



Effectrix iPad Edition



MANUAL



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ABOUT

Effectrix is a professional multi-effect tool embedded in a step-sequencer matrix.

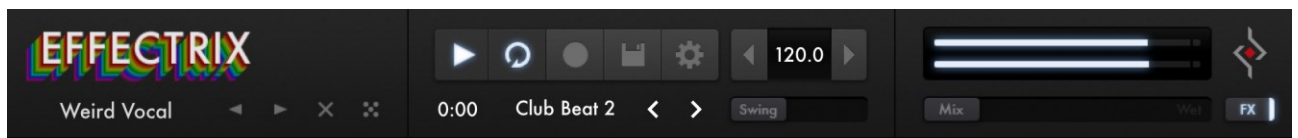
You can use Effectrix to completely mash up your tracks, turn them into grainclouds or just do some minor alterations to your beats. Effectrix iPad Edition offers the full functionality of the macOS/PC version.

Effectrix supports the Audio Unit V3 standard making it possible to load multiple instances into any DAW that supports AUv3.

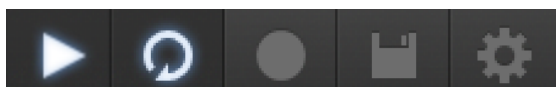
MAIN INTERFACE

HEADER
SEQUENCER MATRIX
EFFECT PARAMETERS
PATTERN KEYS
ABOUT SCREEN/SETTINGS

HEADER



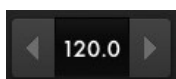
TRANSPORT CONTROLS



- | | |
|-----------|--|
| Play: | Plays or pauses the current track. |
| Loop: | Repeats the played track in an endless loop. |
| Record: | Starts audio recording. |
| Disc: | Exports or deletes audio files. |
| Settings: | Opens the About Screen . |

BPM CONTROL

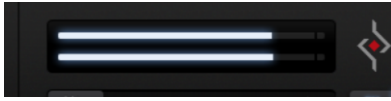
Effectrix requires tempo information in order to synchronize loopers, slicers or delays to the beat:



Tap the BPM-control panel or swipe left/right to set the tempo.

The tempo of loops up to a length of 32 bars will be analysed automatically.

LEVEL METER



Shows Effectrix' output level.

GLOBAL PRESETS

You can access the global-preset options by tapping the name of the current preset in the upper left-hand corner of the screen. They recall/store all settings, including all sequences, subsequences and effect settings.

The top line shows the current preset name and offers different file operations:



Step through the presets, forward or backwards.



Deletes current setup.



Loads a random preset.



Opens a save dialog.

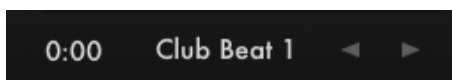
You can save your own presets into the folder "User".

There you can also manually load a preset via the iOS file browser.

Swiping a preset name to left gives you the option to delete your preset files (factory presets excluded).

See also: [MIDI Program Change](#)

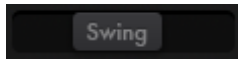
AUDIO PLAYER MENU



Current track is displayed, click into the menu to load another track.

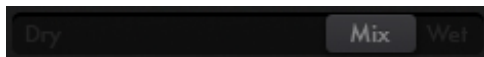
Load files through File Import or Audioshare or select of file from your music library.

SWING



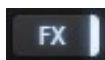
Swing control lets Effectrix swing along with your host. The swing actually delays each second note, so using swing only makes sense when tempo control is set to the resolution of your host sequencer.

Mix



Defines the mix between input and output signal.

