amount. This kind of shifting will ruin the harmonic content of the input signal, making it sound dissonant.



Gain

There really isn't much to say here, except that a dedicated gain snappin can be surprisingly useful when building long effect chains.

Gate

Not all sound is created alike, and sometimes you want to just leave it at the Gate.

Gate has simple but powerful controls for tuning in the desired effect, and can easily be driven by an external sidechain signal.

The gate can also be flipped around to make a signal duck under another.

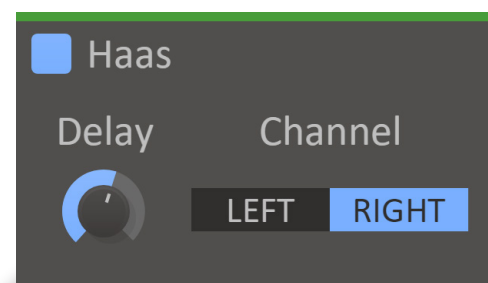
Another useful feature is the *Look-ahead* checkbox. When enabled, a 5ms look-ahead will be used, allowing transients through at the cost of latency.



Haas

The Haas effect will widen the stereo of the audio by delaying the left or the right channel slightly.

Bottom line: it brings stereo width to sounds where there previously was none. Simple as that.



Ladder Filter

When you want a bit of that vintage feel, Ladder Filter will twist your bass sounds into squelching retro-licks.

The Ladder Filter simulates low pass filters found in classic hardware synths.

You can choose between transistor ladder and diode ladder topology. The diode ladder have a slightly more gentle roll-off after the cutoff

frequency. The two topologies also behave differently when saturation is enabled.

With *Saturation* enabled, try cranking the *Drive* up an extra notch and it will even function as a warm distortion.

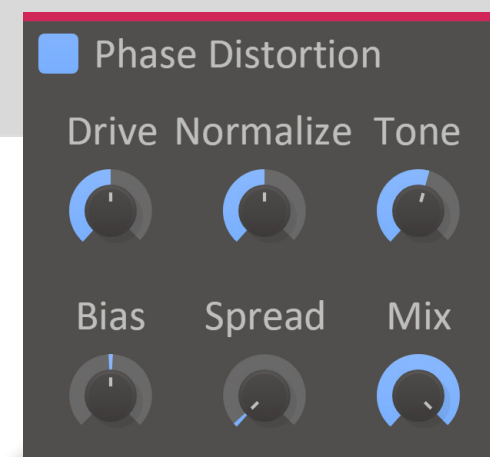


Limiter

By looking a little bit into the future, this limiter can make sure your signal never goes louder than you want it to without distorting or destroying transients. Even with the knob turned to 11.

Phase Distortion

Traditionally, most distortion units overdrive and shape the amplitude of a signal in various ways to generate a rougher sound. **Phase Distortion** instead lets the signal modulate the phase of itself, essentially resulting in something similar to feedback FM.



Opened a project, bass sounded thin, didn't now what to do before. Tried **Phase Distortion** and... FIXED. Literally my favourite plugins.

- LAXX



Phaser

Phaser can spice up your life with twirly frequency sweeps.

The Phaser will filter the input signal, creating a series of moving peaks and troughs in the audio spectrum.

Pretty much all the bad things with signal phase issues, but turned into an effect and labeled “cool”.



Pitch Shifter

Are you out of tune?
Do you want to be?

Either way, Pitch Shifter uses granular resynthesis to bring the pitch where you want it to be. Or at least somewhere else from where it already is.

During processing the pitch shifter chops up the audio into small snippets called grains. Adjusting the size of these grains can have an impact on your results.



The *Correlate* option enables a more advanced algorithm resulting in a more clear effect for many inputs.

Resonator

Found a frequency that you really really like? Want it to hang in there for just a little bit longer?

Specific frequency harmonics in the input sound are enhanced and propagated, giving you fine control over the sustain of a tone.

