



# **Vocal M**

UHF Dual-Channel Wireless Microphone System  
with Independent Audio Recorder

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**User Manual**

## **Introduction:**

The CKMOVA Vocal M is dual channel wireless microphone system with independent audio recorder features the combination of reliability & broadcast-quality wireless solution for ENG, filmmakers, EEP, vloggers, Live Podcast, weddings, mobile journalist and content creators.

The Vocal M system boasts a range of powerful feature, including mute, keyboard lock and headphone monitor on both transmitter and receiver; Mic & Line input switchable, local memory recording and EQ setting on transmitter; mono & stereo switchable on receiver.

The compact, lightweight & durable construction is convenient working for multiple condition. The OLED screen displays reception quality, battery status, audio level and more feature.

The CKMOVA is able to provide mature and stable UHF technical solutions to ensure stable signal transmission and deliver high-quality audio, it makes Vocal M become the clients priority choice.

## Cautions:

- Do not use the unit underwater or unprotected in rainy conditions.
- Do not use the unit under overheated or supercooled conditions.
- Do not hold the unit close to loudspeakers.
- Do not subject to device to violent collisions, as this can damage the device
- Do not over-tighten the antenna onto the devices  
Support up to microSD 32GB memory card, avoid incompatibility
- When using auto IR Pairing, please stay within one meter, otherwise the signal may be too weak and the sync will not be successful;
- When in use, or when storing, avoid contact with dust and moisture
- Regularly clean the memory card to prevent it from being full during recording

## Available Combo:

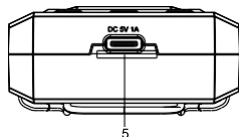
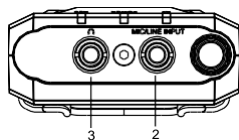
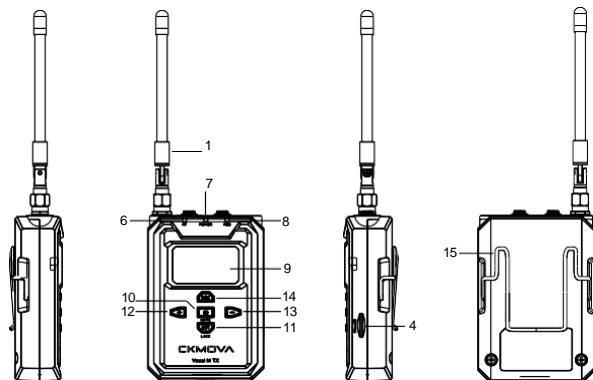
<b>Vocal M V1</b> (TX+RX):	One 3.5mm Transmitter + Receiver
<b>Vocal M V2</b> (TX+TX+RX):	Two 3.5mm Transmitters + Receiver
<b>Vocal M V3</b> (TLX+RX):	One Plug-on XLR Transmitter + Receiver
<b>Vocal M V4</b> (TLX+TX+RX):	One 3.5mm Transmitter + One Plug-on XLR Transmitter + Receiver

## Highlights:

- Dual-channel receiver for camera, mobile, computer & recorder and etc
- OLED display on both transmitter and receiver Detachable and 360°switchable antenna Operating Range 492 (Line of sight)
- Mono & Stereo output switchable
- Locking 3.5mm TRS Mic & Line input switchable Locking 3.5mm TRS real-time headphone monitor on receiver
- Locking 3.5mm TRS real-time & play-back headphone monitor on transmitter
- Local 3.5mm TRS Mic input jack on receiver Support up to 32GB microSD card for memory recording
- Low cut filter (40Hz/80Hz/120Hz)
- High frequency boost (1dB/2dB/3dB/4dB)
- Mute & keypad lock function on both transmitter & receiver
- Built-in rechargeable battery with 12 hours life Durable aluminum alloy construction

# Product Structure:

## 1. Vocal M TX: Body-pack Transmitter



1. Detachable Antenna

2. Mic & Line Input Jack

Connects to the 3.5mm TRS microphone and line level devices

3. 3.5mm Headphone Monitor Jack

For Real-time & Play-back local memory file

4. MicroSD Card Port

5. Type-C Charging Port (DC 5V)

6. RF Indicator

Solid Blue: When paired with receiver

Dim Blue: When unpaired with receiver

## 7. Power Indicator

Solid Blue: The battery is higher than 5%

Solid Red: The battery is lower than 5%

## 8. Record Indicator

Solid Blue: When recording

Dim Blue: Pause or exit recording

## 9. OLED Display

Display details refer to "OLED Display Readouts"