BYPASS

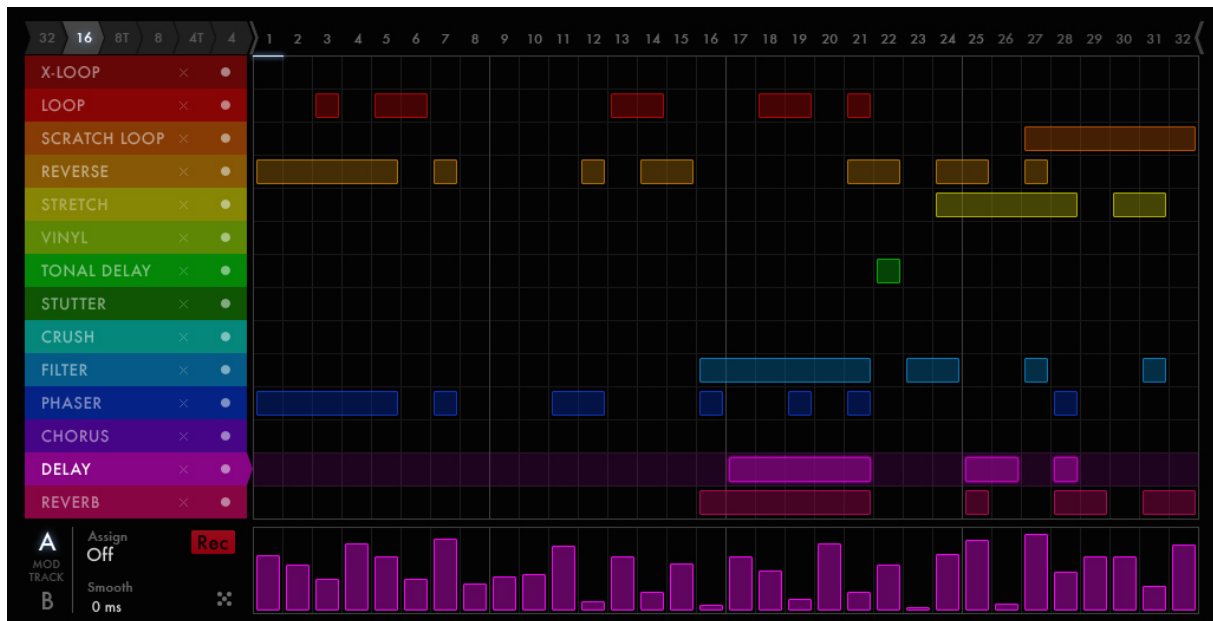


The Bypass button deactivates Effectrix.

SEQUENCER MATRIX

The effects are running in series, from top to bottom, so first X-LOOP works your audio, feeding its output to the LOOP, then to SCRATCHLOOP, etc.

This gives you crazy possibilities from relooping looped stuff up to creating obscure grainclouds which leave no clue what the initial material sounded like.

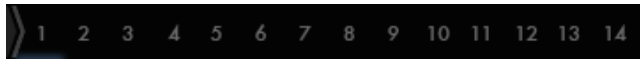


TEMPO



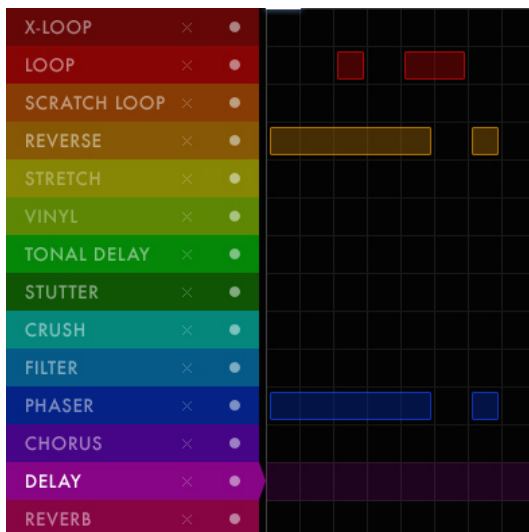
Effectrix runs at your host's BPM. Using the tempo controls you can determine the actual resolution of the 32-step sequencer, so that Effectrix runs at /32, /16 or even at triplet speed.

LOOP BAR



Use the Loop Bar to define your own playback loop. Slide the edges to resize, swipe to move.

SEQUENCER TRACKS



Each effect has its own sequencer track. The little cross erases the sequence on each track. The little circle switches the effect on/off.

Step Handling

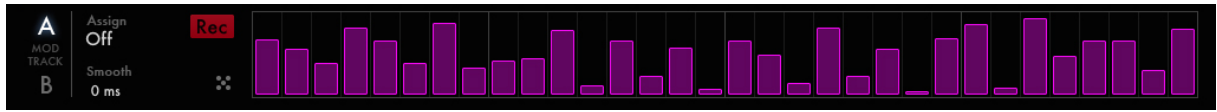
Draw single sequence steps or longer bars into the sequencer matrix.

Erase bars with a double tap.

Move a step/bar by grabbing its center. Steps cannot be moved between different effect tracks.

Resize a step by expanding/reducing its ends.

MODULATION SEQUENCER



Each effect has two modulation sequencers (Track A/B).

These can be assigned to all Effect Parameters adding yet another dimension within your effect sequences.

