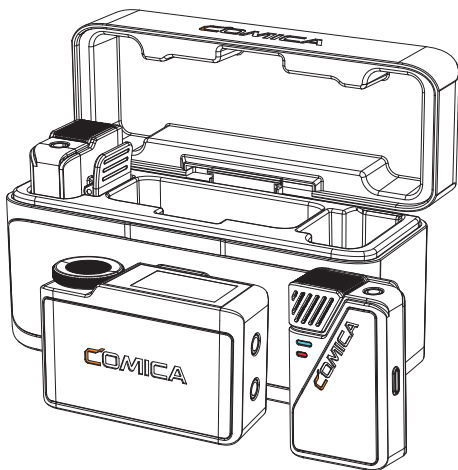




BooMax

2.4G On-board Recording Wireless Microphone

User Manual

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Foreword

Thank you for purchasing Comica BooMax Wireless Microphone

Main Features

- 2.4G Dual-channel Wireless Mic, Remarkable Audio Quality
- 48kHz/32-bit Float Recording, Flawless Audio Recording
- 32G On-board Recording for 40-hour Audio Storage
- Internal Dual Mics, Cardioid/Omnidirectional Pattern Switch
- Exclusive Comica Audio APP for More Functions
- IPS Touchscreen with a Dial for Efficient Operation
- Adopt CalMix® AI Denoise Algorithm, Two-stage Denoise
- 3.5mm TRS External Mic Input, More Flexible Applications
- Support Real-time Monitoring, Digital&Analog Outputs
- Charging&Storage Case, Duration Up to 20 Hours
- Working Range Up to 250m, Stable&Low Latency(Open Area)

Notice

- ⚠ It is better to keep face to face when using it and not turn your back to the receiver. Otherwise, it is easy to generate breakpoints, which is a normal phenomenon
- ⚠ The STEREO function can not be realized when recording in single-channel
- ⚠ The transmitters and receiver will automatically shut down after 30 minutes of disconnection for the devices' protection
- ⚠ The device is a high-precision equipment, please prevent it from falling, collision, or pounding
- ⚠ Do not use this device near sources of heat or interference, such as radiators, ovens, refrigerators, air conditioners, etc
- ⚠ If the sound pickup distance is close or record outdoors, please put the wind muff on the transmitter to prevent sound bursting or reduce wind noise
- ⚠ Please keep the device in a dry environment; do not use the device in rainy or damp environments to avoid short-circuit danger

Packing List

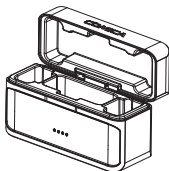
Main Parts:



Transmitter (TX)*2



Receiver(RX)*1



Charging Case*1

Accessories:



USB Charging/
Audio Output Cable*1



3.5mm TRS-TRS
Audio Cable*1



Wind Muff*2



Magnetic Plate*2



Carrying Pouch*1



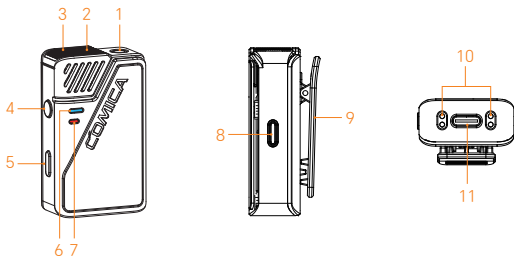
User Manual*1



Warranty Card*1

■ Components and Instruction

Transmitter (TX):



1. 3.5mm TRS Port

External Mic Input

2. Cardioid Pattern Mic

3. Omnidirectional Pattern Mic

4. Power/Mute Button

Long press to power on/off; Short press to switch on/off muting



If there are abnormal phenomena such as a crash or failure to turn on, please long press the power button for 10 seconds to reset

