OFFICIAL USER GUIDE · WINDOWS 10 / 11 (x64)



Take the bass off the wall.
It's time to actually play.

Your complete guide to BAS-SEN 1.0: 100% offline Rust / WASM DSP & AI bass separation with kick drum preservation, high-visibility 21-fret E A D G neck, DJ-style beat-jump loops, and continuous USB audio interface pitch detection.

DSP & AI separation · 100% offline | Kick drum save (Kick ✓) | Always-on Detector & Record mode | DJ Loop Jump (Loop or 1-32 beats)

01

INSTALLATION, HARDWARE SETUP & LICENSE UNLOCK

Getting Started & Activating Full Mode

System Requirements & Setup

- **OS:** Windows 10 (1809+) or Windows 11 `x64` with standard Microsoft Edge WebView2 Runtime.
- **USB audio interface:** live bass tuning and note capture require a USB audio or guitar interface with a **Hi-Z / INST** input (such as Arturia MiniFuse, Focusrite Scarlett, or equivalent).
- **User-space installer:** run `BAS-SEN-0.1.0-x64-setup.exe` (no admin rights needed). If Windows SmartScreen appears on first run, click **More info -> Run anyway**.
- **100% offline privacy:** DSP separation, pitch-locked tempo scaling, practice logs, and `.bassen` projects stay entirely on your local drive.

Free DEMO vs. Full License 1.0

- **Free DEMO:** test your USB interface and every studio feature with no day limit. Load tracks of any length - DEMO processes and plays the **first 30 seconds**, with `.bassen` saving and session history disabled.
- **Offline Ed25519 key:** after purchasing at `bas-sen.app`, your signed key (`BASSEN1...`) arrives by email. Click the top **DEMO** badge (or **Layout -> License key...**), paste the key, and click **Activate license**.
- **Instant unlock:** activation works 100% offline and immediately unlocks songs up to **12 minutes** (automatically expanding any song already loaded!), `.bassen` project exports, and 30-session Practice Log history.

1 · Top Toolbar

BAS-SEN emblem (resets to demo phrase with confirmation), + Files (or drag & drop onto the window), Save, Open, Edit, and Layout.

2 · Player & Detector

Play/Pause, seek bar, pitch-locked 50-125% Tempo with live BPM, always-on background Detector for instant tuning, and Log.

3 · 21-Fret Neck

Heavy-gauge E A D G strings, bold in-the-pocket active note marker with hit aura, Now / Next cards, and Look ahead (0.5-2.0 s).

4 · Tracks & Timeline

Phase-locked Backing, Bass, and Input lanes, quick transport with DJ loop jump buttons above, and Whole song overview below.

COMPLETE BAS-SEN STUDIO WORKSPACE AFTER OFFLINE BASS SEPARATION — E · A · D · G · 21 FRETS



02 AUDIO, MIDI, STEM ISOLATION & PRACTICE MIXER

Importing Songs, Offline Separation & Kick Save

Click **+ Files**, click the **Backing** or **Bass** track header directly, or drag and drop any audio, `.mid`, or `.bassen` file straight from Windows Explorer onto the BAS-SEN window.

PROJECT TRACK ROLE	SUPPORTED FORMATS	FULL LICENSE LIMIT (DEMO: 30 S)
Full song	`.wav`, `.mp3`, `.flac`, `.m4a`, `.ogg` (mono or stereo)	Up to **12 minutes** (`720 s`) & **540 MiB**
Backing without bass	`.wav`, `.mp3`, `.flac`, `.m4a`, `.ogg` (mono or stereo)	Up to **12 minutes** (`720 s`) & **540 MiB**
Bass WAV / MIDI	`.wav` (PCM / Float) or `.mid` / `.midi` (incl. **Suno AI** & DAW)	WAV: **12 min / 540 MiB** · MIDI: **12 min / 2 MB**