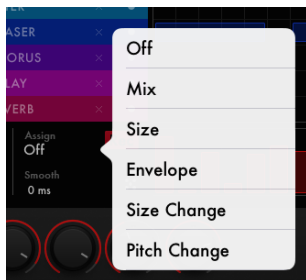
You can record to the knobs via actual movements.

A/B

Use the A/B button to select one of the two sequencers.

ASSIGN

The ASSIGN menu is used to assign a knob for being modulated or recorded to the selected modulation track (A or B).



SMOOTH

The SMOOTH control will turn the stepped modulation into a smooth modulation curve with a lag time of up to one second.

REC

The REC button activates recording on the assigned knob.
When REC is enabled, the assigned knob will not receive modulations.

RANDOM

The dice button creates a random sequence.

EFFECT PARAMETERS



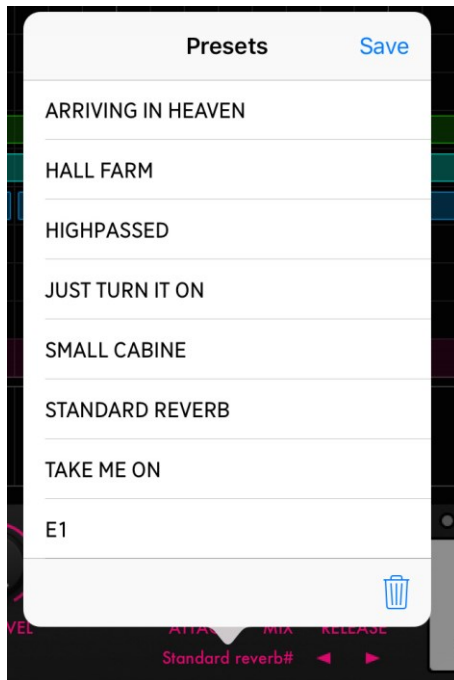
Below the sequencer matrix you'll see the parameters for the individual effects. The parameter section always displays the effect currently selected.

Nearly all effects have a MIX knob to adjust the DRY/WET level. There's an envelope (triggered by the sequencer step) and controls for ATTACK and RELEASE. When a sequencer step is reached, it fades in according to the ATTACK time, then stays at the MIX level. When the step has ended, the effect fades out according to its RELEASE time.

DELAY and REVERB use a slightly different approach. Here you have a dedicated DRY control, the MIX control will define the WET amount.

The BYPASS button deactivates the selected effect.

EFFECT PRESETS



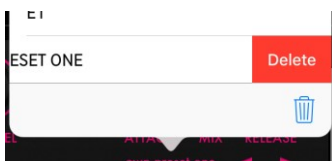
Each effect has its own preset folder, so it is very easy to store and recall your favorite settings for individual effects.



Steps through the presets, forward or backwards.



Opens a save dialog.



Swiping a preset name to left gives you the option to delete your preset files (factory presets excluded).

PATTERN KEYS



USING PATTERN KEYS IN YOUR WORKFLOW

When you create patterns in the matrix, they are saved to the active pattern key. Switch to another key to draw a new pattern. You can save up to 12 patterns to the individual keys. These can then be triggered by MIDI notes.

MIDI TRIGGER

Activate "MIDI Trigger" to fire up Effectrix with a MIDI note.

Deactivate "MIDI Trigger" to let the sequencer of Effectrix run in sync with your mobile DAW.

COPY/PASTE

You can transfer patterns from one key to another.

Hit the COPY icon to put the active sequence into the clipboard. Change to another pattern key, to PASTE the contents via the icon.

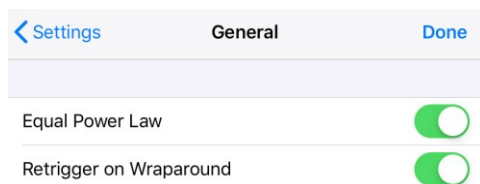


ABOUT SCREEN

Click on the Effectrix logo to check the current version installed and to adjust the way Effectrix operates in certain MIDI and Audio connections. Enable or disable Ableton link and iCloud synchronization.



GENERAL



Equal power law:

Choose between a linear and equal-power law model.

Retrigger On Wraparound:

If a sequencer step goes over the sequence length, the effect will be retriggered at the first step.

Using this feature, internal envelopes, loops' start points, etc. will be retriggered.

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AUDIO

< Settings	Audio	Done
Mode	Internal player >	
Input / Output	Out 1+2 >	
Audiobuffer	256 samples >	
Run audio in background	<input type="checkbox"/>	

Mode

Here you can select your audio input. Pick either "Internal Player" to connect to audio from your iPad or "External Audio" for Mic/Line-in.