## 10. Power & Mute Button

Power On & Off: long press button for 2 seconds

Mute On & Off: short press button

## 11. Set & Lock Button

Set function: short press button to enter the function control interface, then short press button to confirm

Keypad lock function: long press button for 2 seconds

## 12. "+" Button

Short press button to select different function on the display

## 13. "-" Button

Short press button to select different function on the display

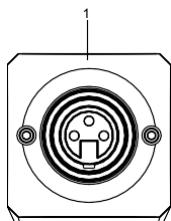
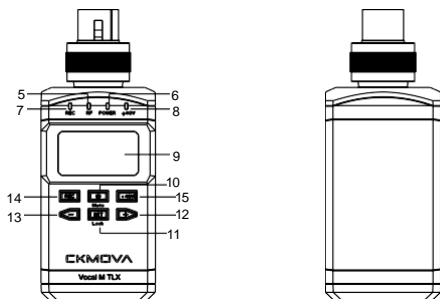
## 14. REC Button

Long press 2 seconds to enter recording model, short press start recording then press again pause recording, long press 2 seconds exit and save recording file

## 15. Belt Clip

Insert one end of the belt clip into one of two holes, and then insert the other end into the hole on the other side

## 2. Vocal M TLX: Plug-on XLR Transmitter



1. 3-pin Female XLR Plug Input Jack  
Connects to the XLR microphone

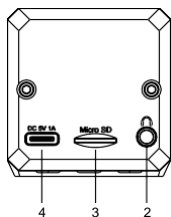
2. 3.5mm Headphone Monitor Jack  
For Real-time & Play-back local memory  
file

3. MicroSD Card Port

4. Type-C Charging Port (DC 5V)

5. RF Indicator  
Solid Blue: When paired with receiver  
Dim Blue: When unpaired with receiver

6. Power Indicator  
Solid Blue: The battery is higher than 5%  
Solid Red: The battery is lower than 5%



## 7. Record Indicator

Solid Blue: When recording

Dim Blue: Pause or exit recording

## 8. "+48V" Indicator

Solid Blue: +48V Phantom Power ON

Dim Blue: +48V Phantom Power OFF

## 9. OLED Display

Display details refer to "OLED Display Readouts"

## 10. Power & Mute Button

Power On & Off: long press button for 2 seconds

Mute On & Off: short press button

## 11. Set & Lock Button

Set function: short press button to enter the function control interface, then short press button to confirm

Keypad lock function: long press button for 2 seconds

## 12. "+" Button

Short press button to select different function on the display

## 13. "-" Button

Short press button to select different function on the display

## 14. REC Button

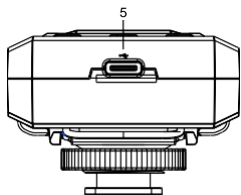
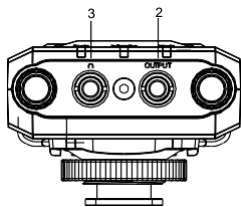
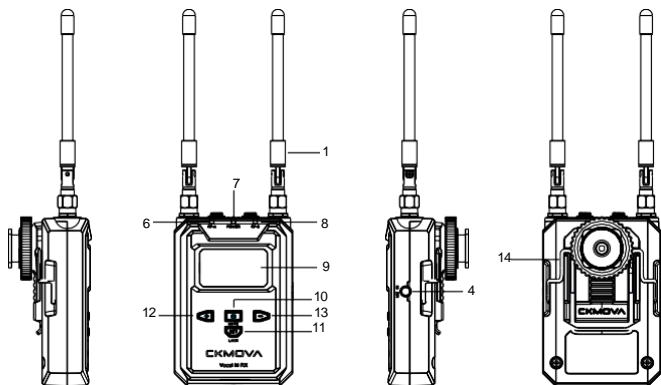
Long press 2 seconds to enter recording model, short press start recording then press again pause recording, long press 2 seconds exit and save recording file

