USER MANUAL

T SOUND MAN

T-Sound Dynamic EQ

VST3 / AU plug-in · Windows · Mac

An 8-band EQ where **every band can cut or boost by itself, following the level in its own range** (dynamic EQ). It only works when the problem happens, such as harshness on loud notes, sharp "s" sounds or boom when the singer is close to the mic, so a normal take is not thinned the way a static EQ cut would thin it. It runs as VST3 / AU and Standalone on Windows and Mac and **adds no latency at all (0 samples)**, so it is safe on stage monitors.



The plug-in (VOCAL LIVE preset)

Install

- **Windows:** download **TSoundDynamicEQ-1.2.0-Windows-Setup.exe** and double-click it. It puts **T-Sound Dynamic EQ.vst3** in **C:\Program Files\Common Files\VST3** (close your DAW first).
- **Mac:** download **TSoundDynamicEQ-1.2.0-macOS-Installer.pkg** and double-click it. It installs both the VST3 and the AU (Logic / GarageBand) in one go. The package is notarized by Apple, so no Terminal step is needed.
- **.zip files**, if you prefer to copy by hand: put the **.vst3** in the VST3 folder above (Mac: **/Library/Audio/Plug-Ins/VST3/**) and the **.component** in **/Library/Audio/Plug-Ins/Components/**.
- Rescan plug-ins in your DAW (or Signal Rack). It is listed under **EQ** by **T Sound Man**.

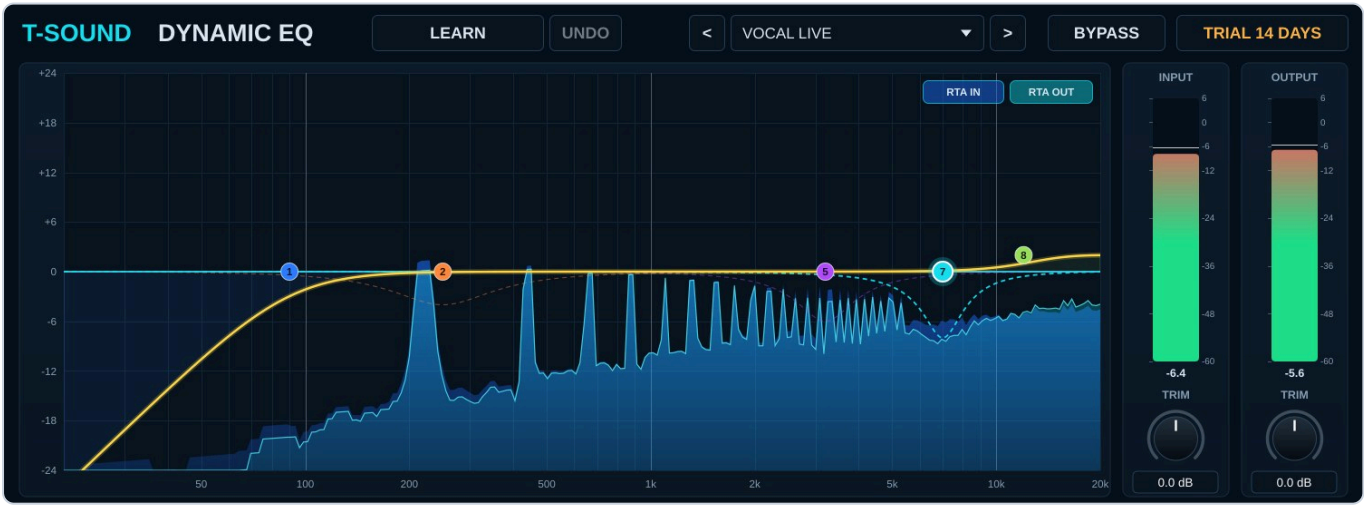
Quick start

1. Insert the plug-in on the vocal channel (before or after the compressor).
2. Choose the **VOCAL LIVE** preset (the default) from the box at the top, or step with **< >**.
3. Have the singer perform the loudest part and press **LEARN**. The plug-in listens for 8 seconds and sets the **THRESHOLD** of every dynamic band.
4. Watch the orange bar in the **LEVEL / THR** meter (bottom right) and the yellow curve in the graph. On loud notes a band should cut a few dB; on normal singing it should hardly move.
5. If it does too little or too much, adjust that band's **THRESHOLD**, or press **UNDO** to go back to the thresholds from before LEARN.