Internal player	✓
External audio (Live)	

Input / Output

If a multichannel sound card is connected, you can choose all available in and out ports here.

INPUT MONO	
Input 1	✓
OUTPUT	
Output 1+2	✓



Audio Buffer

The “Audio Buffer” allows you to change the audio latency of Effectrix. If you experience crackles in the audio signal, increase your buffer size.

64 samples	
128 samples	
256 samples	✓
512 samples	
1024 samples	

Run Audio in Background

Switch ON to keep Effectrix playing even if you’re working in another app.

MIDI

SOURCES	
Virtual Input	On >
Network Session 1	On >
Bluetooth Midi	>

This list shows all MIDI devices currently connected to your iPad. Supported MIDI Types are Virtual, Network, External & Bluetooth MIDI. Effectrix can receive MIDI from other apps via Virtual Input. Switch on Virtual Input and select Effectrix in the sending app.

The following MIDI input settings are available:

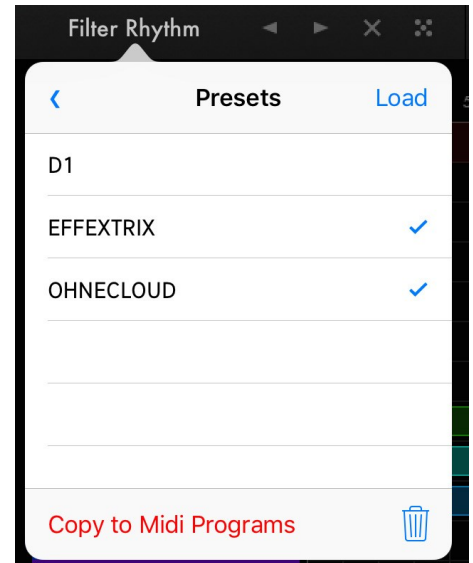
Active	<input checked="" type="checkbox"/>
Midi Clock Sync	<input checked="" type="checkbox"/>
Channel	OMNI >

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MIDI Program Change

All presets in the MIDI Programs Folder can be called with MIDI Program Change messages.

Press “Copy to Midi Programs” at the bottom of the Preset Browser and select the presets you want to copy MIDI Programs folder. Confirm by clicking “Copy to Midi Programs” again. Now you should see the presets under MIDI Programs.



MIDI LEARN

Long-press any control to assign incoming MIDI CCs.

Tap Clear to delete the assignment.



Within a mobile DAW Effectrix’s MIDI Learn settings will be saved with the song.

RECORDING

Here (Standalone only) you find all settings related to recording audio:

LENGTH	
Manually	✓
1 Bar	
2 Bars	
4 Bars	
8 Bars	
START / STOP	
Manually	✓
Start with Play	
Start & Stop with Play	

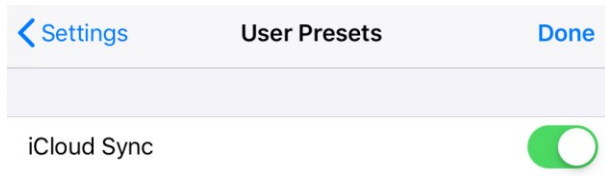
Determine how to start and stop the recording and create loops with the record-length feature.

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iCLOUD SYNCHRONIZATION:

Through iCloud, you'll be able to share your saved presets across multiple devices including your desktop computer.



This feature is disabled by default. To sync Effectrix across your devices, launch the About Screen. There choose iCloud, tap iCloud and set iCloud to On. Once activated, presets you save in the Effectrix iOS version are synced automatically to your iCloudDrive.

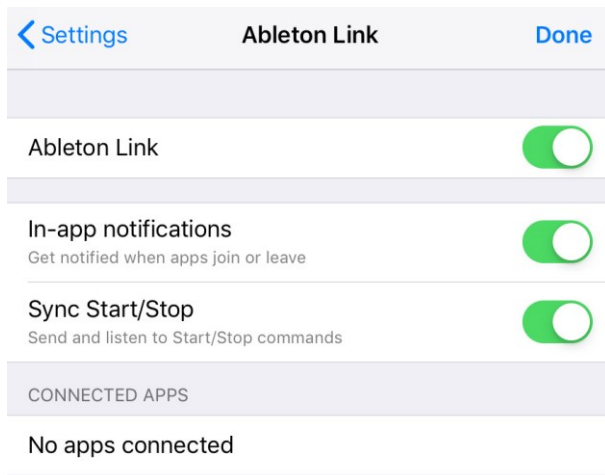
To share a preset from your Effectrix iOS version to your computer, you'll need to drag and drop or copy/paste the preset from iCloudDrive/Effectrix/Presets/User into
~/Documents/Sugar Bytes/Effectrix/Presets/User

