

FIRECHILD



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MANUAL



The Firechild aims to emulate the characteristics of the King of Compressors from the 1950s.

The vintage units are variable-mu type compressors, which use the vacuum tubes for reduction of gain right in the audio signal path,
(no re-routing to a compression circuit)

Given its primary purpose as a protective device in broadcast or vinyl cutting environments, in which the limiter was required to catch any unwanted signal peaks reliably, these fast attack times were one of the compressors most important features.

Our Plugin features not 1, but 4 models including a “clean version” – off mode for the convolution, which presents a “non-colored” compression characteristics version as well.

The 3 Tube models A/B/C can be driven hard at the input stage without hitting any compression as well, and along with the Bias control, can give the user various Tube Saturation colors, each distinct from the other.

This is produced by actually sampling the real hardware units at multiple stages of gain and compression and implementing it using dynamic convolution technology.

**Featuring 6 Release modes, each carefully emulated
& sampled from 4 different units each with slightly different
electrical components or tubes with different stages of tube life.
A Knee control is also provided to further shape the compression characteristics.**

**Modern Features in the plugin take it way beyond the originals by
add adding a full side-chain section with Hp/ Lp filters(24db/oct) and side-chain gain,
as well as a mix knob for mixing the compressed signal with the non-compressed signal.**

This gives the user a lot of choices in shaping and coloring the sound as they please.

**The Firechild sounds great on anything from the Mix Bus, Mastering,
Drums & Instruments to Vocals, etc.**

**The plugin comes with a selection of presets to get you
started or design your own from scratch.**

FEATURE

STEREO LINK:

This switch toggles between the Stereo compressor mode and 2 mono (L-R) compressor modes . Works for stereo channels only.

MODEL SELECTOR A/B/C/OFF:

The A/B/C models are emulations of 3 tube versions of the compressor with the tube color and saturation characteristics and features real samples from 3 different hardware models with slightly different electrical components and different stages of Tube life.

The 4 model (OFF) features a “transparent “ version of the compressor without the coloration created by tubes.

BIAS:

This controls the bias of the compressor offering additional saturation for all 4 models.

VU METERS:

These indicate the gain reduction for both channels (in stereo mode) or for the mono channel.



INPUT GAIN:

Ranging from -24dB to +24 dB, the input gain will also saturate the sound of driven hard just like its analog counterpart.

Can be used to saturate the signal on models A/B/C with or without using the compression circuit at all.

OUTPUT GAIN:

This is the last stage of the signal path and will trim the output signal to -24dB or add gain up to 24dB.

THRESHOLD:

This controls the threshold for the compressor circuit. Range : +10 to -30 dB.

KNEE:

Control the knee curve for the compressor with this control.

RELEASE:

6 fixed release times from the original compressor from fast to slow times.

MIX:

A control to balance the mix of the wet (compressed) signal and the (uncompressed) signal coming from the Model/Convolution Engine.

The Dry signal will carry the processing from Models A/B/C, the off mode has no color characteristics and will produce the absolute dry/original signal.



SIDECHAIN AND FILTER SECTION

SIDECHAIN GAIN:

This controls the gain of the sidechain signal going into the side chain circuit of the compressor. More gain will cause more compression to occur.

LP FILTER:

The Low Pass filter (range 20 Hz to 20 kHz) filters the side chain signal using a 24 dB / oct Low Pass Filter.

HP FILTER:

The High Pass filter (range 20 Hz to 20 kHz) filters the side chain signal using a 24 dB / oct High Pass Filter.

SIDECHAIN POWER:

Toggle between on/off for the side chain circuit.

MAIN POWER:

The bypass switch for the plugin, great from testing “before” and “after” processing.



TIME CONSTANT SETTINGS

| Switch Position | Attack (ms) | Release (Sec) |
|-----------------|-------------|---|
| 1 | 0.2 | 0.3 |
| 2 | 0.2 | 0.8 |
| 3 | 0.4 | 2 |
| 4 | 0.8 | 5 |
| 5 | 0.4 | 2 (peaks), 10 (multiple peaks) |
| 6 | 0.2 | 0.3 (peaks), 10 (multiple peaks), 25 (programme material) |

PLUGIN FORMATS

PC/MAC :

MAC OSX VST3/AU/AAX 64BIT

WINDOWS VST3/AAX 64 BIT

WINDOWS 10 OR LATER*.

OSX : 10.13 OR LATER (CATALINA, BIG SUR, M1
SUPPORTED)

MINIMUM SYSTEM REQUIREMENTS

INTEL I3 / AMD RYZEN OR EQUIVALENT
2 GB RAM / 300 MB HD
SCREEN RESOLUTION: 1024 768
VST3, AU, OR AAX 64-BIT HOST

INSTALLATION ON WINDOWS

- EXTRACT FIRECHILD-WIN.ZIP AND
RUN FIRECHILD-WIN.EXE
- FOLLOW THE INSTRUCTIONS
TO INSTALL THE PLUG-IN(S)

INSTALLATION ON OSX

- DOWNLOAD THE FIRECHILD.PKG FILE
- DOUBLE CLICK ON THE PACKAGE
ZIP AND CLICK OPEN
- FOLLOW THE INSTRUCTIONS TO
INSTALL THE PLUG-IN(S)

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