

tammo manual

Effect, resonance control · version 0.14.6

Softens harsh resonances only where and when they appear.



What it does

tammo finds the resonances that stick out of the spectrum (whistles, nasal tones, sibilance, boom) and turns them down only at the moment and at the frequency where they appear. Everything else passes untouched. Use it on vocals, guitars, drum buses, synths and, gently, on the master.

tammo finds the resonances that stick out of the spectrum (whistles, nasal tones, sibilance, boom) and turns them down only at the moment and frequency they appear. The rest of the sound is left alone. Before 19 October 2026 it was called RESONANCE; sessions and presets made with the old name open as before.

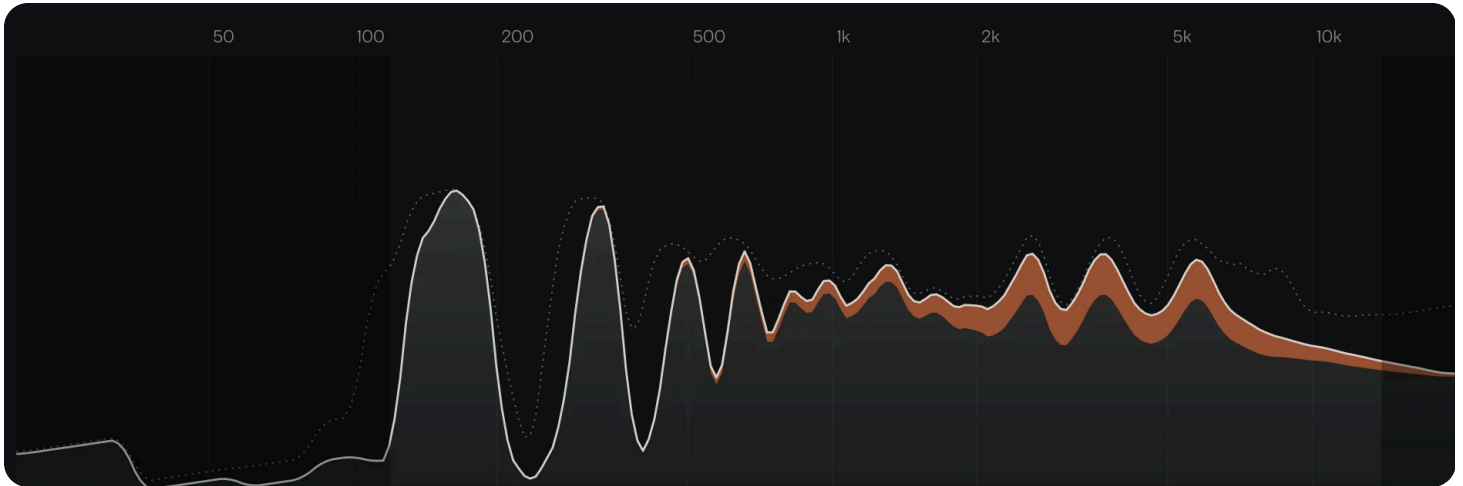
- Spectrum and reduction in one display: you see what is taken out, and where.
- Up to eight sensitivity points, with Low and High range flags.
- Delta plays only what is removed. A zero-latency mode for tracking.

