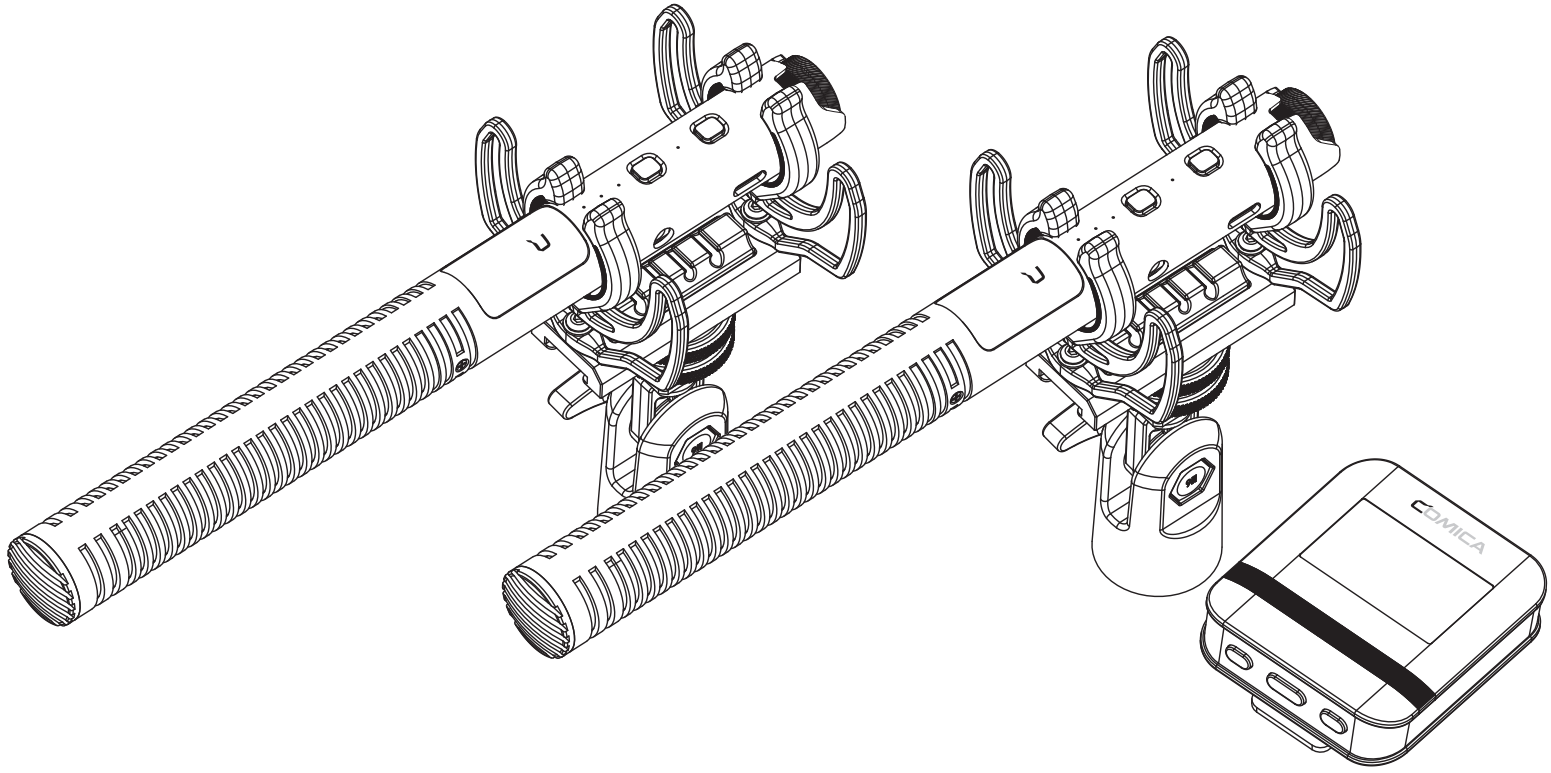
COMICA
Pro Wireless Audio Solution



VM40 LITE

Super Cardioid Dual-Channel Wireless Shotgun Microphone

User Manual

Foreword

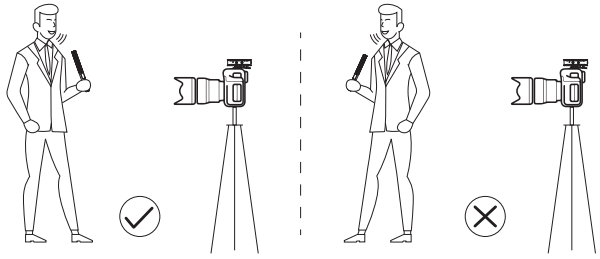
Thanks for purchasing COMICA VM40 LITE Super Cardioid Dual-Channel Wireless Shotgun Microphone

Main Features

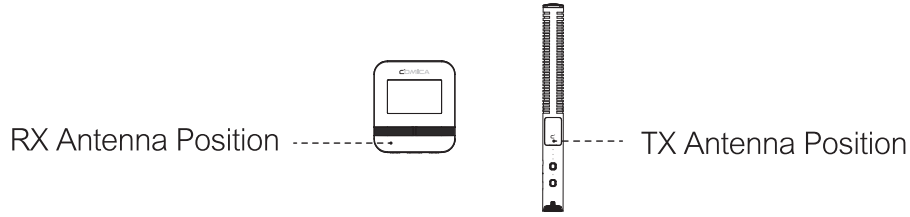
- Single/Dual-channel Wireless Shotgun Mic, 14mm Gold-plating Capsule
- 48kHz/32-bit Float Recording, Wired/Wireless Dual Modes
- Support Wired Timecode Jam Sync for More Convenient Post-production
- Support microSD Card Recording&Flexible Storage Expansion
- Exclusive Comica Audio App for Simplified Operation
- One-key CalMix® Denoise/Low-cut/High-frequency Boost
- Digital&Analog Outputs, Universal for Cameras/Smartphones/PCs
- Intelligent Power On/Off Detection, Auto-sensing 3.5mm Output
- OLED Display for Visual Audio Gain Monitoring & M/S Mode
- Battery Life Up to 32H in Wired and 10H in Wireless Mode
- Stable, Low-Latency Transmission up to 200m in Open Areas
- Upgraded Shock Mount & Windproof Accessory

Notice

- ⚠ When using a microSD Card on this device for the first time, please first connect to the App, tap the blank area within the TX device section to access the TX Settings menu, and then format the memory card
- ⚠ When it needs to be used for a long time, it can be connected to the external power to realize charging while using. AC/DC power is not supported to avoid noise problem
- ⚠ In wireless mode, for a better recording effect, please adjust the gain of the transmitter first. After the transmitter is adjusted to the maximum gain level, then adjust the gain of the receiver accordingly
- ⚠ If you need to use a boom pole adapter and an adapter screw, please install the adapter screw with the grooved side facing outward. Otherwise, it may not be able to take out
- ⚠ Only the dual-channel version supports the Stereo Mode; the one-channel version does not
- ⚠ VM40 LITE transmitter is set to a default time. For the first use, please calibrate the time through the Comica Audio APP. If not, it will mark an inconsistent time
- ⚠ The device is a high-precision instrument. Please avoid falling, collision, or pounding
- ⚠ Do not use this equipment in the vicinity of heat sources or interference sources, such as radiators, ovens, refrigerators, or air conditioners
- ⚠ If the pick-up distance is close or when used outdoors, please put on the wind muff to prevent sound bursts or reduce wind noise
- ⚠ Do not use the equipment in the rain or in a damp environment to avoid short-circuit danger



Please use it face-to-face, and don't turn your back to the receiver. Otherwise, it is easy to generate breakpoints

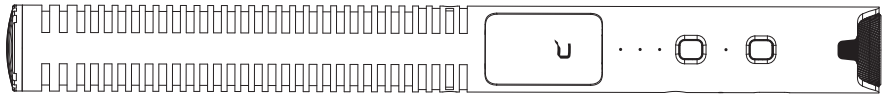


Don't block the antenna positions of the TX and RX during use to avoid affecting the wireless distance

Packing List

One-channel Version

Main Parts:

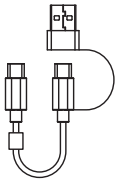


Shotgun Microphone(Transmitter) *1

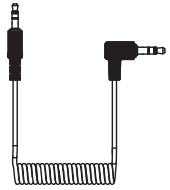


Receiver*1

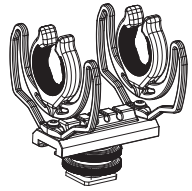
Accessories:



2 in 1 Charging
& Output Cable*1



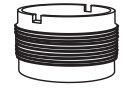
3.5mm TRS-TRS
Audio Output Cable*1



Shock Mount*1



3/8 Male to 5/8 Female
Stand Adapter*1



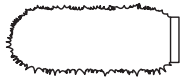
5/8 Male to 3/8
Female Screw*1



3/8 Male to 1/4
Female Screw*1



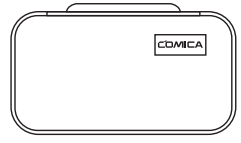
Windscreen*1



Wind-muff*1



Pin*1



Carry Case*1



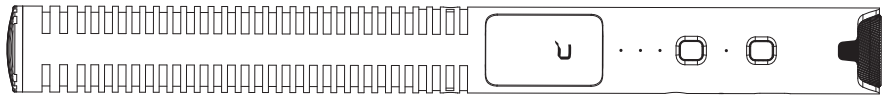
User Manual*1



Warranty Card*1

Dual-channel Version

Main Parts:

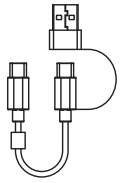


Shotgun Microphone(Transmitter) *2

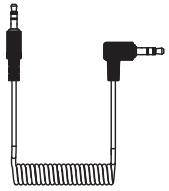


Receiver*1

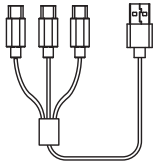
Accessories:



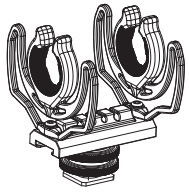
2 in 1 Charging & Output Cable*1



3.5mm TRS-TRS Audio Output Cable*1



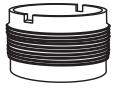
3 in 1 Charging Cable*1



Shock Mount*2



3/8 Male to 5/8 Female Stand Adapter*2



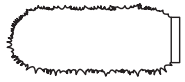
5/8 Male to 3/8 Female Screw*2



3/8 Male to 1/4 Female Screw*2



Windscreen*2



Wind-muff*2



Pin*1



Carry Case*1



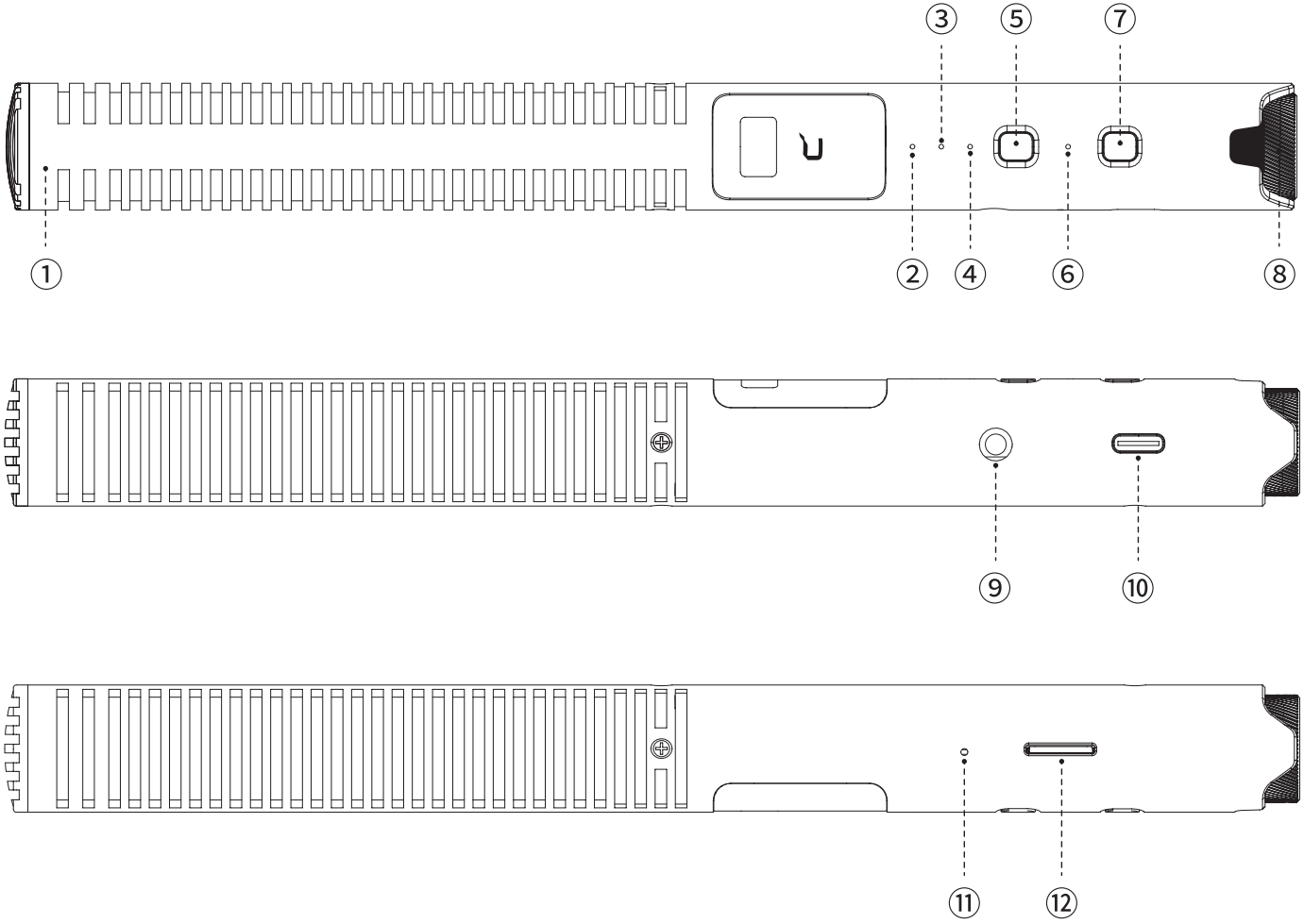
User Manual*1



Warranty Card*1

Components and Instruction

Microphone(Transmitter)