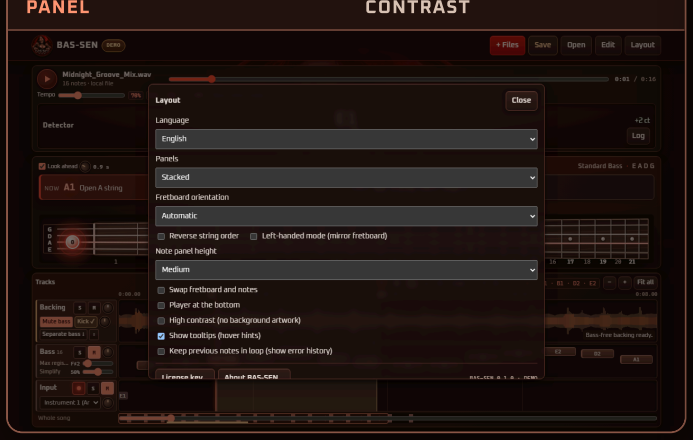
Separate bass ↓ & Kick Save

- **100% local stem split:** clicking **Separate bass ↓** produces a clean stereo bass-free backing, an isolated bass stem mapped onto the fretboard, and an isolated kick drum stem.
- **Built-in DSP or local AI:** the default Rust/WASM DSP engine works immediately with zero extra downloads; open ⋮ to optionally use local **AI · Demucs** weights.
- **Kick ✓ / Kick ×:** preserves punchy kick drum hits in your backing mix (reinforced with subtle second-harmonic clarity) while excluding drum transients from bass note transcription.

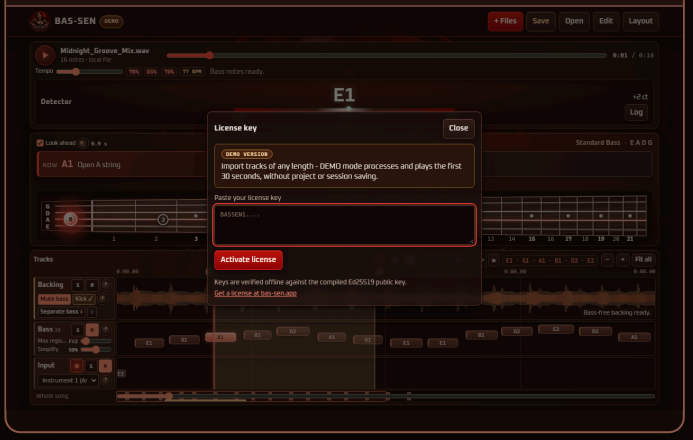
Mute Bass, Mixer & Suno MIDI

- **Mute bass vs. Reduce low end:** after separation, **Mute bass** removes the recorded bassline cleanly so you can lock in with the band (before separation it acts as **Reduce low end** EQ).
- **Solo (S), Mute (M) & Gain:** audition the isolated bass stem alone with **S**, mute with **M**, and trim levels from `-24 dB` to `+9 dB` (double-click any knob for `0 dB`).
- **Multi-track & Suno AI MIDI:** automatically merges General MIDI bass programs (`32-39` / `Bass`), skips drum channel `10`, and folds sub-bass notes into playable `E1-E4` range.

