

TP-1 Tone Purifier

User Manual | Version 1.0.3

Thank you for choosing the TP-1 Tone Purifier.

TP-1 is an all-in-one cleanup and EQ tool designed for source preparation in the pre-mix stage. It combines noise reduction, resonance peak smoothing, a 4-band EQ and a spectrum analyzer inside a single window, so you can quickly tame unwanted components in any source — guitars, vocals, drums, dialogue, and more.

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1. System Requirements & Installation

Item	Value
Supported OS	Windows 11 or later / macOS 13 (Ventura) or later
Supported Format	VST3 (Windows / macOS) / Audio Unit (macOS only) / 64-bit

Installation Steps

- Double-click the downloaded installer (.exe) to launch it.
- Accept the license agreement (English or Japanese) and follow the on-screen instructions.
- After installation, restart your DAW and rescan plugins so TP-1 appears in your plugin list.

2. License Activation

To unlock the full features, activation with a serial key is required. Until the plugin is activated, the Noise Reduction and Resonance Suppression effects are capped at 50% of their full range.

Activation Steps

- When the plugin is launched, the serial key input dialog appears automatically.
- Enter the serial key provided upon purchase (e.g., **TP1ABCD12345678**).
- Click **Unlock**. After the key is verified with the server over the internet, the "DEMO" indicator in the header disappears.
- The lock overlays on the knobs are released immediately, and the knobs run across the full 0–100% range.

If activation fails:

- "Invalid Serial" → Re-check the spelling, hyphens, and letter case of the key.
- "Server Connection Failed" → Check your internet connection and make sure HTTPS traffic to **aideaudio.com** is permitted by your firewall.
- "Activation limit reached" → Your registered device count has hit the limit. Remove unused devices from the user dashboard, then try again.
- If none of the above resolves the issue, contact **support@aideaudio.com** with your serial key attached.

3. Interface Overview

The TP-1 window is arranged in three main areas, top to bottom: the analyzer, the EQ overlay, and the bottom control panel.

Area	Location	Contents
Analyzer	Large central region	Real-time input spectrum (cyan) / output spectrum (orange), EQ curve with 4 handles, frequency and dB scales.
EQ Handles	4 handles on the analyzer	Drag to adjust frequency and gain of each EQ band simultaneously.
LEARN / DELTA	Left side of the bottom panel	Noise profile learning button / monitor only the removed components.
REDUCTION Panel	Right side of the bottom panel	NOISE knob, RESONANCE knob, and their ON/OFF toggles.

4. Using the Main Features

4.1 NOISE Reduction

Using the noise floor captured by LEARN as a reference, TP-1 naturally reduces background noise while preserving the actual musical signal.

- **NOISE knob (0–100%)**: Reduction amount. Start low and find the smallest value at which the noise becomes inaudible.
- **ON/OFF toggle**: Click the **NOISE** button below the knob to enable or disable the module.

4.2 LEARN Button (Noise Profile Learning)

- Click the **LEARN** button once to start learning.
- Play a section that contains **as much noise-only audio as possible**.
- When learning finishes, the LEARN button fades to cyan and this profile is used for all subsequent NOISE processing.
- The learned profile is saved with your DAW project, so you do not need to re-learn after reopening the project.

Is it OK if real signal leaks in during LEARN? TP-1 uses statistical indicators to automatically distinguish dynamic components (real signal) from stationary noise, so a small amount of bleed will not cause over-reduction. That said, letting LEARN run on a purely silent section yields the most accurate profile.

4.3 DELTA Mode (Monitor the Removed Components)

- Clicking the **DELTA** button switches to a mode where you only hear **what is being removed**.
- Use this mode to verify whether too much of the real signal is being cut, or whether necessary harmonics are being removed.

- Rule of thumb: If you only hear a faint "sss" or hiss in DELTA mode you are good. If you hear transients or musical overtones of the real signal, lower NOISE.
- Click DELTA again to return to the normal mode.

4.4 RESONANCE (Spectral Smoothing)

A mode that automatically tames unwanted resonance peaks in the source via frequency-domain smoothing. Effective against feedback-prone live recordings, cheap microphone coloration and harsh overtones on guitars.

- **RESONANCE knob (0–100%)**: Smoothing intensity.
- **Character**: Narrow peaks (high-Q resonances) are flattened first. Broad peaks (low-Q musical tones) are protected.
- **ON/OFF toggle**: Click the **RESONANCE** label below the knob to enable or disable the module.

4.5 4-Band EQ

A 4-band parametric EQ for tonal correction after the noise removal stage. Drag any of the four handles on the analyzer, or click a handle to open its detail panel.

Band	Type	Frequency	Gain	Q
Band 1	HPF / Peak (switchable)	20 Hz – 20 kHz	–18 – +18 dB	0.1 – 10
Band 2	Peak (fixed)	20 Hz – 20 kHz	–18 – +18 dB	0.1 – 10
Band 3	Peak (fixed)	20 Hz – 20 kHz	–18 – +18 dB	0.1 – 10
Band 4	LPF / Peak (switchable)	20 Hz – 20 kHz	–18 – +18 dB	0.1 – 10

- **Handle drag**: Horizontal movement controls frequency, vertical controls gain, both at the same time.
- **Mouse wheel**: Scroll over a handle to adjust Q.
- **Double-click**: Toggle the band ON/OFF.
- **Power icon**: Toggle each band individually ON/OFF.
- **Band 1 / Band 4 type switch**: Right-click the handle, or use the detail panel, to switch between HPF (LPF) and Peak.

4.6 Spectrum Analyzer

- **Cyan line**: Input signal spectrum (pre-processing).
- **Orange line**: Output signal spectrum (after NR + EQ + RESONANCE).
- Overlaying the two lets you see at a glance which bands have changed, and by how much.
- The display uses a logarithmic scale from 20 Hz to 20 kHz. The vertical axis is dB (0 dB reference at the center, ± 18 dB range).

5. Support & License

Redistribution or sharing of this plugin is strictly prohibited.

For license management, bug reports, or general support, please visit the AIDE AUDIO User Dashboard or the Support Page (<https://aideaudio.com/support>).