Quick start

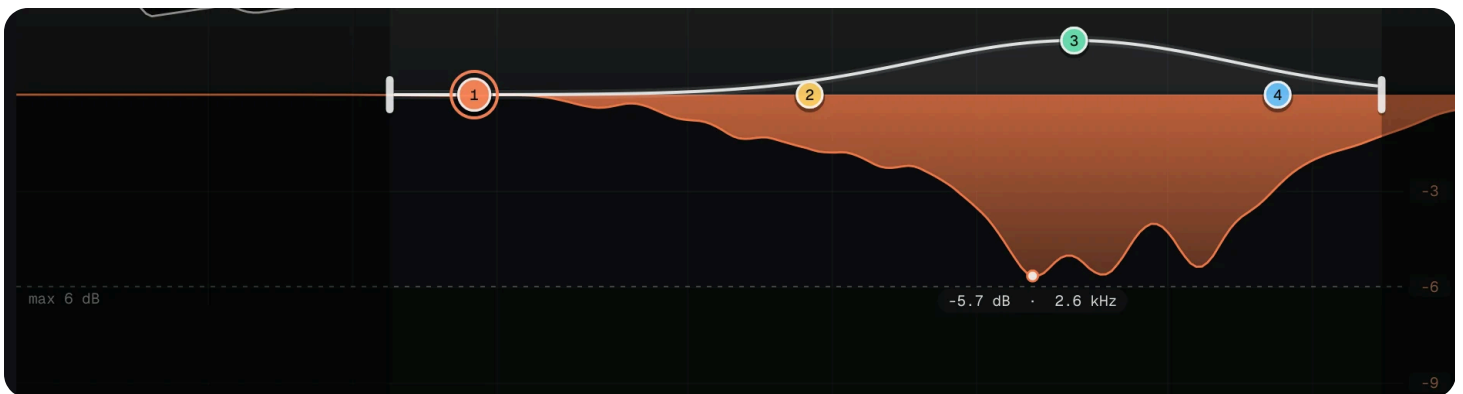
- 1 Put tammo on the track. Pick a preset from its category (for example *Vocals*, *Vocal silk*) or start from the default state.
- 2 Raise **Depth** until the harshness calms down. Switch the listen selector to **delta** to hear only what is being taken out.
- 3 If it works too low or too high, drag the **Low** and **High** flags on the display to narrow the range.

The display

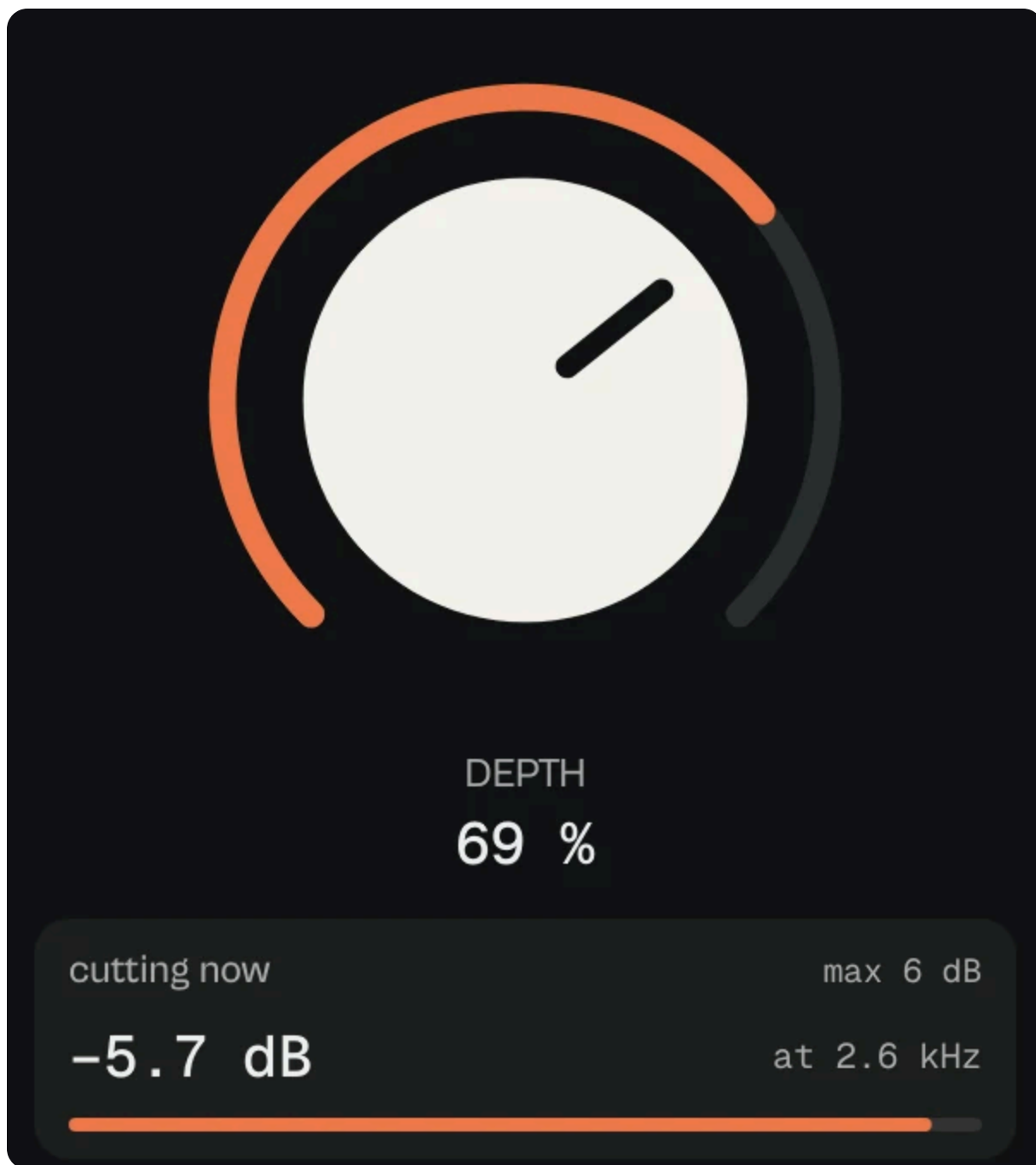
The top half is the measured spectrum, tilted +3 dB per octave the way you hear it; the dotted line holds recent peaks and orange shows what is removed. The bottom half is the reduction, hanging from the 0 dB line, never deeper than **Max cut**. The cut scale picks itself (3, 6, 12, 24 or 36 dB); click the scale to fix it. Under the pointer a caption gives frequency and cut at that point. The numbered points 1 to 8 are sensitivity bands: drag sideways for frequency, up and down for sensitivity (-12 to +12 dB on the display, ± 18 dB on the band knob), Ctrl+drag for Q, double-click a point to switch it on or off, double-click the line to add one, right-click for its shape.