To share a preset from your computer to your Effectrix iOS version, you'll need to drag and drop or copy/paste the preset from
~/Documents/SugarBytes/Effectrix/Presets/User into
iCloudDrive/Effectrix/Presets/User

The presets will then automatically appear in the Presets User folder of Effectrix. Please note that creating and then reading out a subfolder is technically not possible.

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ABLETON LINK



Hop on to the same network and jam with others using multiple devices running Ableton Link-enabled software. Anyone can start and stop their part while others keep playing. And anyone can adjust the tempo and the rest will follow.

You can activate Link via Effectrix's About Screen under Ableton Link.

When activated, Ableton Link will sync tempo across apps.

Find out more about Ableton Link [here](#).



EFFECTRIX AS A PLUGIN INSIDE YOUR FAVORITE PORTABLE DAW

Effectrix supports the Audio Unit V3 standard. It will be up to the host app on how it implements the AUs menu, but in most host apps you'll find the menu where other effects or editing tools can be applied.

Here is how to add Effectrix in...

AUM: Tap the Inserts & Effects slot of a Channel and load Effectrix from the list of Audio Unit Extensions.

Beatmaker: Tap the "Add Effect" button from the FX panel, go to Audio Unit / IAA Effect and select Effectrix from the list of Audio Units V3. 19

Cubasis: Select the track you wish to add Effectrix to. Open the track Inspector and select the Insert or Send effects panel. In the effects menu tap one of the slots and select Effectrix from the Audio Units category.
GarageBand: Select Plug-ins & EQ from the mixer panel on top left and tap the Edit button. Tap the plus button of a free FX slot to select Effectrix from the list of Audio Unit Extensions.

Auria: Press the "FX" button on a track to open the "ChannelStrip" window and load Effectrix as an AU effect (green fond).

Audiobus: Press on the + button on an empty effect slot of Audiobus and select Effectrix from the list of Audio Units
Modstep: Tap the "Browser" button, go to Effects and select Effectrix from the list of AU effects.

WHY ARE THERE TWO DIFFERENT INSTANCES AVAILABLE FROM THE AUDIO UNITS CATEGORY, "EFFECTRIX" AND "EFFECTRIX MIDI"?

You can let the sequencer of Effectrix run in sync with your mobile DAW or start/stop the sequencer via MIDI and use the pattern keys (Please check the "MIDI Trigger" options.) but some host are not able to send MIDI to a simple insert effect. So in order to fire up Effectrix with a MIDI note and to assign CCs to Effectrix parameters by using a MIDI controller or the DAW's virtual keyboard/Performance view, we implemented "Effectrix midi" which is a midi controlled effect then.

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THE EFFECTS

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X-LOOP
LOOP
SCRATCH LOOP
REVERSE
STRETCH
VINYL
TONAL DELAY
STUTTER
CRUSH
FILTER
PHASER
CHORUS
DELAY
REVERB

X-LOOP



X-LOOP is our advanced looping algorithm developed for Effectrix. It changes loop size and pitch and includes an envelope for shortening.

Size

Defines the size of the looping buffer in tempo values.

Envelope

Cuts the loop short, so that only the beginning of the loop remains and silence takes over.

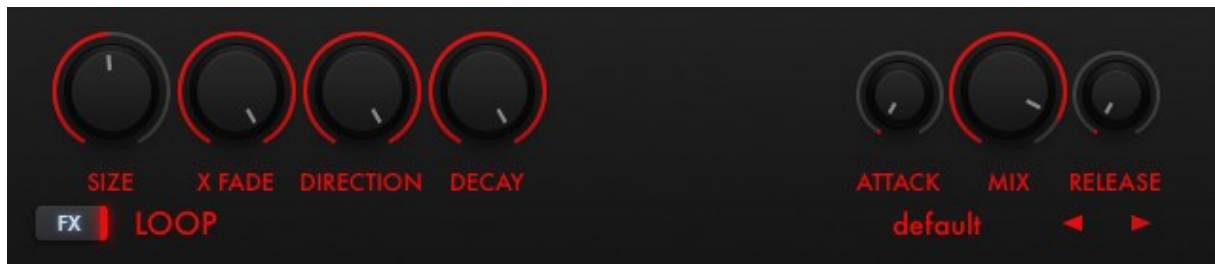
Size Change

A bipolar control. Negative settings make the loop size getting smaller over time. Positive settings let the size grow over time.