5. Pair/Denoise Button

Long press to enter pairing mode; Short press to turn on/off denoise

6. Working Indicator Light

Blue light blinks slowly	Unpaired
Blue light blinks quickly	Pairing
Blue light keeps on	Paired
Green light keeps on	Denoise on
Red light keeps on	Mute on
Red light blinks slowly	Low power
Red light keeps on when power is off	Charging
Blue light keeps on when power is off	Fully charged

7. On-board Recording Indicator Light

Red light keeps on when on-board recording is turned on

8. REC Button

Short press to turn on on-board recording; Long press to turn off on-board recording

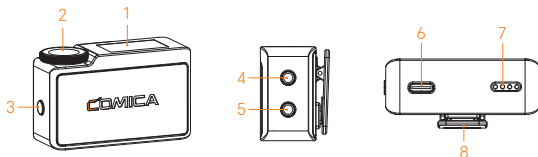
9. Belt Clip

10. Charging Pad

11. USB-C Port

To connect power bank/DC power supply for charging; or connect to computer for upgrading or copying on-board recording files

Receiver (RX):



1. Touchscreen

Displays real-time information of RX and TX, such as channel mode, gain level, wireless signal, battery power, audio dynamic, polar pattern, etc. Swipe left, right, or down to access the settings menu. Please refer to "Receiver Touchscreen Settings" for details

2. Dial

When the receiver is on the home screen, press once then rotate to adjust the gain of transmitter or receiver. Long press to enter the Control Menu. Select and confirm relevant settings by rotating and pressing the dial

3. Power/Screen Lock Button

Press and hold to power on or off. When the receiver is on the home screen, press once to lock or unlock the screen. When the receiver screen is not on the home screen, press once to return to the previous level



If there are abnormal phenomena such as a crash or failure to turn on, please long press the button for 10 seconds to reset

4. Monitoring Port

Plug in 3.5mm TRS/TRRS earphone to monitor transmitter's audio

5. 3.5mm TRS Output Port

To output analog audio

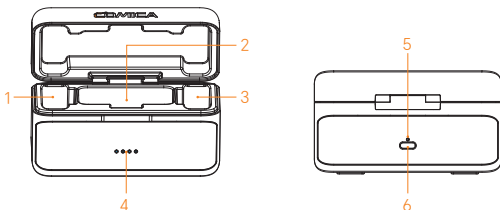
6. USB-C Port

To connect power supply for charging; or to connect a USB device for outputting digital audio

7. Charging Pad

8. Belt Clip

Charging Case :



1. TX Position

2. RX Position

3. TX Position

4. **Battery Indicator Lights**

There are four lights, each representing 25% power

5. **Reset Hole**

If there is any abnormality in charging, press a pin into the hole to reset it

6. **USB-C Port**

To connect power supply for charging

■ Installation and Usage

Pairing

TX and RX are paired by default. If you need to re-pair, please refer to the following method:

1. Restart TX and RX



2. Long press the TX pairing button to enter the pairing state. The working indicator light flashes quickly in blue



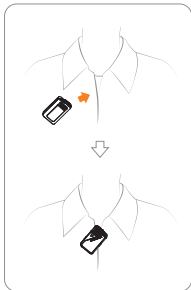
3. Operate RX to enter control menu, and select "Settings - Link Device - Link - Confirm". After pairing, the TX working indicator light keeps on blue, and the RX screen displays TX audio information



Usage

Transmitter(TX):

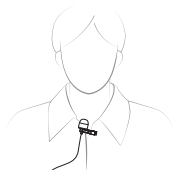
1. It can be clipped directly to the collar for use, or attached to the clothes through the magnet plate



2. It is recommended to put on the wind muff when used in outdoors or windy environments



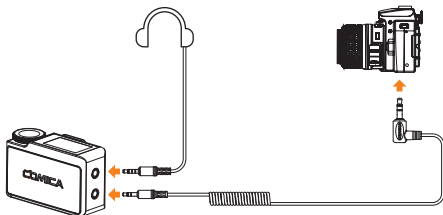
3. When using an external microphone, the internal microphone will automatically turn off



Receiver(RX):