Spectrum on top. The top part is the measured spectrum, tilted +3 dB per octave the way you hear it. A dotted line holds the recent peaks and orange marks what is being taken out. Double-click a peak to give it a band of its own.



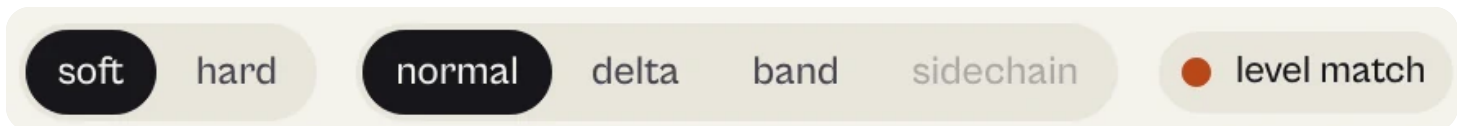
The cut hangs below. The reduction hangs from the 0 dB line and the label marks the deepest cut of the moment; it never goes past max cut. The numbered points set the sensitivity: drag sideways for frequency, up and down for more or less. The two flags limit the range.



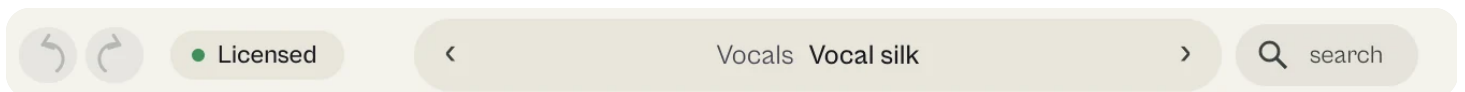
Depth first. Depth sets how much is taken out. Under it, cutting now reads the deepest cut at this moment, its frequency and a bar against max cut.



Detail, max cut, speed. detail goes from wide, soft cuts to narrow, decisive ones. max cut is the deepest cut allowed: at 0 dB nothing is cut. attack and release, in the Full view, set how fast the cut follows.



Soft or hard, what you hear. Soft follows the programme; hard is firmer, for sibilance and fixed resonances. normal, delta, band and sidechain choose what you hear: delta is only what is removed, band one band alone. level match keeps the loudness equal while you compare. advanced, in the footer, opens detection, range, band, stereo and engine, core and learn.



Presets, undo, licence and search. Undo and redo, separately for A and B. The chip next to them shows the licence (trial days left, licensed or trial ended); click it for the licence sheet. The arrows step through the 63 presets and a dot says the sound was changed. The pill or search opens the preset sheet with categories, favourites and tags; in B loads a preset into the other slot to compare.

Every picture on this page is a capture of the real interface, from the current build.

