

ECHOLON AUDIO

CLIP

Oversampled Clipper / Loudness — User Manual



The CLIP interface. Hover any knob, menu or button in the plugin for a quick tip; this manual covers every control in full.

CLIP is an oversampled clipper and loudness tool. Drive the signal into Hard, Soft, Cubic or Sine clipping against a safety Ceiling, with up to 16× oversampling to keep aliasing down and a parallel Mix for transparent loudness. The transfer curve shows exactly what the clipper is doing; Delta auditions what it shaved off.

Global & Header Controls

Control	What it does
Auto Gain	Loudness-matches the clipped signal back to the input (slow RMS, bounded to -36 dB, frozen on silence), so Drive reads as density rather than level.
True Peak	Honours the Ceiling at inter-sample resolution and removes the base-rate re-clip, so the oversampling stays clean. Adds a short, host-compensated lookahead.
Delta	Solo what the clipper shaved off (wet – dry).
Matched Bypass	Bypass compares at equal loudness — no louder-is-better trick.
Bypass	Bypass the whole plugin to compare against the dry signal.
Preset	Choose a factory preset from the menu, or step through the bank with the arrows. The dot lights when you have changed something since the recall.
Curve view	The actual transfer function of the current Style, Knee, Drive, Ceiling and Mix, with a dot riding it at your current input peak.
Wave view	Six seconds of history: input envelope behind, output in front, and the part the clipper shaved off in ember.
Readouts	Short-term loudness in and out, the difference in LU, the measured output true peak in dBTP, how much the clipper is shaving, and how much the True-Peak stage is limiting.

Controls

Clipping

The core clipper controls. The transfer curve shows exactly how the signal is shaped.

Control	Range	What it does
Drive	0 ... 36 dB	Input gain into the clipper. More drive = harder clipping = louder and denser.
Ceiling	-24 ... 0 dB	Maximum output level — the clipping threshold. Nothing exceeds it.
Mix	0 ... 100%	Dry/wet blend for parallel clipping.
Output	-12 ... +12 dB	Final output trim to match levels against bypass.
Style	Hard / Soft / Cubic / Sine	Clipping curve — Hard is brickwall, Soft is tanh, Cubic and Sine are smoother shapes.
Knee	0 ... 100%	Rounds the corner of whichever Style is selected. 0% is the classic curve; 100% turns Hard into a full soft clip.

Control	Range	What it does
Oversample	1× ... 16×	Internal oversampling to reduce aliasing from clipping. Higher = cleaner, more CPU.
OS Mode	Min Phase / Linear	Min Phase is the low-latency oversampler. Linear is a linear-phase FIR for mastering: no phase smear, more CPU, and about 48 samples of reported latency. Linear runs at 8× maximum — 16× sounds identical and costs twice as much.

Echelon Audio · CLIP · double-click any knob to reset it to default.