Waves Audio Curves Equator



Although studio and music production technology has seen extreme progress over the last 30 years, major EQ innovations have been limited. With its upcoming Curves Spectral Series, Waves Audio, a developer of professional audio signal processing technologies and plugins, is introducing a more accurate, powerful, intelligent, and efficient solution for tedious EQ tasks. Waves is now shipping the Curves Equator plugin, the first in a series of three new plugins presenting an evolution in EQ technology.

Curves Equator is an advanced, next-generation resonance suppression plugin offering groundbreaking frequency unmasking. By using the main knob to bring down the “Equator line,” the plugin immediately improves any vocal, instrument, sample track or full mix with targeted, artifact-free linear-phase filtering to remove problematic frequencies, fix resonances, balance inconsistencies or adjust frequencies within overlapping sounds, so that each sound can be heard more clearly.

What sets Equator apart is its “Learn” function, which listens to your audio and creates a personalized suppression curve. Most other available resonance-targeting

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solutions are one-size-fits-all, processing sound via a generic average curve, often harming the unique sound you've created. By "Learning" the audio, Equator gives users a customized processing curve, protecting against anomalies and imbalances while never overprocessing.

Furthermore, by using "Learn" to capture a healthy part of a mix or track as a template, Equator can then process the rest of the signal to match it. Users can even choose their "flavor of balance" with the Shape & Tilt controls, which adjust the processing target according to taste.

"Learning" via a sidechain can create truly magical results in a mix, with sources no longer clashing in the same frequencies. For example, if the vocals are the most important element in the mix, users can "SC Learn" the vocal curve and apply its inverse shape on an instrument bus to carve perfect space for both, statically or dynamically.

Many sources have issues that are not immediately apparent due to a user's room acoustics, speaker quality, or masking by other instruments. These "hidden" issues can now be resolved by using the "Equator line" in the plugin's user-friendly GUI. By simply lowering the "Equator line," you can achieve a sonic effect similar to lifting a blanket off the mix, resulting in a clearer sound. With Equator, users get a "self-driving" EQ that delivers perfect balance and zero resonance, ensuring every element of a mix is in its rightful place.

Conventional resonance suppression, or dynamic EQ can quickly kill the overall feel and energy of a mix by overprocessing the problem areas. Waves Curves Equator addresses this issue with its "Auto Makeup Gain" feature (that can be toggled on/off). This unique featur adaptively adjusts energy and frequency in real time using dynamic makeup gain. It matches the perceived output loudness to the input RMS (Root Mean Square, representing the average power or loudness of an audio signal over time), by boosting the level of the frequencies not attenuated and maintaining the same energy. This ensures that any reduced energy is compensated for, keeping the master output unchanged. Additionally, three adjustable crossovers and 8 nodes provide extra control over Equator's resonance targeting and processing.

Curves Equator Features:

- Immediate fix for resonance, mud, harshness, imbalance & tonal inconsistency on ANY source
- "Learn" feature provides a personalized suppression curve
- "Learn via SC" offers perfect frequency unmasking and carving
- Linear Phase filters, transparent sound, no artifacts
- Efficient & user-friendly GUI
- Auto-makeup gain matches the input RMS, no loss of energy
- Safeguard to ensure users never overprocess
- Pulls the blanket off a mix and hear it open beautifully

- Shape and tilt adjust the target suppression curve for tonal control
- Additional control with three adjustable crossovers and 8 nodes

Waves Curves Equator is available as a single plugin, in the Waves Mercury bundle. It has also been added to the Waves Ultimate plugin subscription, which includes all 230+ Waves plugins as monthly or annual subscriptions.

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