

VM40

Super Cardioid Dual-Channel Wireless Shotgun Microphone

User Manual

Foreword

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

Main Features

- Dual-channel Wireless Shotgun Mic, 14mm Gold-plating Capsule
- 48kHz/32-bit Float Recording, Wired/Wireless Dual Modes
- 32G On-board Recording for 40-hour Audio Storage
- Exclusive Comica Audio APP for More Functions
- Support One-key Denoise/Low-cut/High-frequency Boost
- Digital&Analog Outputs, Universal for Camera/Smartphone/PC
- Intelligent Power Switch and Auto-sensing 3.5mm Output
- Support Mono/Stereo/Safety Mode and Real-time Monitor
- OLED Screen for Monitoring and Visual Operation
- Battery Life Up to 32H/10H in Wired/Wireless Mode
- Working Range Up to 200m, Stable&Low Latency(Open Area)
- Upgraded Shock-mount&Windproof Accessory

■ Notice

- ⚠ 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
- ⚠ 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:

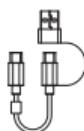


Shotgun Microphone(Transmitter) *1



Receiver*1

Accessories:



2 in 1 Charging
& Output Cable*1



3.5mm TRS-TRS
Audio Output Cable*1



3.5mm TRRS-TRRS
Audio Output Cable*1



Shock Mount*1



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



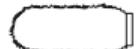
5/8 Male to 3/8
Female Screw*1



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:

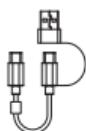


Shotgun Microphone(Transmitter) *2



Receiver*1

Accessories:



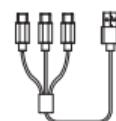
2 in 1 Charging
& Output Cable*1



3.5mm TRS-TRS
Audio Output Cable*1



3.5mm TRRS-TRRS
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



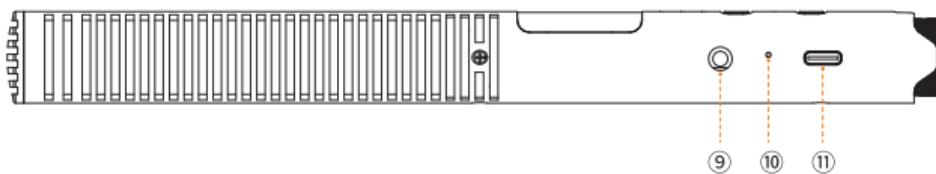
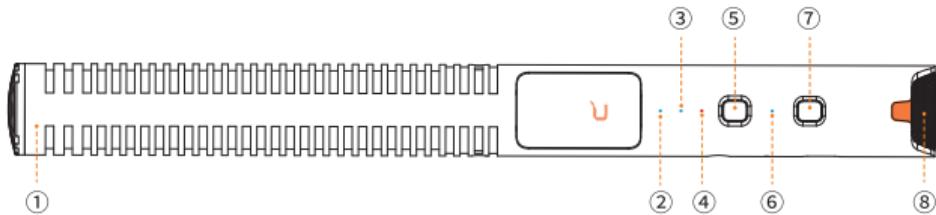
User Manual*1



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. Pairing Hole: When the wireless connection is abnormal, use the pin to short-press the pairing hole to re-pair
11. 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

Screen Display Instruction

Wireless Mode Off

Pairing...

Paired

Nor: Normal Mode

Sft: Safety Mode



Audio Dynamic Bar

(Recording Mode)

Battery Power

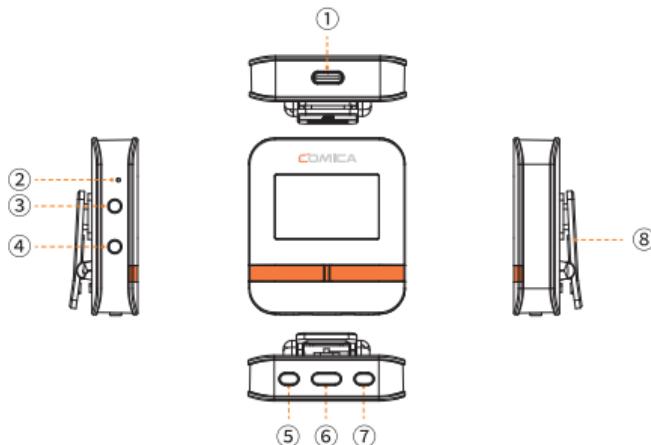
On-board
Recording Time



Copy Mode

(Copy Mode)