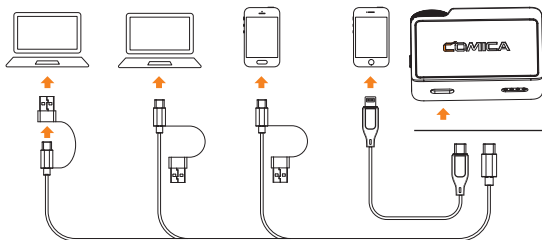
1. Analog Output

Output audio to the camera via the 3.5mm TRS-TRS audio cable;
Choose whether to monitor according to your personal need



2. Digital Output

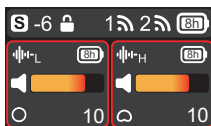
Output audio to smartphone/computer via the USB 2-in-1 audio cable or
USB-C to Lightning audio cable;
Choose whether to monitor according to your personal need



👉 Please purchase a USB C-Lightning adapter/cable that supports OTG function when connected to lightning port devices

3.Touchscreen Operation

3.1.Home Screen:



RX Status Display



Stereo Mode/Mono Mode/Safety Mode

-6

Output Gain Level



Screen Lock



Wireless Signal Connected to TX



Battery Power

TX Status Display



Low-level Denoise/High-level Denoise



Battery Power



Mute Off/Mute On



Audio Dynamic Bar



Cardioid Pattern/Omnidirectional Pattern

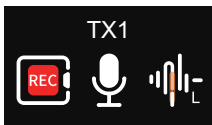
10

Input Gain Level

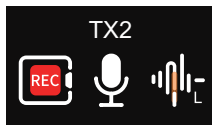


On-board Recording

3.2.Swipe-right/Swipe-left(Swipe-up to Return to Home Screen):



Swipe-right TX1



Swipe-left TX2

TX1/2 Quick Settings



On-board Recording Switch



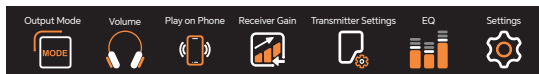
Mute Switch



Denoise Switch

3.3.Swipe-down(Swipe-up to Return to Previous level):

Enter Control Menu



Output Mode

To switch Stereo/Mono/Safety mode



Volume

To adjust monitor volume between-18 -- +18dB



Play on Phone

Play sound by phone



Receiver Gain

To adjust receiver gain level between-18 -- +18dB



Transmitter Settings



Pickup Pattern

To switch Omnidirectional/Cardioid pattern



Transmitter Gain

To adjust gain level between 0-20dB



Denoise

To switch denoise off/low-level denoise/high-level denoise



Auto Record

When enabled, the transmitter automatically starts recording independently as soon as it is powered on or taken out of the charging case



REC Bit Depth

To switch on-board recording specification between 24-bit/32-bit float recording



REC Stop Lock

When enabled, users cannot stop the on-board recording via the REC button on transmitter



Formatting

To format TX on-board recording files



LED Brightness

To adjust the TX indicator brightness



EQ

To switch the Low Cut/High Fidelity/High Frequency Boost mode



Settings

Link Device



Language



Date/Time



Bluetooth



Upgrade



Screen Brightness



Factory Reset



Version



Certification



Link Device

Tap to link the receiver with transmitters



Language

To switch Chinese/English



Date/Time

Set the date and time for the on-board recording files



Bluetooth

To turn on/turn off/reset Bluetooth, or check Bluetooth Address



Upgrade

Tap to make RX into upgrade mode



Screen Brightness

To adjust RX screen brightness



Factory Reset

Tap to reset to default settings



Version

Tap to view the Serial Number



Certification

View the compliance information

On-board Recording:

Select the function according to personal need

Method 1: Short press the TX REC button to turn on on-board recording.

