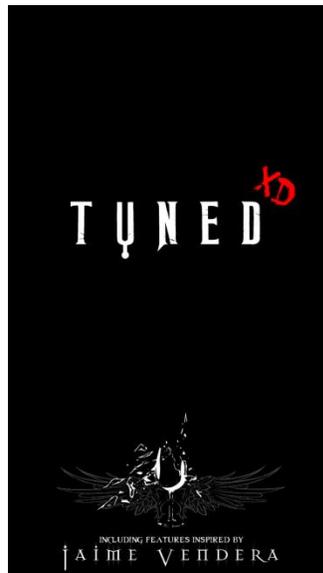


TUNED XD ADVANCED USERS GUIDE

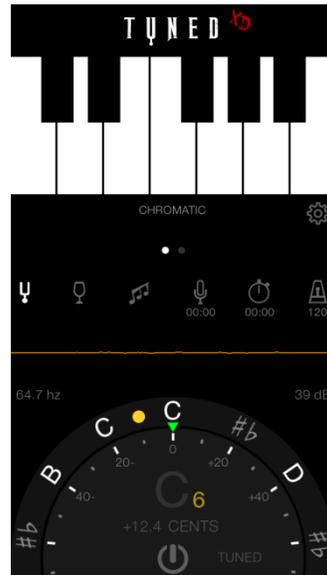


Welcome to TUNED XD, the all-in-one musical multi-tool created for the instrumentalist and vocalists who are dedicated to improving musical and vocal chops. TUNED XD is for beginners and professionals alike, both students and teachers, featuring a wide variety of features to help fine tune your performance skills. TUNED XD is the brainchild of glass shattering vocal coach Jaime Vendera and the developers of DRUMS XD, featuring the most accurate tuner for a wide variety of instruments in a variety of tunings. It includes an intonation trainer for vocalists, scale generator for musicians/singers to improve their licks, two-track recorder for singing/playing alongside scales or songs from your library, stop-watch and programmable timer for breathing and timing exercises, metronome, multiple frequency and dynamic meters, Frequency Audio Waveform scanner (or FAV for short) and a pitch wheel capable of covering seven octaves. TUNED XD also features a glass shattering game inspired by honorary MythBuster, Jaime Vendera, the world's first singer documented on film to shatter wineglass using his voice alone.

TUNED XD is a split screen app; the top half features one of six functions, selectable by tapping the icons featured on the icon bar in the middle of the screen. The bottom half of the screen features a pitch wheel which can be engaged by sliding the pitch wheel up with your finger or tapping the on/off toggle switch at the bottom center of the screen. When selecting the various functions by tapping the individual icons in the icon bar, only the top half of the screen (above the icon bar) will change, while the bottom half always remains the same to allow multi-functions of the tuner including the decibel meter, frequency meter, and FAV to remain active. TUNED XD functions include (from

left to right in the icon bar) include a tuner, intonation trainer/glass breaker game, scale generator, two-track recorder, stopwatch, and metronome mode.

TUNED XD CHROMATIC TUNER



When TUNED XD is launched, the screen automatically reverts to the Chromatic Tuner as noted by the one-octave piano at the top of the screen and the small tuning fork in the icon bar, highlighted in white. The chromatic tuner helps vocalists to improve intonation. The chromatic tuner will show the pitch being sustained by highlighting a key on the piano in green (tuned), yellow (slightly out of tune) or red (farther out of tune). As well, the note name and octave will be displayed in the center of the tuner/pitch wheel (bottom half of screen) by +/- 50 cents also noted by the note name/number AND the small arrow which changes color from red to yellow to green as you approach perfect tuning. You will also notice that the outer ring of the tuner/pitch wheel will spin to display the pitch being sustained at the top of the tuner/pitch wheel.

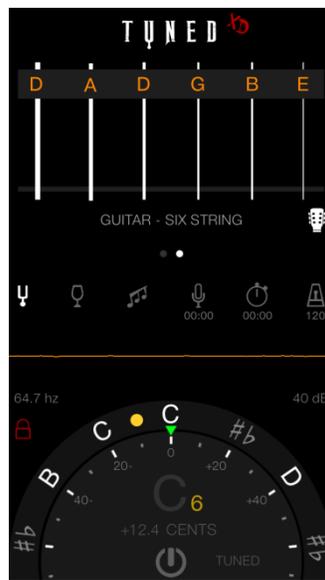
Above the tuner rests the Frequency Audio Waveform (FAV for short). As well, to the top left of the tuner exists a frequency meter, and to the right, a decibel meter. For the sake of simplicity and to combine as many features on one screen for the benefit of the musician, both the frequency and decibel meters are simple numerical calibrations, though FAV works in tandem with the frequency meter. You can also see the exact frequency in hertz (such as 118.07 hz) in the upper left corner of the tuner/ pitch wheel and



amplitude in decibels (such as 68 dB) to the upper right corner of the tuner. As well, FAV, which sits directly below the icon bar, will display a combination frequency/amplitude wave, which will shrink as you fine tune the exact pitch.

