Thank you for trusting your instrument's tuning to the Canvas Tuner!
Out of the box, you'll find the tuner ready to use in vertical needle mode. Simply connect to a power source* and your instrument's cable to the input jack and you're ready to tune up. Canvas Tuner has a lot of options to explore including screen orientations, needle or strobe mode, tuning presets, screen savers and more, so read on to get the most out of your new tuner!

*Only use a 9 volt DC, Center Negative, 300mA to power the pedal.
The use of an isolated power supply is recommended for powering all Walrus Audio Pedals.
Daisy chain power supplies are not recommended.

Got questions or need a repair?
Email help@walrusaudio.com to talk with a real live human about your Walrus gear!

This product comes with a limited lifetime warranty.
Click Here for more info.

CONTROLS

MENU BUTTONS:

Up Button - Navigate up in menus.

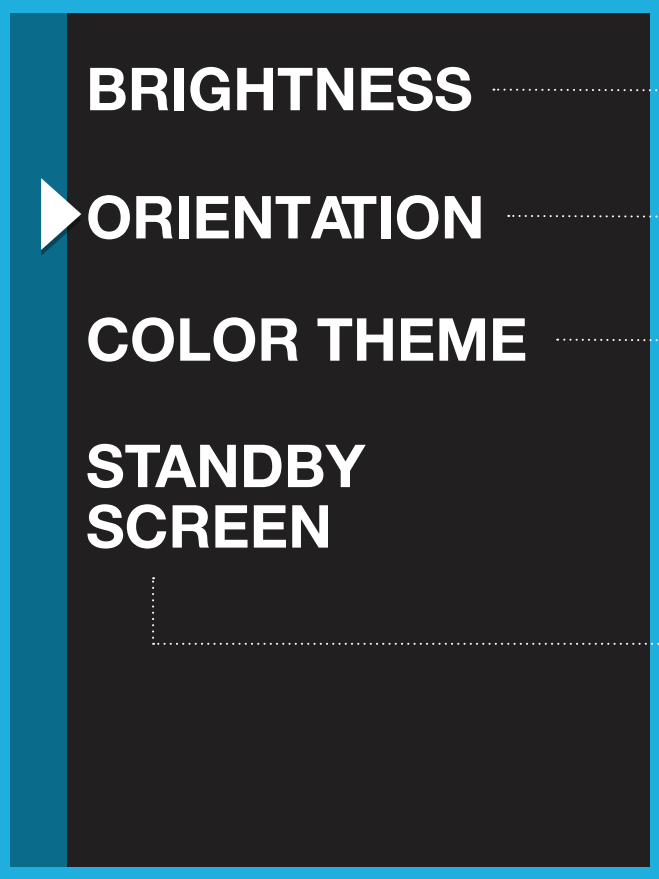
Menu Button - Access device menu & confirm menu selections.

Down Button - Navigate down in menus.

Stomp Switch - Used as a "back button" when in menu pages.

USB C Jack - USB C port for updating firmware via walrusaudio.io.

MENU OPTIONS - DISPLAY



BRIGHTNESS — Adjust the screen backlight brightness from 1-10.

ORIENTATION — Rotate display 360 degrees in 90-degree increments.

COLOR THEME — Customize the color of the note indicator in Strobe & Needle modes.

STANDBY SCREEN — Customize the bypass screen image. Canvas Tuner has three different standby screen modes to choose from:

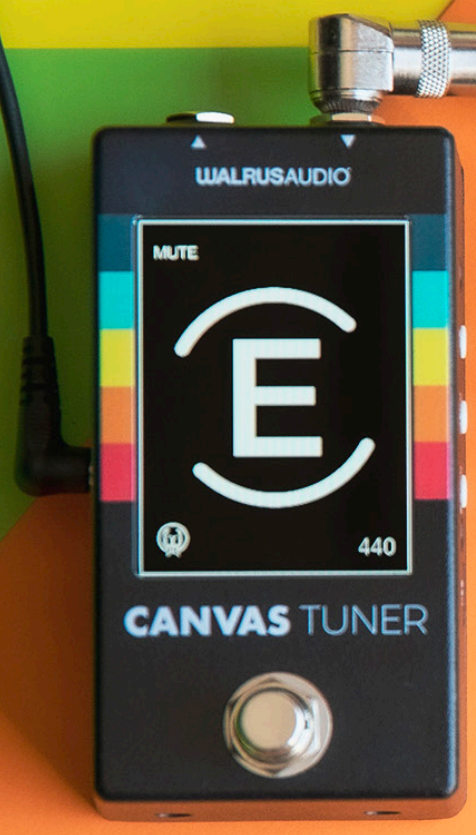
1. Canvas - Walrus Audio Canvas color badge.
2. Screensaver - Cute little bouncing Walrus head. Will it ever hit the corner?
3. Picture Mode - Upload your own image via USB to be displayed on the bypass screen. Visit walrusaudio.io for more information.