Long press the button to turn off the on-board recording



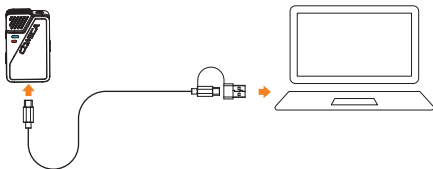
Method 2: When the RX is on the home screen, swipe left or right to enter the TX quick settings, select TX and tap the REC option to turn on or turn off the on-board recording



Files automatically split every hour. The total recording time is 40 hours. When the 32G memory is full, the new recording file will overwrite the old recording file

Copy On-board Recording Files:

Turn off the TX and connect it to a computer via the USB audio output cable. Open the BooMax TX disk and enter the REC folder to copy the audio



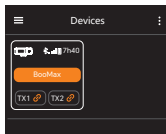
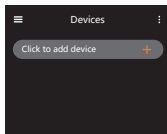
APP Connection and Operation

1. Search and download the "Comica Audio" APP in your mobile phone APP store

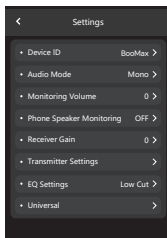
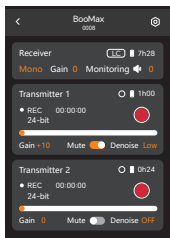


Comica Audio

2. Turn on the Bluetooth of your mobile phone
3. Open the APP to search and pair device: BooMax



4. The receiver and transmitters can be set and operated through the APP



If the Bluetooth pairing fails or the device needs to be connected to a new phone, please reset the device's Bluetooth. Please follow the operation below: Operate RX to enter control menu, tap Settings--Bluetooth--Off--Reset--Confirm, and finally turn Bluetooth on

Upgrade

Firmware Upgrade

1. Download the BooMax firmware upgrade package to your computer from the Comica official website

2.1 Turn the TX off and connect it to a computer via the USB audio cable.

Copy the firmware upgrade package on the computer to the BooMax TX---UPDATE folder. Disconnect the USB audio cable and restart TX to upgrade automatically

2.2 Enter the RX control menu, and tap "Settings---Upgrade---Confirm" to enter the upgrade mode. Connect the RX to a computer via the USB audio cable, and copy the firmware upgrade package on the computer to the BooMax RX---UPDATE folder. Disconnect the USB audio cable and restart RX to upgrade automatically

Bluetooth Connection Upgrade

Enter the Comica Audio App and connect with BooMax. Then go to the BooMax homepage and select the settings icon in the upper right corner---Universal---Firmware Upgrade

Specification

Wireless Frequency	2402MHz ~ 2480MHz
Antenna	Ceramic Antenna
Transmitting Power	10dBm
Receiving Sensitivity	-96dBm
Polar Pattern	Omnidirectional/Cardioid Pattern
Microphone Sensitivity	Omnidirectional: -30dB±2dB Cardioid: -37dB±2dB
Frequency Response	Omnidirectional: 50Hz ~ 20kHz Cardioid: 100Hz ~ 20kHz
S/N	Omnidirectional: 73dB SPL(A-weighted,as per IEC651) Cardioid: 67dB SPL(A-weighted,as per IEC651)
Equivalent Noise	Omnidirectional: 21dB SPL(A-weighted,as per IEC651) Cardioid: 27dB SPL(A-weighted,as per IEC651)
Maximum SPL	Omnidirectional: 115dB SPL(< 3% THD) Cardioid: 115dB SPL(< 3% THD)
Dynamic Range	Omnidirectional: 94dB SPL(A-weighted,as per IEC651) Cardioid: 88dB SPL(A-weighted,as per IEC651)
Sound Delay	< 20ms
On-board Recording Capacity	32GB
USB Specification	48kHz/24bit
Battery	TX:Li-polymer 400mAh 3.8V RX:Li-polymer 600mAh 3.8V Charging Case:Li-polymer 2800mAh 3.8V