For tuning stringed instruments, simply switch the Chromatic Tuner function to the Stringed Instruments Tuner function. To reveal the tuner for stringed instruments, scroll to the next page by placing your finger on the screen on the two dots directly below the piano and then sliding your finger to the left. The piano is replaced by an image of six strings, the default setting for a standard six string guitar.

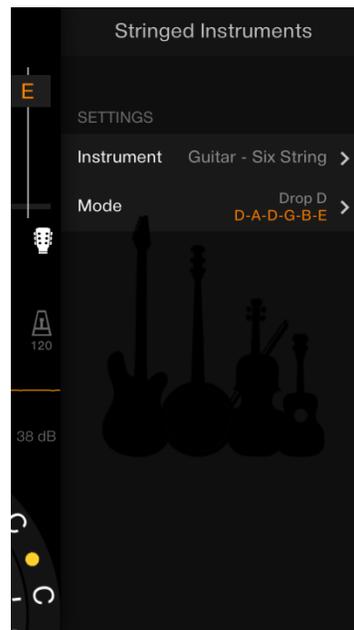
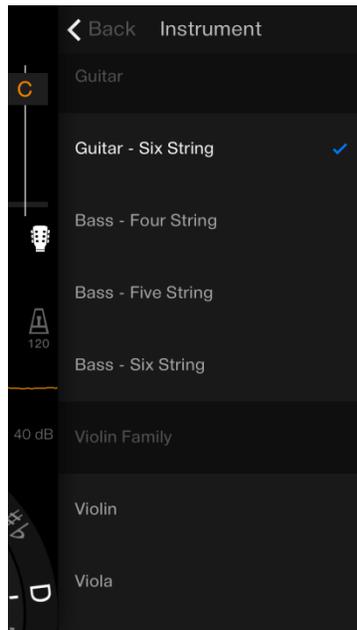
TUNED XD STRINGED INSTRUMENTS TUNER



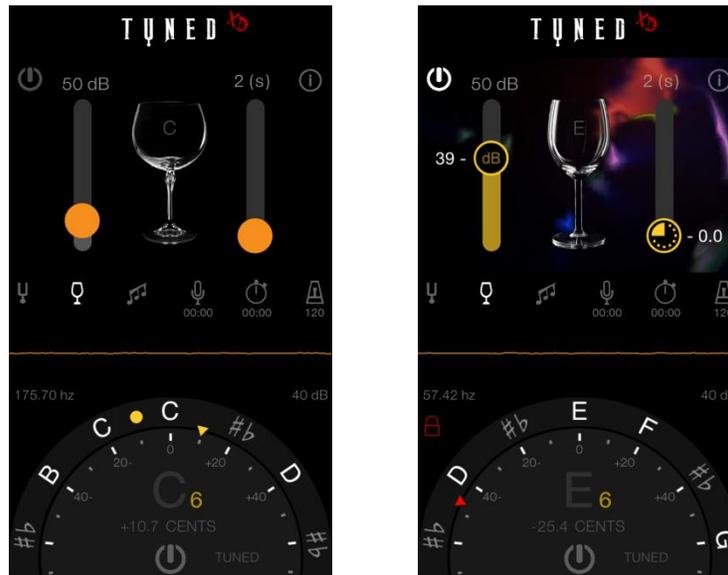
Using the Stringed instruments Tuner function allows increased visual confirmation as you tune your instrument. The one-octave piano is now replaced by strings that will vibrate as you tune each string. To hear any particular string note, simply tap or swipe your finger across the string on the screen for a pluck or strumming sound. As you approach correct tuning for any particular string, the string name will also highlight. Combined with the functions of the tuner/pitch wheel and FAV, TUNED XD features FIVE visual tuning confirmations (vibrating string, string name highlighter, FAV, tuner note name/octave number readout, frequency readout) making it the easiest and most reliable and accurate tuner available. This tuner is so accurate that it can accurately pick up the sound of a lightly plucked string from up to twelve feet away.