LAYOUT & NECK CUSTOMIZATION PANEL — EN / PL · LEFT-HANDED · CONTRAST



OFFLINE LICENSE KEY ACTIVATION — ED25519 · ZERO CLOUD DRM



03

864 MM SCALE NECK, PITCH-LOCKED TEMPO & DJ LOOPS

Virtual Fretboard, Right-Click STOP & DJ Loop Jumps

Bold Fretboard & 1-2-4 Fingering

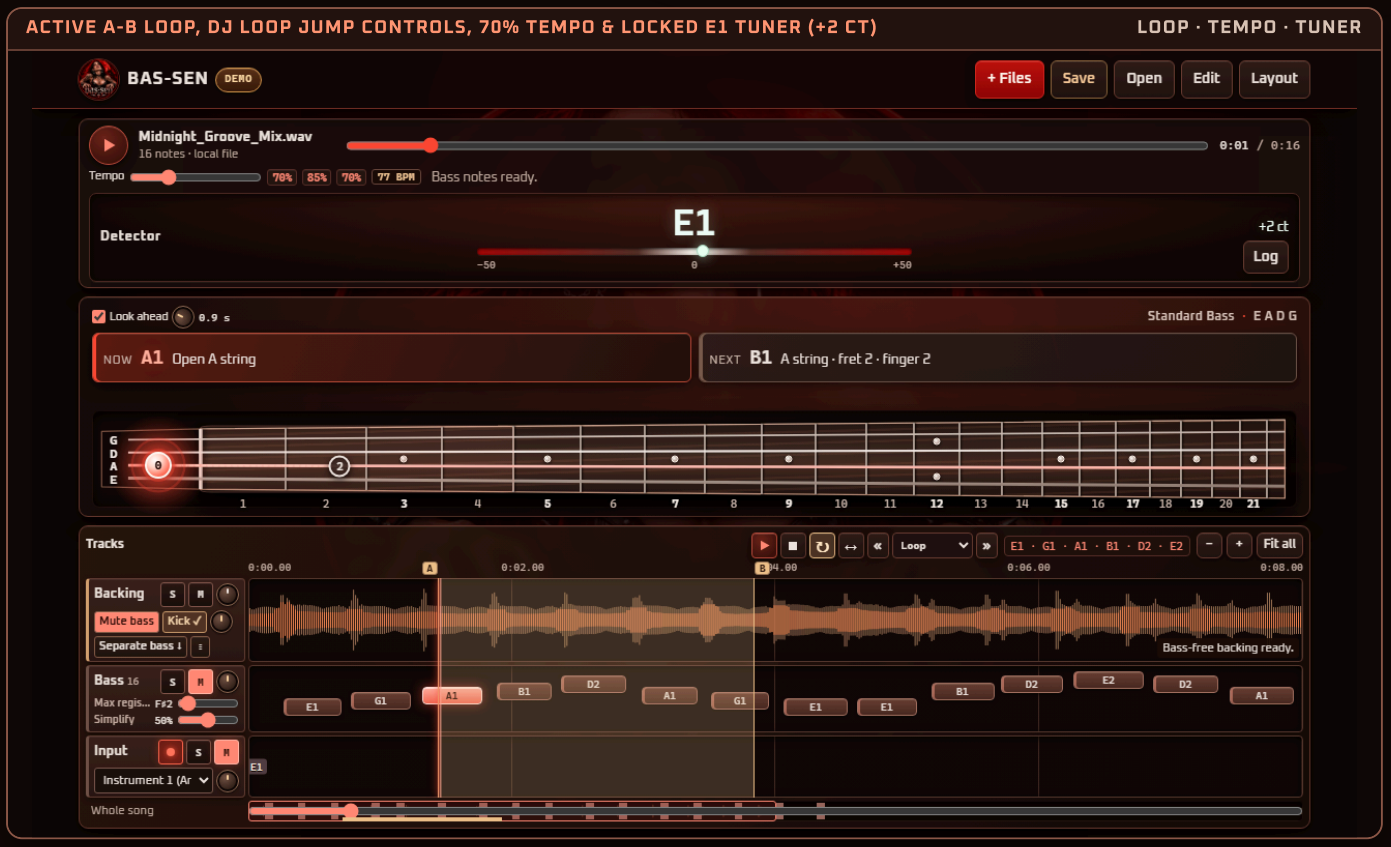
- **Built for stage-distance clarity:** bass strings are rendered thicker than the neck binding, while the active note lights up with a bold target marker, impact aura, and illuminated string & fret wire.
- **Pitch & finger legend:** uses standard sharp names (`C, C♯, D, D♯, E, F, F♯, G, G♯, A, A♯, B`). Marker numbers show fretting fingers: **0** open string, **1** index, **2** middle, **3** ring, **4** pinky (favoring ergonomic **1-2-4** in low frets).
- **Tailored perspective:** open **Layout** to enable full **Left-handed mirror mode**, flip string order independently, switch vertical/horizontal neck, or enable **High contrast**.