MENU OPTIONS - TUNER

MODE: Change between Needle and Strobe tuning modes. Each option provides distinct visual feedback for a variety of tuning applications.

NEEDLE MODE: The incoming pitch is tracked on the tuning strip at the top of the display. When an incoming note is flat, the indicator will appear on the left of the center of the tuning strip and turn red. When an incoming note is sharp, the indicator will appear on the right of the center of the tuning strip and turn red. When you are in tune, the indicator is centered with the arrows on the tuning strip and the indicator will light up green.

FLAT IN TUNE SHARP



MENU OPTIONS - TUNER

STROBE MODE: The incoming pitch is tracked by the rotational speed and direction of the tuning wheel around the target note. When an incoming note is flat, the tuning wheel will rotate counterclockwise. When an incoming note is sharp, the tuning wheel will rotate clockwise. The more flat or sharp the incoming note is, the faster the tuning wheel will spin in the respective direction. As the note becomes more in tune, the rotational speed of the tuning wheel decreases. When the wheel stops rotating, the incoming note is in tune.

- **NOTE:** the strobe algorithm is a direct connection to the pitch of the incoming note. Since the pitch is always moving slightly, the tuning wheel will never stop for long if at all. Tune until it is as still as you can make it for hyper-accurate tuning.

MENU OPTIONS - TUNER

TUNING PRESET: Select pitch ranges that the tuner will display and detect.

CHROMATIC: Tracks and detects the full frequency range of the guitar signal.

GUITAR STD: Tracks and detects frequencies only in the standard EADGBE guitar tuning range. When an incoming note is outside of the tuning preset range, the note will not be tracked.

DROP D: Tracks and detects frequencies only in the standard DADGBE guitar tuning range. When an incoming note is outside of the tuning preset range, the note will not be tracked.

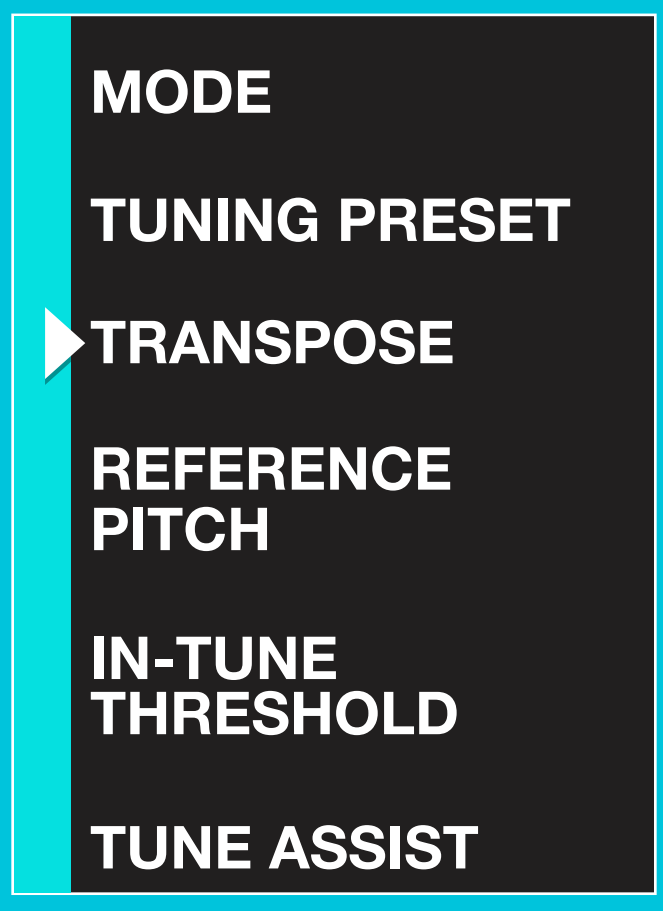
BASS STD: Tracks and detects frequencies only in the standard EADG 4-string bass guitar tuning range. This tuning mode also supports the lower B string and higher C string included in 5 and 6-string bases. When an incoming note is outside of the tuning preset range, the note will not be tracked.