Tap the guitar head icon below the E string (default six string setting) to reveal the Stringed Instruments Settings page for selecting various stringed instruments and alternate tunings. Tapping the arrow to the right of the word, INSTRUMENT under

SETTINGS reveals a series of guitars, bass guitars, violins, banjos, and more. Tap an instrument to select it. Return to the Stringed Instruments Setting page by pressing the BACK button. Tapping the arrow to the right of the word, MODE under SETTINGS reveals a wide variety of tunings. You'll notice that when selecting the MODE for the INSTRUMENT, Guitar-Six String features standard, drop, and open tunings, among other tunings. To choose the Drop D tuning for a six-string guitar, Tap DROP D and hit the BACK button. To exit the Stringed Instruments Settings page, simply swipe the screen to the right the guitar strings. Once you've returned to the Stringed Instruments Tuner, you'll notice that your tuner is now set a D-A-D-G-B-E for Drop D tuning. Simply strum your guitar (the device will pick up your sound) to perfectly tune your guitar. Once perfect pitch is achieved, your vibrating string will settle, the name above the string will highlight from red to yellow to green, FAV will change from what appears to be a large sine wave to a very smooth line, and the tuner/pitch wheel readouts will align to match the note name.



TUNED XD INTONATION (PITCH) TRAINER/GLASS BREAKER

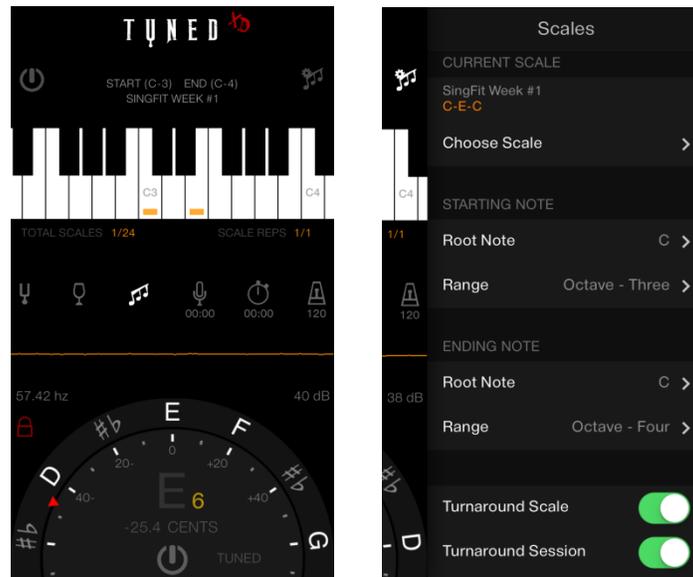


The Intonation (Pitch) Trainer/Glass Breaker function can be accessed by tapping the wineglass in the icon bar. This function is a fun and unique way to help singers develop better intonation (aka, pitch; the ability to sing in tune) and power; allowing you to set both the decibel level and pitch sustain time required to shatter the glass. Spin the pitch wheel to change the shape and note of the glass. Next, move the slider to the left of the glass up or down to set the decibel level at which the glass breaks (40-120 decibels), followed by moving the slider to the right of the glass up or down to set the duration at which you must hold the note before the glass breaks (2-30 seconds). Once you're ready to take a "crack" at shattering a glass, hit the toggle button to the top left of the glass to turn the glass breaker on, flick or rub the glass to hear the note exact pitch, and then scream your brains out! Make absolutely sure to follow correct vocal technique as described in the book, *Raise Your Voice* by Jaime Vendera in order to protect your voice at extreme volumes. It is advisable to start at the minimum settings and increase the decibel/duration as you improve.

For those who have seen Jaime Vendera's glass shattering television shows, such as *MythBusters* and *Dr. Oz*, you might have noticed that the glasses are rarely in perfect A440 tuning in a chromatic scale. For the sake of improving intonation, TUNED XD glasses only feature all twelve chromatic notes in perfect tuning. Glasses will break regardless of the octave at which a person is singing as long as it is the correct note (i.e. A3, A4, A5, etc.). The glasses have been tuned to resonate at several octaves of the same pitch so that you can hear multi-octaves at once. Once you've sustained the correct note by +/- 50 cents for the set time and dB level, the glass will shatter. Depending upon your pitch accuracy, you will receive one to five stars to rate your

glass shattering/intonation skill level. Although the Intonation Trainer/Glass Breaker is a fun game, it is also a very powerful tool for improving intonation, thus making you a more “in-tune” singer.