Charging Time	TX:2 Hours RX:2 Hours Charging Case:2 Hours
Battery Life	TX:10 Hours/On-board Recording:5 Hours RX:8 Hourss Charging Case:1.5 Times
Net Weight	TX:32.2g RX:45.7g Charging Case:165.6g
Dimension	TX:21.3 x 30.5 x 50.0mm RX:58.0 x 26.2 x 35.5mm Charging Case:116.0 x 42.0 x 63.0mm
Working Temperature	0℃ ~ 50℃
Storage Temperature	-20℃ ~ 60℃



Website: comica-audio.com

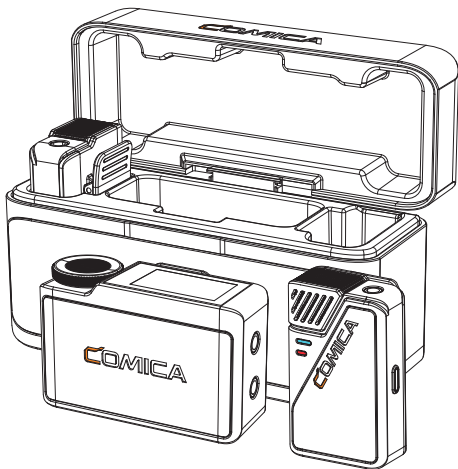
Facebook: Comica Audio Tech Global

Instagram: Comica Audio

YouTube: Comica Audio

COMICA is a registered trademark owned by Commlite Tech Co.,Ltd

Email: support@comica-audio.com



BooMax

2.4G双通道无线麦克风系统

使用说明书

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前言

感谢您购买科唛BooMax 2.4G双通道无线麦克风系统

主要功能

- 2.4G双通道无线麦克风系统，卓越音质
- 48kHz/32-bit浮点录音，高品质录音
- 32G内存板载录音，高达40小时内录存储
- 内置双咪头，支持心型指向/全指向双模式
- 搭配科唛官方APP使用，一站式便捷操控
- IPS触控屏及拨轮设计，操作简单快捷
- 科唛自研CalMix® AI智能降噪算法，支持两档降噪
- 支持3.5mm TRS外置麦克风输入,使用更灵活
- 支持实时监听，数字&模拟双输出
- 可收纳多功能充电盒，总续航高达20小时
- 传输距离高达250米，稳定低延迟(空旷环境)

注意事项

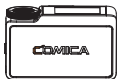
- ⚠ 使用时尽量保持面对面，避免背对的情况，否则容易产生断点，属正常现象
- ⚠ 单通道模式下，立体声(STEREO)功能不可实现
- ⚠ 发射器与接收器断开连接30分钟后将自动关机以保护设备
- ⚠ 本产品属于高精密仪器类产品，请避免使用时掉落、碰撞或重击
- ⚠ 请勿将本产品放置在热源或干扰源附近使用，如散热器、烤箱、冰箱、空调等
- ⚠ 如拾音距离较近或于户外使用时，请套上麦克风防风毛，防止声音爆裂或降低风噪
- ⚠ 请在干燥环境中保存该产品，不要在雨中或潮湿的环境中使用该产品，否则会有短路的危险

■ 包装清单

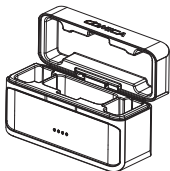
主体:



发射器(TX)*2



接收器(RX)*1



充电仓*1

配件:



充电/输出
二合一连接线*1



3.5mm TRS-TRS
音频线 *1



防风毛*2



背夹磁铁*2



便携包



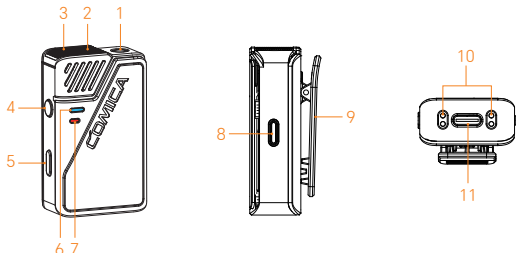
说明书*1



保修卡*1

■ 部件介绍及说明

发射器(TX):



