EMBER ELEMENT 33

User manual · v0.1.0

Color preamplifier with saturation, three-band EQ, parallel mixing and GLOW finish with dynamic acute protection.



macOS 12+, Apple Silicon and Intel. AU, VST3 and application.

Scope of this version

Original model inspired by valves, not measured hardware emulation. Auto Level approaches gain, without limiting or normalizing LUFS.

Capture the implemented editor; it's not a capture of Logic.

Operating guide

EMBER ELEMENT 33 - 0.1.0 BETA Valve Preamp & Tone

Installation in the MAC

1. Lock down Logic, Studio One or another DAW.

2. Double-click EMBER-ELEMENT-33-0.1.0-macOS-Universal.pkg.

3. Following the macOS assistant. You'll be asking for administrator permissions for the shared folders of plugins.

4. Open your DAW and look for EMBER ELEMENT 33 from the Element 33 manufacturer. Logic uses Audio Units. Studio One can use AU or VST3. If it doesn't show up, browse the plugins again from your DAW options.

You don't need to copy any components by hand. Requirements: macOS 12 or later, Apple Silicon or 64-bit Intel.

This installer is not signed with Developer ID or notarized by Apple. If macOS blocks its opening, use the authorization option that macOS shows for this package in System Settings > Privacy and Security. Do not disable the global protections of macOS. Binaries have local ad hoc signatures; that's not the same as Developer ID signatures.

INSTALL PATHS — Audio Unit: /Library/Audio/Plug-Ins/Components/EMBER ELEMENT 33.component. VST3: /Library/Audio/Plug-Ins/VST3/EMBER ELEMENT 33.vst3. Application: /Applications/EMBER ELEMENT 33.app

EMPEZAR - Drive: saturation circuit intensity. - Open > Pressed: model saturation margin and degree. - Body / Presence / Air: three-band EQ, with selectable frequencies. - EQ PRE: EQ feeds the circuit. EQ POST: the EQ moulds its result. - Preamp Mix: mixing the preamp with the original signal. - GLOW ON: activating the final finish after Mix. - Glow: air enhancement, harmonic excitation and dynamic protection of acids. - Silk/Shine: adjusting the character of the enhancement. - Heat Focus: tilt before saturation and subsequent compensation.

- GLOW Protection: dynamic attenuation intensity of three bands. - Auto Level: approximate level compensation, with adjustment of 0.6 seconds. Freeze retains the compensation it has received. It is not a limiter or a standardiser LUFS. CLIP alerts if the output exceeds 0 dBFS; it does not limit audio. - Bypass: original signal, aligned with the plugin latency. - A/B compares two settings during the session; DAW keeps the setting active. - Double click on a beam: default value. You can write the number.

- The over-sampling is fixed at 4x. The latency reported to DAW is 6 samples.

Monitor SPECTRUM: entry in blue and exit in amber, FFT 2048 samples with Hann window. The spectrum represents the monkey sum L+R/2. Off-phase signals can be visually cancelled even if they exist on stereo channels. The left scale is dBFS of width per bin; it is not a LUFS or PSD measurement. The clear discontinuous curve represents exclusively the three-band linear EQ, with its own +/-12 dB scale to the right. Outside that range it's cutting visually. The curve does not predict distortion: its harmonics and the GLOW effect are observed

in the output spectrum while audio is running. WAVE: last 2048 input and output samples. Peaks outside +/-1 are cut only in the drawing; output audio is not limited. HOLD freezes the monitor, without stopping or modifying the audio.

Pass the cursor over the spectrum to read Hz and approximate input/output levels. PROTECT shows the greatest instantaneous reduction between the protective bands.

Original design inspired by valve preamplifiers; not a measured emulation of a REDD.47. GLOW uses filters, excitation and three dynamic bands; it does not copy the proprietary algorithms of soothe or Fresh Air. The graph and the meters correspond to actually processed signals. The included capture uses a synthetic test signal, not a musical recording. The interface has a fixed size of 1280 x 900; it requires sufficient screen space. Presets are starting points and may require adjusting Output.

The ZIP of fonts includes the CMake project, tests and a copy of the JUCE used. EMBER fonts are delivered under AGPL-3.0-or-later in this beta. The dependencies keep their licenses and notices included.