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> LEKATO MT50 3-in-1 Clip-On Tuner, Metronome, and Tone Generator User Manual

LEKATO MT50

LEKATO MT50 3-in-1 Clip-On Tuner, Metronome, and Tone Generator User Manual

Model: MT50

1. INTRODUCTION

The LEKATO MT50 is a versatile 3-in-1 device designed for musicians, combining a high-precision tuner, a digital metronome, and a tone generator. This compact, clip-on unit is suitable for a wide range of instruments, including electric and acoustic guitars, bass, ukulele, violin, viola, and cello. Its full-color LCD screen and rechargeable battery make it a convenient tool for practice and performance.



Figure 1: LEKATO MT50 device with USB-C charging cable.

2. PRODUCT OVERVIEW

2.1 Components and Controls

Familiarize yourself with the main components and control buttons of your LEKATO MT50 device:

MAXIMUM FEATURES, MINIMAL SIZE



Figure 2: Diagram illustrating the buttons and features of the LEKATO MT50.

- **Full Color LCD Screen:** Displays tuning information, metronome settings, and tone generator pitch.
- **Power/Play Button:** Press and hold to power on/off. In Tone Generator mode, press to play/stop the tone.
- **Up/Down Buttons (▲/▼):** Used to adjust values (e.g., A4 frequency, BPM, beat, pitch).
- **M/T Button (Mode/Tuner):** Press to switch between Tuner, Metronome, and Tone Generator modes.
- **Rhythm/Volume/Flat Button (♩/♭):** In Metronome mode, press to change rhythm type. Hold to adjust metronome volume. In Tuner mode, press to activate flat tuning.
- **Built-in Speaker:** Emits metronome clicks and tone generator sounds.
- **Rubber Clamp:** Securely attaches the device to instrument headstocks without causing damage.
- **USB-C Charging Port:** For recharging the internal battery.

2.2 Key Features

- **3-in-1 Functionality:** Combines a tuner, metronome, and tone generator in a single device.
- **High-Precision Tuning:** Fast and accurate pitch detection for Chromatic, Guitar, Bass, Ukulele, Violin, Viola, and Cello. Supports flat tuning up to 4 semitones.
- **Adjustable A4 Frequency:** Customizable A4 reference pitch from 430Hz to 450Hz.
- **Digital Metronome:** Tempo range of 30-280 BPM with 8 rhythm types and beat values from 0 to 9.

- **Tone Generator:** Produces reference tones from A2 to A6 for ear training and pitch alignment.
- **Full Color LCD Screen:** High-contrast display for clear visibility in various lighting conditions.
- **Multi-Swivel Action:** Rotatable design (360° pivot, 140° tilt) for flexible viewing angles.
- **Rechargeable Battery:** Built-in battery with USB-C charging and automatic power-off function after 3 minutes of inactivity.

3. SETUP

3.1 Charging the Device

Before first use, fully charge the LEKATO MT50. Connect the provided USB-C cable to the charging port on the device and the other end to a 5V USB power adapter (not included) or a computer USB port. The battery indicator on the screen will show charging status.



Figure 3: The LEKATO MT50 being charged via its USB-C port.

3.2 Attaching to Your Instrument

The MT50 features a secure clip-on grip with rubber padding to protect your instrument's finish. Attach the device to the headstock of your guitar, bass, ukulele, violin, viola, or cello. Adjust the screen angle for optimal viewing using the 360° pivot and 140° tilt functionality.



Figure 4: The LEKATO MT50 securely clipped onto a guitar headstock, ready for use.

MULTI-SWIVEL ACTION

360°Pivot & 140°Tilt



Figure 5: The multi-swivel action allows for flexible positioning and viewing angles.

3.3 Powering On/Off

To power on the device, press and hold the **Power/Play** button for approximately 2 seconds. To power off, press and hold the **Power/Play** button again for 2 seconds. The device will automatically power off after 3 minutes of inactivity to conserve battery life.

4. OPERATING INSTRUCTIONS

4.1 Switching Modes

Press the **M/T** button to cycle through the three operating modes: Tuner, Metronome, and Tone Generator.

4.2 Tuner Mode

In Tuner mode, the device detects the pitch of your instrument. The screen will display the note name and an indicator showing if the pitch is flat, in tune, or sharp.

FULL COLOR LCD SCREEN



Figure 6: The full-color LCD screen clearly indicates if a note is flat, in tune, or sharp.

