

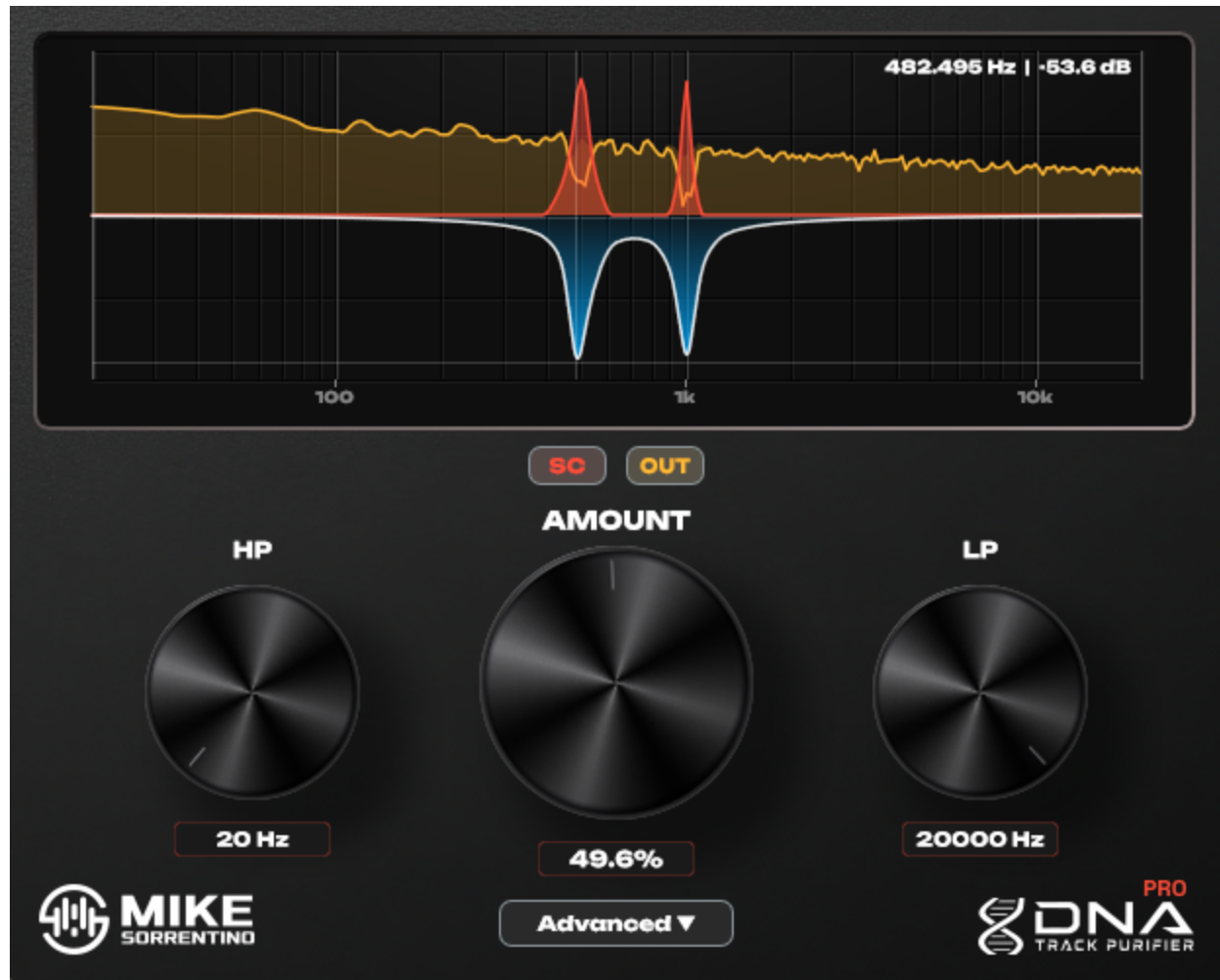


USER INSTRUCTION MANUAL

Advanced Dynamic Unmasking Processor

1. INTRODUCTION & CORE TECHNOLOGY

Welcome to **DNA Track Purifier Pro**, an ultra-precision, low-latency dynamic processor designed to surgically eliminate frequency masking and acoustic clutter in real-time, making room for competing mix elements.