Top row

- **LEARN** — listens to the real signal for 8 seconds (only while the overall level is above -60 dBFS), then sets the THRESHOLD of every band with **DYN** on from the levels that band saw: an Above band so that roughly the loudest 15 % gets cut, a Below band at the quiet 25 % mark. The button shows a percentage while listening; **NO SIGNAL** means nothing is coming in yet. Press it again to cancel.
- **UNDO** — restores the thresholds from before the last LEARN.
- **Preset** — pick from the list, or step with **< >**. At the end of the list, **PASTE EQ FROM SYSTEM CHECK** loads the EQ T-Sound System Check suggests (press COPY AS TEXT on its EQ page first) as static bells, up to 8 bands.
- **BYPASS** — switches the processing off, with a crossfade so there is no click.
- **TRIAL / LICENSED badge** (top right) — trial days left; click it to enter a licence key.

Graph and meters



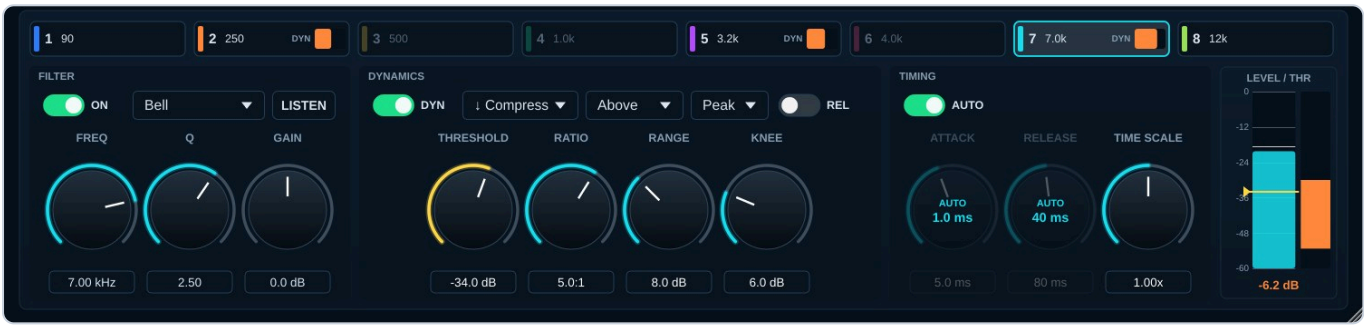
EQ graph with RTA and the INPUT / OUTPUT meters

- **White curve** = the static EQ you set, **yellow curve** = the EQ working right now (including the dynamic part), **dashed band-coloured curves** = how far each band can cut or boost (RANGE).

- **Blue fill** = RTA of the input (**RTA IN**), **cyan line** = RTA of the output (**RTA OUT**); switch them with the buttons at the top right of the graph. The RTA is tilted +3 dB/oct so pink noise reads flat, and it only runs while the plug-in window is open.
- **Drag a point** = FREQ and GAIN, **mouse wheel** over a point = Q, **double-click a point** = GAIN back to 0 dB, **double-click empty space** = switch on a new band there.
- **Alt-click and hold** a point to listen to that band's range for a moment; release to go back.
- **INPUT / OUTPUT** — level meters, with a **TRIM** knob under each (-24 to +24 dB).

Band tabs 1–8

The row of tabs above the controls shows every band's frequency. Bands that are off are dimmed, and an orange **DYN** mark means the band is dynamic. Click a tab to edit that band below.



The controls of the selected band

FILTER

- **ON** — switches the band on or off.
- **SHAPE** — Bell, Low Shelf, High Shelf, Low Cut, High Cut (the cuts are 12 dB/oct and always static).
- **LISTEN** — solo the band's range: Bell = band-pass, Low Shelf / Low Cut = low-pass, High Shelf / High Cut = high-pass. Use it to find the problem frequency. It crossfades in 20 ms (no click) and is not saved with the session.
- **FREQ** 20 Hz–20 kHz, **Q** 0.1–18, **GAIN** -24 to +24 dB — the normal EQ (GAIN is the starting point before the dynamic part).