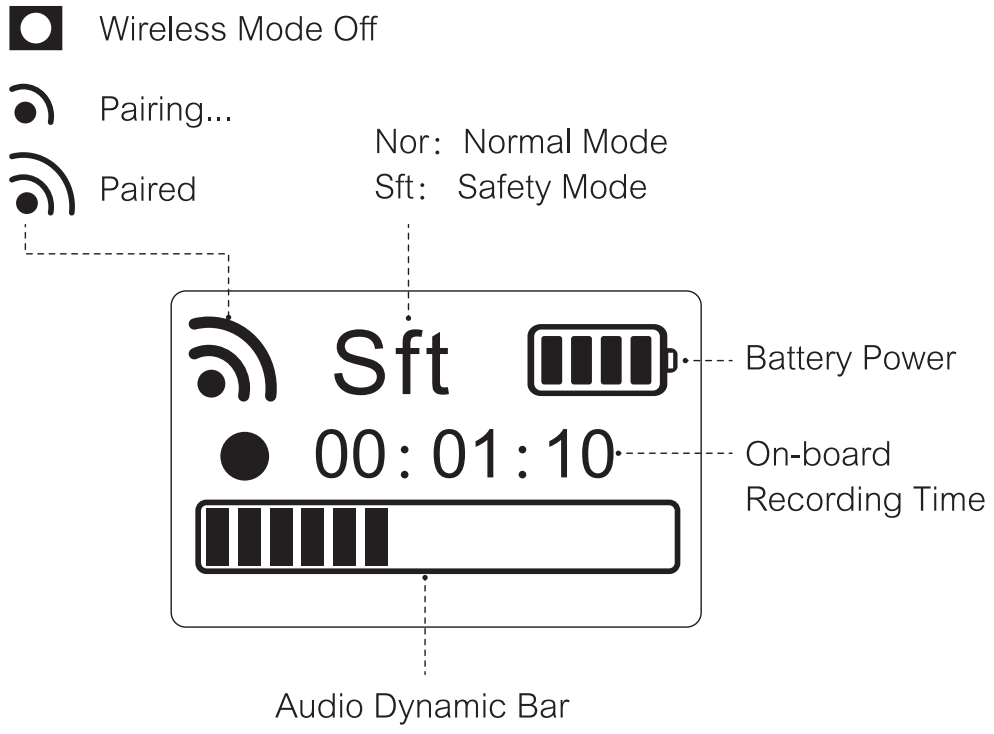


1. Mic Capsule
2. Low-cut Indicator: Lights up blue when low-cut is turned on
3. High-frequency Boost Indicator: Lights up blue when high-frequency boost is turned on
4. On-board Recording Indicator: Lights up red when on-board recording is turned on
5. Function Button: Short-press to switch on/off low-cut/high-frequency boost; long-press to turn on/off on-board recording
6. Working Indicator: Green light on in wired mode; in wireless mode, blue light flashes when paring, and blue light on when paired
7. Mode Button: When the audio cable is connected, long press to turn on/off the wireless mode; when the audio cable is not connected, long press to turn on the microphone and enter wireless mode/turn off the microphone; short press to switch on/off the safety mode

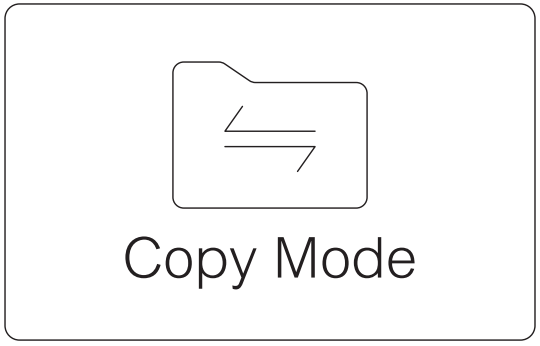
When the microphone is powered off, long press the function button and the mode button in sync to enter the copy mode. Connect the microphone to the computer via the 2 in 1 charging &output cable to copy the on-board recording audio

8. Gain Control Knob: Rotate to adjust the gain
9. 3.5mm Output Port: To identify TRS/TRRS plug automatically and output analog audio; microphone automatically turns on/off when connecting/disconnecting a device
10. USB-C Port: Connect USB device to output digital audio; microphone automatically turns on/off when connecting/disconnecting a device; connect a power source to charge; connect a computer to copy on-board recording audio
11. Pairing Hole: When the wireless connection is abnormal, use the pin to short-press the pairing hole to re-pair
12. microSD Card Position： Insert a memory card to use

Screen Display Instruction

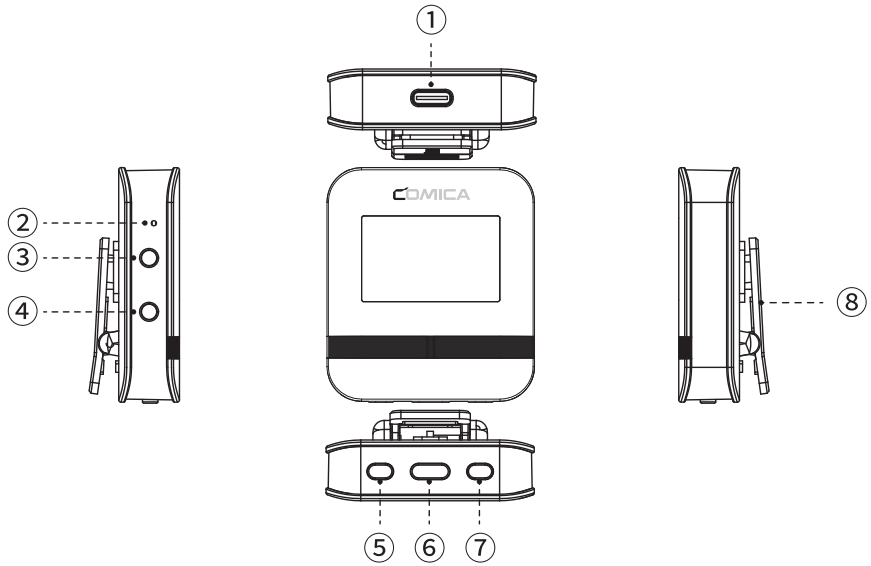


(Recording Mode)



(Copy Mode)

Receiver



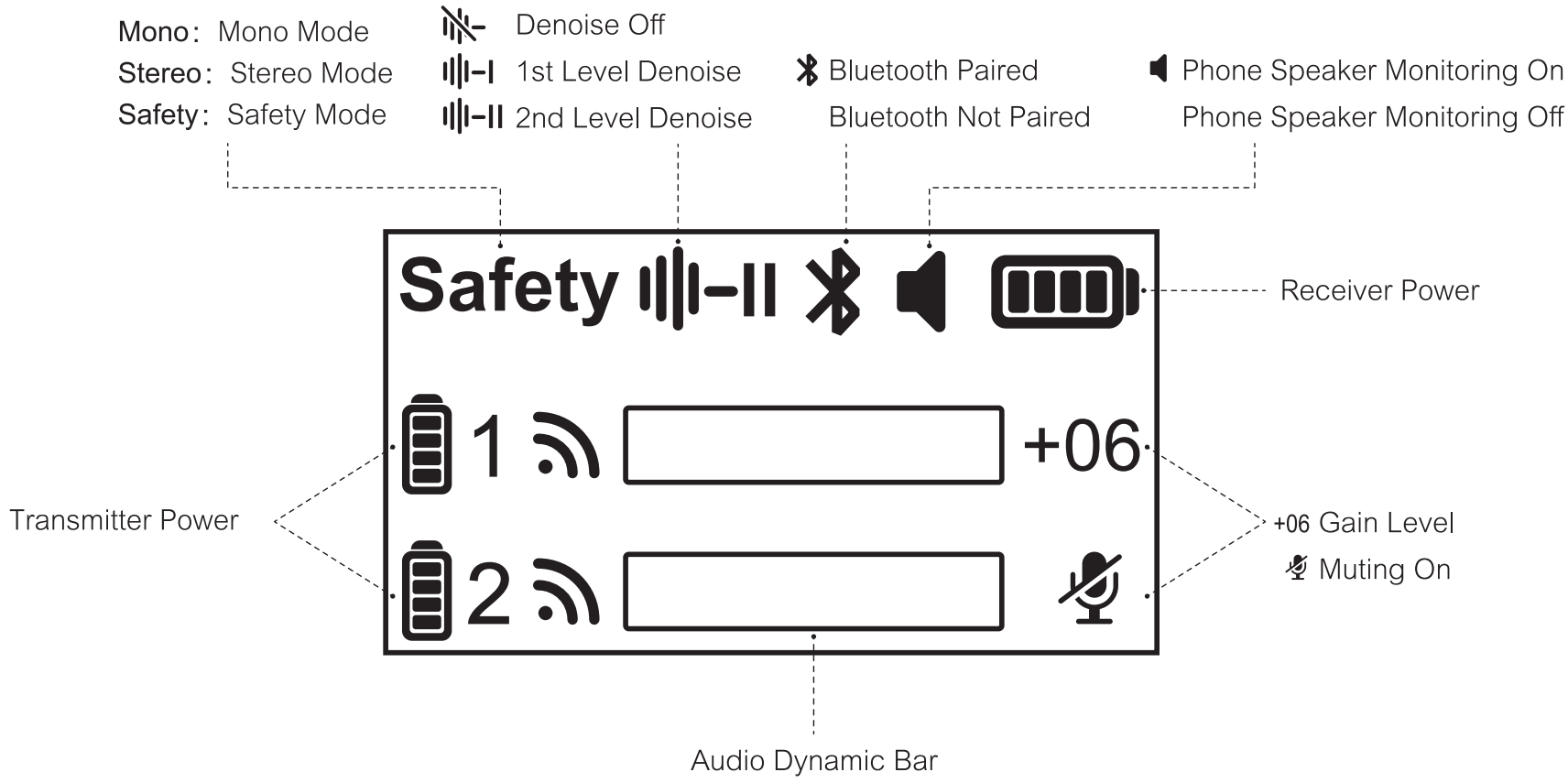
1. USB-C Output/Charging Port: Connect USB device to output digital audio; connect to a power source for charging
2. Pairing Hole: When the wireless connection is abnormal, use the pin to short-press the pairing hole to re-pair
3. 3.5mm Output Port: To identify TRS/TRRS plug automatically and output analog audio
4. 3.5mm Monitoring Port: Plug in 3.5mm TRS/TRRS earphones for monitoring
5. CH1/Denoise Button: In single channel, short press to reduce microphone gain; in dual channel, short press to increase and decrease the gain of channel 1 in a cycle; long press to adjust the denoise of channel 1 and channel 2 in a cycle(turn on 1st level denoise - turn on 2nd level denoise - turn off denoise)
6. Power/Mode Button: Long press to power on/off; short press to switch mono/stereo/safety mode

☞ Only the dual-channel version supports the Stereo Mode; the one-channel version does not

7. CH2/On-board Recording Button: In single channel, short press to increase microphone gain; in dual channel, short press to increase and decrease the gain of channel 2 in a cycle; long press to turn on/off the on-board recording of channel 1 and channel 2 in sync
8. Belt Clip

☞ 1. Denoise function does not work on on-board recording
2. Long-press the CH1 button and CH2 button in sync to reset the Bluetooth. After resetting, the microphone can be connected to a new phone by Comica Audio App

Screen Display Instruction



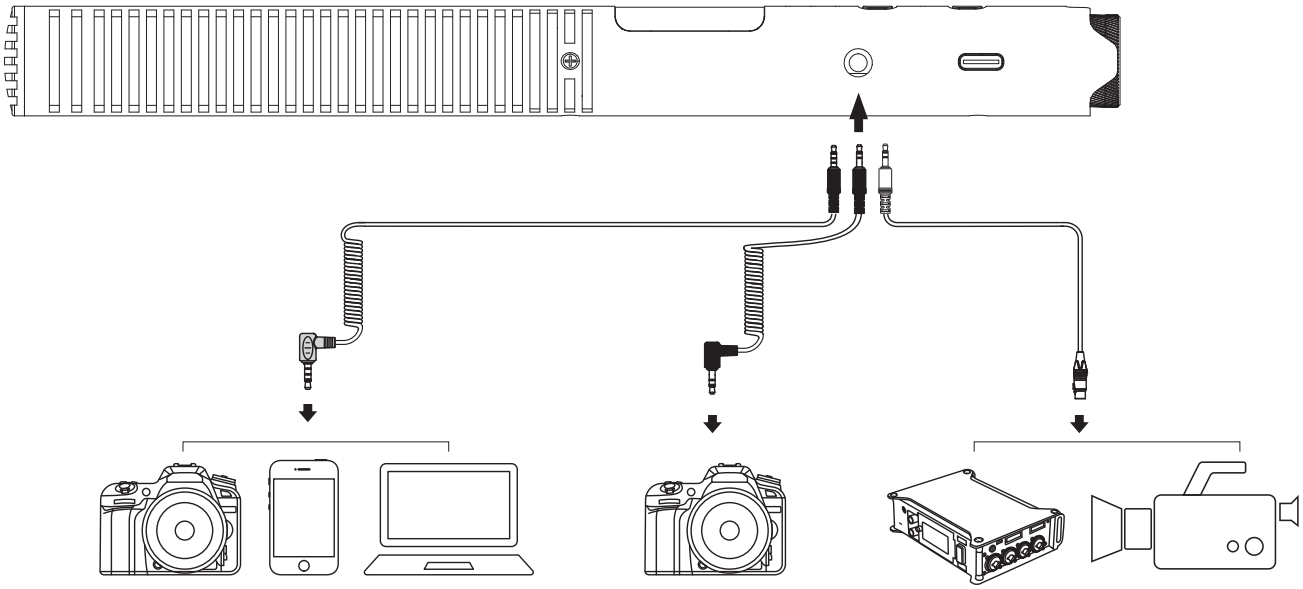
1. When the receiver outputs audio through the USB port, it is monitored by the phone speaker by default. Users can switch between phone speaker monitoring and receiver headphone monitoring through the Comica Audio App. For detailed instructions, kindly refer to the App operation guide at the manual's end
2. One audio dynamic bar is displayed in one channel, and two audio dynamic bars are displayed in two channels
3. The mute function can be turned on/off through the App

