



USER MANUAL

Mixbus saturator & dynamics spatial
processor

1. OVERVIEW

Tensor Field is an all-in-one mixbus and mastering processor engineered to pull raw, detached tracks into a dense, wide, cohesive record. Combining dynamic equalization, psychoacoustic midside stereo expansion, multiband saturation, and a broadcast-grade True Peak limiter, it delivers commercial loudness, analog weight, and spatial depth in a single intuitive interface.

2. QUICK-START GUIDE: THE 60-SECOND MASTER

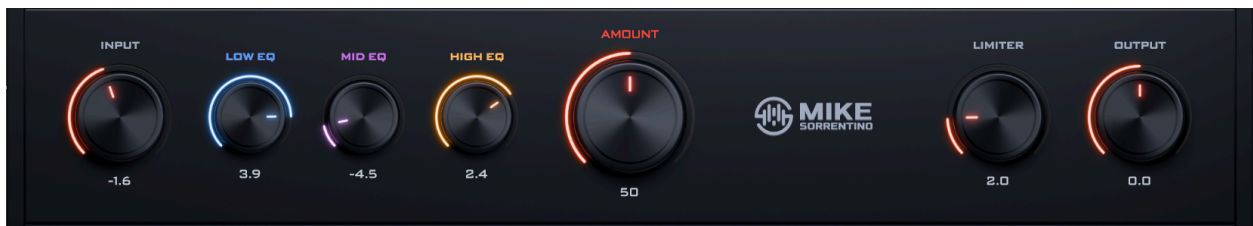
If you want immediate results on your mixbus, follow this baseline workflow:

1. Insert Tensor Field on your master channel.
2. Play or loop the loudest part in your track and watch the accretion disk visualizer or target meters.
3. Set your Input level so that the bands approach their ideal target. Each band will illuminate and start spinning more quickly when near the ideal level, but will turn red and spin very quickly if the ideal level is exceeded.
4. Select your Character Mode using the 3-position switch:
 - a. Pulsar for sub-bass punch and weight (Hip-Hop, Trap, EDM)
 - b. Quasar for thick vocal glue and midrange body (Pop, Rock, R&B)
 - c. Neutron for open air, shimmer, and transient bite (Acoustic, Jazz, Modern Pop).
5. Adjust the AMOUNT knob to your desired level. At higher amounts you will hear the mix expand in width, the low end tighten, and the midrange come forward.
6. Fine-tune the three EQ knobs (LOW EQ, MID EQ, HIGH EQ) to balance the tonality to your taste using the visualizer as reference.
7. Push LIMITER by +1 to +2dB until the Integrated LUFS readout hits your delivery target (e.g.: -14LUFS for streaming, -9 to -7LUFS for club/commercial masters).

3. d-eCAR TECHNOLOGY

At the heart of Tensor Field lies d-eCAR (Dual-Envelope Crest Adaptive Release), an advanced dynamics architecture that allows Tensor Field to maximize program loudness while minimizing pumping, intermodulation distortion and audible artifacts.

4. FRONT PANEL CONTROLS



INPUT (-12 to +12 dB): Pre-processing gain trim. Pushing input drives deeper into the internal saturation and d-eCAR dynamic stages without adjusting your DAW faders.

LOW EQ, MID EQ, HIGH EQ (-6 to +6 dB): Dynamic offset shelves that fine-tune tonal balance on top of the AMOUNT macro.

AMOUNT (0 to 100%): The core control of the processor. It determines the level of applied Tensor Field saturation, dynamics, and spatial depth processing.

RULE OF THUMB:

20% – 40%: Subtle, transparent finishing glue for acoustic, jazz, or gentle vocal mixes.

40% – 60%: The sweet spot for modern pop, rock, and commercial streaming masters.

60% – 90%: Aggressive weight, hyper-wide imaging, and thick tape/tube-style saturation for heavy electronic, rock, and hip-hop.

LIMITER (0 to 12 dB): Drives level into the 4x-oversampled linear-phase True Peak brickwall limiter, utilizing a 1 ms peak-hold lookahead buffer to transparently catch inter-sample peaks without modulation splatter.

OUTPUT (-12 to +12 dB): Master ceiling trim.

5. CHARACTER MODE SWITCH



This 3-position horizontal slide switch selects the harmonic saturation topology and drive distribution

PULSAR

Low-End Dominant, Symmetrical Saturation.