DYNAMICS

- **DYN** — switches the dynamic part on. Off = a plain EQ band.
- **↓ Compress / ↑ Expand** — cut the band down or push it up.
- **Above / Below** — act when the level in the band is **above** or **below** the threshold.
- **Peak / RMS** — Peak reacts to short transients (good for "s" sounds), RMS follows the average level (good for boom or a build-up).
- **REL** — compares the band with the **overall level** instead of its absolute level. A threshold of -10 dB means "this band is louder than the overall level minus 10 dB", so the band follows the tonal balance whether the singer is loud or soft (it does nothing while the overall level is below -70 dBFS).

- **THRESHOLD** -80 to 0 dB — where it starts. You can also drag the yellow line in the LEVEL / THR meter.
- **RATIO** 1:1 to 20:1 — 4:1 means the gain moves 0.75 dB for every 1 dB over the threshold.
- **RANGE** 0–24 dB — the most it will cut or boost.
- **KNEE** 0–24 dB — how softly it starts around the threshold.

TIMING

- **AUTO** — sets attack and release from the band's frequency: attack about 2 cycles (1–40 ms), release about 20 cycles (40–300 ms). Low bands are slower so they do not distort.
- **ATTACK** 0.1–200 ms, **RELEASE** 5–2000 ms — used when AUTO is off.
- **TIME SCALE** 0.25x–4x — makes the AUTO times faster or slower (the de-esser uses 0.7x).

LEVEL / THR

The meter of the selected band: **coloured bar** = the level the band sees, **yellow line** = the threshold (drag it), **orange bar** = cutting, **green bar** = boosting. The number underneath is the dB it is cutting or boosting right now.



SPEECH / PODIUM: band 5 as Expand / Below lifts presence when the talker is quiet

Presets

- **VOCAL LIVE** — 90 Hz low cut, control of boom at 250 Hz, harshness at 3.2 kHz and "s" sounds at 7 kHz, plus a little air on top.
- **DE-ESSER** — cuts "s" sounds at 6.5 kHz with Peak detection and fast timing.
- **PROXIMITY CONTROL** — a 180 Hz low shelf that holds back boom when the singer gets close.
- **SPEECH / PODIUM** — for talkers: controls boom, lifts 3 kHz presence when the voice gets quiet, cuts "s" sounds.
- **ACOUSTIC GUITAR** — controls body boom at 200 Hz and pick noise at 2.5 kHz.
- **KICK TIGHTEN** — pushes the 60 Hz thump on each hit and controls the 380 Hz box.
- **MIX BUS POLISH** — gentle control of the lows and 3 kHz, and a little more air when the mix gets loud.
- **FLAT / INIT** — start from scratch.

Tips

- Start from the nearest preset and press **LEARN** during the soundcheck, so the thresholds fit the real mic and voice.
- Use **LISTEN** to find the harsh frequency first, then switch on **DYN** for that band.
- Not sure which band is working? Compare the **yellow curve** with the white one: where they part is where a band is cutting or boosting.
- Resize the window by dragging the bottom-right corner; everything is drawn in code and stays sharp at any size.

Licence and trial

Every feature works for a 14-day trial. When the trial ends without activation, the plug-in passes audio through untouched (like BYPASS), so a show never loses its sound. Buy a licence at tsoundman.com, click the **TRIAL** badge at the top right, enter the licence key (it starts with FK2-) and press **Activate**.

If activation fails

- The key window has **Paste code from clipboard** (pastes the key you copied) and **Load key file…** (picks a .txt file containing the key). Both work even in hosts that block Ctrl+V / Cmd+V or right-click paste inside plug-ins.
- Spaces or odd characters that come along with a key from LINE or e-mail are removed for you, and the result message always appears on top, never hidden behind the host window.
- **No licence code** — the key box is empty. Copy the key again and press **Paste code from clipboard**, or save the key in a text file and use **Load key file…**
- **Could not connect to the licence server** — check that the computer is online, then try again.
- **Invalid licence code** — the key must start with FK2- and must belong to this product (keys do not work across products). If it still fails, send a screenshot on LINE and we will check it or issue a new key.