Installation and Usage

Wired Mode

3.5mm Analog Output

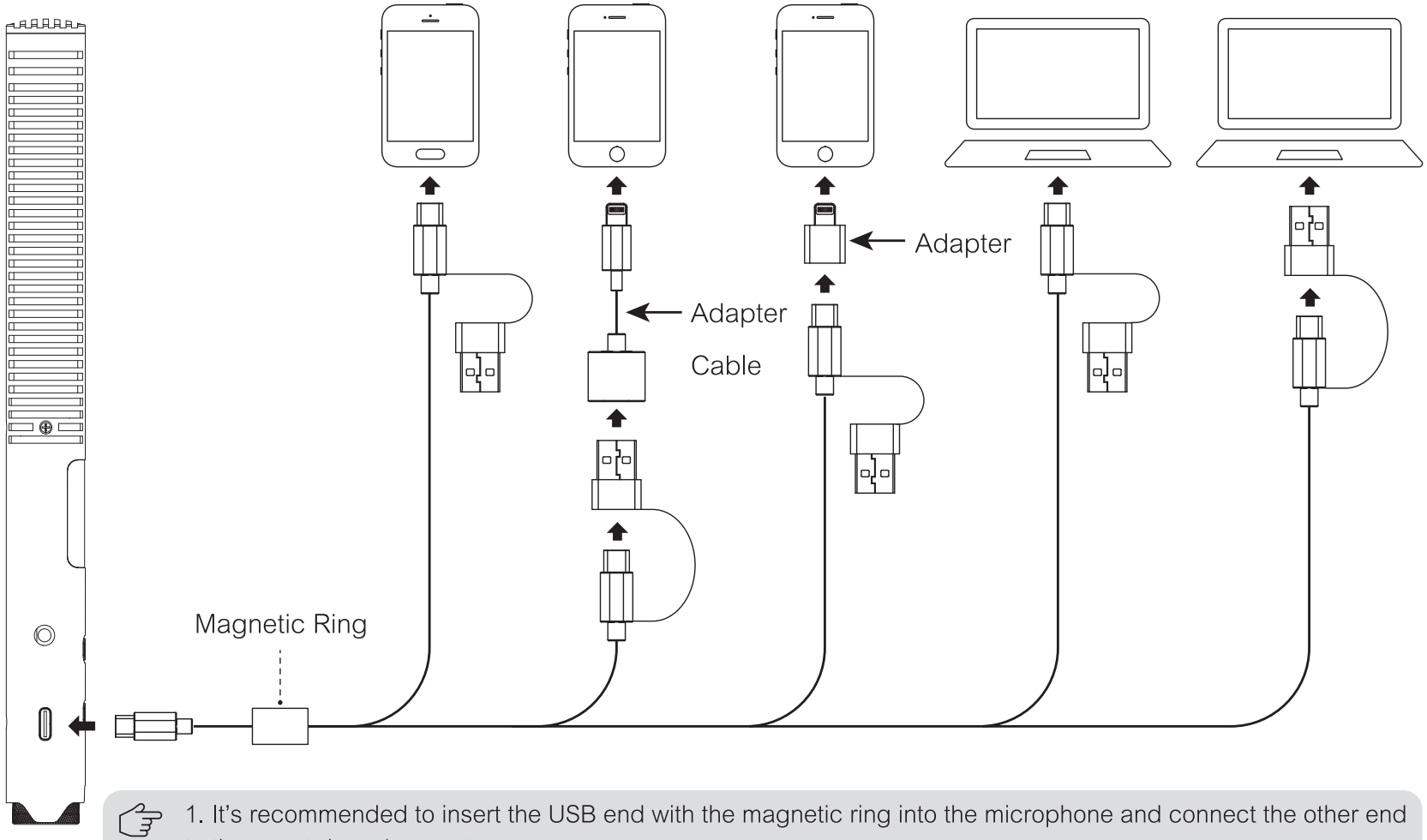
Connect the shotgun microphone to the camera/smartphone/computer through the 3.5mm audio cables, or connect to the camcorder/recorder through the 3.5mm TRS-XLR audio cable



1. TRRS-TRRS audio cable for cameras/smartphones/computers(Please prepare by yourself), TRS-TRS audio cable for some cameras not compatible with TRRS-TRRS audio cable, TRS-XLR audio cable for recorders/camcorders(Please prepare by yourself)
2. When using a non-step-down TRS-XLR audio cable, do not turn on the 48V phantom power of the recorder /camera, and the shotgun microphone must be turned on and off manually; when using a step-down TRS-XLR audio cable, users can turn on the 48V phantom power, and the shotgun microphone can turn on and off automatically
3. Before recording, it is recommended to lower the camera's audio input level appropriately to reduce the noise floor and distortion; then adjust the recording volume to an appropriate level via the gain adjustment button on the RX based on the recording environment

USB Digital Output

Connect the shotgun microphone to the smartphone or computer through the 2 in 1 charging & output cable and related OTG audio adapter/cable(if needed)

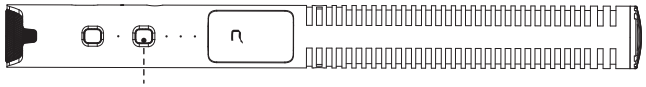


1. It's recommended to insert the USB end with the magnetic ring into the microphone and connect the other end to the smartphone/computer
2. When using with Lightning interface devices, please prepare a USB-Lightning adapter/cable that supports OTG function

Timecode Synchronization

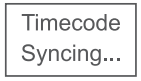
Method 1: Wired Jam Sync

1. With the device powered on, double-press the REC button to enter Timecode Jam Sync mode

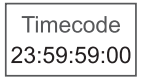


Double-press the REC button

2. Connect the LTC timecode source to the 3.5 mm port of VM40 via the TRS cable
3. The screen will display the following information when it's recognizing the timecode

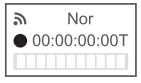


4. Once the timecode is successfully recognized, the screen will display the current timecode information



5. After the synchronization is completed, the external timecode generator can be disconnected
6. Double-press the REC button again to exit timecode synchronization mode
7. After exiting timecode synchronization mode, VM40 LITE will run independently based on the synchronized timecode. If recording is started, a “T” indicator will appear next to the recording time, indicating that the current recording file has contained the timecode information

Example:



Method 2: TC IN

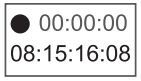
1. With the device powered on, double-press the REC button to enter timecode synchronization mode



2. Connect the LTC timecode source to the 3.5 mm port of VM40 LITE via the TRS cable
3. Once the timecode is successfully recognized, the screen will display the current timecode information



4. In timecode synchronization mode, press and hold the REC button to start internal recording
5. During recording, the VM40 LITE timecode will continuously follow the clock of external timecode generator
Example:



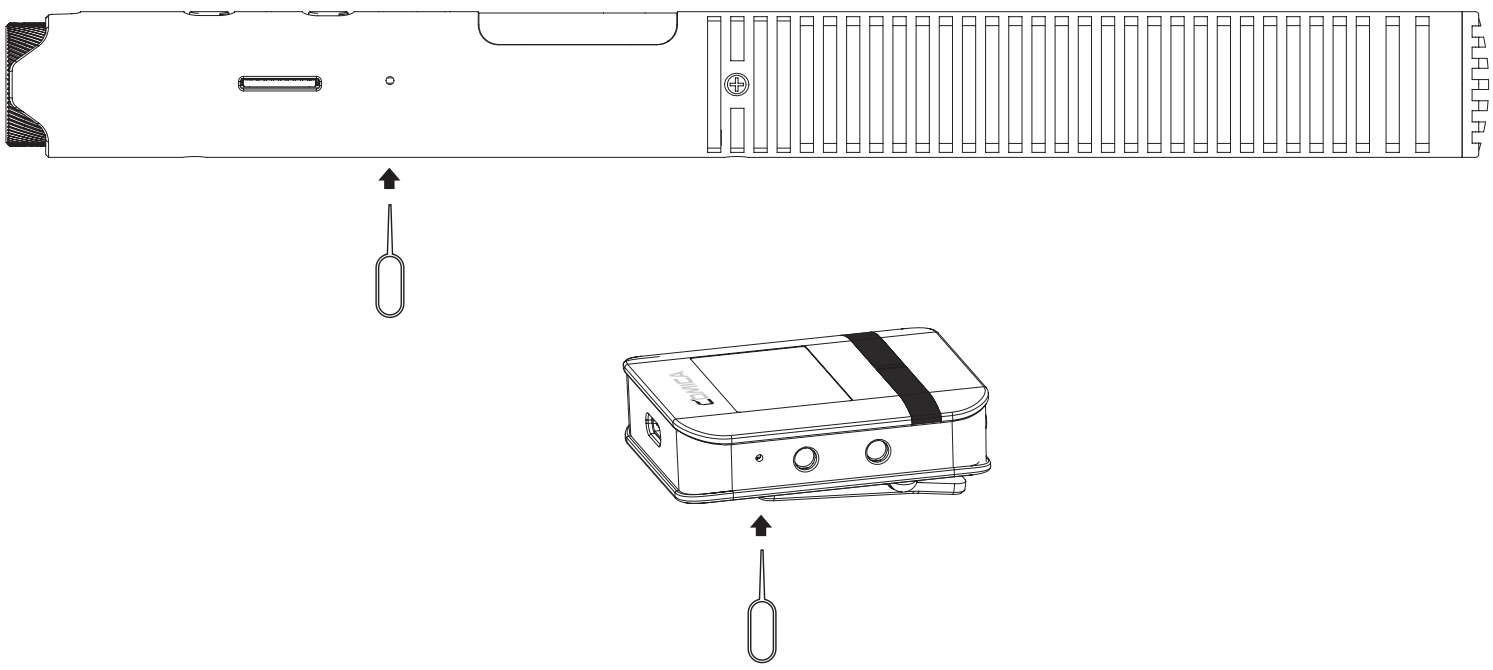
6. Press and hold the REC button again to stop recording. To exit timecode synchronization mode, simply double-press the REC button again

1. The timecode information will not be saved after the device is powered off
2. After the device is powered on again, the timecode should be synchronized again
3. Please use a standard TRS audio cable to connect the LTC timecode source
4. When the timecode function is enabled, the auto power-off function will be disabled
5. In Wired Jam Sync mode, the external timecode generator can be disconnected after the synchronization is completed, and VM40 LITE will continue running based on the synchronized timecode
6. In TC IN recording mode, the external timecode generator must remain connected during recording to ensure that the timecode continuously follows the external timecode generator's clock
7. It is recommended to use a Tentacle timecode generator for synchronization
8. Differences among various recording devices in their internal audio-video synchronization methods and timecode reception approaches may affect timecode synchronization accuracy; even though the VM40 LITE system has achieved complete internal synchronization, variables from other devices may still cause slight desynchronization between video and audio tracks, but after using timecode synchronization, only one or two frames need minor fine-tuning to align, which is much faster than manual synchronization, and it is recommended to record a visible and audible clap sound on all devices as a reference point for such fine-tuning

Wireless Mode

Paired (The transmitter and receiver are paired by default at the factory)

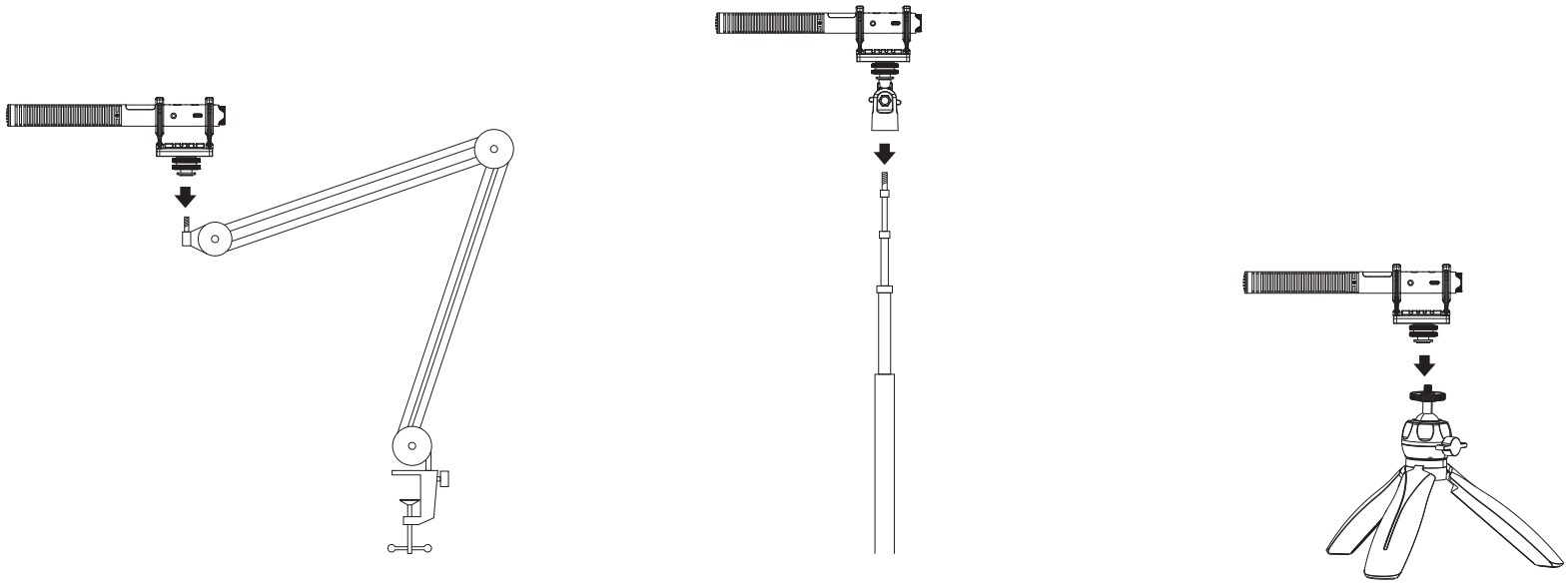
If the wireless connection is abnormal, short-press the pairing holes of the transmitter and receiver with the pin to re-pair