TUNED XD SCALE GENERATOR



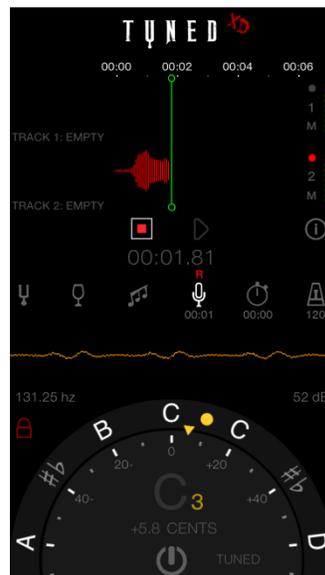
The Scale Generator function can be accessed by tapping the musical triplet note in the icon bar. The Scale Generator can help musicians master a variety of musical scales which is important for mastering elements of music theory, as well as allow singers to practice a variety of vocal scales, including scales from Jaime Vendera's books. Each scale is programmable in a variety of ways, including speed and range, and turnaround (return to beginning root note). To set up a scale, click the triplet note in the upper right corner above the piano to enter the Scales screen. Here you can choose your scale pattern, set the starting note and ending note of the scale of the scale pattern, set the speed of the scale by changing the metronome tempo settings, turn around the scale (select Turnaround Scale to make play a mirror image of the scale pattern before proceeding to the next pitch), turn around the session (select Turnaround Session to return to the starting note after reaching the ending note in order to work back down the scale), set the number or scale reps each scale pattern is played before moving to the next pitch (repeat a pattern two or more times before proceeding by half step up/down the scale), as well as choose to turn on/off the metronome sound.

Note: Scale Reps was added for users of Jaime Vendera's Ultimate Isolation method, where a simple octave slide must be repeated five or thirteen times to complete one

scale pattern per pitch. However, Turnaround Scale makes for other interesting scale patterns when you want more of a challenge. For users of the Circle and Figure Eight Ultimate Isolation Exercise, from *Raise Your Voice 2: The Advanced Manual*, you MUST set the Scale reps to either 5 or 13, depending on your exercise.

As well, you can change the sound theme which is set to piano by default, and change the volume of the sound. Once you've designed your workout pattern and are ready to begin your scale, swipe the Scale screen to the right to return to the piano. To play your new scale, press the on/off toggle switch in the upper left corner above the piano. If you wish to save your scale, this can be done by playing the scale as you are recording in the two-track recorder as explained in the next section.

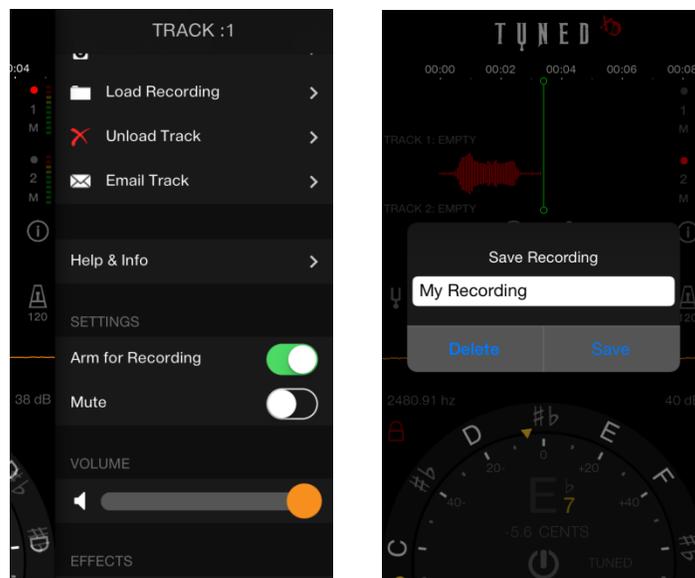
TUNED XD TWO-TRACK RECORDER



To access the two-track recorder, tap the microphone in the icon bar. Why a two-track recorder, you ask? Jaime Vendera says, "When I was first learning to sing back in the 80s, I had these ancient things called cassettes and cassette decks, AKA, Jam boxes. My early method of learning to sing consisted of playing the cassettes of some of my favorite bands/artists on one jam box, while recording onto a blank cassette on the other jam box as I would sing along to the artist. In essence, I think I might have invented Karaoke without knowing, ha-ha. Regardless, I realized that this is an invaluable tool for improving not only your vocal licks, but you musical chops for any instrument."