How It Works

Unlike traditional static equalizers or broadband sidechain compressors, DNA Track Purifier utilizes a high-definition **State-Variable Time-Preserving (TPT) filter network** processing. The plugin monitors your external sidechain input, maps its spectral intensity across surgical full-spectrum bands, and applies target suppression directly to the main input (dry) track.

By using a proprietary subtraction system instead of traditional bell-filter curves, the dynamic cuts are incredibly tight, keeping the surrounding frequency material intact and completely free of phase cancellation or unnatural artifacts.

2. THE INTERACTIVE SPECTRUM VISUALIZER

The top half of the interface features a real-time, high-density analyzer window that provides instant visual feedback of the clean sidechain signal, the processed output, and the dynamic EQ curve.

The Dual-Ratio dB Scale (Split Y-Axis)

To maximize detail where it matters most, the visualizer uses a split vertical coordinate system centered around the **0dB line**:

- **Top Half (0dB to +12dB):** Displays positive values (wet curves, sidechain peak levels) using a detailed linear-to-logarithmic mapping.
- **Bottom Half (0dB to -60dB):** Displays dynamic cuts.

Hover Crosshairs

When you move your mouse over the analyzer, a subtle white crosshair will appear.

- **X-Axis:** Shows the absolute logarithmic frequency (Hz or kHz) at the cursor tip.
- **Y-Axis:** Shows the decibel level (dB).

3. CONTROLS

Main Panel

The main control section shows 3 main knobs:

- **AMOUNT (0% to 100%):** Controls the depth of the purification effect. At 0%, the plugin is fully transparent. At 100%, the dynamic suppression is at its maximum, driven by the incoming sidechain amplitude.
- **HP (High-Pass Gate / 20 Hz to 20,000 Hz):** Determines the lower limit of the purification zone. Frequencies below this setting are completely bypassed by the detection engine, leaving your sub-bass or low-mids completely unaffected.
- **LP (Low-Pass Gate / 20 Hz to 20,000 Hz):** Determines the upper limit of the purification zone. Frequencies above this setting are completely bypassed. This is perfect for isolating dynamic cuts to specific frequency pockets (e.g., isolating a vocal's mid-range masking without affecting the high-end air).

Advanced Panel

Click the **[Advanced ▼]** button to expand the plugin window downwards.



The exposed controls work as follows:

- **LOOKAHEAD (Off, 1.5 ms, 5 ms, 10 ms):** Introduces a microscopic buffer to the sidechain signal. This allows the processor to "foresee" incoming transient spikes and engage *before* the transient hits, eliminating initial clicks or transient bleeding (ideal for instance when sidechaining transient-rich materials like a kick drum).
- **ATTACK (1 ms to 500 ms):** Controls how quickly the dynamic filters react and apply the cut once sidechain masking is detected. Fast attack times (1–20 ms) are ideal for percussion and transient-rich material; slower attack times (20–100 ms) yield smooth, transparent results on vocals and pads.
- **RELEASE (1 ms to 500 ms):** Controls the recovery speed of the filters back to 0dB once the sidechain signal stops.
- **PAN or M/S switch:** Switches the DSP processing between standard **Left/Right** stereo mode and **Mid/Side** mode. In Mid/Side mode, you can surgically clean up masking in the center image (like kick/bass collisions) while keeping your wide stereo effects intact.
- **PAN or M/S knob:** Balances the processing depth between the Left/Right or Mid/Side channels.

5. SIDECHAIN ROUTING GUIDE

To use DNA Track Purifier, you must feed it an external sidechain signal. Please refer to your DAW's own documentation, as these may vary over time.

6. HIDDEN CONTEXT MENU

Clicking directly on the **Mike Sorrentino logo** reveals a hidden utility menu designed for quick access to essential system shortcuts and plugin management tools. This streamlined overlay keeps administrative features tucked away so your workspace remains entirely focused on your mix. From this menu, you can access this User Manual, view your exact software version and build details, access direct support links.

7. UPDATES

Muse Hub will notify you when a new version of DNA Track Purifier is available.

A special note from Mike

Thank you for using this software. I hope it helps you craft the perfect sound easily, quickly and effectively. If you have any recommendations or suggestions to improve it, feel free to email me at info@mike-sorrentino.com

Enjoy!