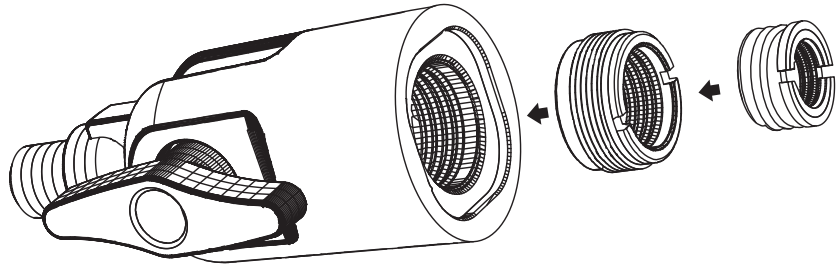
Usage

Microphone(Transmitter)

Use with arm stands, boom poles, and tripods

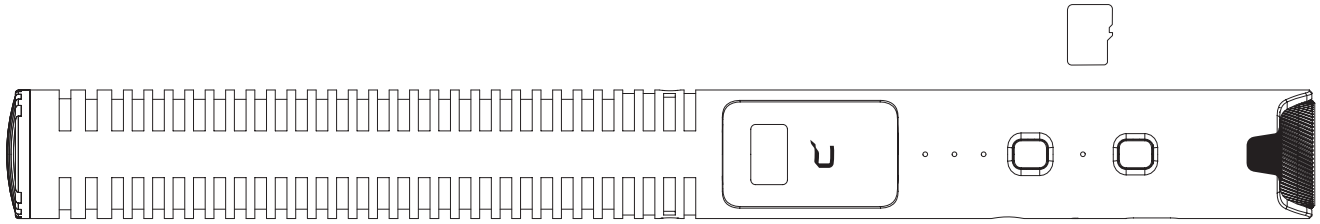


If you need to use a boom pole adapter and an adapter screw, please install the adapter screw with the grooved side facing outward. Otherwise, it may not be able to take out



microSD Card Recording

1. Insert the microSD Card into the card slot located on the right side of the VM40 LITE



2. Once the device recognizes the memory card, you may begin recording
3. Recording files will be automatically saved to the memory card

1. Please use a microSD memory Card that meets Class 10 or higher standards, has a capacity of no more than 128GB, and is formatted as exFAT
2. Before first use, it is recommended to format the memory card via the Comica Audio App
3. To ensure recording stability, it is recommended to use a high-speed memory card from a reputable brand
4. Do not insert or remove the memory card while recording, as this may affect the recording files or the device's operation
5. If the device fails to recognize the memory card, please verify that the card's format, capacity, and compatibility meet the specified requirements

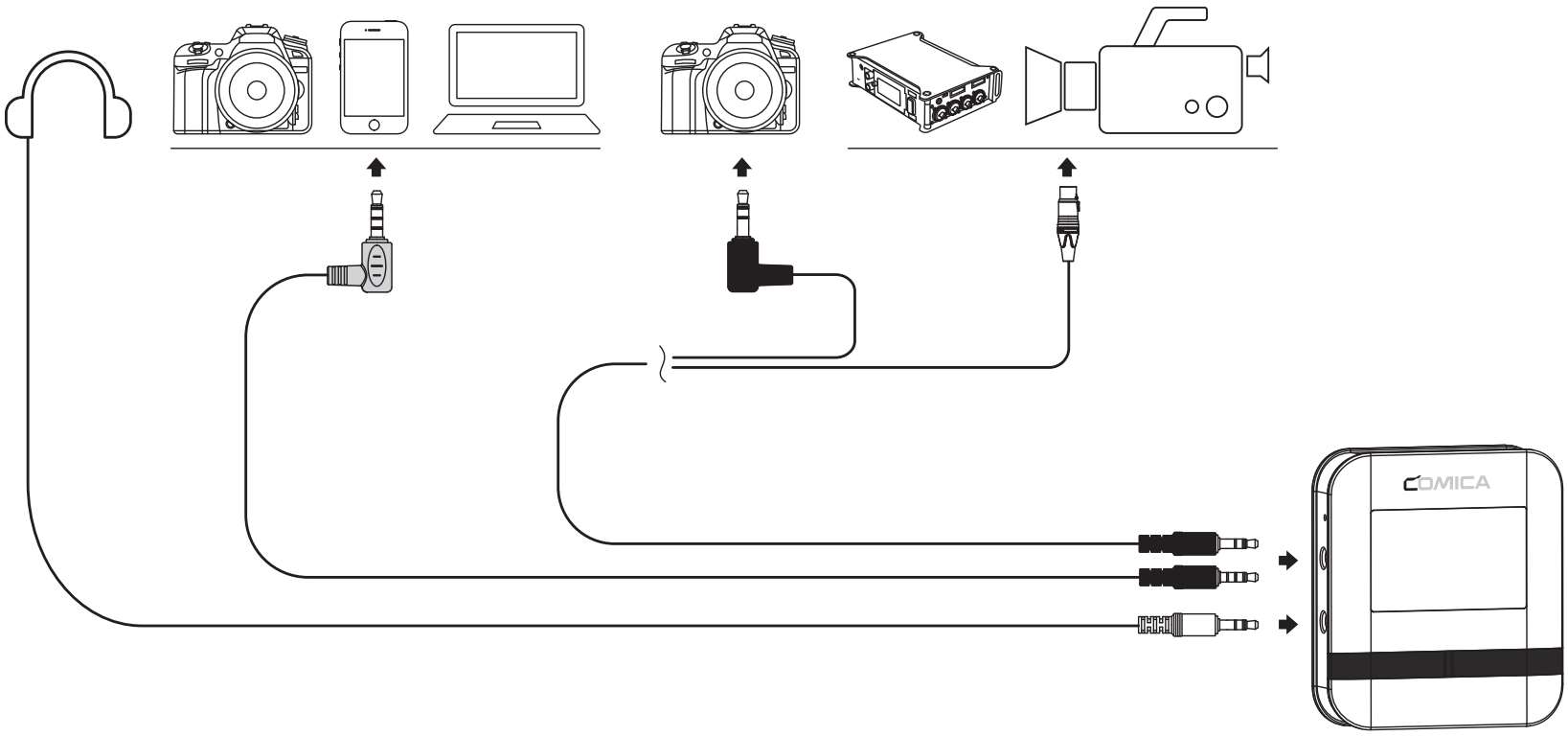
Recommended microSD Card List

Brand	Series / Model
Kingston	Canvas Select Plus microSD, SDCS3 Series
Lexar	High-Performance 633x microSDHC / microSDXC UHS-I BLUE Series
SanDisk	Ultra / Ultra High Speed microSD UHS-I
KIOXIA	EXCERIA microSD U1

Receiver

3.5mm Analog Output

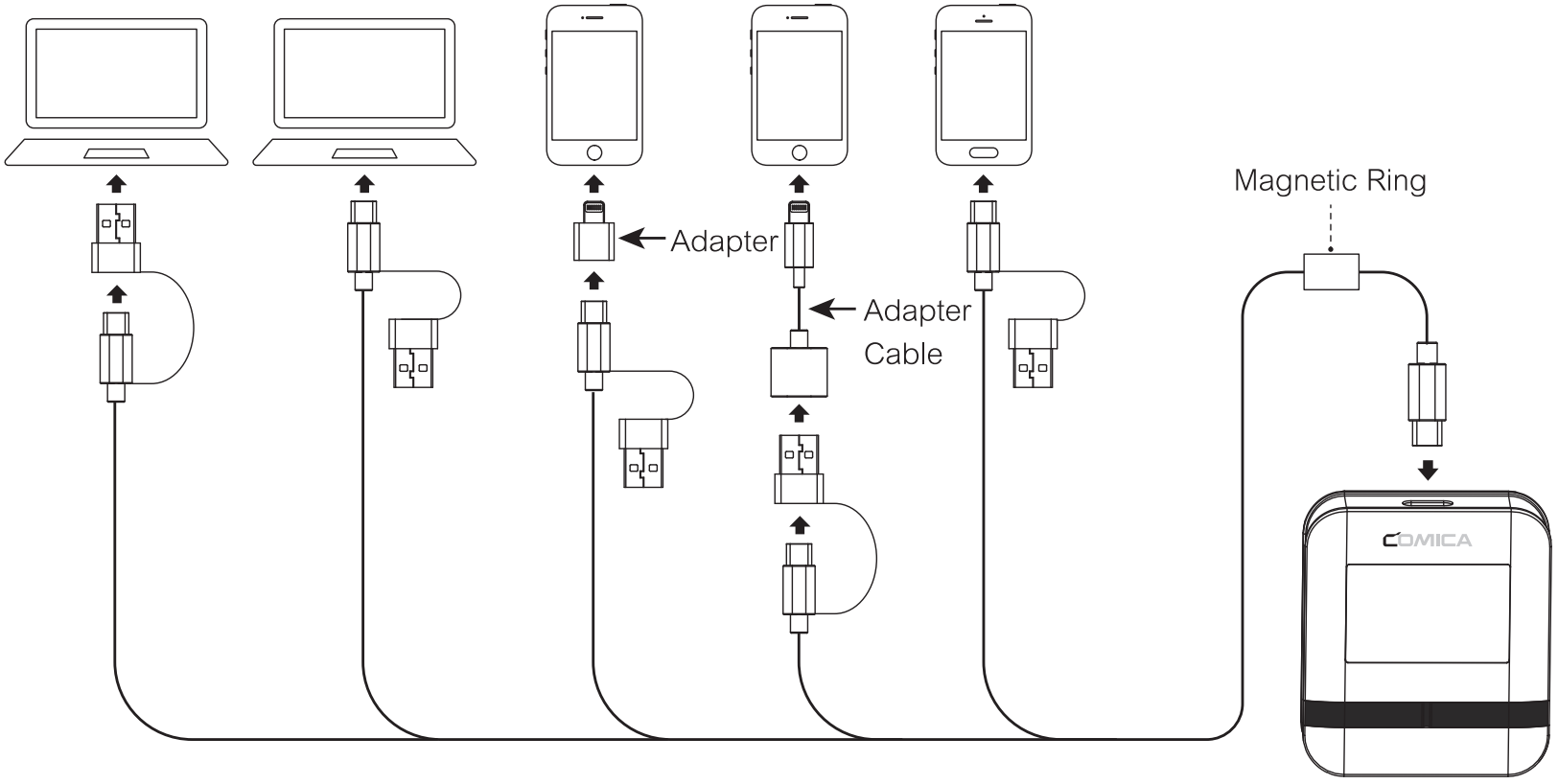
Connect the receiver to the camera/smartphone/computer through the 3.5mm audio cable, or connect to the camcorder/recorder through the 3.5mm TRS-XLR audio cable; Monitoring according to individual needs



1. TRRS-TRRS audio cable for cameras/smartphones/computers(Please prepare by yourself), TRS-TRS audio cable for some cameras not compatible with TRRS-TRRS audio cable, TRS-XLR audio cable for recorders/camcorders(Please prepare by yourself)
2. Before recording, it is recommended to lower the camera's audio input level appropriately to reduce the noise floor and distortion; then adjust the recording volume to an appropriate level via the gain adjustment button on the RX based on the recording environment

USB Digital Output

Connect the receiver to the smartphone/computer through the 2 in 1 charging & output cable and related OTG audio adapter/cable(if needed)



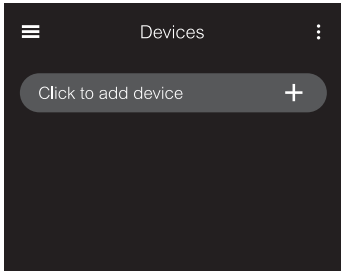
1. It's recommended to insert the USB end with the magnetic ring into the receiver and connect the other end to the smartphone/computer
2. When using Lightning interface devices, please purchase a USB-Lightning adapter/cable that supports the OTG function