Controls

The names are the ones your DAW shows for automation, read from the plugin itself; ranges and defaults are the plugin's own. Every knob: drag (Shift for fine), wheel for small steps, double-click for the default, Enter or a click on

the value to type it with units (`6k3` , `250ms` , `-3 dB`).

Main controls

Control	Range	Default	What it does
Depth	0 % to 100 %	51 %	How much is taken out. The hero control.
Detail	0 % to 100 %	50 %	One control for Sharpness and Selectivity together: left, wide and soft cuts; right, narrow and decisive ones.
Detail tilt	-100 % to 100 %	0 %	Tilts Detail between lows and highs.
Sharpness	0 % to 100 %	50 %	Width of each cut (also inside Detail).
Selectivity	0 % to 100 %	60 %	How far a resonance must stick out before it is treated (also inside Detail).
Max cut	0 dB to 24 dB	6 dB	The deepest cut allowed. At 0 dB tammo cuts nothing: the output is the input, only delayed by the latency.
Attack	1 ms to 200 ms	10 ms	How fast a cut starts.
Release	20 ms to 2000 ms	150 ms	How fast a cut lets go. Raise it for a steadier cut in the lows.
Timing tilt	-100 % to 100 %	0 %	Makes attack and release faster in the highs or in the lows.
Mode	Soft · Hard	Soft	Soft follows the programme; Hard is firmer, for sibilance and fixed resonances.
Mix	0 % to 100 %	100 %	Blend with the dry signal. At 0 % the output equals the input.
Wet trim	-12 dB to 12 dB	0 dB	Level of the treated signal.
Level match	Off · On	On	Slowly makes up the level that was removed, for honest comparisons.
Domain	L / R · M / S	L / R	Work on left/right or on mid/side.
Stereo link	0 % to 100 %	100 %	How much the two channels decide together.
Low limit	20 Hz to 20 kHz	450 Hz	Bottom of the working range (the Low flag).
High limit	20 Hz to 20 kHz	16 kHz	Top of the working range (the High flag).

Control	Range	Default	What it does
Low limit slope	Soft · 6 dB/oct · 12 dB/oct · 24 dB/oct · 48 dB/oct	12 dB/oct	How steep the low edge is; Soft is a one-octave fade.
High limit slope	Soft · 6 dB/oct · 12 dB/oct · 24 dB/oct · 48 dB/oct	12 dB/oct	How steep the high edge is.
Listen	Normal · Delta · Band isolated · Sidechain	Normal	What you hear: Normal, Delta (only what is removed), Band isolated (one band alone) or Sidechain.
Latency	Linear phase · Low latency · Minimum phase	Minimum phase	Minimum phase (default), Linear phase or Low latency (0 samples, for recording and live).
Quality	Eco · Standard · High	Standard	Eco, Standard or High: a shorter analysis step for slightly cleaner transients, at about twice the processing.
Offline quality	Follow live · Eco · Standard · High	Follow live	The quality used when you render or bounce.
Detector	v0.7 · v0.8	v0.8	v0.8 for new instances; v0.7 keeps the sound of presets and sessions made before.
External sidechain	Off · On	Off	Lets the DAW's sidechain input drive the detector.
Output gain	-18 dB to 18 dB	0 dB	Final level.

Every parameter (96)

Numbered parameters are grouped in one row (for example Band 1-8), with the number of copies.

Parameter	Range	Default
Depth	0 % to 100 %	51 %
Sharpness	0 % to 100 %	50 %
Selectivity	0 % to 100 %	60 %
Attack	1 ms to 200 ms	10 ms
Release	20 ms to 2000 ms	150 ms
Mix	0 % to 100 %	100 %
Wet trim	-12 dB to 12 dB	0 dB