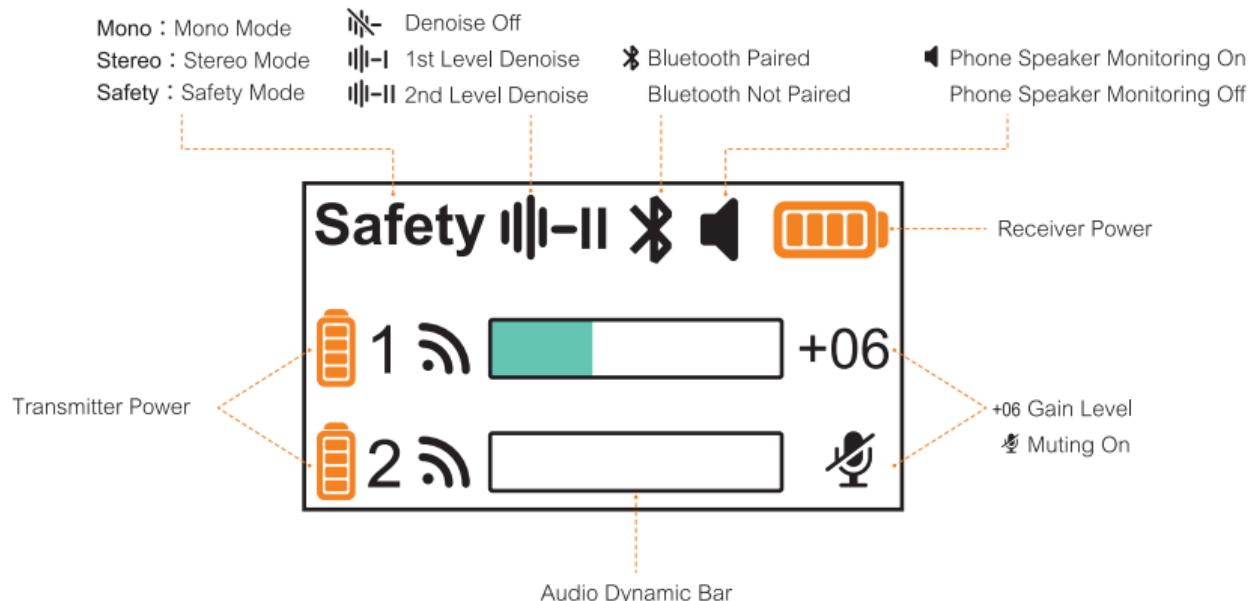
Receiver



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
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

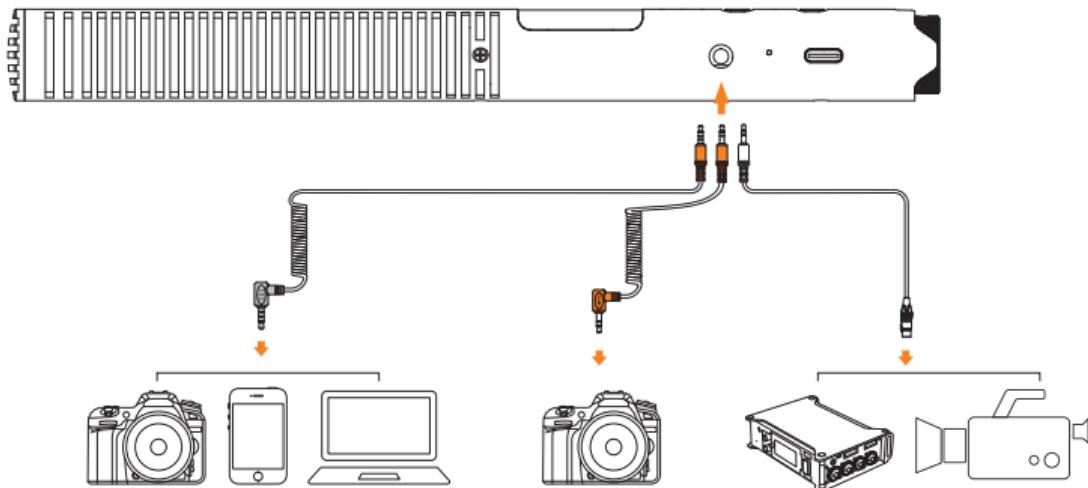
3. The mute function can be turned on/off through the App