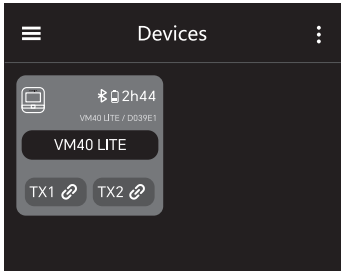
App Operation

1. Search and download the "Comica Audio" App in your mobile app store

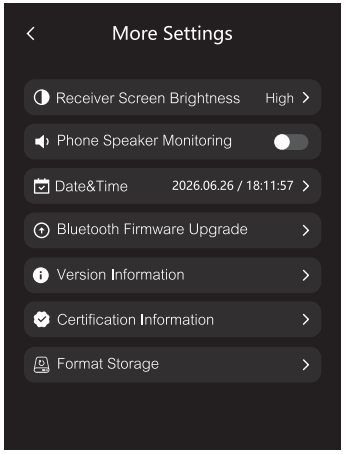
Comica Audio

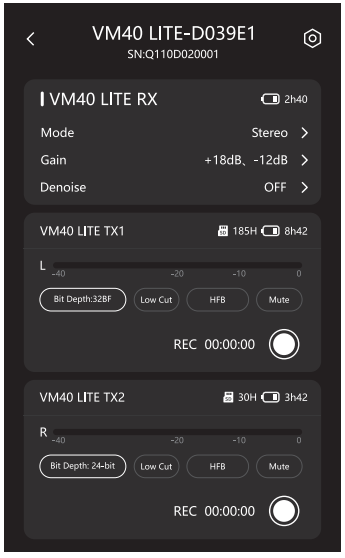
2. Turn on the Bluetooth of your mobile phone
3. Open the App to search and pair device VM40 LITE



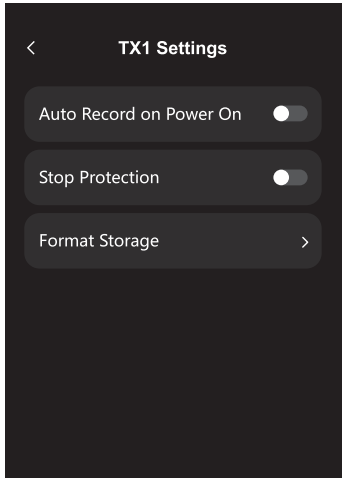


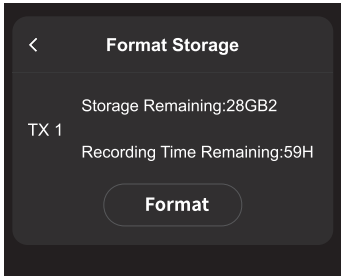
4. The receiver and transmitter can be set and operated through the App





5. When using a microSD card on this device for the first time, please first connect to the App, tap the blank area within the TX device section to access the TX Settings menu, and then format the memory card





Firmware upgrade

Download the VM40 LITE firmware upgrade package to your computer from the Comica official website

1. Shotgun microphone upgrade

Enter the copy mode when the mic is turned off (long-press the function button and mode button in sync), then connect the mic to the computer via a USB data cable, copy the firmware upgrade package to the VM40 LITE TX---UPDATA folder, disconnect the USB data cable and restart the mic to upgrade automatically

2. Receiver upgrade

Enter the copy mode when the receiver is turned off (press and hold the CH1 or CH2 button, and long-press the power button), then connect the receiver to the computer via a USB data cable, copy the firmware upgrade package to the VM40 LITE RX---UPDATA folder, disconnect the USB data cable and restart the receiver to upgrade automatically

Bluetooth connection upgrade

Open the Comica Audio App and connect the VM40 LITE microphone. Then go to the VM40 LITE homepage and click the settings icon in the upper right corner---Universal---Firmware Upgrade

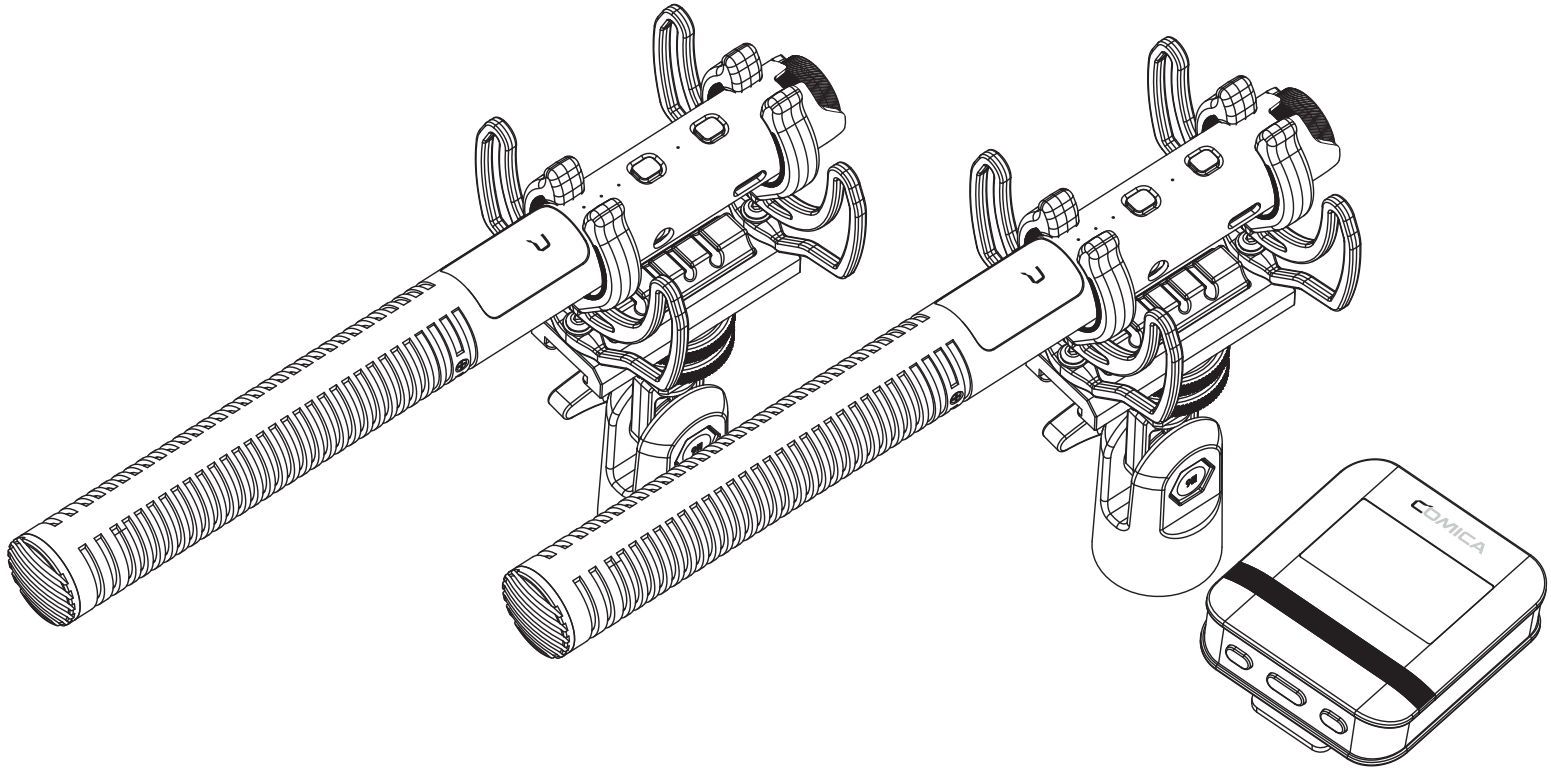
Technical Specifications

Wireless Type	2.4GHz
Transmitting Power	+10dBm
Receiving Sensitivity	-96dBm
Antenna	Ceramic Antenna
Sound Delay	<20ms
Polar Pattern	Super Cardioid
Frequency Response	20Hz ~ 20kHz
Low-cut	-3dB @ 100Hz
High-frequency Boost	+3dB @ 10kHz
Output Impedance	600Ω
Sensitivity	-38dB ~ -18dB re 1V/Pa(12mv ~ 125mv @ 94dB SPL) ±2dB @ 1kHz
S/N	75dB SPL(A-weighted,as per IEC651)
Equivalent Noise	19dB SPL(A-weighted,as per IEC651)
Maximum SPL	130dB SPL(@ 1% THD)
Dynamic Range	111dB SPL(A-weighted,as per IEC651)
Analog Output	3.5mm TRRS/TRS
Digital Output	USB-C 48kHz/24bit
Battery	Transmitter:Li-polymer 3.7V 350mAh Receiver:Li-polymer 3.7V 330mAh
Battery Life	Transmitter: Wired Mode 32 Hours; Wireless Mode 10 Hours; On-board Recording Mode 5 Hours Receiver: 8 Hours
Dimensions	Transmitter: Φ22mm x L224mm Receiver: 54 x 48 x 22mm
Net Weight	Transmitter: 94g Receiver: 29.5g
Operating 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

COMICA 科唛
专 业 无 线 音 频 品 牌



VM40 LITE

超心型双通道无线枪式麦克风

使用说明书

前 言

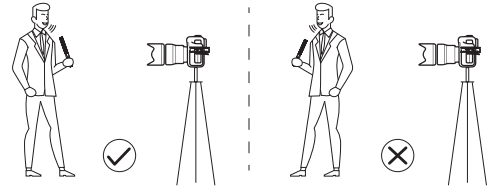
感谢您购买科唛COMICA VM40 LITE超心型双通道无线枪式麦克风

主要功能

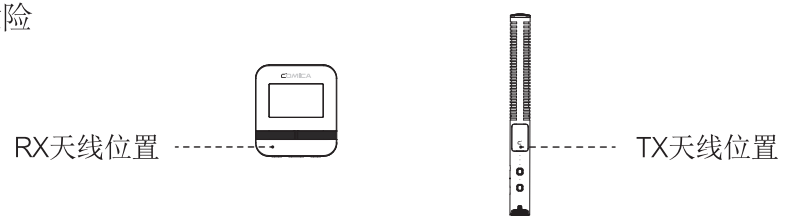
- 14mm镀金超心型咪头，单/双通道版本可选，满足多种拍摄收音需求
- 48kHz/32-bit浮点录音，有线无线双模式
- 支持时间码有线 Jam Sync，后期制作更便捷
- 支持microSD卡录音存储，灵活扩展容量，长时间录制更省心
- 搭配科唛官方APP使用，一站式便捷操控
- 一键Calmix®降噪/低切/高频提升，支持安全音轨及实时监听
- 数字/模拟双输出模式，广泛兼容相机/手机/电脑
- 支持自动识别开关机，3.5mmTRS/TRRS智能感测输出
- OLED显示屏，可视化增益及M/S模式
- 长续航，有线/无线模式分别高达32小时/10小时
- 无线传输距离高达200米，稳定低延迟(空旷环境)
- 全新升级减震支架及防风设备，稳固耐用

注意事项

⚠ 首次在本设备上使用microSD卡时，请先连接APP，点击TX设备区域空白处进入TX设置菜单，然后对存储卡进行格式化
⚠ 当长时间使用时，可连接移动电源进行边充边用；不建议使用AC/DC电源供电，否则易产生噪音
⚠ 无线模式下，为获得更好的录音效果，建议优先调节发射器增益，发射器增益调至最大后可再根据个人需求调节接收器增益
⚠ 如需使用挑杆转接头和转接螺丝，请注意将转接螺丝带凹槽的一面朝外安装，如装反可能导致转接螺丝无法取出
⚠ 仅一拖二版本支持立体声模式， 一拖一版本不支持
⚠ VM40 LITE发射器出厂时，时间设置默认为生产时间，初次使用请通过科唛APP手动调整日期，如未校准，可能导致拍摄时间不符
⚠ 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
⚠ 请勿将本设备放置在热源或干扰源附近使用，如散热器、烤箱
⚠ 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
⚠ 不要在雨中或潮湿的环境中使用该设备，否则会有短路的危险



尽量保持面对面，避免背对的情况，否则容易产生断点

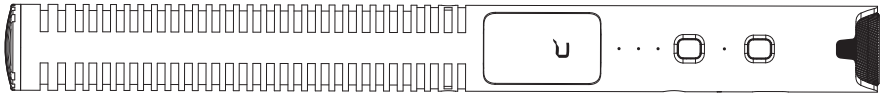


使用时避免遮挡发射器和接收器的天线位置，否则会影响无线距离

包装清单

一拖一版本：

主 体：

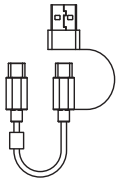


麦克风(发射器)*1

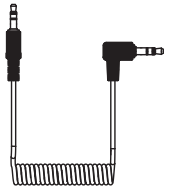


接收器*1

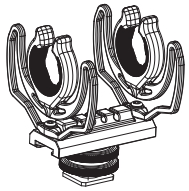
配 件：



充电&输出
二合一线*1



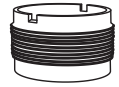
3.5mm TRS-TRS
音频线*1



减震支架*1



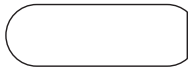
挑杆转接头*1



5/8英寸转3/8
英寸转接螺丝*1



3/8英寸转1/4
英寸转接螺丝*1



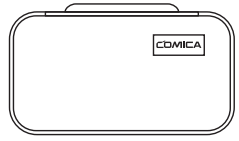
防风棉*1



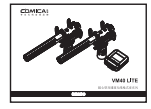
防风毛*1



卡针*1



收纳包*1



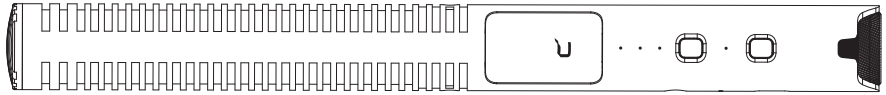
说明书*1



保修卡*1

一拖二版本：

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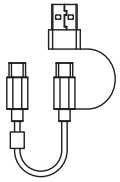