1. **Selecting Tuning Mode:** Tap the **M/T** button to switch between Chromatic (C), Guitar (G), Bass (B), Ukulele (U), Violin (V), Viola (V-), and Cello (V_) modes. Chromatic mode is suitable for a wide range of instruments and custom tunings.
2. **Tuning Your Instrument:** Pluck a single string on your instrument. The screen will display the detected note. Adjust your instrument's tuning peg until the indicator is centered and the screen turns green, indicating the note is in tune.
3. **A4 Frequency Adjustment:** To change the A4 reference frequency (default is 440Hz), press and hold the **Up (▲)** or **Down (▼)** button. The A4 value can be adjusted from 430Hz to 450Hz.
4. **Flat Tuning:** For instruments requiring flat tuning, press the **Rhythm/Volume/Flat (♯/♭)** button to lower the pitch by up to 4 semitones (available in Guitar/Bass modes).

SUIT FOR VARIOUS MUSICAL INSTRUMENTS

C Chromatic

G Guitar

B Bass

U Ukulele

V Violin

V- Viola

V_ Cello



Figure 7: The device supports tuning for Chromatic, Guitar, Bass, Ukulele, Violin, Viola, and Cello.

4.3 Metronome Mode

The Metronome mode provides a steady beat to assist with rhythm practice.

1. **Setting Tempo (BPM):** Use the **Up (▲)** and **Down (▼)** buttons to adjust the Beats Per Minute (BPM) from 30 to 280. Hold the buttons for quick adjustment.
2. **Adjusting Beat:** Tap the **M/T** button to select the beat value (0-9).
3. **Changing Rhythm Type:** Press the **Rhythm/Volume/Flat (♩/♭)** button to cycle through 8 different rhythm types.
4. **Volume Control:** Hold the **Rhythm/Volume/Flat (♩/♭)** button to adjust the metronome volume.
5. **Start/Stop:** Press the **Power/Play** button to start or stop the metronome.

4.4 Tone Generator Mode

The Tone Generator produces specific reference pitches for ear training or manual tuning.

1. **Selecting Pitch:** Use the **Up (▲)** and **Down (▼)** buttons to select the desired pitch (A2-A6).
2. **Playing Tone:** Press the **Power/Play** button to play the selected reference tone. Press again to stop.

5. SPECIFICATIONS

Feature	Specification
Model Number	MT50
Tuning Modes	Chromatic, Guitar, Bass, Ukulele, Violin, Viola, Cello
A4 Frequency Range	430Hz - 450Hz
Flat Tuning	Up to 4 semitones (Guitar/Bass modes)
Metronome Tempo Range	30 - 280 BPM
Metronome Beat Values	0 - 9
Metronome Rhythm Types	8 types
Tone Generator Range	A2 - A6
Display	Full Color LCD
Power Source	Rechargeable Lithium Battery
Charging Port	USB-C (5V)
Automatic Power-Off	After 3 minutes of inactivity
Item Weight	2.08 ounces (approximately 59 grams)
Dimensions	3.19 x 2.56 x 1.93 inches (approximately 8.1 x 6.5 x 4.9 cm)

6. TROUBLESHOOTING

- **Device does not power on:**
 - Ensure the battery is charged. Connect the device to a USB-C charger and allow it to charge for at least 30 minutes.
 - Press and hold the **Power/Play** button for 2 seconds to ensure it's not just a short press.
- **Tuner is inaccurate or not detecting notes:**
 - Ensure the device is securely clipped to the instrument's headstock. Vibrations are picked up through the clip.
 - Check that you are in the correct tuning mode (e.g., Guitar mode for guitar, Chromatic for other instruments or specific tunings).
 - Pluck strings clearly and individually. Avoid background noise.
 - Verify the A4 reference frequency is set correctly (default 440Hz).
- **Metronome sound is too low or too high:**
 - Hold the **Rhythm/Volume/Flat** (♭) button to adjust the volume level.
 - Ensure the speaker is not obstructed.
- **Battery not charging:**
 - Ensure the USB-C cable is properly connected to both the device and the power source.

- Try a different USB-C cable or power adapter.
- Verify the power source is active (e.g., wall outlet, computer USB port).

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or abrasive materials.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. Recharge when the battery indicator is low. If storing for extended periods, charge the device every few months.
- **Avoid Impact:** Protect the device from drops and impacts, which can damage the internal components or screen.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official LEKATO website. Keep your purchase receipt as proof of purchase.