■ Installation and Usage

Wired Mode

3.5mm Analog Output

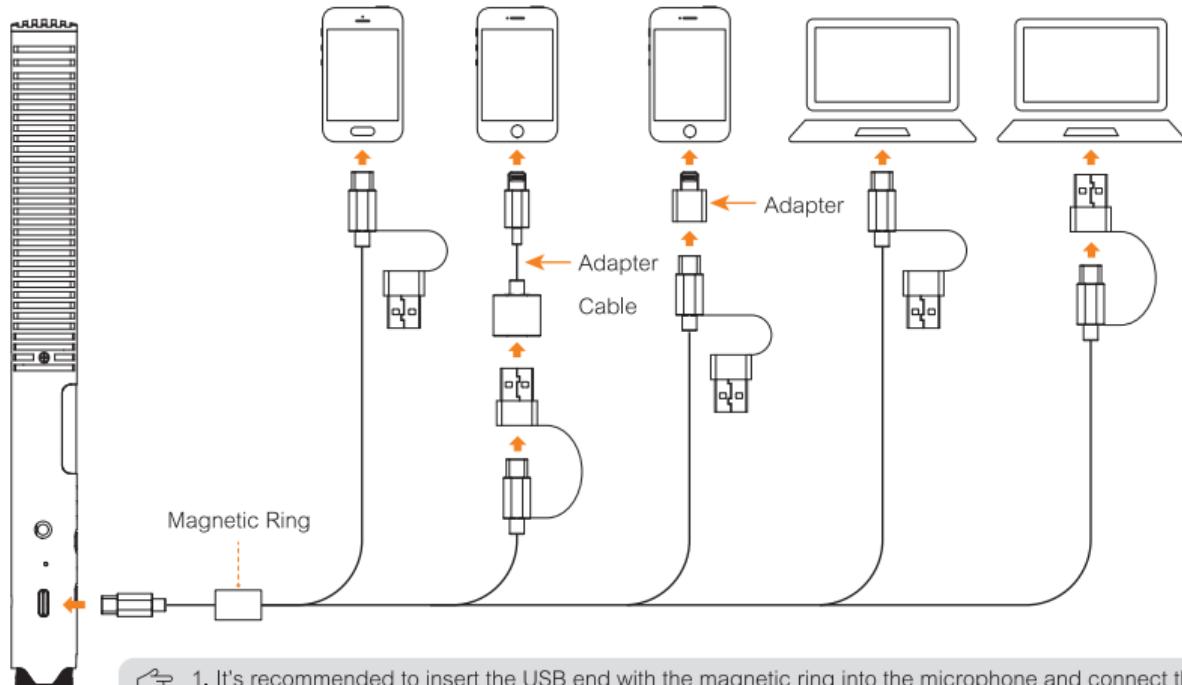
Connect the shotgun microphone to the camera/smartphone/computer through the 3.5mm audio cables, or connect to the camcorder/recorder through the 3.5mm TRS-XLR audio cable



-  1. TRRS-TRRS audio cable for cameras/smartphones/computers, 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

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)

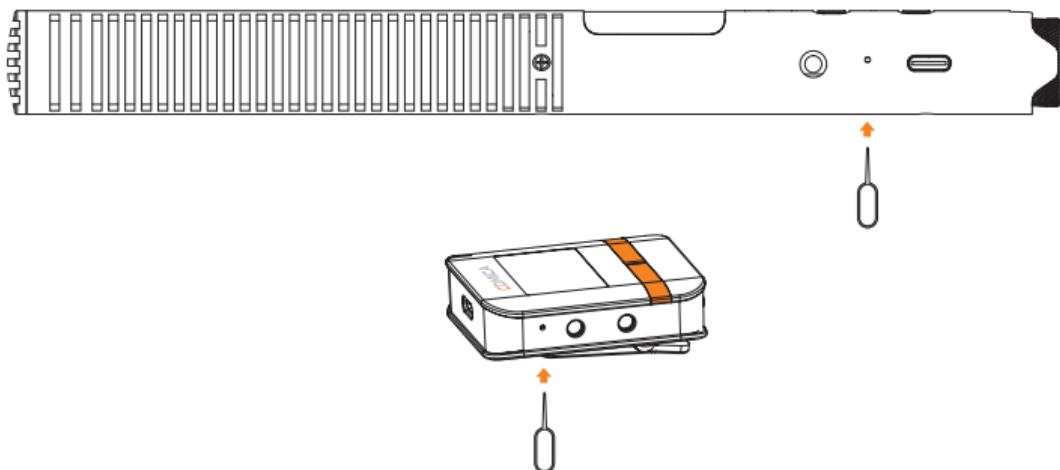


- 1. It's recommended to insert the USB end with the magnetic ring into the microphone and connect the other end to the smartphone/computer
- 2. When using with Lightning interface devices, please prepare a USB-Lightning adapter/cable that supports OTG function