50-125% Tempo, Right-Click STOP & DJ Loops

- **Pitch-locked Master Tempo:** slow tough passages to `70%` or `85%` (Signalsmith Stretch) with zero pitch shift while tracking exact scaled **BPM** live.
- **Right-click = Instant STOP:** right-click anywhere in the studio workspace to pause and snap back to your start mark. Right-click a second time to rewind to `0:00`.
- **DJ-style Loop Move (`«` / `»`):** draw a loop with `Shift + drag`, then shift the entire loop backward or forward by its **full marked length (`Loop`)** or by **1, 2, 4, 6, 8, 16, or 32 beats** without losing beat phase!

ACTIVE A-B LOOP, DJ LOOP JUMP CONTROLS, 70% TEMPO & LOCKED E1 TUNER (+2 CT)

LOOP · TEMPO · TUNER



Continuous Detector, Record Mode & .bassen Projects

Always-On Detector + Record Anytime

- **Continuous background listening:** select your USB interface in the **Input** lane (multi-channel interfaces are scanned automatically). Pluck any string anytime to tune (`-50..0..+50 ct`) without cluttering the timeline.
- **Record with the song or right now:** click the red **Record** button to log played notes onto the Played notes lane and Practice log - works both during song playback and while paused!
- **Echo-free Direct Monitoring:** input **M** (Mute) is active by default so software monitoring stays silent while you listen lag-free through your hardware USB interface.

Clean Loop Takes, Filters, Editor & .bassen

- **Zero loop clutter + optional history:** when recording in an A-B loop, each pass cleanly overwrites old notes so your screen stays fresh. To inspect recurring mistakes across passes, check Keep previous notes in loop in **Layout**.
- **Live filters & note editor:** dial **Max register** and **Simplify** live, or double-click any note on the timeline to edit pitch, start, or duration.
- `.bassen` **archives & Log:** click **Save** to pack stems, separated bass/kick, loop state, and note edits into one file, and track `±10 ct` tuning & matched notes across 30 sessions in **Log**.

Keyboard & Mouse Quick Reference

ACTION	SHORTCUT / MOUSE GESTURE
Play / Pause	`Space`
Instant STOP (1× to start mark, 2× to `0:00`)	**Right-click** anywhere in studio or click **Stop**
Momentary audition from cursor	Hold **left mouse button** on waveform or seek bar
Draw & enable A-B loop	`Shift + left-drag` on timeline (or toggle ↔)
DJ Loop Jump	Click `«` / `»` + step selector (`Loop` or `1, 2, 4, 6, 8, 16, 32 beats`)
Nudge loop handles A / B	Focus handle `A`/`B` + `←`/`→` (`0.05 s`) or `Shift + ←/→` (`0.5 s`)
Timeline navigation	Vertical wheel: step notes · Horizontal wheel: pan · `Ctrl + wheel`: zoom
Edit note / quick reset	Double-click note: open editor · Double-click tempo or knob: `100%` / `0 dB`
Drag & Drop import	Drop any audio, `.mid`, or `.bassen` file directly onto the window

Practice workflow tip: when tackling a fast rock or metal bassline, set **Tempo to 70%**, dial **Simplify to ~60%** to lock in the root groove first, and step forward bar-by-bar using the DJ `»` loop button.

BAS-SEN Customer Support · Studio Popłoch
Need help setting up your USB audio interface or activating your license key? Reach out directly.
Website: **https://bas-sen.app/**
Support: **support@bas-sen.app**