Pitch Change

A bipolar control increasing (positive) or decreasing (negative) pitch.

LOOP



A Looper repeating its buffer according to the defined loop size.

Size

Defines the size of the looping buffer. It works in tempo values, so you can easily decide how long the loop will be.

X Fade

Fades the ends to create smoother loops. Higher values create weird and super-smooth sound.

Decay

Fades out the loop at the time given. Using this feature you can make the sound vanish before the step end is reached, giving you the possibility to create stuttering loops using several short steps.

Direction

The Direction knob defines the speed of LOOP.

SCRATCH LOOP



Another innovative looper developed specifically for Effectrix.

It plays the loop forward and backward like scratching a vinyl record. You can define the speeds for forward and backward spin and individual slopes for the spinning change between forward and backward and vice versa.

This a very complex effect where all parameters interact with each other, opening new worlds of scratching your audio signals.

Size

Defines the size of the looping buffer. It works in tempo values, so you can easily decide how long the loop will be.

Fwd Spin

Controls the FWD playback speed.

Fwd Slope

Controls the FWD playback speed curve. Actually this setting emulates the different acceleration styles of the scratching hand.

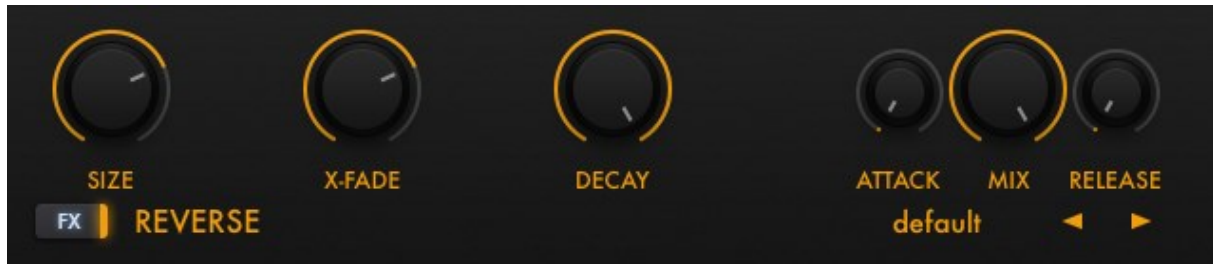
Bwd Spin

Controls the BWD playback speed.

Bwd Slope

Controls the BWD playback speed curve. Actually this setting emulates the different acceleration styles of the scratching hand.

REVERSE



A reverse looper: your audio will play backwards.

Size

Defines the size of the looping buffer. It works in tempo values, so you can easily decide how long the loop will be.

X-Fade

Fades the loop ends to create smooth loops, higher settings mix so much material that the sound becomes weird and supersmooth.

Decay

Fades out the loop at the given time. Using this feature you can make the sound vanish before the step end is reached, giving you the possibility to create stuttering loops.

STRETCH



This is Effectrix' time-stretch unit.

Speed

Turn down to slow.

Tempo-Relative

Syncs stretching relative to your BPM.

Grainsize

Defines the size of a time window used for granulizing the audio signal. This control provides you with different granular flavors.

Fade

Smooths the granulizing effect giving you a range between a rather harsh or softer sound.

VINYL



This effect gives you the sound of scratching or stopping a record with your hands: you get that classic chicky-wicky sound!

Speed

The actual scratching speed / the time needed for slowing down the record until it stops.

Size

Determines how much room is taken for scratching. Smaller values just scratch a small range of the audio material, larger settings scratch more, resulting in a more aggressive scratch sound.

Slope

Determines the deceleration of the stop curve.

Stop Mode

Changes the VINYL Effect so that it stops the record. The SIZE parameter is not required here and so it's greyed out.

Since no looping is used here, the current audio signal becomes scratched and is not repeated.

TONAL DELAY



One of the most innovative effects created by Sugar Bytes.
A short delay is used to tonalize/synthesize anything fed into it.

You can make your drums play melodies, re-pitch harmonic signals and create stunning mutations out of anything.

Tune

Determines the note applied to your signal. It really makes sense to remote this knob with the internal modulation.