麦克风(发射器)*2

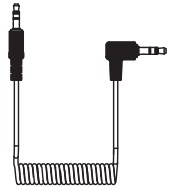


接收器*1

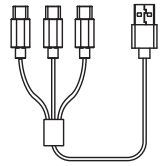
配 件：



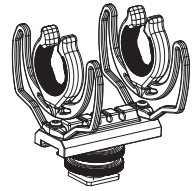
充电&输出
二合一线*1



3.5mm TRS-TRS
音频线*1



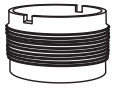
一分三
充电线*1



减震支架*2



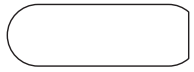
挑杆转接头*2



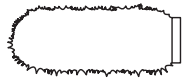
5/8英寸转3/8
英寸转接螺丝*2



3/8英寸转1/4
英寸转接螺丝*2



防风棉*2



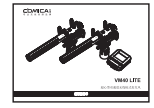
防风毛*2



卡针*1



收纳包*1



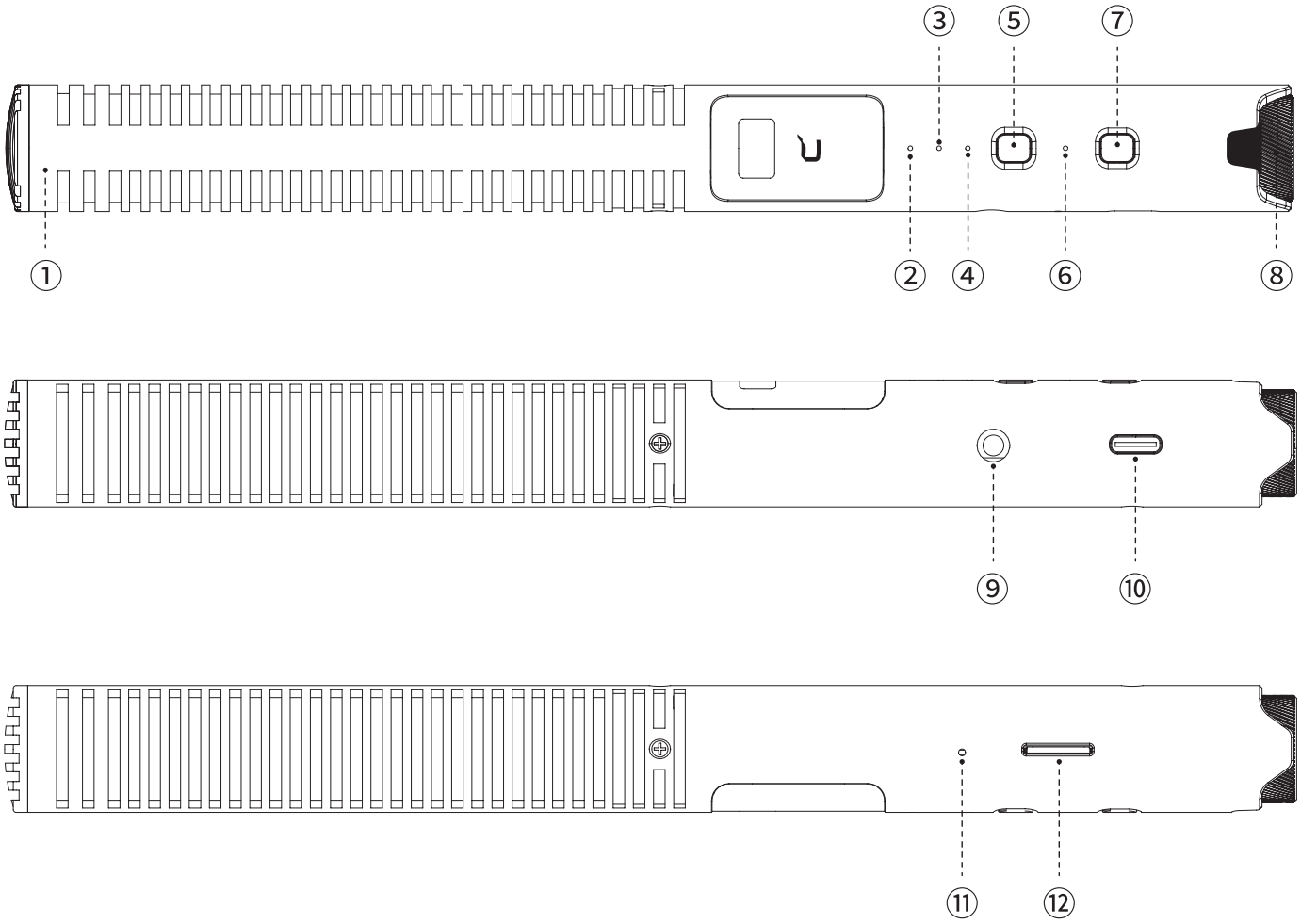
说明书*1



保修卡*1

部件介绍及说明

麦克风(发射器)



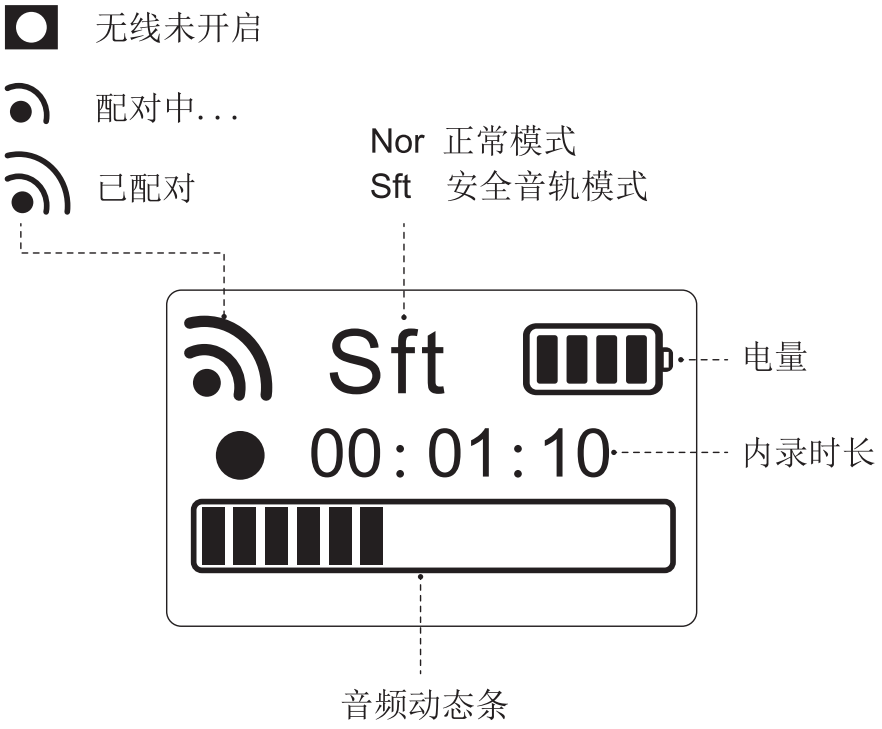
1. 拾音头
2. 低切指示灯：开启低切时亮蓝灯
3. 高频提升指示灯：开启高频提升时亮蓝灯
4. 内录指示灯：开启内录时亮红灯
5. 功能按键：短按开启/关闭低切/高频提升；长按开启/关闭内录
6. 工作指示灯：有线模式下长亮绿灯；无线模式下未配对时闪烁蓝灯，配对后长亮蓝灯
7. 模式按键：连接音频线输出时，长按开启/关闭无线模式；未连接音频线输出时，长按开机进入无线模式/关机；单击开启/关闭安全音轨模式



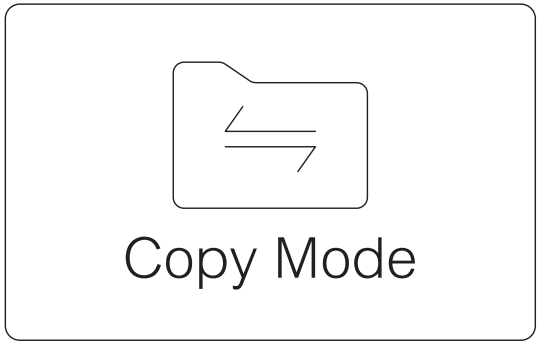
关机状态下，同时长按功能按键与模式按键，麦克风进入拷贝模式，通过充电&输出二合一线连接电脑即可拷贝内录音频

8. 增益调节旋钮：旋转调节增益
9. 3.5mm输出接口：自动识别TRS/TRRS插头输出模拟音频，连接/断开设备时自动开/关机
10. USB-C接口：连接USB设备自动开机并输出数字音频；连接电源进行充电；连接设备拷贝内录音频
11. 配对孔：无线连接出现异常时，使用卡针插入短按即可重新配对
12. microSD卡位：插入存储卡使用

屏显说明

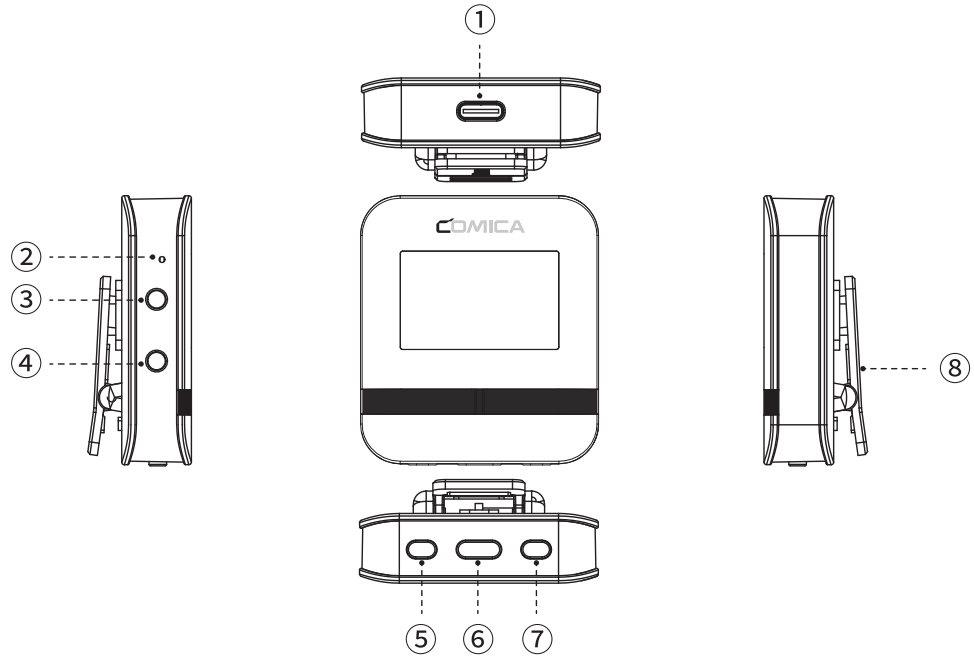


（录音模式）



（拷贝模式）

接收器



1. USB-C输出/充电接口：连接USB设备输出数字音频；连接电源进行充电
2. 配对孔：无线连接出现异常时，使用卡针插入短按即可重新配对
3. 3.5mm输出接口：自动识别TRS/TRRS插头输出模拟音频
4. 3.5mm监听接口：插入3.5mm TRS/TRRS耳机进行监听
5. CH1增益/降噪按键：一拖一时短按降低麦克风增益；一拖二时短按循环增加和降低通道1增益；长按同时循环调节通道1和通道2的降噪（开启1档降噪——开启2档降噪——关闭降噪）
6. 电源/模式按键：长按开机/关机；短按切换单声道/立体声/安全音轨模式

仅一拖二版本支持立体声模式， 一拖一版本不支持

7. CH2增益/内录按键：一拖一时短按增加麦克风增益；一拖二时短按循环增加和降低通道2增益；长按同时开启/关闭通道1和通道2的内录
8. 背夹

1. 降噪功能对内录音频无效果
2. 同时长按 CH1键和 CH2键可复位蓝牙，重新连接上新手机的 APP

屏显说明



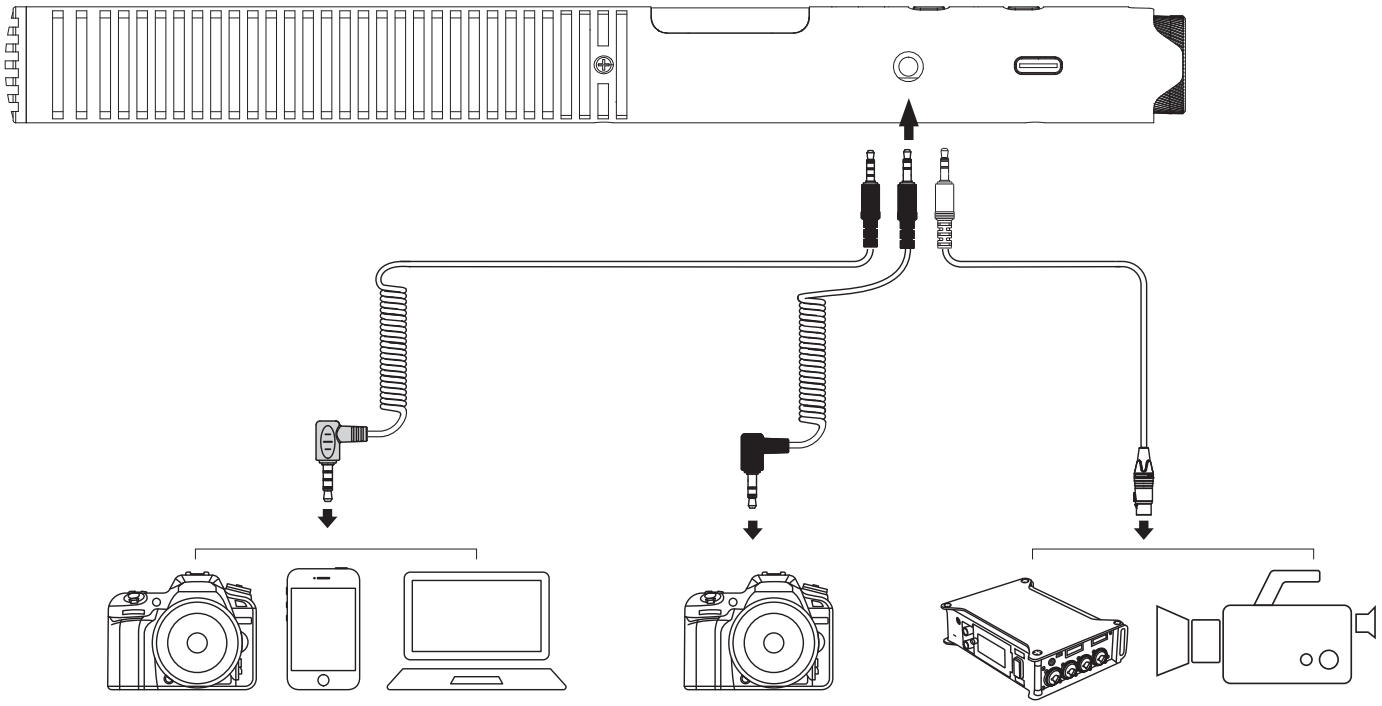
1. 接收器通过USB接口输出音频时，默认通过手机扬声器监听，可通过App切换手机扬声器监听/接收器耳机监听，具体参照说明书底部App操作指南
2. 一拖一时显示一个通道音频动态条， 一拖二时显示两个通道音频动态条
3. 静音功能可通过App开启/关闭