Parameter	Range	Default
Input gain	-18 dB to 18 dB	0 dB
Stereo link	0 % to 100 %	100 %
Treatment balance	-100 to 100	0
Max cut	0 dB to 24 dB	6 dB
Low limit	20 Hz to 20 kHz	450 Hz
High limit	20 Hz to 20 kHz	16 kHz
Mode	Soft · Hard	Soft
Domain	L / R · M / S	L / R
External sidechain	Off · On	Off
Bypass	Off · On	Off
Quality	Eco · Standard · High	Standard
Offline quality	Follow live · Eco · Standard · High	Follow live
Listen	Normal · Delta · Band isolated · Sidechain	Normal
Selected band	1 to 8	1
Show spectra	Off · On	On
Band 1-8 frequency ×8	20 Hz to 20 kHz	Band 1: 180 Hz, Band 2: 900 Hz, Band 3: 5 kHz, Band 4: 8.5 kHz, Band 5: 120 Hz, Band 6: 600 Hz, Band 7: 2 kHz, Band 8: 6 kHz
Band 1-8 sensitivity ×8	-18 dB to 18 dB	Band 1: 0 dB, Band 2: 0 dB, Band 3: 6 dB, Band 4: 0 dB, Band 5: 0 dB, Band 6: 0 dB, Band 7: 0 dB, Band 8: 0 dB
Band 1-8 Q ×8	0.2 to 12	Band 1: 1, Band 2: 1, Band 3: 1, Band 4: 1, Band 5: 2, Band 6: 2, Band 7: 2, Band 8: 2
Band 1-8 type ×8	Bell · Low shelf · High shelf · Tilt · Band reject	Bell
Band 1-8 enabled ×8	Off · On	Band 1: On, Band 2: On, Band 3: On, Band 4: On, Band 5: Off, Band 6: Off, Band 7: Off, Band 8: Off
Band 1-8 balance ×8	-100 to 100	0
Output gain	-18 dB to 18 dB	0 dB

Parameter	Range	Default
DC cleanup	Off · On	Off
Engine core	Current · Research v0.7	Research v0.7
Core correction	0 % to 100 %	100 %
Core cutoff	0 % to 100 %	0 %
Level match	Off · On	On
Detail	0 % to 100 %	50 %
Detail tilt	-100 % to 100 %	0 %
Low limit slope	Soft · 6 dB/oct · 12 dB/oct · 24 dB/oct · 48 dB/oct	12 dB/oct
High limit slope	Soft · 6 dB/oct · 12 dB/oct · 24 dB/oct · 48 dB/oct	12 dB/oct
Timing tilt	-100 % to 100 %	0 %
Latency	Linear phase · Low latency · Minimum phase	Minimum phase
Release tilt	-100 % to 100 %	0 %
Detector	v0.7 · v0.8	v0.8
Band 1-8 band shelf ×8	Off · On	Off
Low limit Q	0.3 to 6	0.71
High limit Q	0.3 to 6	0.71
Low limit balance	-100 to 100	0
High limit balance	-100 to 100	0

Presets

63 presets in 8 categories. Each one works in a range, with a band raised on the problem, and none raises the volume.

General 4 Clean start	Vocals 15 Vocal silk, De-esser
Drums 8 Cymbal air, Drum punch	Bass & 808 7 Low-end tight, Bass control
Guitar & Instruments 12 Acoustic wood, Electric edge, Piano clarity	Synth 3
Mix & Master 8 Bus restraint, Master glue	Creative 5 External carve

Click the preset capsule in the top bar to open the **preset sheet**: search (every word must appear in the name, category or description), categories with their counts, ★ **Favourites**, tags on every row, and **in B**, which loads a preset into the slot that is not playing so you can compare. A click loads a preset and leaves the sheet open;   move,  loads and closes,  closes. The arrows < > beside the capsule step through the list; a dot says the sound was changed.

All 63 programs, as the DAW lists them

Clean start	Vocal detail
Vocal silk	Master polish
Sibilant focus	Vocal brilliance
Acoustic wood	Bass authority
Electric edge	Drum punch
Cymbal air	Electric focus
Low resonance	Velvet Vocal
Bus restraint	Soft Sibilance
External carve	Clear Cymbals
Vocal focus	Soft Guitar
De-esser	Even Bass
Drum attack	Low-Mid Cleanup
Piano clarity	Gentle Bus
Low-end tight	Selective Resonances
Master glue	Stereo Ambience
Bass control	Natural Vocal

Harsh Vocal

Nasal Vocal

Podcast Speech

Upfront Rap

Live Vocal Zero Latency

Acoustic No Boom

Distorted No Fizz

Piano No Harshness

Silky Strings

Soft Brass

Acoustic Soft Pick

Snare No Ring

Dry Kick

Shrill Cymbals

Open Overheads

808 No Boom

Tamed Saturated 808

Harsh Lead

Soft Pad

Resonant Synth

Vocal & Choir Bus

Drum Bus

Master Harsh Highs

Clean Low-Mid Mix

Soft Sides

Resonance Hunt

Vocal Space (sidechain)

Reverb De-ess (sidechain)

Extreme Flattening

Wide and Soft

Firm Treatment

A/B and undo

A and **B** hold two complete settings. **equal vol.** plays B at the loudness of A, so louder never fools you. **in B** in the preset sheet loads a preset straight into the other slot. Undo and redo (the curved arrows, **Ctrl** + **Z** and **Ctrl** + **Shift** + **Z**) are kept separately for A and B; switching slot is not a step.