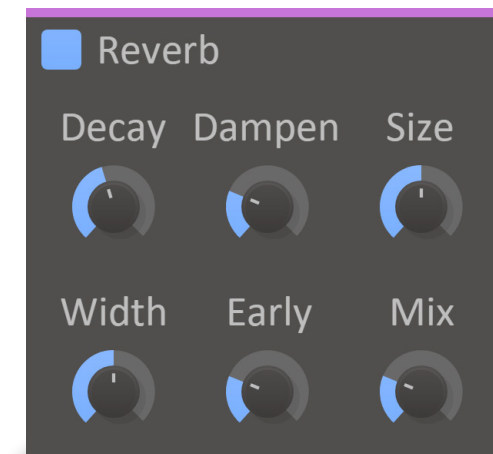
Choose between all harmonics (saw tooth wave) or odd harmonics (square wave).



Reverb

Reverbs, simulating the millions of tiny echoes that naturally bounce off the walls in a room, have become a central part in glueing together sounds in a song.

Kilohearts' Reverb delivers a surprisingly rich and lush sound.



I think Kilohearts **Reverb** might be my new favourite ‘blending’ reverb.
Nothing flash but damn it sits so nice.

- *State of Mind*

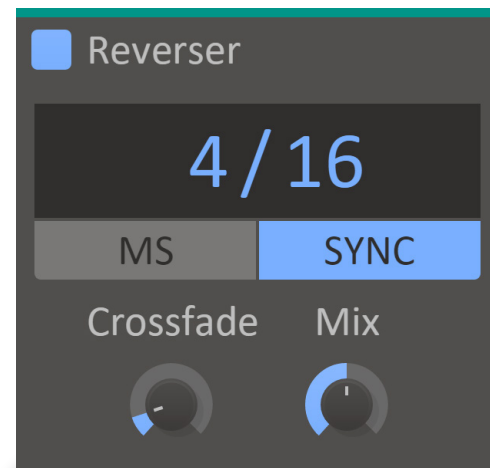


Reverser

Remember in The Ring when Samara kind of walks backwards but still towards you and it's all scary and weird?

This is not really like that.

Reverser delays and reverses sections of the input sound resulting in anything from hauntingly eerie textures to reverse percussion hits.



Wow. **Reverser** is unbelievable.

Clicking and popping always ruin every reversed delay I've tried. The crossfade knob takes care of that with ease.



Ring Mod

A ring modulator gets its name from the way the original analog schematic used a ring of diodes to multiply two signals together.

Honestly the schematics is more of a square, but who cares when you can trash your sound beyond recognition in both pleasant and horrible ways?

The Kilohearts Ring Mod uses either an internal *sine/noise generator* or a secondary input as the second signal in the modulation, and allows for versatile transformation of the modulating signal.

In Snap Heap and Multipass you can modulate the *Frequency* of the Ring Mod with the pitch tracker and get some super-useful sounds out of it.



Stereo

The Stereo snapin can adjust the stereo width and panning. It also displays the current balance and channel correlation visually.



Ducky

I really like ***Tape Stop***, I think it's really cool.
It does what it sounds like.

- *Ducky*



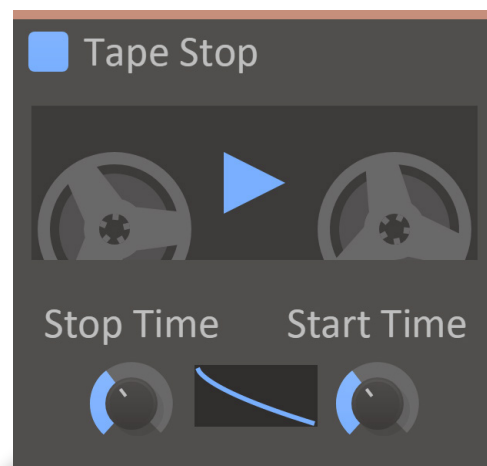
Tape Stop

At about the same time as dinosaurs roamed the earth, magnetic tape was the hottest way to store recorded audio. Naturally, cave men discovered that starting and stopping the tape while playing back would lead to interesting effects.

Tape Stop simulates this arcane technology in a simple way, allowing you to get great spindown/speedup sounds quickly with the push of a button.