The TUNED XD two-track recorder allows you to import songs from your iTunes library or files saved in TUNED XD onto one track, and then record yourself either playing or singing along to the imported file on the other track. This is a great tool for learning chord progressions, fine tuning guitar solos, picking vocal lines apart, and recording song ideas or jams on the fly to help improve overall musicianship.

To load/unload a music track, mute a track, or arm a track for recording (track two is armed by default), simply tap either track 1 or 2 on the right sidebar to enter the Empty Track page. When you're ready to return to the recorder, slide the Empty Track page to the right. To start recording, tap the red button, and tap it once more to stop the recording. You will be prompted to name your recording, which are saved in TUNED XD. To play the recorded file hit the play arrow button. You can move forward or backward on the timeline by scrolling your finger to the right or left on the screen. You can also add reverb before or after your recording to sweeten the sound. To delete the track, go into "Load Recording" to locate the track you wish to delete, and then swipe the track to the right to reveal the delete button.



To record a vocal scale from the scale generator in real time, simply start your scale, hit the microphone icon to load the two-track recorder, and immediately press the record button. Once your piano scale is recorded, save your recording. If you wish to also record yourself singing along to the new scale, simply unarm the track with the piano scale and arm the other track to record. If you've cleared the tracks, simply load your saved track from TUNED XD. You can access your saved recordings within TUNED XD, as well as email an m4a file to any email address.

TUNED XD TABATA TRAINING TIMER/STOPWATCH



To access the Tabata Timer/Stopwatch function, tap the stopwatch in the icon bar. By default, this function loads the Tabata timer, which is an advanced stopwatch timer consisting of a preparation countdown, workout time, and rest time. The Tabata timer, based on the Tabata Protocol is useful for various forms of exercise sets, including physical exercises and breathing exercises such as Tabata Breathing featured in Jaime Vendera's book, *The Air & Water Diet*. To use the training timer, tap the upper half of the circle labeled P (prepare) to set the exercise preparation time. Tap the W (Workout) workout time, and R (Rest) to set the rest time. Times can be set by moving the + and - buttons, or by moving the circle which resides on the outer perimeter, which will appear yellow in P, green in W, and red in R. As well, you can change the number of sets that the training timer will repeat.

To use your training time, set up your times and sets and then hit the toggle button in the upper left corner. Once your session starts, a voice will lead you through the prepare, work, and rest cycles of your workout, while the middle circle changes color from yellow to flashing green to red. The training timer defaults to 5 second prep, 20 seconds work, and 10 seconds rest for eight consecutive sets to follow the Tabata protocol. However, you can adjust these times as needed for your personal physical/vocal/instrument workout.

The simple start/stop stopwatch is great for vocalists who practice specific breathing or vocal sustain exercises and musicians who need to time their practice sessions. The stopwatch can be accessed by clicking the Tabata stopwatch in the upper right corner to access the Timer Settings page, and then selecting the stopwatch from the MODE page. To return to the Timer Settings page, click the back arrow at the top left

corner. To return to the stopwatch function, swipe the screen to the right. Hit the toggle button to start/stop the timer. Press the RESET button to reset the stopwatch.

TUNED XD METRONOME



The TUNED XD tap and slide metronome is accessible by tapping the metronome in the icon bar. The TUNED XD metronome features eleven time signatures (3/4, 4/4, etc.) ranging from 30 to 300 beats per minute. To set the metronome time signature, tap the small tempo circle to the lower right of the large center tempo circle to highlight the smaller circle. Next, press the + or – icons to the left/right of the center circle or move the solid white circle around the perimeter of the center circle to choose a time signature. To set the metronome beats per minute, tap the center circle to highlight the circle. Next, press the + or – icons to the left/right of the center circle or move the blue circle around the perimeter of the center circle to set BPM. To play the metronome, tap the on/off toggle switch in the upper left corner.

momentary staccato pitch, or press the toggle button in the center of the pitch wheel to sustain the note continuously. This gives you the option of using a quick pitch reference, or sustaining a continuous pitch to guide you as you practice various sustain and/or intonation exercises.

That is TUNED XD in a nutshell. As the app is updated, we will update the Advanced Users Guide to reflect new features. Have a great practice and we'll see you at the top!

For advanced vocal training, please visit VenderaVocalAcademy.com

For products by Jaime Vendera, please visit JaimeVendera.com

For other products by the designers of TUNED XD, please visit drumsgxd.com