MENU OPTIONS - TUNER

TRANSPOSE: Transpose the tuning presets to suit your guitar's drop or capo tuning. The tuning preset can be transposed up to Capo 5 (+5 semitones) and down to Drop 6 (-6 semitones). Ex. The GTR STD preset will be set to tune to DGCFAD when transposed to Drop 2.

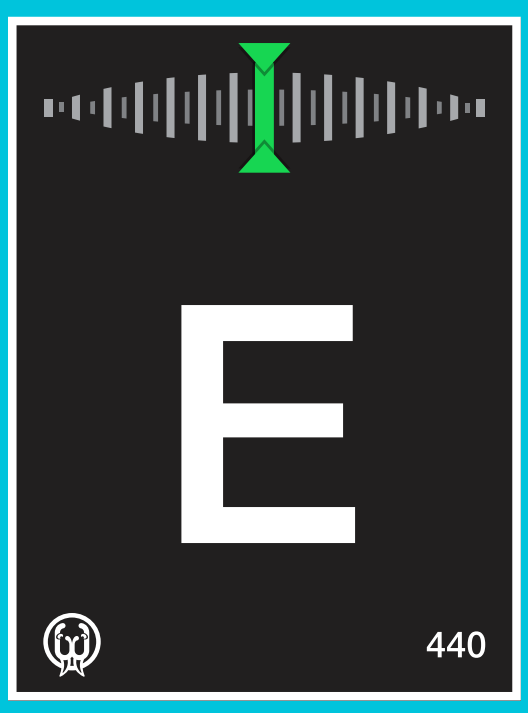
REFERENCE PITCH: Modify the tonal center that the tuner uses. By default, the tuner is set to the widely adopted standard of 440Hz. This is the frequency that the A key above Middle C on a piano is tuned to. The center pitch can be lowered down to 390Hz and raised up to 490Hz.

IN-TUNE THRESHOLD: Modify the window the tuner uses to determine if you are in tune in cents. In Needle Mode, the In-tune Threshold affects how close the indicator has to be to the tuning strip center before it turns green to tell you you're in tune. In Strobe Mode, the In-tune Threshold affects the rotational speed as you approach the note you're tuning to. A lower threshold value will be more precise with your tuning while a higher threshold value will provide faster visual feedback.



TUNE ASSIST

Activating Tune Assist provides additional visual feedback for a more efface tuning experience. When activated, the Canvas Tuner will track how long a note stays within the In Tune Threshold window. When a note has successfully been detected within the in-tune window for the defined time, a border will flash around the display to let you know you're in tune and can move to the next string. Choose between Slow, Medium, Fast, and Instant thresholds to select how long the incoming note has to stay within the in-tune window before Tune Assist indicates you're in tune.



TL;DR - Turn on Tune Assist. If this border blinks, you're in tune.

MENU OPTIONS - BYPASS MODES

Modify the signal bypass and muting behavior of the Canvas Tuner.

BUFFERED BYPASS: When the pedal is bypassed, the incoming audio signal is routed through our clean low-noise buffer. When the tuner is active, the incoming signal is muted and the tuner is displayed.

RELAY BYPASS: When the pedal is bypassed, the incoming audio signal is routed straight to the output jack. This ensures there is no circuity between the input and output when a buffer is not desired. When the tuner is active, the incoming signal is muted and the tuner is displayed.

MONITOR MODE: In Monitor Mode, the tuner is always displayed and when not muted, the audio is flowing through our clean low-noise buffer. Pressing the Bypass Switch in this mode toggles the mute on and off.

PASS-THRU: When the pedal is bypassed, the incoming audio signal is routed through our clean low-noise buffer. Pressing the Bypass Switch in this mode toggles between the tuning screen and the standby screen without muting. The signal is always going to the output in this mode and can not be muted.

MENU OPTIONS - ABOUT

View the current firmware version number and restore your unit to factory settings.

TECHNICAL INFO

Frequency Response: 20Hz To 20kHz
Tuning Accuracy: ±0.1 cent
THD: 0.001% @ 20Hz -20dBu
0.001% @ 1kHz -20dBu
Noise Floor: -112dBu
Signal To Noise Ratio: 98dB @ 1kHz
Input Impedance: ~1M Ohms
Output Impedance: ~400 Ohms
Power Requirement: 9VDC, 300mA
Bypass options:
- True bypass via a small signal relay
- Buffered bypass employing a high quality op amp based buffer

Size Including Stomp/Jacks:
Height: 2.21” / 56.2mm
Width: 2.42” / 61.6mm
Depth: 4.55” / 115.7mm