Best For Hip-Hop, Trap, EDM, Drum & Bass. Drives sub-bass and kick drums for massive low-end weight without clouding the midrange.

QUASAR — Default

Profile Mid-Forward, Asymmetrical Even-Order Harmonics.

Best For Pop, Rock, Indie, Modern Metal, R&B. Delivers analog tapetube-style cohesion, pushing lead vocals and snares forward in the soundstage.

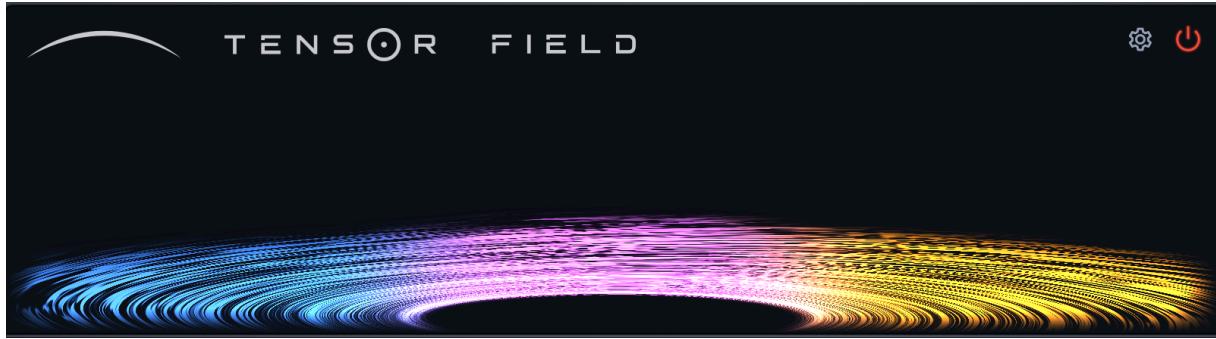
NEUTRON

Profile High-Frequency Biased, Fast Transient Recovery.

Best For Acoustic, Jazz, Ballads, Dark Mixes. Injects smooth, open air and clarity without harsh sibilance.

6. MONITORING & VISUAL TELEMETRY

THE ACCRETION DISK VISUALIZER



The central display renders a real-time Keplerian black hole accretion disk mapped directly to your mix's energy:

Left Side (Blue) Sub & Bass

Middle Disk (Violet) Midrange Body

Right Side (Amber) High Air

Note: Frequency bands **turning toward red** indicate excessive energy in that band. Review your mix's gain staging and/or use the **LOW EQ, MID EQ, HIGH EQ** controls to adjust the balance.

PRECISION BROADCAST LOUDNESS METRICS

Momentary LUFS:	-6.5 LUFS
Short-Term LUFS:	-6.5 LUFS
Integrated LUFS:	-6.5 LUFS
Dynamic Range:	1.7 LU
Max True Peak:	-0.1 dBFS

Tensor Field features Precision Broadcast Loudness (using the ITU-R BS.1770-4 / EBU R128 algorithm) metrics.

Momentary LUFS (400 ms window).

Short-Term LUFS (3 s window).

Integrated LUFS (Gated calculation): The official full-program loudness metric used by Spotify, Apple Music, YouTube, and broadcast television.

Dynamic Range (LRA): Shows the loudness variation across the track in Loudness Units (LU).

Max True Peak: Displays the highest 4x-oversampled inter-sample peak detected.

Interactive Reset: Click any loudness value at any time to instantly flush the calculation history and reset your meters.

THE COCKPIT (LOWER DECK)



Beside the Character Mode Switch and the Precision Broadcast Loudness metrics are **two stereo track meters** side-by-side **IN** and **OUT** and a **dual spectrum analyzer**.

7. SUGGESTED WORKFLOW

MIXING INTO TENSOR FIELD

For maximum efficiency, insert Tensor Field on your master bus early in the production. Balancing tracks against the plugin's gravity reduces the need for extensive processing across individual channels.

8. UTILITIES & PREFERENCES



Settings Menu (**Cogwheel Icon**):

1. About Window
2. User Manual
3. Interface Size presets (50% to 200% zoom);
4. Visualizer Graphics
 - a. Basic Meters
 - b. Accretion Disk (default view)
 - c. Combined overlay

Master Bypass (**Power Icon**): Bypasses all processing.

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