Wireless Mode

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

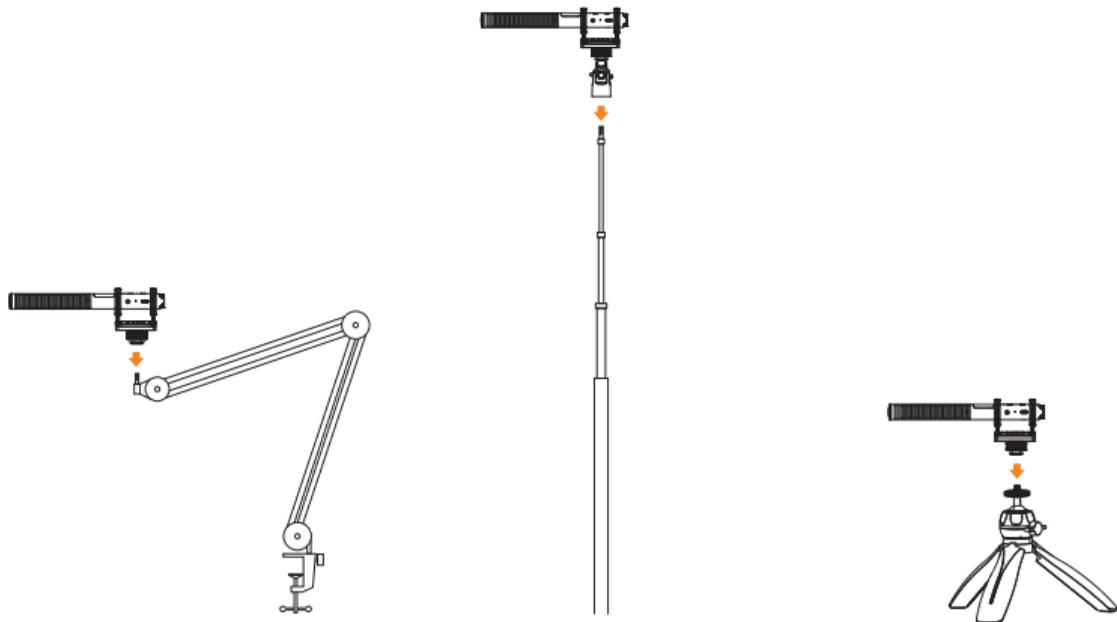
If the wireless connection is abnormal, short-press the pairing holes of the transmitter and receiver with the pin to re-pair



Usage

Microphone(Transmitter)

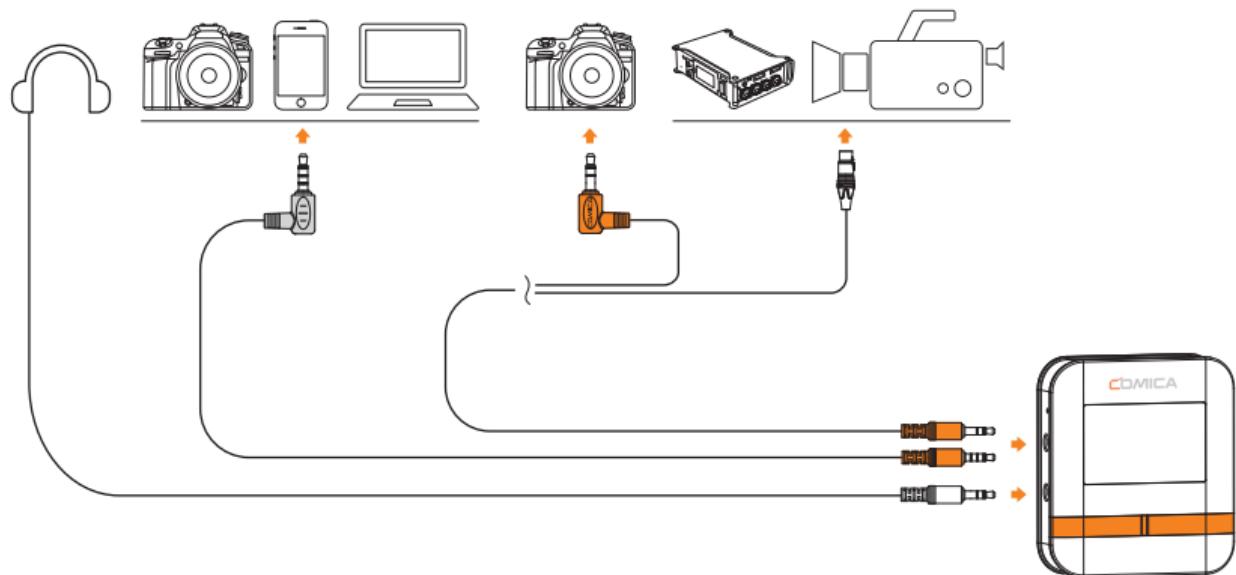
Use with arm stands, boom poles, and tripods



