

使用说明书

cherubtechnology.com



DT-10 鼓校音器



DT-10 Drum Tuner



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User Manual

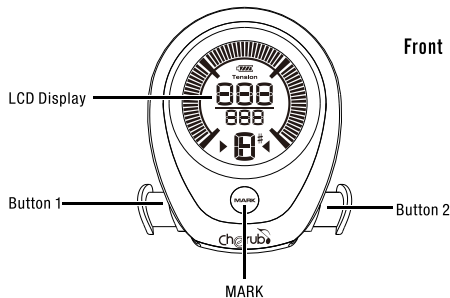
DT-10 DURUM TUNER USER MANUAL

Thank you for choosing Cherub DT-10 Drum Tuner! DT-10 is the easiest drum tuner to make your drum kits sound good! It is fast, accurate and professional!

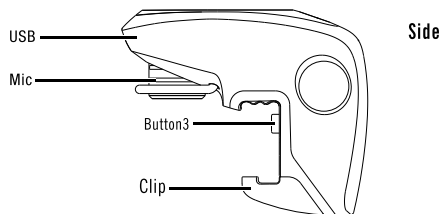
INTRODUCTION

The pitch, tone of a drum kit really depends on musicians' personal taste and styles. However, whatever your style is, you have to evenly tune pitch and tension around the drumhead. Drummers have been using only their ears to do the tuning, but it is difficult to be accurate, especially for beginners or at noisy environments. Cherub DT-10 detects the pitch and related tension at real time, displays on the LCD, and directs you to turn the tension rods to make the pitch and related tension value even. With Cherub DT-10, you can easy make the drumhead sound balanced and have your intervals right for your toms.

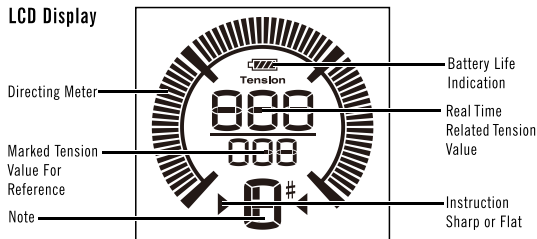
INTERFACE



DT-10 DURUM TUNER USER MANUAL



LCD Display



Button 1 and Button 2

Press these two buttons to turn on the power of DT-10 and open clamp.

Button 3

Press and hold Button 3 allows you to pull the clamp out so that it fits different types of drum rims.

Microphone

This is for picking up the acoustic sound of drums.

USB jack

The battery of DT-10 is rechargeable from USB.

Mark button

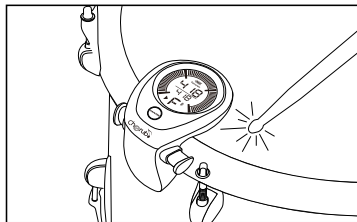
Lock the pitch that you want and shows the reference value. Press to turn on the tuner, press and hold to turn off the tuner.

OPERATION

1. Press Button 1 and Button 2 simultaneously to open the clamp, and the power of DT-10 will be automatically turned on. You can also press MARK button to turn on the power.

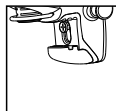
To turn off the power, press and hold MARK button for 2 sec. DT-10 will also automatically turn off the power if there is no signal detected by the microphone for 5 minutes.

2. Clip the tuner on the rim of a drum, near the tension rod that you want to tune.
3. Hit the drumhead at a position that is 1 inch away from the tension rod with a drum stick, DT-10 will automatically read the note and the related tension value on the screen.

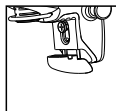


4. Turn the tension rod to change the sound of drumhead, until you hear the pitch you like. Press MARK button to lock this note and the current related tension value will be marked as a reference value that is shown below the real-time tension value position.
5. Remove the DT-10 and clip it to the position that is close to next tension rod, and hit the drumhead near this tension rod. If the current pitch and tension value is lower than the reference, the backlight of the screen will turn orange, and the meter will be moving clockwise, which means you need to tighten this tension rod. Otherwise, if the current tension value is higher than the reference, backlight of the screen will turn red, and the meter will be moving counterclockwise, which means you need to loosen this tension rod. If the current pitch is the same as the reference, the screen will turn green.
6. Use the same way to tune every single tension rod with the same reference value, until sound of drumhead to be balance.
7. Use the same way as step 6. to tune around the drumhead until all of the tension rods are totally even, and the drum has the sound that you want it to. You may have to go over all of the tension rods several times until you get the desired tone.
8. The clamp of DT-10 is designed to fit different types of rims. You can press Button 3 and pull out the clamp to fit bigger rims. There are 4 steps of the clamp:

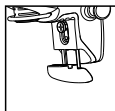
Step 1: 27-31 mm



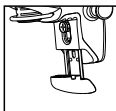
Step 2: 30-37 mm



Step 3: 36-43 mm



Step 4: 42-52 mm



SPECIFICATIONS

- Tuning Range : 30-500Hz
- Accuracy : 0.1Hz
- Power : USB Rechargeable
- Battery Life: 5 Hours
- Weight: 155g

*Specification may change without notice.