You can even adjust the stop/start times as well as set the slope of the curve of the time-stretch effect that creates the illusion of the tape winding down, or up.

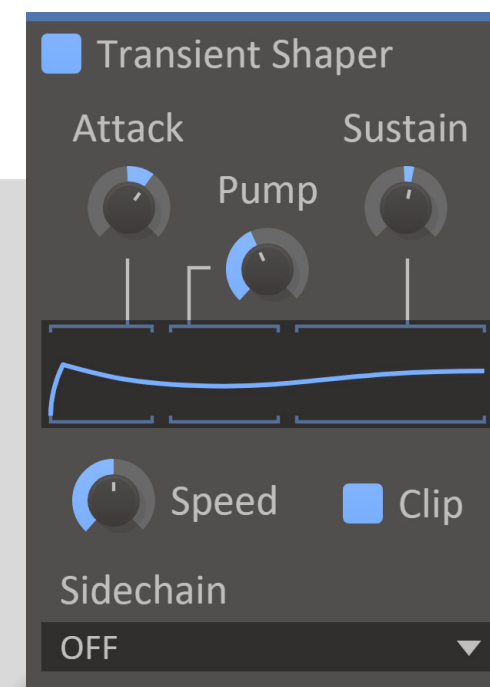
If you don't intend to sit there patiently and click the play/pause-button at the exact time, you will want to modulate it either from your DAW, or you can throw Tape Stop into Snap Heap and set up a modulation that is synced to your beat.



Trance Gate

Trance Gate is a gate sequencer which quickly adds a rhythm to a pad or lead, chops up a beat or adds more staccato to an arpeggio.

It has 8 programmable patterns that you can pre-program, and you can then modulate which pattern is active.



Transient Shaper

Using a compressor is the most common way of adjusting the dynamics of a sound, but sometimes this can be a bit cumbersome. This is where Transient Shaper shines, giving you very direct control over the character of both the attack and sustaining sections of the sound in a way that's simple to understand and tweak.



I really love **Transient Shaper!**
I'm a visual person so being able to
see the envelope helps me understand
how the signal is being processed.
This will become a part of my arsenal
for sure.

- Kill the Noise

Download & Installation

Free plugins

Kilohearts offer a number of free plugins. There are two ways of acquiring these plugins:

1. Purchase any other Kilohearts software. During installation you will be asked if you would like to install the free plugins as well.
2. Go to kilohearts.com and add the plugins to your cart. Checkout will not require a payment method as long as the order total is 0.

Redeem your software

When purchasing Kilohearts software through a retailer you will most probably receive a redeem code. This is not the actual license. In order to get your license go to:

 kilohearts.com/redeem

There you will be asked to enter the redeem code and your email address, and within a few minutes you will get an email with your actual license number and a download link for the Kilohearts installer.

Installation

If it's your first time installing Kilohearts software on a certain computer, you will be asked for which plugin formats you want installed, and where to install them. Supported formats are VST2 32 and 64 bit, AU 32 and 64 bit, and AAX.

If you downloaded the installer via the email link, you will be automatically authenticated. Otherwise you will be asked to provide a single license number. Once authenticated you can install all your plugins, as well as any free plugins you are interested in.

You can run the Kilohearts installer at any later time to update, uninstall or install new plugins, or to change your preferences.

System requirements

2 GHz CPU or faster, 1 GB RAM or more.
Windows 7 or Mac OS X 10.7 or newer, and a VST or Audio Unit compatible DAW.

Terms & Contact

Returns and Refunds

Due to the digital nature of the products sold by Kilohearts AB, sold products can not be returned after payment has been processed and the product license has been issued.

If you have a complaint about your purchase or your product, please contact support@kilohearts.com.

Student discount

We offer students and educators a 30% discount on all our products. Email info@kilohearts.com with proof of your student status. Student discounts only apply to purchases made at kilohearts.com.

Artist program

We like to associate ourselves with artists and audio professionals from all over the world. If you think you fit that description and haven't yet been in personal contact with us, please email info@kilohearts.com. Depending on the situation we offer artist discounts, spots in our artists section, freebies, merch, mutual promotions etc.

