ATLAS EQ

User manual · v0.1.0

Modular EQ with five character modules, 24 precision bands, module dynamics, spectral processing and comparison tools.



macOS 11+, Apple Silicon and Intel. AU, VST3 and application.

Scope of this version

Beta; all 24 accuracy bands are static. Advanced phase modes and hardware fidelity validation are missing. The advanced models don't describe this whole delivery.

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

Operating guide

ATLAS EQ 0.1.0 - functional beta of the audio

Open ATLAS-EQ-0.1.0-macOS-Universal.pkg and follow the macOS installer. Close your DAW before you install. Then reopen it and update your list of plugins. Formats: Audio Unit, VST3 and independent application. macOS 11 or later. Universal binaries are arm64 + x86_64. Running tests performed on Apple Silicon; the Intel part is verified structurally, without testing on a physical Intel machine. Local installer without Developer ID signature or notarization from Apple. You don't need to compile the code to use the binaries included.

It doesn't include Windows or AAX. It doesn't automatically install when generating this package.

AU: /Library/Audio/Plug-Ins/Components/ATLAS EQ.component VST3: /Library/Audio /Plug-In/VST3/ATLAS eQ.vst3 App: /Applications/NATURA Audio/ATLas eQ.app Documentation: /Libry/Application Support/NATURAL Audio/ATIAS eQ You can uninstall by deleting only those elements.

First use The default response is flat and Drive/Exciter is zero. Up Gain or Drive to hear the character. "Original" adjusts the frequencies to the historical positions contemplated by the model; "Extended" allows continuous adjustment. The five modules are proprietary designs inspired by EQ families, without manufacturer endorsement or comparative measurements against physical equipment.

Controls foundation: severe highlighting, overlapping attenuation, frequency and drive. BODY: wide bell, frequency, Q and Drive with asymmetry. FOCUS: parameter bell, frequency, Q, Drive and E/G behavior. EDGE: Bell with Q proportional to gain and Drive. SKY: air shelf, frequency up to 40 kHz, excitation and reduction of harshness. Curve and Color are controlled by Gain/Q and Drive/Exciter respectively; there are no two additional controls called Curve/Color in this implementation.

Click the module name or its node to open the inspector. The Threshold, Dyn Range, Attack and Release parameters control dynamic reduction. Transient and Sustain modify how much the EQ acts on attack and sustain. Stereo/Left/Right/Mid/Side determines the channel of each module. Lock prevents editing that module in the interface and excludes it from Morph, Match and Reset. The automation of the DAW can change the blocked parameters. Module Only allows only the selected module and the precision EQ to pass.

Listen isolates your region with a listening filter. Also disable Module Solo to re-listen to the entire string. Delta is playing less original processed. Ext SC uses the DAW sidechain if connected; otherwise it uses the internal signal.

DISPLAY AND ZOOM Drag the slider under the display to vary its height. Expand or double-click the display to expand/restore the display. Wheel: horizontal zoom centered on the cursor. Cmd + wheel: vertical scale. Shift + drag: select zoom region. Fit/ Reset restores full view. The dB menu only changes the graphical scale, not the audio gain. Freeze freezes the analyzer. Spectrogram displays/hides your history. EQ dB and Spectrum dBFS have different scales, identified on the graph.

Alt + double click adds one of the 24 available precision bands. Drag your purple square knot to change frequency and gain. Right-click on a purple node: filter type or turn off band. After selecting the band, Alt + wheel modifies Q. Sketch allows drawing: Drag into the graph to add bands in the free spaces (up to 24). Its filters add up; the stroke is not an exact mathematical fit. Disable Sketch before you re-edit nodes.

Type: Bell, Low/High Shelf, High/Low Pass, Notch and Band Pass, all second-rate. The 24 precision bands are static; the dynamics correspond to the five modules.

Spectral Dynamics activates bin FFT reduction within the Spectral Setup range. Adjust Max Reduction, Threshold, Low and High; in this beta the spectral detector is internal. The STFT engine remains active to maintain constant latency when spectral reduction is on. The host receives total latency, including over-sampling. Reference WAV loads a WAV/AIFF/FLAC reference and averages its first 30 seconds. EQ Match proposes five gain adjustments limited to +/-6 dB; needs audio

The test results are reproduced in the analyzer. It's not an automatic precision correction. Resonance Assist proposes a frequency and dynamic reduction. Listen to the result with Listen/Delta and use Undo to discard it. Assist Setup adjusts sensitivity and limit.

Capture A/B keeps two states; A or B retrieves one. Morph's intercepting both states. The discrete controls (type/route/activated) change midway. Save/Load save/open presets .atlas with snapshots. The DAW also keeps the state. Undo/Redo and History allow for reversal of parameters changes. Instances lists the ATLAS instances of the same process and allows alternating bypasses. It does not allow control of other plugins or instances in isolated DAW processes.

Auto Gain approaches short-term energy clearing; it is not a LUFS standardisation. Output changes the final level. Bypass retains the timeline. Peak hold and 4x TP est are peak held up to Reset Peaks; TP is an over-sampled estimate, not a certified meter. Corr shows stereo correlation by block.

REAL ALCANCE AND PENDIENTES This is an installable functional beta, not the final delivery of all the functions requested. See FEATURE-MATRIX.txt. It does not yet have Zero Latency, Natural Phase with third-party technology or Linear Phase modes; independent dynamic slings in the 24 precise bands, continuous filter slings, high-resolution EQ Match, full multi-instance management and external spectrum between instances. No parity with FabFilter Pro-Q 4 or identical hardware emulation is claimed.

The native design adapts the model; dimensions, textures and some controls differ.

At 44.1/48 kHz there is no actual output at 40 kHz: the nominal frequency of SKY models a broad curve whose audible effect extends to lower frequencies. 4x over-sampling is used internally and does not extend the bandwidth of the output file. No human listening session or validation has been conducted within each commercial DAW.

ZIP code includes sources, tests and JUCE 8.0.12 for compilation without downloading the dependency. License for this distribution: AGPL-3.0-only; license texts included. The names of equipment in the documentation identify design references.