安装与使用方法

有线模式

3.5mm模拟输出

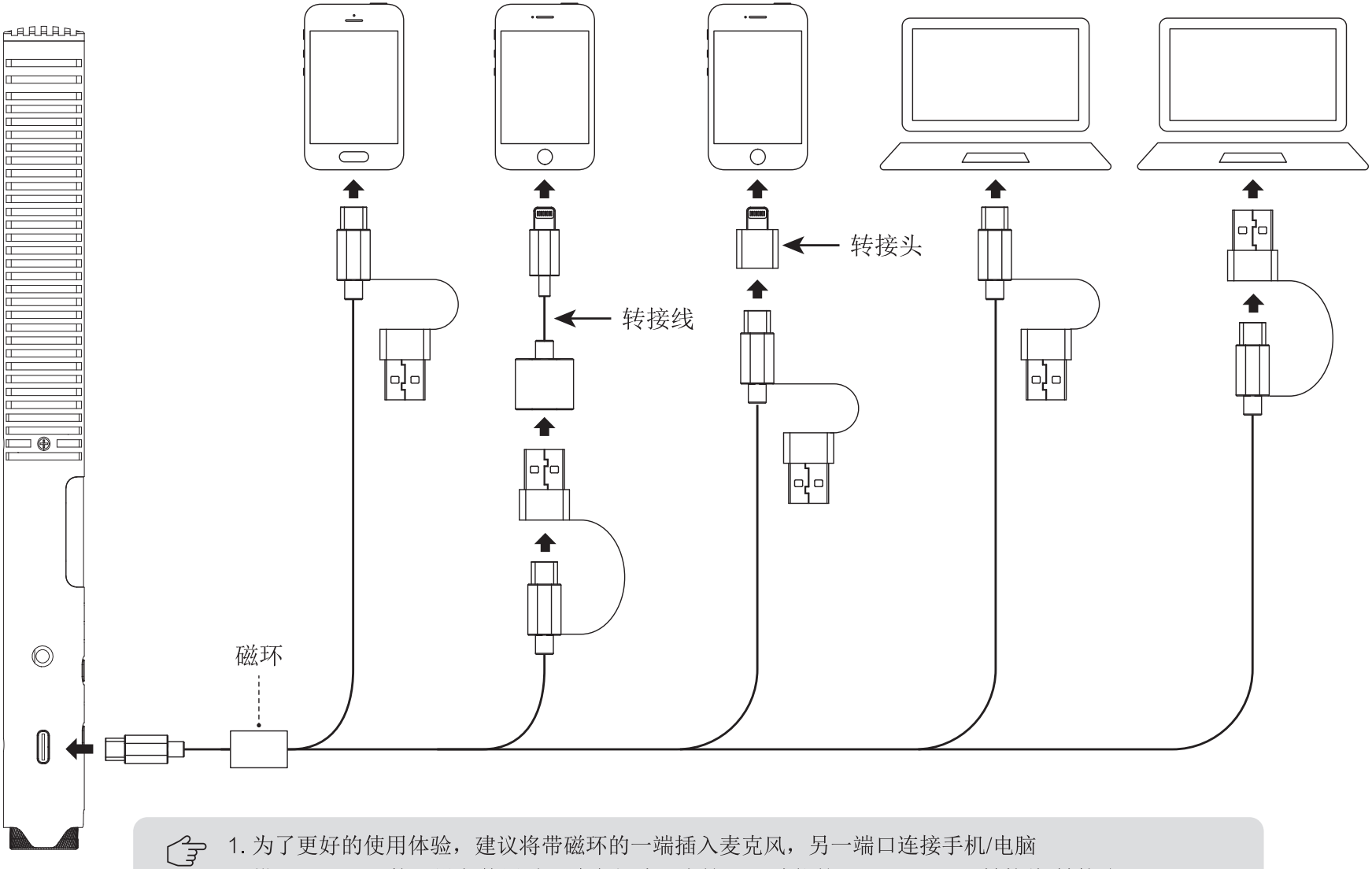
通过3.5mm音频连接线连接麦克风和相机/手机/电脑，或通过3.5mmTRS-XLR音频连接线连接摄影机/录音机



1. TRRS-TRRS音频线通用于相机/手机/电脑（请自行购买），TRS-TRS音频线适用于部分无法兼容TRRS-TRRS音频线的相机，TRS-XLR音频线(请自行购买)适用于录音机和摄影机
2. 使用非降压TRS-XLR音频线时请勿开启录音机/摄影机48V幻象供电，枪麦须手动开关机；使用降压TRS-XLR音频线时可开启48V幻象供电，枪麦可自动开关机
3. 在开始录制前，为获得更好的录音效果，建议适当调低相机的录音电平，以减少底噪和失真；随后请根据实际拍摄环境和声音大小，通过接收器RX上的增益调节功能，将录音音量调整至合适的水平

USB数字输出

通过充电&输出二合一线和相关OTG音频转接线/转接头(如需)连接麦克风和手机/电脑

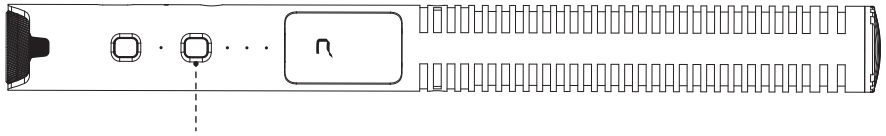


1. 为了更好的使用体验，建议将带磁环的一端插入麦克风，另一端口连接手机/电脑
2. 搭配Lightning接口设备使用时，请自行购买支持OTG功能的USB-Lightning转接线/转接头

时间码同步

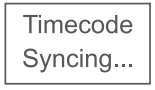
方式一:有线 Jam Sync

1. 在设备开机状态下，双击 REC 按键进入时间码 Jam Sync 模式

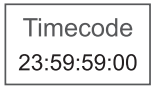


双击 REC 按键

2. 使用 TRS 线将 LTC 时码源连接至 VM40 LITE的 3.5mm 接口
3. 设备识别过程中，屏幕将显示：

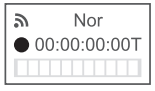


4. 当时间码识别成功后，屏幕将显示当前同步的具体时间码信息



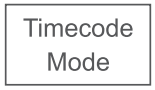
5. 同步完成后，可拔出外部时码器
6. 再次双击 REC 按键，即可退出时间码同步模式
7. 退出时间码同步模式后，VM40 LITE将根据已同步的时间码自走。此时进行录制，录制时间后方将显示 “T” 标识，表示当前录制文件已包含自行运行时间码信息

示例：



方式二:TC IN

1. 在设备开机状态下，双击 REC 按键进入时间码同步模式

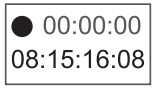


2. 使用 TRS 线将 LTC 时间码源连接至 VM40 LITE的 3.5mm 接口
3. 当设备识别到外部时间码后，屏幕将显示当前同步的具体时间码信息



4. 在时间码同步模式下，长按 REC 按键即可开始内录
5. 录制过程中，VM40 LITE的时间码将持续遵循外部时码器的时钟

示例：



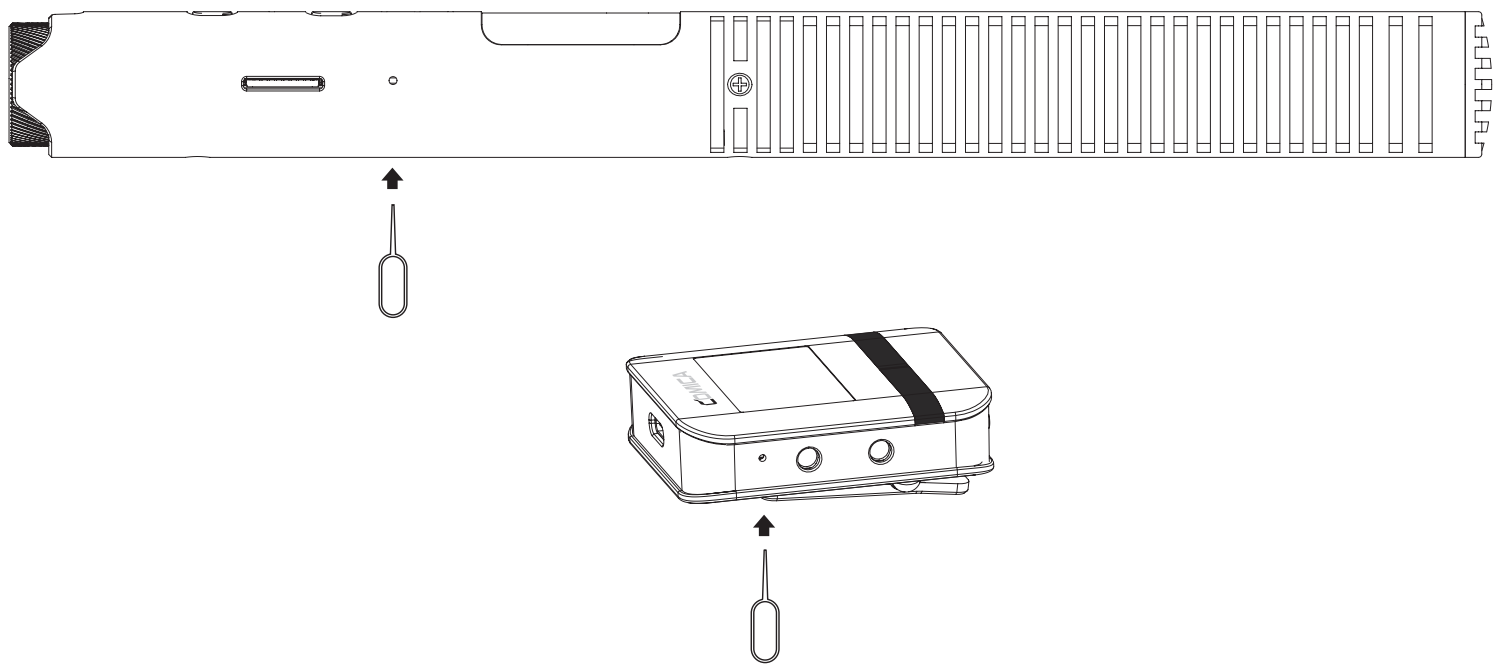
6. 再次长按录制键可停止录制；如需退出时间码同步模式，可再次双击 REC 按键

1. 时间码信息在设备关机后不会保存
2. 设备重新开机后，需重新进行时间码同步
3. 请使用标准 TRS 音频线连接 LTC 时间码源
4. 当启用时间码功能时，自动关机功能将会失效
5. 在有线 Jam Sync 模式下，同步成功后可拔出外部时码器，VM40 LITE 将根据已同步的时间码自行运行
6. 在 TC IN 录制模式下，录制过程中需保持外部时码器连接，以确保时间码持续遵循外部时码器时钟
7. 建议使用 Tentacle 时码器进行同步
8. 不同录制设备在音视频内部同步和时间码接收方式上的差异，可能会影响时间码同步精度，即便 VM40LITE 系统内部已完全同步，也可能因其他设备变量导致音视频轨迹轻微不同步，但使用时间码同步后仅需微调一两帧即可对齐，比手动同步快得多，建议在所有设备上录制可视可听的拍手声作为微调参考点

无线模式

配对(出厂时发射器与接收器默认配对)

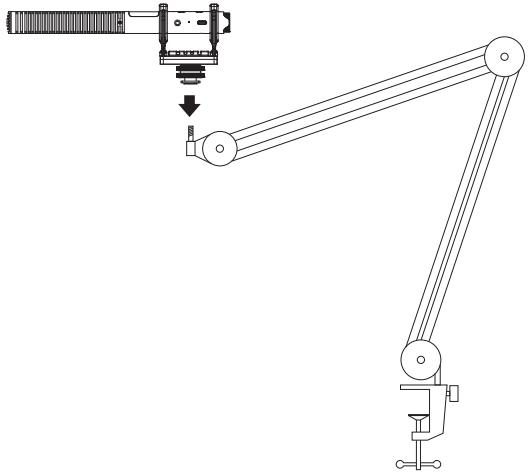
若无线连接出现异常时，使用卡针分别插入短按发射器和接收器的配对孔即可重新配对

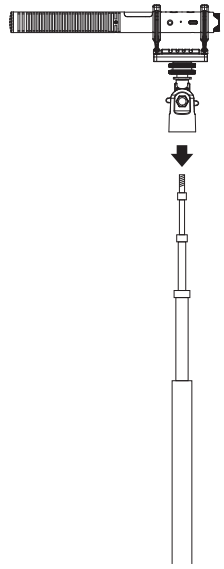


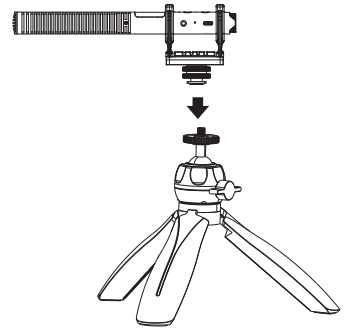
使 用

麦克风(发射器)

