

# **Martin Eastwood Audio**

**Compressive user manual  
v1.0**

**Compressive is a suite of professional quality audio compressors written in a combination of C++ and assembly for maximum CPU efficiency.**

**Compressive Pro is an external side chain vintage analog modeled RMS compressor. The external side contains a 3-band EQ and mid/side controls to allow complete control of audio dynamics.**

**Compressive Lite uses the same algorithms as Compressive Pro but has a reduced feature for minimum CPU usage.**





## KeyFeatures

- Short attack and release times
- Frequency dependent compression
- External side chain
- Mid/side processing
- Adjustable knee
- Analog tube/valve modeling
- Makeup gain
- Dry/wet mix to allow parallel compression
- 64 Bit Internal Processing
- Low CPU usage
- No latency

## Controls

**Threshold** – controls the audio level at which the compressor is activated. Responds to MIDI CC message 71.

**Ratio** – the amount of compression applied to audio above the threshold value. Responds to MIDI CC message 70.

**Attack** – the length of time the audio signal is required to be above the threshold before the compressor is activated. Responds to MIDI CC message 72.

**Release** – the length of time the compressor remains active once the audio level has dropped below the threshold. Responds to MIDI CC message 73.

**Knee** – smoothes the transition around the threshold from uncompressed to compressed audio

**Low gain** – modifies low frequencies in the side chain by  $\pm 20$  dB. Note, the EQ only acts upon the audio passing through the side chain and, therefore, does not directly affect the output.

**Mid gain** – modifies mid frequencies in the side chain by  $\pm 20$  dB. Note, the EQ only acts upon the audio passing through the side chain and, therefore, does not directly affect the output.

**High gain** – modifies high frequencies in the side chain by  $\pm 20$  dB. Note, the EQ only acts upon the audio passing through the side chain and, therefore, does not directly affect the output.



## Controls

Monitor – listen to either the output of the compressor or the side chain itself

Side Chain Input – choose whether the left, right or stereo input of the compressor is used as the side chain.

Side Chain – set the side chain to the audio input or external input.

Valve – the virtual analogue modeling can provide a more natural, realistic warmth to digital audio. Compressive Pro comes with two different models, soft and dirty.

Makeup Gain – extreme levels of compression can reduce the level of the audio output , therefore, the makeup gain can be used to automatically modify the output to help normalize it to the level of the input.

Dry/Wet Mix – controls the level of the original input and the compressed output to allow parallel compression.

Master – modify the level of the output by  $\pm 20$  dB.  
Responds to MIDI CC message 74.

Mid/Side – controls the level of the left/right channels of the audio field. This can be used to isolate specific instruments, such as the kick drum or high hats.

## Datasheet

**Threshold: -50 – 0 dB**

**Ratio: 1:1 – 20:1**

**Attack: 1ms – 1000 ms**

**Release: 1ms – 1000 ms**

**Gain: -20 – 20dB**

**Knee: Hard to soft (0 – 100%)**

**Equalizer: +/-20dB 0 – 800 Hz**

**+/-20dB 800 – 5000 Hz**

**+/-20dB 5000 – 24000 Hz**

**Processing: 64 Bit Floating Point**

**Latency: 0**

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