1. 3.5mm TRS插口

外置麦克风输入

2. 全指向咪头

3. 心型指向咪头

4. 电源/静音按键

长按开/关机；短按开启/关闭静音

 如出现无法开机等异常情况，长按电源键10秒即可复位

5. 配对/降噪按键

长按进入配对状态；短按开启/关闭降噪

6. 工作指示灯

蓝灯慢闪	未配对
蓝灯快闪	配对中
蓝灯长亮	已配对
绿灯长亮	降噪开启
红灯长亮	静音开启
红灯慢闪	低电量
关机时红灯长亮	充电中
关机时蓝灯长亮	电量充满

7. 内录指示灯

开启内录时红灯长亮

8. REC内录按键

短按开启内录;长按关闭内录

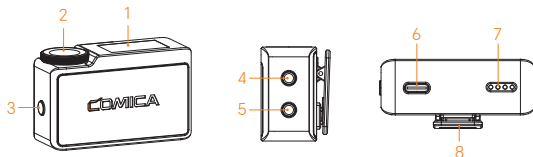
9. 背夹

10. 充电触点

11. USB-C接口

连接电源充电;连接电脑拷贝录音文件或升级

接收器(RX):



1. 触控显示屏

实时显示RX和TX的声道、增益等级、无线信号、电量、音频动态、咪头指向等信息。在屏幕左、右、下滑动可进入设置页面。请参考“接收器触控屏设置”了解详细信息

2. 拨轮

当屏幕处于主界面时短按选择RX或TX，旋转可调节增益等级。长按可进入控制中心，通过转动和按压拨轮进行选择及确认相关设置项

3. 电源/锁屏按键

长按开/关机；屏幕处于主界面时短按锁屏或解锁；屏幕处于非主界面时短按返回上一级

 如出现无法开机等异常情况，长按电源键10秒即可复位

4. 监听接口

可插入3.5mm TRS/TRRS耳机进行监听

5. 3.5mm TRS输出接口

输出模拟音频

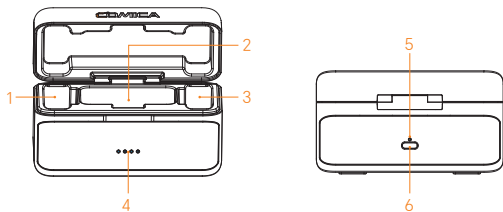
6. USB-C接口

连接电源充电；连接设备输出数字音频

7. 充电触点

8. 背夹

充电仓:



1. TX位置

2. RX位置

3. TX位置

4. 电量指示灯

共有四颗指示灯，每颗代表25%电量

5. 复位孔

如充电有异常，使用卡针插入复位孔即可复位

6. USB-C接口

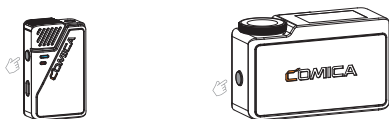
连接电源充电

■ 安装与使用

配对

TX和RX出厂时默认配对。如有异常需要重新配对，请参照以下方法操作

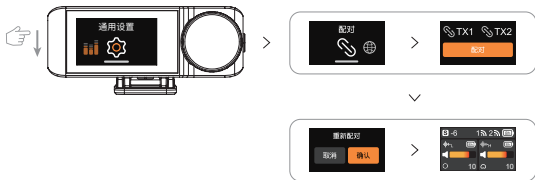
1. 将TX和RX重新开机



2. 长按TX配对按键进入配对状态，此时工作指示灯蓝灯快闪



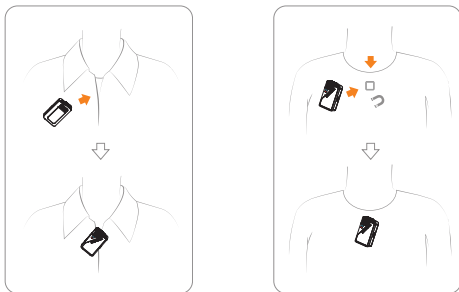
3. 操作RX进入设置菜单，选择“通用设置—配对—配对—确认”； 配对成功后TX工作指示灯蓝灯长亮，RX屏幕主界面显示TX音频动态等信息