Receiver

3.5mm Analog Output

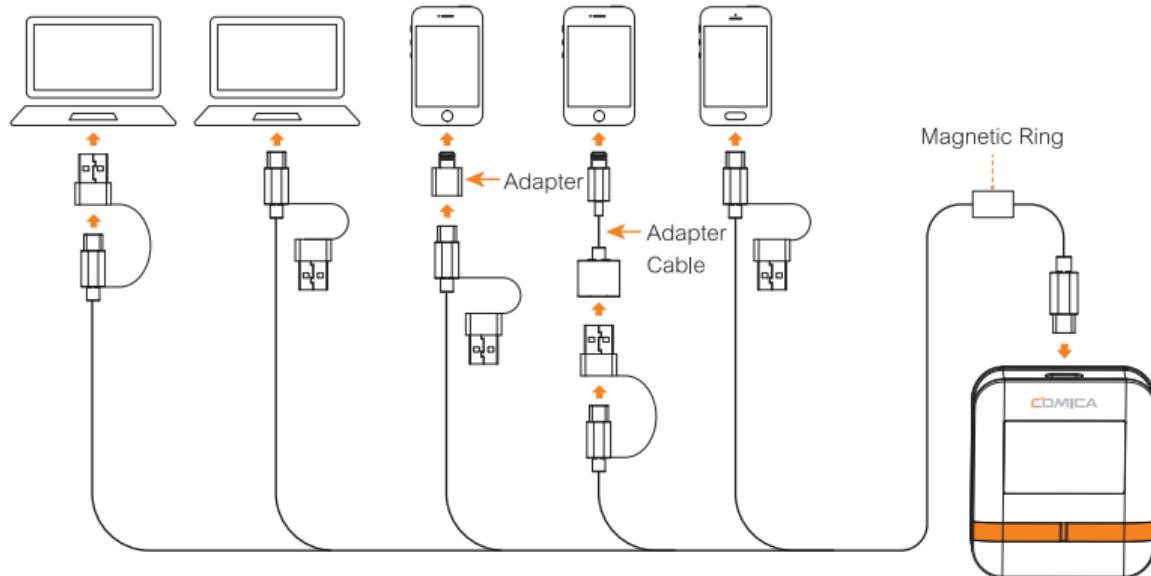
Connect the receiver to the camera/smartphone/computer through the 3.5mm audio cable, or connect to the camcorder/recorder through the 3.5mm TRS-XLR audio cable; Monitoring according to individual needs



☞ TRRS-TRRS audio cable for cameras/smartphones/computers, 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)

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

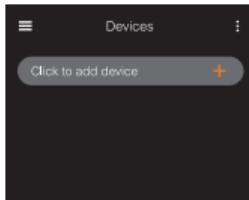
App Operation

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

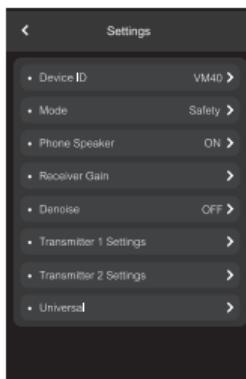


Comica Audio

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



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



Firmware upgrade

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

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 TX—UPDATA folder, disconnect the USB data cable and restart the mic to upgrade automatically

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 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 microphone. Then go to the VM40 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°C ~ 50°C
Storage Temperature	-20°C ~ 60°C