

GrandGate

Guitar noise management processor

VERSION 1.0 | ENGLISH



Noise Suppressor | Soft | Tight | Hard | Tail

Zero latency. Designed for guitar monitoring, recording and high-gain signal paths.

1. Overview

GrandGate combines a learned Noise Suppressor with three fundamentally different gate algorithms. The modules solve different problems instead of forcing one conventional gate to do everything.

SIGNAL FLOW

NOISE SUPPRESSOR > SOFT > TIGHT > HARD

- Use only the modules you actually need.
- Recommended position: before amp sim or distortion.
- All processing is zero-latency.

2. Quick Start

1

Place GrandGate before the amp sim.

2

If constant noise, hum or EMI is present, capture a Noise Profile.

3

Raise Reduction only as far as needed.

4

Choose one gate: Soft for natural decay, Tight for rhythm, Hard for the fastest close.

5

Set gate threshold while actually playing.

3. Interface



- Noise Suppressor - Reduction amount and Noise Profile learning.
- Gate A / Soft - natural low-level control without chopping note tails.
- Gate B / Tight - focused rhythm gating.
- Gate C / Hard - fastest, hardest closing behaviour.
- Tail - final closing shaper for Tight and Hard only.

4. Noise Suppressor

Adaptive learned noise reduction

Noise Suppressor is designed for the constant component of the noise: pickup hum, EMI, signal-path noise, stable whistles and broadband background. It does not simply mute the input between notes.

REDUCTION

Controls how strongly the learned profile is applied. Start low and raise it until the noise stops being a problem.

- Maximum is not automatically better.
- High-gain distortion can magnify very weak EMI dramatically, so judge the result through the real amp chain.

5. Noise Profile

To learn the noise, stop playing and leave the rig in the same state in which you are going to play. Start Noise Profile and let GrandGate hear only the background noise. When learning is complete the profile becomes Locked.

- Do not hit strings while learning.
- Relearn after changing guitar, pickup, pre-GG gain or the noise source.
- Changing an amp sim after GrandGate normally does not require relearning.
- Right-click the profile area for LOAD PROFILE, SAVE PROFILE and CLEAR PROFILE.

6. Gate A - Soft

Natural decay

Soft is the most natural gate algorithm in GrandGate. Its defining behaviour is that it does not chop note tails. It keeps following the low-level decay instead of suddenly closing like a conventional gate.

- Best for lead, clean, crunch, sustain and dynamic playing.
- At extreme settings Soft may reduce some top end.
- This is the main trade-off at the limit - not shortened note tails.

7. Tight & Hard

TIGHT

Focused rhythm gate for high-gain riffs, palm-mutes and stop/start playing.

HARD

The fastest and hardest closing algorithm for extreme high gain and deliberately abrupt gating.

- Both can shorten quiet note endings when threshold is pushed too high.
- If the gate feels right but the last part of closing is too abrupt, use Tail before weakening the threshold.

8. Tail

Final closing shaper for Tight and Hard

Tail affects Gate B / Tight and Gate C / Hard only. It softens the final low-level stage of closing so that the last residual part of a note does not disappear too abruptly.

RANGE: 0 - 1000 ms | DEFAULT: 85 ms

Higher values make the final stage longer and softer. Tail does not generate sustain or add signal that is not present at the input.

- 50-100 ms is a useful starting area for tight high-gain rhythm.
- Turn Tail off for the hardest possible stop/start response.
- Soft does not use Tail because Soft already preserves natural note decay.

9. Placement

GUITAR > GRANDGATE > PEDALS / AMP SIM > CAB / FX

GrandGate is especially effective before high gain because the unwanted component is reduced before distortion multiplies it. A weak narrow EMI tone on DI can become a loud whistle and harmonic package after the amp.

- Keep the profile representative of the actual pre-GG rig.

10. Typical Scenarios

NOISY SINGLE COILS + HIGH GAIN

Noise Profile > Reduction > Soft or Tight only if needed.

HIGH-GAIN RHYTHM

Noise Suppressor + Tight. Add Tail if the last closing stage is too sharp.

LEAD / LONG SUSTAIN

Noise Suppressor + Soft, or Noise Suppressor alone.

EXTREME STOP/START

Noise Suppressor + Hard, Tail off or short.

EMI / STABLE WHISTLE

Learn the actual noise with strings silent, then judge through the amp sim.

11. Profiles & Workflow

Noise profiles can be saved for stable instrument and room combinations. This is useful when the same guitar, pickup and workstation regularly produce the same noise signature.

- Example names: Strat Neck, Strat Bridge, Humbucker, Studio, Live Rig.
- If the noise source changes, create a new profile instead of forcing the old one harder.

12. License & Activation

One GrandGate license allows up to three simultaneously activated computers. Press **ACTIVATE** in the top bar, enter the license key and wait for confirmation from the ZeroFX license server.

- After activation, the top button shows **LICENSED**. Open it again: the activation window shows **DEACTIVATE**.
- **DEACTIVATE** contacts the server, releases only this computer's activation slot, and then removes the local license state.
- If the server cannot be reached, the machine stays activated and the slot is not lost.
- A machine is identified from the Windows MachineGuid, hashed locally before it is sent. Reinstalling the plug-in or changing DAW does not consume another slot.
- Reinstalling Windows can create a new MachineGuid. Deactivate before reinstalling when possible. If a machine is lost, contact support for an activation reset.

13. Quick Reference

Noise Suppressor Learned constant-noise reduction

Noise Profile Capture noise while not playing

Soft Natural decay, tails preserved; extreme settings may reduce top end

Tight Focused rhythm gate

Hard Fastest and hardest close

Tail 0-1000 ms; Tight & Hard only; default 85 ms

License 3 computers; server-side DEACTIVATE frees one slot

Latency 0 samples algorithmic latency

Placement Before amp sim