
FOR IMMEDIATE RELEASE

Black Ion 76 1.0.0

FET limiting amplifier for Windows — introductory price \$29 until August 31

NASHUA, New Hampshire, USA — August 14, 2026 — CarbonDSP has released **Black Ion 76 1.0.0**, a faithful FET limiting amplifier, available as a VST3 plugin and standalone application for Windows.

Black Ion 76 reproduces the classic '76 input-driven compression character around a bespoke nonlinear FET gain element, then adds the controls that class of hardware never had. Ratio emerges from real feedback loop gain the way the original circuit does, rather than from a feed-forward approximation, and that behaviour is held to a validated reference by an automated parity check on every build.

The FET stage is nonlinear and second-harmonic dominant, with total harmonic distortion rising from 0.2% to 5% as drive and gain reduction increase, so the colour arrives as a consequence of pushing it rather than from a fixed saturation stage. Four discrete ratios — 4:1, 8:1, 12:1 and 20:1 — are joined by All-Buttons-In, with a continuous blend between the single-ratio and all-buttons response.

Its metering is measured rather than illustrated. The IronScope hero drives four live bands: the input, the gain reduction hanging down from the top in the direction the compressor physically works, the output with a phosphor trail, and an inset plotting the real transfer curve with a live operating-point dot. As the input is driven harder the waveform itself climbs from dull ember to white-hot, keyed to the measured drive heat of the FET stage.

KEY FEATURES

- **True feedback topology** — ratio from real loop gain, modelled against a validated reference and checked for parity on every build
 - **Nonlinear FET grit stage** — second-harmonic dominant, 0.2% to 5% THD with increasing drive
 - **Four discrete ratios plus All-Buttons-In** — with a continuous blend between the two responses
 - **Modern additions the hardware lacked** — sidechain high-pass, Comp Mix parallel compression with no routing, post HPF/LPF, Auto Makeup and an Iron transformer-drive control
 - **Oversampling from 1x to 16x**, defaulting to 2x, at about 1.0% of one CPU core per instance
 - **Stereo, Dual-Mono and Mid-Side detection**
 - **128 factory presets** across seven categories, each re-derived by measuring real program material rather than set by ear
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PRICING AND AVAILABILITY

Black Ion 76 1.0.0 is available now from www.carbondsp.com at an introductory price of \$29 (regular price \$59) until August 31, 2026.

A demo version is available with no account required, and is fully functional for 7 days from first load. Buying installs the full version over the trial, so presets and projects made during the trial carry over.

SYSTEM REQUIREMENTS

Formats	VST3, Standalone application
System	Windows 10 or 11, 64-bit (code signed)
CPU	AVX2 required (Intel Haswell 2013+ / AMD Excavator 2015+)
Latency	None at 1x; oversampling adds its own, reported to the host
Host	Any VST3-compatible DAW, or standalone

macOS and Audio Units are not available in this release.

LINKS

Product page	https://www.carbondsp.com/plugins/black-ion-76
All plugins	https://www.carbondsp.com/plugins
Press kit	https://www.carbondsp.com/press

PRESS ASSETS

Product images are available on request from **info@carbondsp.com**, and the current press kit is at **www.carbondsp.com/press**.

ABOUT CARBONDSP

CarbonDSP develops unique instruments and effects with the belief that anything is possible with a little imagination and a lot of real-world measurements. CarbonDSP is based in Nashua, New Hampshire.

More information: www.carbondsp.com

PRESS CONTACT

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