Feedback

Controls the intensity and sustain of tonalization. Higher values give you a clearer tone and a stronger signal.

Width

Introduces stereo imaging for a larger sound.

High pass

Cuts off lower frequencies to avoid rumble and create a rather light tone.

Level

Higher feedback settings raise the output level, so this control can be used to adjust the output level.

STUTTER



An amplification effect, useful for enveloping, gating and panning effects.

Two sequencers are running along your clock. The upper one starts an envelope at the given amplitude, the lower one controls the stereo pan.

Tempo

Determines the playback speed of LEVEL and PAN sequencer.

Attack

Belongs to the amplitude envelope, triggered by the Level sequencer and controls the level-fade-in-time when a sequencer step starts the envelope.

Decay

Belongs to the amplitude envelope, triggered by the Level sequencer and controls the level-fade-out-time of the step.

Edit

Just click on the edit button or the setp sequencer to edit the values of the pan and amp sequencer.

CRUSH



Made to destroy: A first-class sounding bit crusher, sample-rate reducer and distortion effect.

Bitcrush

Reduces the bitdepth and so introduces silver rain and crushed ice.

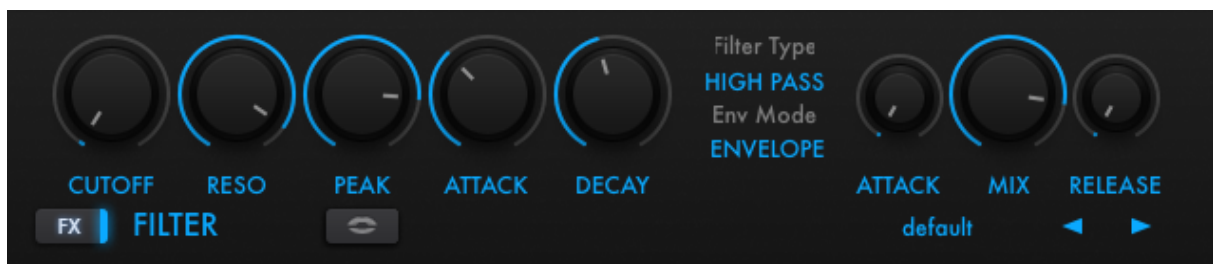
Samplerate

Reduces the sample rate using an advanced technique: new flavors and octaving effects.

Distortion

Warm and deep, strong and wild.

FILTER



The essence of Sugar Bytes' filter technology: four filter types known from our WOW Filterbox, including the notorious Vowel Mode which makes your audio talk. Also an AR envelope and envelope follower are included for classic filter sweeps.

Cutoff

Determines the filter frequency: In Vowel Mode this control selects vowels (A, A:, AE, E, I, O, OE, UE, U).

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Reso

Controls the Filter resonance, in Vowel Mode higher settings give you a clearer vocal sound.

Env Peak

Determines the target-value of cutoff-modulation introduced by the internal envelope and envelope follower.

Modulation starts at the Cutoff frequency, reaches the Env Peak value and goes back to the Cutoff frequency.

Attack

Fade-in-time of the envelope/envelope follower.

Release

Fade-out-time of the envelope/envelope follower.

Filtertype

Choose from four filter types. The classic HP/BP/LP are included in 24db depth. Also a strong COMB filter is included for stunning vowel- and micro-delay sounds.

Vowel Mode

Use that mode to make your audio talk. The cutoff control is then used to select the vowel frequencies.

Env Mode

Select the envelope used for modulating the cutoff frequency according to Env-Peak, Attack and Release settings.

Envelope is a classic AR envelope started when a sequencer step is reached.

Env Follow creates an envelope from the transients of your audio signal.

PHASER



The good old 70s sound, deep and wide phasing at its best.

Rate

Phasing speed, always in sync to your song tempo.

Stages

Number of Phaser stages, running in series.

Depth

Intensity of the actual phasing sound.

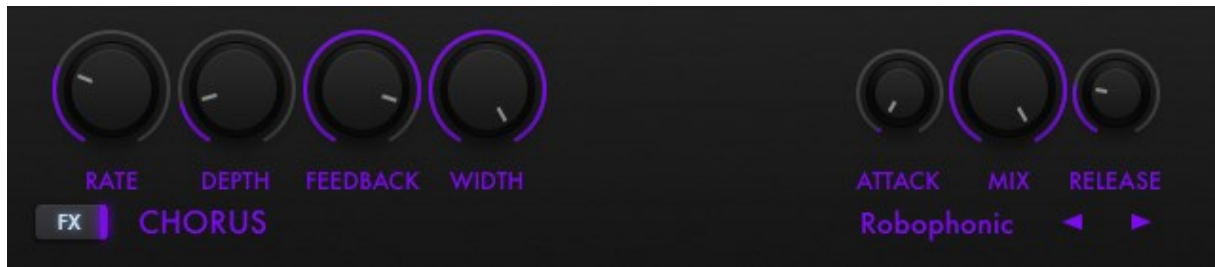
Feedback

Introduces a stronger sweeping.