Listen modes

The listen selector has **normal**, **delta** (only what tammo removes), **band** (the selected band alone) and **sidechain** (the signal driving the detector). **level match** sits beside it and keeps the loudness equal while you compare.

Simple, advanced and sizes

simple shows the display, Depth with *cutting now*, detail, max cut, soft/hard, the listen selector and level match. **advanced** opens a drawer from the footer with five tabs: *detection* (sharpness, selectivity, tilts, attack, release), *range* (low and high with their Q, slope and balance), *band* (the eight bands one by one), *stereo & engine* (link, L/R or M/S, sidechain, latency, quality, detector) and *core & learn* (Learn, offline quality, files, quality lock). The display stays visible above it; Esc closes it.

Pick a size with **S**, **M** and **L** in the top bar, or drag the window corner. A click on the status line zooms the contents from 75 to 200 %. The **help strip** in the footer describes the control under the pointer.



Essential (S), 640 × 400



Studio (M), 1000 × 640



Full (L), 1280 × 800

More features

Learn

Press **Learn** while the track plays: tammo listens, draws a resonance map and proposes up to four bands on what it found. *apply to B* puts the proposal in slot B so you can compare.

Latency and quality

Minimum phase: 2304 samples (48 ms at 48 kHz, Standard). Linear phase: 3328 samples (69 ms). Low latency: 0 samples, slightly less precise. Eco 53 ms, Standard 48 ms, High 45 ms in Minimum phase. The quality lock keeps quality and latency when you change preset.

Tips by genre

Vocals

Depth 30 to 50, Soft, Detail 50 to 60, range about 200 Hz to 12 kHz.

De-essing

Hard, range 4 to 11 kHz, Detail high. Or the preset *De-esser*.

Trap and drill

808 No Boom and *Tamed Saturated 808* calm a distorted 808 without touching its fundamental.

Mix bus and master

Depth low (15 to 30), Detail 40, Level match on. Compare against Max cut 0 dB, which is the untouched sound.

Recording and live

Latency Low latency (0 samples), or the preset *Live Vocal Zero Latency*.

CPU and latency

Latency

Minimum phase (default): 2304 samples, 48 ms at 48 kHz. Linear phase: 3328 samples, 69 ms. Low latency: 0 samples, for recording and live.

Quality

Eco, Standard (default) or High, from 53 to 45 ms in Minimum phase; High costs about twice the processing of Standard. A separate Offline quality applies to the render.

CPU

About 10 % of one core (Minimum phase, Standard).

CPU: one stereo instance at 48 kHz, 512-sample blocks, on a test signal, as a percent of one core of a recent desktop CPU. Indicative only: your system will differ.

Version and changes

This manual describes **tammo 0.14.6**. Updates never change how a saved session sounds: when the sound changes, it arrives as a new option or only in new instances.

Latest builds

0.14.6 2026-10-24 ["Its own product now: its licence, the Beat Kit's (KIZAMI, KITTO, TATAKIT, FUZZO, ASCENT) or ZOKKU All's unlocks it; old beta trials keep working. Sound and saved sessions unchanged."]

- 0.14.5** 2026-10-24 ['Activate online and Activate offline in the licence sheet activate ZOKKU All; a saved session stays byte for byte the same after it is reopened.']
- 0.14.4** 2026-10-24 ['A ZOKKU All licence unlocks it too; the free trial is the ZOKKU All one: 7 days, one trial for all eleven.']

Before

- 0.14** Revisited interface: simple/advanced drawer, help strip, preset sheet with categories, favourites, tags and in B.
- 0.13** New name, tammo (before: RESONANCE). Sessions and presets open as before.
Common to every plugin: windows, presets, keyboard and typed values.

