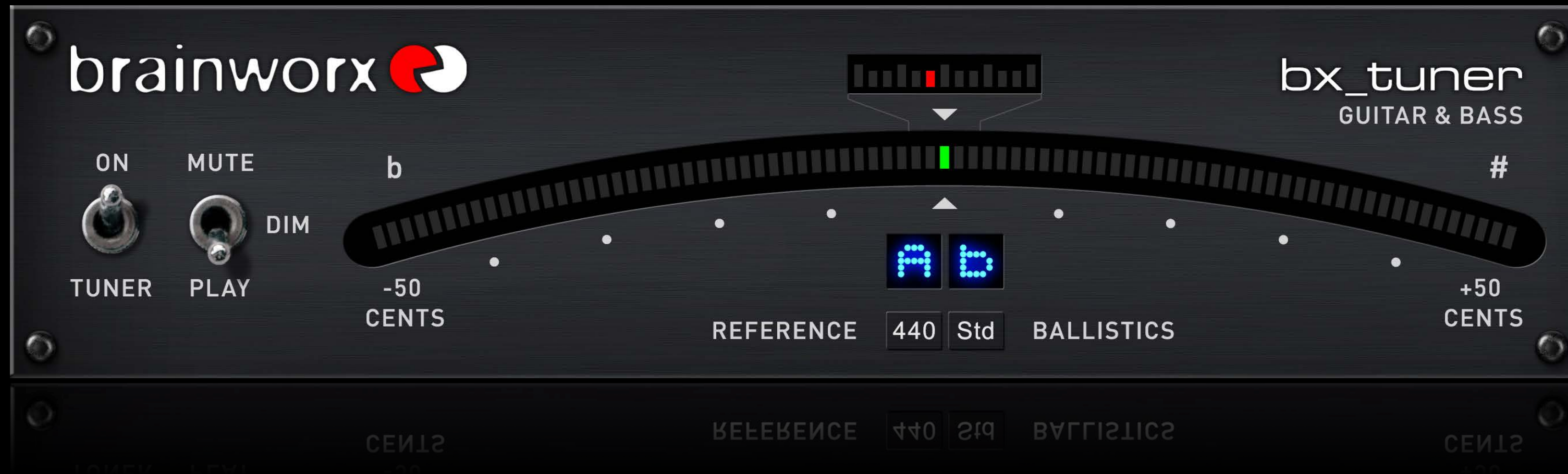


BRAINWORX - bx_tuner

Latency-free Tuner Plug-in with Fine-tuning Display, Ballistics selection and Output Dim.
Precise. Easy. Fast.



Thank you for using the BRAINWORX bx_tuner plug-in.

The bx_tuner was developed to be used in combination with virtual amplifier simulations in the DAW or your Apollo interface. Insert it BEFORE any amplifier plug-in or other effects to achieve the best results.

bx_tuner can be used with acoustic and electric guitars and basses, and it will reliably tune many other string instruments as well.

The tuner can be set to various reference pitches and offers a new DIM switch, so you can listen to the processed amplifier sound while tuning - at a reduced volume! Your producer or your band mates will certainly appreciate this feature.

bx_tuner's detection and ballistics were optimized to work perfectly with guitar and bass signals. The tuner may display imperfect results with saw tooth synth sounds and other artificial test tones.