PRECAUTIONS

- 1.Environmental conditions:
Avoid using in high temperature, humidity, fog and other harsh environments.
Avoid using under strong direct light.
Avoid using in dusty environment.
- 2.Do not disassemble the unit, intentionally artificial damage is not covered by the warranty.
- 3.Do not use liquid to clean this product.
- 4.Please keep this manual for future queries.

ACCESSORIES

- Owner's manual
- USB Cable

▲ NOTE: Our product uses Li-polymer battery, before using the product, please charge the battery first. When not using for a long period, charge or activate it in 3 months.

THE FCC REGULATION WARNING (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CE mark for European Harmonized Standards

CE Mark which is attached to our company's products of Battery mains the product is in fully conformity with the harmonized standard(s) EN 61000-6-3:2007+A1:2011 & EN 61000-6-1:2007 Under the Council Directive 2004/108/ EC on Electromagnetic Compatibility.

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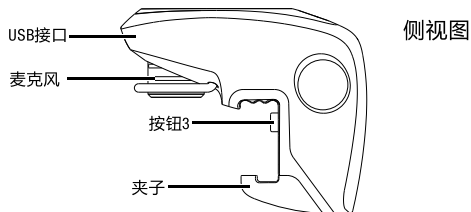
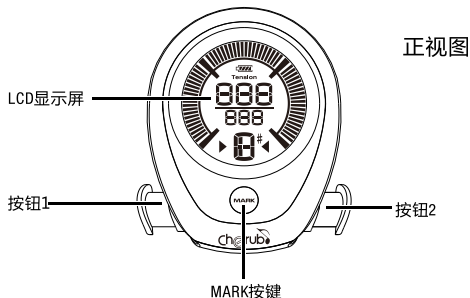


感谢您购买小天使Cherub DT-10原声鼓校音器。DT-10可能是世界上最简单易用的鼓调音器，让你的鼓听起来精准动听！它方便，准确，专业！

产品简介

鼓的音高和音色没有标准，常常取决于个人喜好和风格，但是无论你喜欢什么音色，都要把鼓皮的音高和张力调节平衡。一直以来，鼓手只能靠用耳朵听去进行这种调节，但是耳朵判别难免存在误差，尤其对于初学者来说更是困难。Cherub DT-10可以实时检测鼓皮各个位置的音高和相对张力，直观地显示出来，帮助你把整个鼓面的音高和相对张力调到一致。通过DT-10，你可以轻松得到平衡的音色，并且把一套鼓按你喜欢的音程关系准确调出来。

操作界面



LCD显示屏



按钮1和2

将两个圆柱形按钮向内按下即可开机，同时亦可张开夹子。

按钮3

按下此按钮可以把夹子的拉杆拉长或缩短，用以适应不同尺寸的鼓边。

麦克风

拾音

USB接口

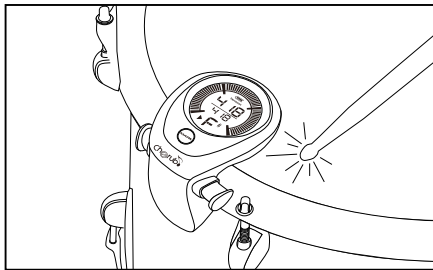
充电电源接口。

MARK键

锁定你想要的音高作为参考值。另外短按可开机，再长按可关机。

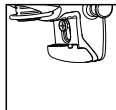
操作说明

1. 本产品不需要安装电池，通过USB连接线充电即可使用。
2. 按下调音器按钮1、2即可自动开机并同时张开夹子，松开夹子则自动关机。另一种开机和关机的方式：按一下MARK键可开机，长按MARK键可以关机。五分钟内麦克风没有检测到任何信号，DT-10会自动关机。
3. 把校音器夹在鼓箍上，并靠近某个调节鼓皮张力的螺丝。
4. 在离此鼓皮调节螺丝往鼓面中心一寸的位置，用鼓棒敲击鼓面，DT-10将会自动读取音高和相对张力值，并显示在屏幕上。