使用

发射器(TX):

1. 可直接夹于衣领上使用，也可通过背夹磁铁吸附于衣服内



2. 在户外或有风的环境中，建议使用防风毛



3. 当使用外置麦克风时，内置麦克风会自动关闭

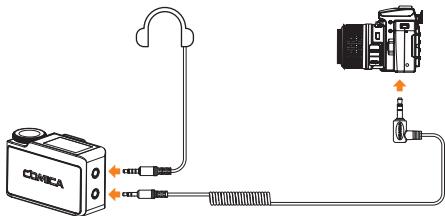


接收器(RX):

1. 模拟输出

通过3.5mm TRS-TRS音频线输出音频至相机；

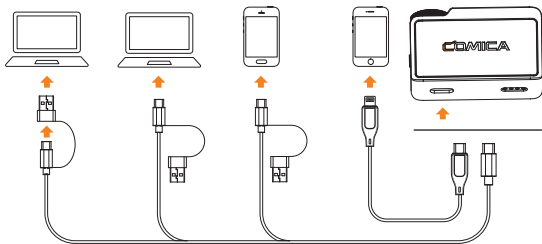
可根据个人需求选择是否进行监听



2. 数字输出

通过USB输出二合一连接线或USB-C转Lightning音频线输出音频至手机/电脑；

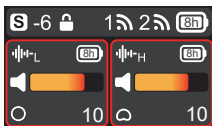
可根据个人需求选择是否进行监听



👉 搭配Lightning接口设备时，请自行购买支持OTG功能的USB C-Lightning转接线/转接头

3.触控屏设置

3.1.主界面:



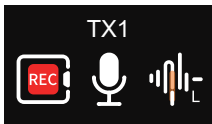
RX状态显示

	立体声/单声道/安全音轨
-6	输出增益等级
	屏幕锁定
1 2	与TX连接的无线信号强度
	电池电量

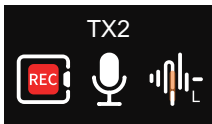
TX状态显示

	低级降噪/高级降噪
	电池电量
	静音关闭/静音开启
	音频动态条
	心型指向拾音/全指向拾音
10	输入增益等级
	正在内录中

3.2.右滑/左滑(上滑返回主界面):



右滑TX1



左滑TX2

TX1/2快捷设置



内录开关



静音开关



降噪切换

3.3.下滑(上滑返回上一级):

进入控制中心



声音模式

可切换立体声/单声道/安全音轨



监听音量

音量调节范围-18 - +18dB



手机外放

通过手机播放声音



RX增益

增益调节范围-18 - +18dB



TX设置

麦克风指向



TX增益



降噪



自动录制



录制位深



内录开关防误触



内存格式化



指示灯亮度



麦克风指向

可切换全指向/心型指向



TX增益

可调增益范围0-20dB



降噪

可切换降噪关闭/低级降噪/高级降噪



自动录制

开启后每次开机均会自动录音



录制位深

可切换24-bit/32-bit F录音规格



内录开关防误触

开启后无法通过TX内录按键关闭录音



内存格式化

可格式化TX内录文件



指示灯亮度

可调节TX指示灯亮度



EQ设置

可切换低切/高保真/高频提升模式



通用设置

配对



配对

点击使RX与TX配对

语言



语言

可切换中/英文

日期



日期

设置日期与时间，录音文件可显示相应信息

蓝牙



蓝牙

可开启/关闭/重置蓝牙，或查看蓝牙地址

升级



升级

点击使RX进入升级模式

屏幕亮度



屏幕亮度

可调节RX屏幕亮度

恢复出厂设置



恢复出厂设置

点击可恢复出厂设置

版本信息



版本信息

可查看序列号

认证信息



认证信息

可查看设备认证信息

录音:

根据个人需求选择是否开启录音功能

方法一：短按TX的REC内录按键开启录音,长按该按键关闭内录



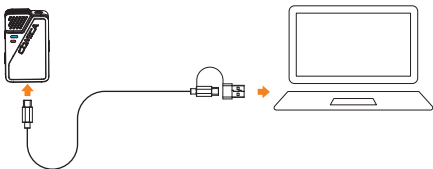
方法二：RX屏幕处于主界面时，左滑或右滑进入TX快捷设置，选择TX点击REC选项开启或关闭内录



持续录音时,每录满一小时会新存为一个录音文件,总录音时长为40小时。当32G内存录满时,新录音文件会覆盖旧录音文件

拷贝录音文件:

TX关机时通过USB输出线连接电脑，打开BooMax TX磁盘进入REC文件夹即可拷贝音频



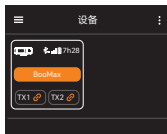
APP连接与操控:

1. 在手机应用商店搜索下载“Comica Audio”APP



Comica Audio

2. 开启手机蓝牙
3. 打开APP，搜索添加设备：BooMax



4. 通过App可对RX和TX进行设置和操作



☞ 如蓝牙配对异常，或设备需要连接新的手机，请重置设备蓝牙，操作如下：操作RX进入设置菜单，选择通用设置--蓝牙--关闭--重置--确认--开启

■ 升级：

固件升级

1. 在科唛官网下载BooMax固件升级包至电脑：

2.1 TX在关机时通过USB输出线连接电脑，将电脑上的固件升级包拷贝至 BooMax TX---UPDATE文件夹中，断开USB输出线后重启即可自动升级

2.2 操作RX进入设置菜单，点击“通用设置---升级---确认”进入升级模式，通过USB输出线连接电脑，将电脑上的固件升级包拷贝至BooMaxRX---UPDATE文件夹中，断开USB输出线后重启即可自动升级

蓝牙连接升级

打开“Comica Audio” App连接麦克风后，进入设备主页，点击右上角设置图标--通用---固件升级

规格参数

无线频率	2402MHz ~ 2480MHz
天线类型	陶瓷天线
无线发射功率	10dBm
无线接收灵敏度	-96dBm
麦克风指向性	全指向/心型指向
麦克风灵敏度	全指向: -30dB±2dB 心型指向: -37dB±2dB
频率响应	全指向: 50Hz ~ 20kHz 心型指向: 100Hz ~ 20kHz
信噪比	全指向: 73dB SPL(A-weighted,as per IEC651) 心型指向: 67dB SPL(A-weighted,as per IEC651)
等效噪声	全指向: 21dB SPL(A-weighted,as per IEC651) 心型指向: 27dB SPL(A-weighted,as per IEC651)
最大声压级	全指向: 115dB SPL(< 3% THD) 心型指向: 115dB SPL(< 3% THD)
动态范围	全指向: 94dB SPL(A-weighted,as per IEC651) 心型指向: 88dB SPL(A-weighted,as per IEC651)
声音延迟	< 20ms
内录存储容量	32GB
USB音频规格	48kHz/24bit
电池类型	TX:锂聚合物 400mAh 3.8V RX:锂聚合物 600mAh 3.8V 充电盒:锂聚合物 2800mAh 3.8V

充电时间	TX:2小时 RX:2小时 充电盒:2小时
续航时间	TX:10小时/开启内录5小时 RX:8小时 充电盒:1.5次
净重	TX: 32.2g RX: 45.7g 充电盒: 165.6g
尺寸	TX: 21.3 x 30.5 x 50.0mm RX: 58.0 x 26.2 x 35.5mm 充电盒: 116.0 x 42.0 x 63.0mm
工作温度	0℃ ~ 50℃
存储温度	-20℃ ~ 60℃



扫二维码关注
科唛官方公众号



COMICA科唛



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COMICA科唛

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