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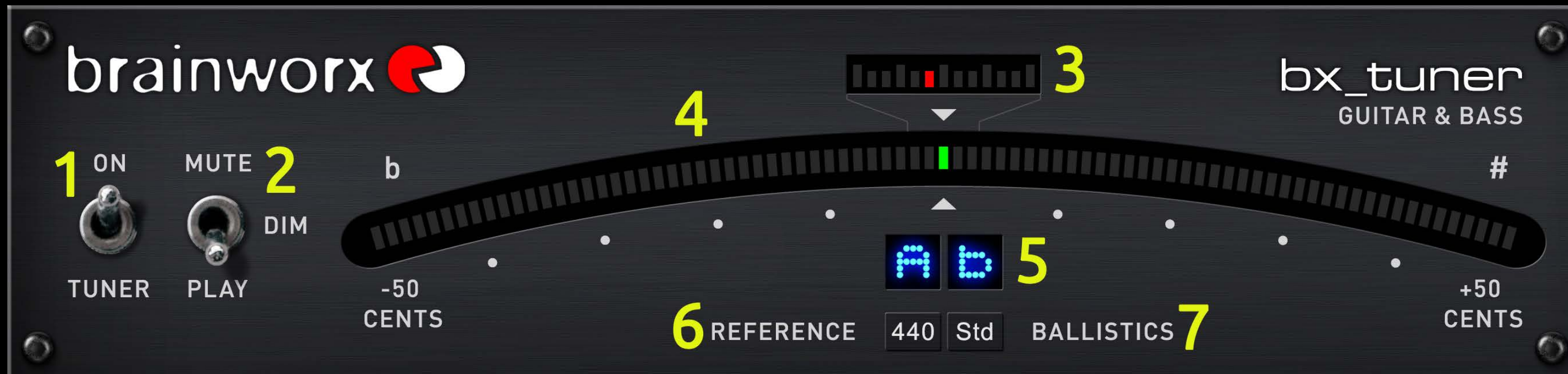


PLUGIN ALLIANCE

The BRAINWORX bx_tuner plug-in can be installed and operated like any other UAD-2 plug-in. Please check www.uaudio.com for general info about the system requirements, etc.

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[1] TUNER ON / OFF [2-way switch]

Bypass or engage the plug-in with this switch. We propose you find the plug-in settings you like best and then just activate / deactivate the whole plug-in using this On / Off switch.

[2] PLAY / DIM / MUTE [3-way switch]

PLAY: the tuner will pass the incoming signal to the output while displaying the pitch of your instrument. This mode can be active while you play, as the plug-in doesn't add any latency to the audio signal.

DIM: in this mode you will hear the incoming signal at a reduced level of -20dB. This way you can still monitor your sound through following plug-ins, but you don't need to turn down the control room level while tuning.

MUTE: if you want to tune without your sound being audible at the output of the plug-in this is the mode to select. Tuning in silence.

[3] FINE TUNING DISPLAY

The upper LEDs of the tuner display a range of about 3 Cents, which is roughly 1/30th of a semitone. In most cases it will be sufficient to tune a guitar string (for example) to be close to the center LED. As long as the larger main LED bar displays the center (green) LED you should be good to go. See [4].

[4] TUNER LEDs [-/+ 50 Cents]

The main LED bar displays a frequency range of +/- 50 Cents around the target note, displayed in [5]. The distance between two semitones is divided into 100 Cents

(from E to F, for example), so 50 Cents represent half a semitone.

Hit a note on your instrument and the tuner will indicate the closest note in the note display [5], while the tuner LEDs will indicate how far off your sound is from that note. The goal is to bring both, the tuner LEDs [4] and the fine tuning LEDs, into the center position.

Many string instruments have a pitch envelope, so your guitar string could sound slightly higher than its tuning right after you hit the string. To tune a guitar perfectly monitor the sustained part of the sound. Even with a tuner plug-in it may be required to fine-tune by ear in critical situations such as a recording session.

[5] NOTE DISPLAY

This window displays the note closest to the sound you are playing automatically. "A b" = "G #" and "D b" = "C #", for example (and that's without wanting to start a music theory debate now).

[6] REFERENCE PITCH [438 - 442 Hz]

The reference pitch of the note A can be set to 438 - 442 Hz via this drop-down menu. This way you can adjust the bx_tuner to the most common settings.. Default value is 440 Hz.

[7] BALLISTICS [of the LEDs]

Adjust the speed of the LEDs to your liking. It may be desired to use different presets (or make some) for your favorite instruments, so the LEDs follow the pitch as slow or as fast as you want them to.