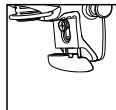
5. 拧动鼓皮张力调节螺丝以改变此处鼓皮的声音，DT-10可以实时检测到当前的音符和相对张力值的变化。根据您的个人喜好调整到喜欢的音高之后，按下MARK键，校音器将会自动锁定这一音高和相对张力值，并在屏幕上显示为参考值。
6. 把DT-10移到靠近下一个鼓皮张力调节螺丝的位置，并敲击相应位置的鼓面。在此位置所获得的音高会在校音器上显示出来并与上一步锁定的参考值进行自动对比。当敲击的音高低于锁定的参考值时，屏幕呈现橙色，方向指针会往顺时针方向转动，提示您需要将鼓皮调节螺丝往顺时针方向拧动；当敲击的音高高于锁定的参考值时，屏幕呈现红色，方向指针会往逆时针方向转动，提示您需要将螺丝往逆时针方向拧动。当此处的音高和锁定的参考值一样时，屏幕将会显示绿色，即表示两个音高完全一致。
7. 使用以上同样的方法，将所有鼓皮张力螺丝附近的鼓皮都调整到一致，最终将整个鼓面调整到平衡状态。
8. 另一面的鼓面如需进行校音，请把DT-10夹在另一面的鼓面上并重复以上所有步骤。
9. 如果所需校音的鼓的鼓边比较宽，可以按下按键3，并把夹子的拉杆往下拉长。拉杆共有4个档位以适用于不同宽度的鼓边：

档位 1



27-31 mm

档位 2



30-37 mm

档位 3



36-43 mm

档位 4



42-52 mm

技术规格

- 校音范围：30-500Hz
- 正弦波精度：0.1Hz
- 反应时间：500ms
- 电源：USB充电（充满可用5小时）
- 重量：155g

★ 技术规格如有变更，恕不另行通知。

注意事项

1.使用环境：

- 避免在高温、潮湿、雾下等恶劣环境中使用。
- 避免在强光下使用。
- 避免在灰尘等污染严重的环境中使用。

2.请勿自行拆卸本机，请勿故意破坏本机。故意人为损毁本机不在保修范围之内。

3.请不要用液体清洁剂来擦拭本产品。

4.请保存好本手册以便以后查询。

随机附件

- 操作说明书
- USB充电线
- 产品合格证



注意：我们的产品使用的是聚合物锂电池，在使用产品前，请先行给本产品充电；若长时间不使用，超过三个月后给本产品充电一次或激活。

有关产品中所含有害物质的说明

本资料就本公司产品中所含的特定有害物质及其安全性予以说明。

本资料适用于2007年3月1日以后本公司所制造的产品。

环保使用期限



此标志适用于在中国国内销售的电子信息产品，表示环保使用期限的年数。所谓环保使用期限是指在制造日起的规定期限内，产品中所含的有害物质不致引起环境污染不会对人身、财产造成严重的不良影响。环保使用期限仅在遵照产品使用说明，正确使用产品的条件下才有效。不当的使用，将会导致有害物质泄漏的危险。

产品中有毒有害物质或元素的名称及含量

部件名称	有害有毒物质或元素					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
外壳(壳体)	×	○	○	○	○	○
电子部件(印刷电路板等)	×	○	×	○	○	○
附件(电源线、交流适配器等)	×	○	○	○	○	○

○：表示该有害有毒物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规范的限制要求以下。

×：表示该有害有毒物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求，因根据现有的技术水平，还没有什么物质能够代替它。

质量承诺

亲爱的 **小天使** 用户：

在您使用 **小天使** 产品时，请仔细参阅产品说明书，当您有疑问和困难时，请拨打售后服务热线：

400-990-9866

- 一周内出现质量问题可退货退款
- 一月内出现质量问题可调换
- 一年内出现质量问题可免费维修
- 终身享有咨询和维修服务

[请向销售商索取有效购买凭证并予以保存]

换修政策

一、包换政策：

1、消费者自购机之日起1个月之内，在正常使用情况下，出现非人为的产品性能故障，且产品外观及包装保持完好的可向所购机的经销商换机。

2、消费者在换机时应出示由经销商开出的购机收据及保修卡，否则经销商可以不予更换。

二、保修政策：

产品在购买之日起1年内，可免费享有维修服务；对于超过1年的产品及人为或不可抗力因素造成损坏的产品，我司可提供有偿维修服务。

售后服务地址

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执行标准：Q/WKDJ 004-2020

