Thank you for choosing CLIP Micro Clip Metro-tuner. Please read the user's manual carefully before using this product, and operate the product according to the manual. Please keep this manual for later reference.

**CAUTION**
- Do not open the casing for any reason as this may cause short circuit or malfunction of the product.
- Do not apply excessive force to the products. In the event of the product suffering breakage, be careful not to damage yourself with the broken pieces.
- Do not put in any liquid nor foreign object.
- Keep unit away from dust, extreme temperatures and humidity.
- When the unit is not in use for a long period of time, remove the battery to prevent leakage.

Micro clip tuner has been constructed using state-of-the-art technology and the finest materials. The circuitry has been tested for reliability by our staff of qualified technicians under performance conditions. Simple care and maintenance will provide long life. The unit is powered by a CR2032 (3V) lithium battery. When the back light on LCD or LED indicator light becomes weak in color, replace the battery in order to achieve the best tuning results from J&H Micro Clip Metro-Tuner.

**Operation panel & Function instruction**

**OPERATING PROCEDURE**
Keep Pressing button ① for 2 seconds to turn on the power, you can press it again to choose the mode for Tuner, Metronome and Tone generator. Keep pressing the button for 2 seconds again to turn off. The power will be turned off automatically 3 minutes later if the unit has been left unattended.

**Tuner**
1. Turn on the power and press① to select the metronome mode.
2. Select the volume by button③. The volume has four choices, big volume, middle volume, small volume and mute, the result is indicated at position A of LCD.
3. Press button ② to select beat from 0 to 9 and the result will be displayed in F position of LCD.
4. Press button ⑦ to choose the rhythm: ①②③④⑤. The result is indicated at position C.
5. Press button ③ and ⑤ to select metronome tempo. Button ⑥ is for increasing the tempo, button ⑦ is for decreasing the tempo. Keep pressing these buttons to change the tempo continuously. The tempo range is from 30 BPM to 250 BPM. The result is indicated at position B.

**Tone generator**
1. Turn on the power and select any one of Chromatic(C), Guitar (G), Bass Guitar (B) and Violin (V) with button ② under tuner mode. The result is indicated at position D.
2. It cannot be changed under tone generator mode.
3. Select the tone volume by button④. The volume has four choices, big volume, middle volume, small volume and mute, the result is indicated at position A of LCD.
4. In the case of Chromatic(C), select a tuning scale with Key button⑥, and the result of selection is indicated at F position. Four kinds of scales, namely C, Bb, Eb and F major, can be selected. Usually, the C major scale is used for tuning guitar, etc.
5. Guitar(G), Bass guitar(B) and Violin(V) are set on the C-scale. It cannot be changed.
6. For changing calibration (reference pitch): Press button ③, reference pitch can be varied within the range of 430Hz-450Hz with 1Hz step of increment. Leave the button pressed causes automatic increment. Result is indicated at position B.

**Battery replacement**
The LCD display becomes dark as the battery life decreases. Be sure to cut the power supply and replace the battery CR2032 with new one. Take care not to confuse its polarities. When the unit is not used for a long time, remove the battery from the unit.

**SPECIFICATIONS**
- Power source: Button battery CR2032 (3V) 1 piece
- Automatic power off: Power is cut off after the unit is left unattended for about 3 minutes
- Display: Backlight LCD display
- Tuning mode: Chromatic, Guitar, Bass, Violin mode.
- Measuring range: A0-20(7.5Hz)-C6(4186.0Hz)
- Measurement accuracy: ±1 cent
- Calibration range: A4=430Hz-450Hz
- Tuning scale: C major, Bb major, Eb major, F major
- Flat tuning: I-4 semitones
- Assist indicator: LED TUNE=green b, f-red
- Sound detection: Vibration sensor, built-in microphone
- Tones generated: E1(1.2Hz)-A6(880.0Hz)
- Beat: 0-9
- Tempo range: 30BPM-250BPM
- Rhythm: ①②③④⑤
- Volume: big, middle, small, mute.
- Dimensions tuner body: 60(W) x 33(H) x 22(D)
- Weight: Approx. 41g

*Subject to change without prior notice.*

Co., Ltd.
注意事项
1. 本产品用于或放置于其他环境下可能引起产品的损坏。
2. 请不要长时间将本产品置于高温或潮湿的环境中。
3. 洁净环境。
4. 请不要使用干净、柔软的干布擦拭本产品。如需使用其他清洁剂，请先用干净的软布擦拭。
5. 公司新款数字多功能节拍校音器采用了最新的技术，可根据最实际的需要配置不同的功能。
6. 本产品内部电表的显示屏及微处理器的可靠性通过长期测试确认。只需进行简单的保养就可延长其使用寿命。

面板及其功能说明
- 开关机按键：电源选择（T）、开机/关机（B）。
- 音量选择（MIC）：可选择不同的音量。
- 音量调整（VOLUME）：可调整音量。
- LED指示灯：表示工作状态。
- 音频输入和MIC输入开关：可选择不同的音频输入。
- LCD显示：显示当前的参数。

操作说明
1. 按住开关机按键①大约2秒后开机。开机后短时间按此键可以切换模式。
2. 按住开关机按键②大约2秒后关机。关机后短时间按此键可以切换模式。
3. 按住开关机按键③大约2秒后开机。开机后短时间按此键可以切换模式。
4. 按住开关机按键④大约2秒后关机。关机后短时间按此键可以切换模式。
5. 按住开关机按键⑤大约2秒后开机。开机后短时间按此键可以切换模式。
6. 按住开关机按键⑥大约2秒后关机。关机后短时间按此键可以切换模式。

电表及更换
- 电表使用方法：取下电表箱的电池后，按住电表箱的开关，直到电表箱内的电表全部电量显示。
- 电表更换方法：取下电表箱的电池后，按住电表箱的开关，直到电表箱内的电表全部电量显示。

技术参数
- 电 源：1个CR2032（3V）电池
- 自动关机时长：5小时
- CAN-BUS接口：提供总线通信接口。
- LCD显示：显示当前的参数。
- 音频输出：MIC输入，通过MIC输入进行音频输出。
- 音频输入：通过MIC输入进行音频输入。
- 电表更换：需使用专用工具。
- 重量：约41克
- 尺寸：约43x30x10毫米

注意：本产品为进口产品，严禁在高温、高湿环境下使用。