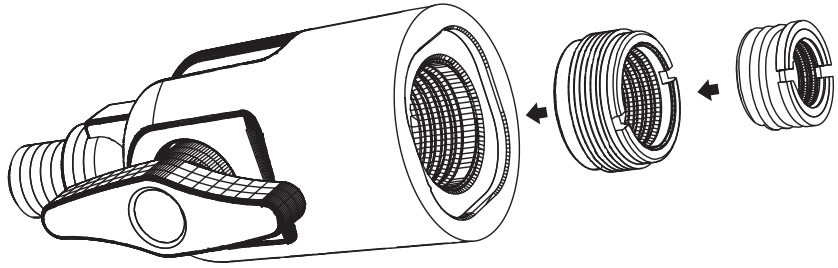
可搭配悬臂支架，挑杆，三脚架等使用





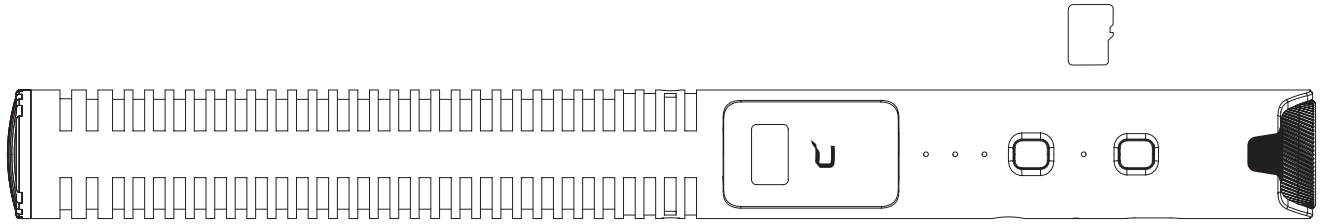


如需使用挑杆转接头和转接螺丝, 请注意将转接螺丝带凹槽的一面朝外安装, 如装反可能导致转接螺丝无法取出



microSD卡录音

1. 将 microSD 卡插入 VM40 Lite 右侧卡槽



2. 设备识别存储卡后，即可进行录音
3. 录音文件将自动保存在存储卡中

1. 请使用符合 Class 10 及以上标准、容量不超过 128GB、格式为 exFAT 的 microSD 存储卡
2. 首次使用前，建议通过 Comica Audio APP 对存储卡进行格式化
3. 为确保录音稳定性，建议使用正规品牌的高速存储卡
4. 请勿在录音过程中插拔存储卡，以免影响录音文件或设备运行
5. 如设备无法识别存储卡，请检查存储卡格式、容量及兼容性是否符合要求

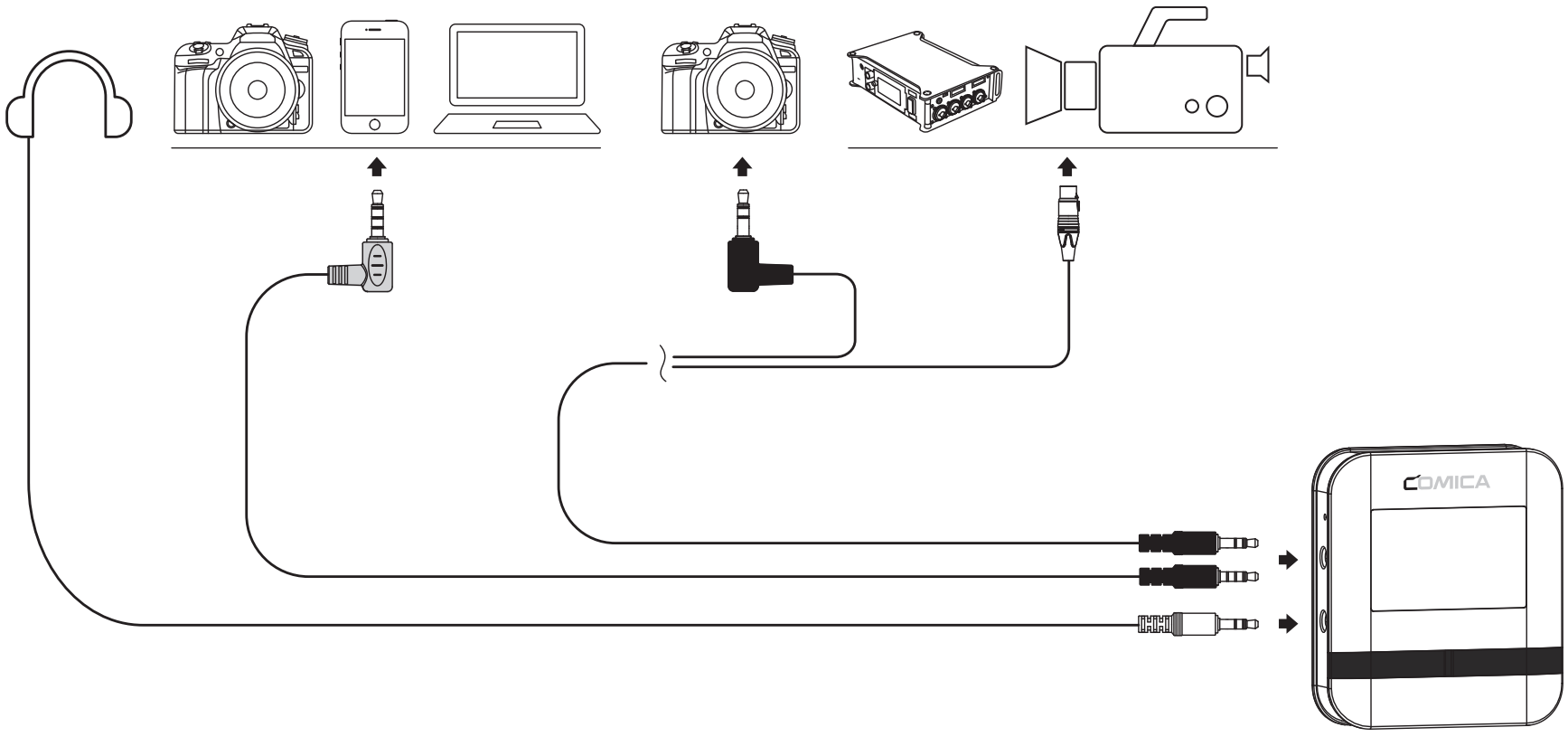
推荐 microSD 卡列表

品牌	系列 / 型号
金士顿 Kingston	Canvas Select Plus microSD，SDCS3 系列
雷克沙 Lexar	High-Performance 633x microSDHC / microSDXC UHS-I BLUE Series
闪迪 SanDisk	Ultra / 至尊高速 microSD UHS-I
铠侠 KIOXIA	EXCERIA 极至瞬速 microSD U1

接收器

3.5mm 模拟输出

通过3.5mm音频连接线连接接收器和相机/手机/电脑，或通过3.5mmTRS-XLR音频连接线连接摄影机/录音机；可根据个人需求选择是否进行监听

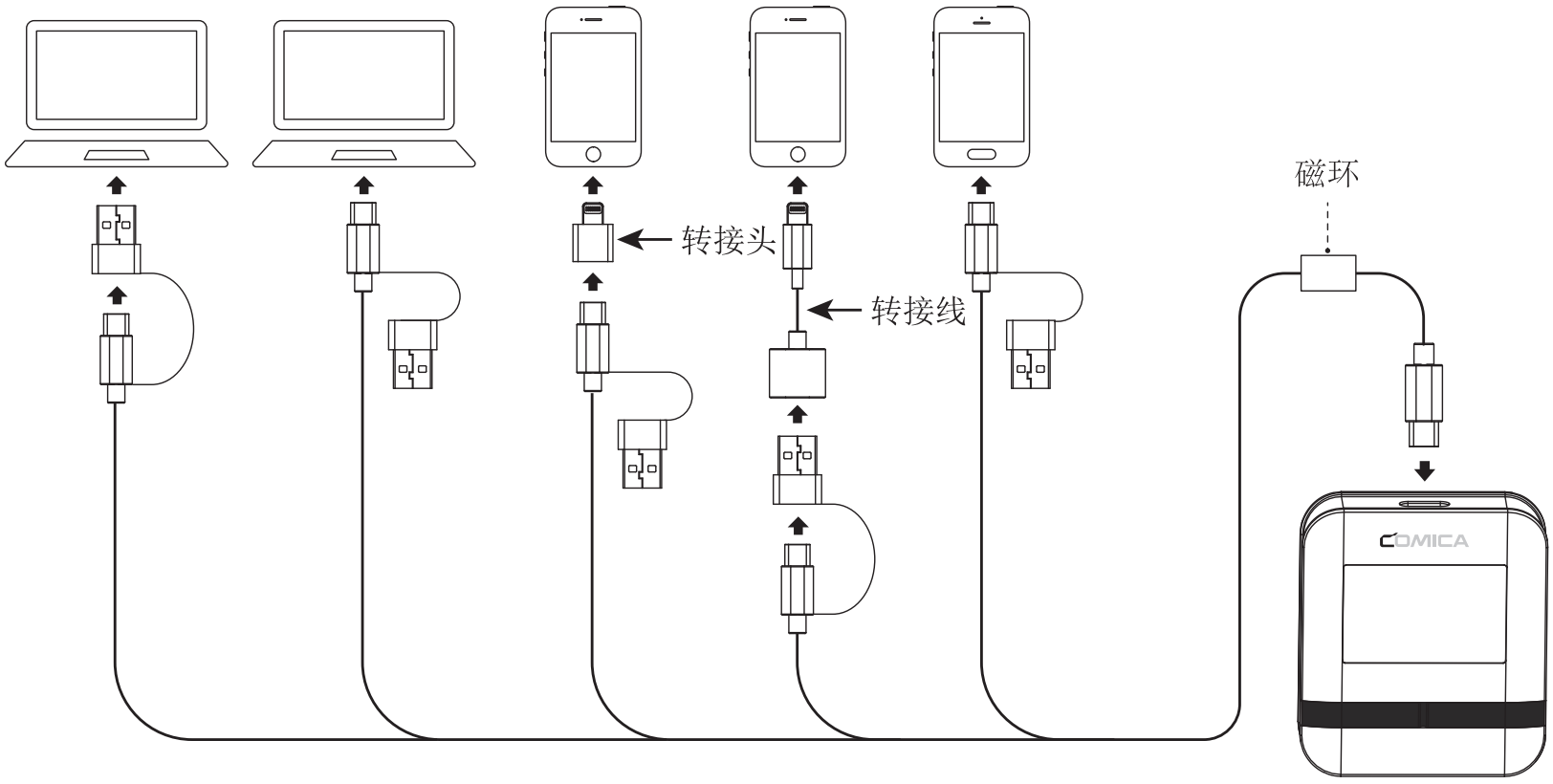


1. TRRS-TRRS音频线通用于相机/手机/电脑（请自行购买），TRS-TRS音频线适用于部分无法兼容TRRS-TRRS音频线的相机，TRS-XLR音频线(请自行购买)适用于录音机和摄影机

2. 在开始录制前，为获得更好的录音效果，建议适当调低相机的录音电平，以减少底噪和失真；随后请根据实际拍摄环境和声音大小，通过接收器RX上的增益调节功能，将录音音量调整至合适的水平

USB数字输出

通过充电&输出二合一线和相关OTG音频转接线/转接头(如需)连接接收器和手机/电脑



1. 为了更好的使用体验，建议带磁环的一端插入麦克风，另一端口连接手机/电脑
2. 搭配Lightning接口设备使用时，请自行购买支持OTG功能的USB-Lightning转接线/转接头

APP操作

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：VM40 LITE；





4. 通过APP可对接收器和发射器进行设置和操作





5. 首次在本设备上使用microSD卡时，请先连接APP，点击TX设备区域空白处进入TX设置菜单，然后对存储卡进行格式化





固件升级

在科唛官网下载VM40 LITE固件升级包至电脑；

1. 枪麦升级

在关机状态下进入拷贝模式(同时长按功能按键与模式按键)，再通过USB数据线连接电脑，将固件升级包拷贝至VM40 LITE TX---UPDATA文件夹，断开USB数据线后重启即可自动升级

2. 接收器升级

在关机状态下进入拷贝模式(先按住CH1键或CH2键，再长按电源键)，再通过USB数据线连接电脑，将固件升级包拷贝至VM40 LITE RX---UPDATA文件夹，断开USB数据线后重启即可自动升级

蓝牙连接部分升级

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

技术规格

无线类型	2.4GHz
发射功率	+10dBm
接收灵敏度	-96dBm
天线类型	陶瓷天线
无线延迟	<20ms
麦克风指向性	超心型
频率范围	20Hz ~ 20kHz
低切	-3dB @ 100Hz
高频提升	+3dB @ 10kHz
输出阻抗	600Ω
灵敏度范围	-38dB ~ -18dB re 1V/Pa(12mv ~ 125mv @ 94dB SPL) ±2dB @ 1kHz
信噪比	75dB SPL(A-weighted,as per IEC651)
等效噪声	19dB SPL(A-weighted,as per IEC651)
最大声压级	130dB SPL(@ 1% THD)
动态范围	111dB SPL(A-weighted,as per IEC651)
模拟输出	3.5mm TRRS/TRS
数字输出	USB-C 48kHz/24bit
电源供电	枪麦部分：锂聚合物 3.7V 350mAh　　接收器部分：锂聚合物 3.7V 330mAh
续航时间	枪麦部分：有线模式32小时/无线模式10小时/录音5小时　　接收器部分:8小时
尺寸	枪麦部分：Φ22mm x L224mm　　接收器部分：54 x 48 x 22mm
净重	枪麦部分：94g　　接收器部分：29.5g
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

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