Width

Stereo widening and left/right phasing offset.

CHORUS



A classical de-tuning effect, makes it all bigger and wider.

Rate

Chorus speed, always in sync to your song tempo.

Depth

Chorus intensity, goes from slight widening to extreme de-tuning.

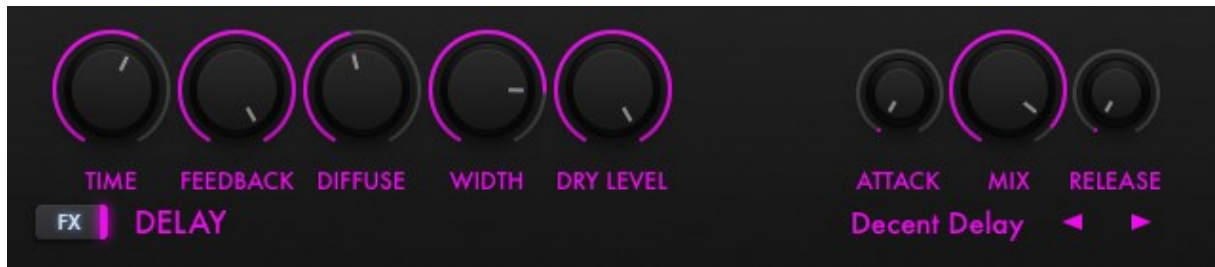
Feedback

Introduces a flanger sound.

Width

Stereo widening and left/right sweeping offset.

DELAY



A typical delay with synced delay times.

Time

Delay time: always in sync with your host tempo.

Feedback

Determines how long the delayed signal will decay until it ends.

Diffusion

Introduces a slight mix-up between left and right channel, for 3D feeling.

Width

Stereo imaging.

Dry Level

Determines your DRY level.

REVERB



Room

The roomsize, for bigger or smaller reverbs.

Decay

Determines how long the reverb signal will last.

Width

Stereo imaging for a wider sound.

Highpass

Cuts off low frequencies to avoid rumble.

Dry Level

Wet/Dry Mix.



CONTACT



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APP STORE



WOW FILTER BOX

Need some state-of-the-art filtering on your iPad? Go for WOW2. Use 3-fingerXY pads to control filters, distortions and modulations. With audio recorder, AudioBus and Auria Plugin, ready for each and every situation.



TURNADO

We crafted Turnado for massive real-time audio manipulation. It combines unique and dynamic effects with a most intuitive and immediate control. Just turn it on and crank it up.



THESYS

Thesys is a MIDI stepsequencer plugin, giving you control over just about all aspects of your favorite MIDI devices. Use Thesys to create varied and organic bass lines, screaming leads, pulsating chords and organic pad sounds in the studio or on stage.



CYCLOP

Twisted Bass Synthesizer. Monophonic, raw and unbelievably versatile, packed with tools for the bass of the future and beyond. Wobble Knob FX Sequencer and a hilariously versatile sound engine will give you endless joy.



FACTORY

Modular Synthesizer for complex and organic sounds. Choose from the most particular synthesis methods, let yourself be charmed by the Matrix and morph between the most improbable variations of your sound. Four sequencers are pulling the strings behind the curtain. Factory is polyphonic supersonics!



EGOIST

Egoist is a groove instrument. Load any audio file and squeeze the groove out of it! Try your mp3 library and use it as a source! The additional onboard bass, beat and fx units make Egoist the perfect track sketch tool in the studio and on the road.



UNIQUE

Unique specializes in state-of-the-art vowel sounds and mighty analogue sounds from the Golden Age of synthesizers. Her assertive sound should not be missing in your mobile studio.



APARILLO

Aparillo is an advanced 16 voice FM synth tailored for complex sound structures, majestic motions, moving and evolving soundscapes and atmospheres that are perfect for film, TV or games. It's not limited to the conventional fm sounds but also delivers a huge range of styles from basses to brasses, pads to leads to even percussion.

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