Contact

Feedback:

 info@kilohearts.com

Facebook:

 facebook.com/Kilohearts

Troubleshooting:

 support@kilohearts.com

Twitter:

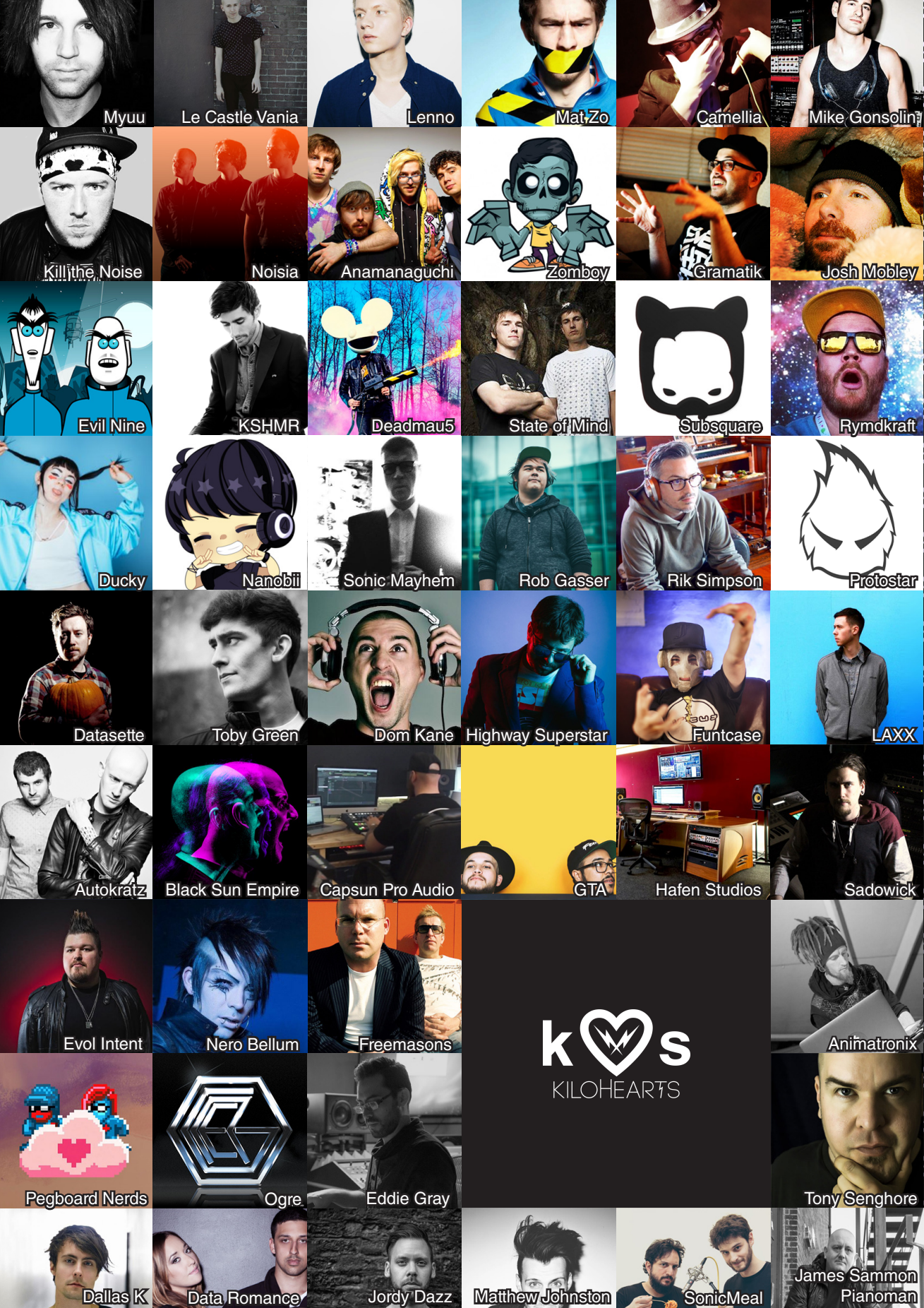
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k♥s
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