## 15. "+48V" Button

Short press button to switch on & off



### 3. Vocal M RX: Portable Receiver



15

1. Detachable Antenna
2. Audio Output Jack  
Connects to the 3.5mm TRS audio output cable
3. 3.5mm Headphone Monitor Jack  
For Real-time headphone monitor
4. Local Mic Input Jack  
Connects to the 3.5mm TRS microphone
5. Type-C Charging Port (DC 5V)
6. RF-A Indicator  
Solid Blue: When paired with Group A transmitter  
Dim Blue: When unpaired with Group A transmitter

## 7. Power Indicator

Solid Blue: The battery is higher than 5%

Solid Red: The battery is lower than 5%

## 8. RF-B Indicator

Solid Blue: When paired with Group B transmitter

Dim Blue: When unpaired with Group B transmitter

## 9. OLED Display

Display details refer to "OLED Display Readouts"

## 10. Power & Mute Button

Power On & Off: long press button for 2 seconds

Mute On & Off: short press button

## 11. Set & Lock Button

Set function: short press button to enter the function control interface, then short press button to confirm

Keypad lock function: long press button for 2 seconds

## 12. "+" Button

Short press button to select different function on the display

## 13. "-" Button

Short press button to select different function on the display

## 14. Belt Clip

Insert one end of the belt clip into one of two holes, and then insert the other end into the hole on the other side

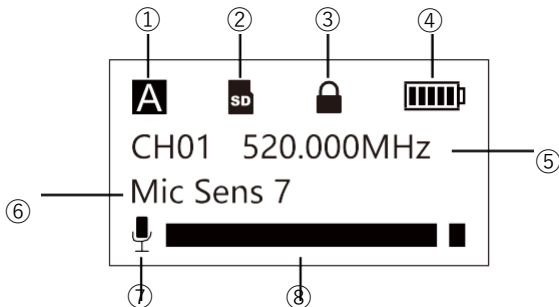
## 15. Shoe Mount Adapter

Push the shoe mount adapter in fully until the belt clip fits into the horizontal groove on the adapter's holder

# OLED Display Readouts:

## Transmitter (Vocal M TX & Vocal M TLX)

**Noted:** Except Vocal M TLX without Mic & Line input switchable function screen, all other function screen is same to Vocal M TX



## Homescreen

If no any operation within 5 seconds, the display automatically returns to the home screen

### ① Group Indicator

Indicates the current group

### ② Memory Card

Display on the screen means that the card has been inserted

### ③ Keypad Lock

Display on the screen means that the keypad lock is open

### ④ Battery Level

Please recharge device when the indicator starts flashing for low power Reminding

### ⑤ Channel and Frequency

Indicates the current channel number and frequency

## ⑥ Mic Gain

Set microphone gain from 1 to 10, the default is 7

## ⑦ Input Mode

 : Mic Input

 : Mic Input Mute On

 : Line Input

 : Line Input Mute On

## ⑧ Audio Input Dynamic Bar

## Recording Mode Screen



Long press REC button to enter the recording mode, short press button to start recording and short press again pause recording, long press again exits and save recording file.

Noted: When enter recording model, you can plug 3.5mm TRS headphone for real-time monitor

① : Recording Time Code

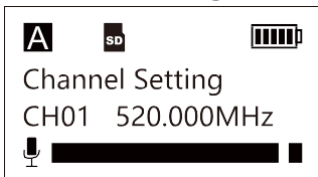
② : Current Recording File Name

## Group Setting Screen



Press the SET button to enter the menu, use the "+" and "-" to select A or B group, the default is Group A

## Channel Setting Screen



Press the SET button to enter the menu, use the "+" and "-" to select the channel you need then press the SET button to confirm, the default is CH01

## IR Pairing Screen



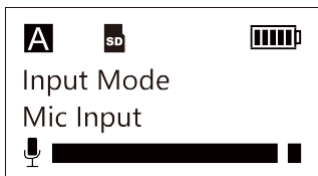
Set to pair with the receiver, the screen will display "Pairing", after successful pairing, it will back to pairing setting screen

## Mic Gain Screen



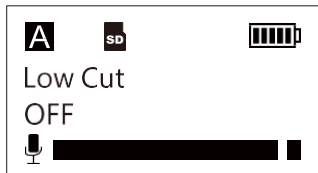
Set microphone gain from 1 to 10, the default is 7

## Input Mode Screen



Mic input and Line input can be switchable based on you need, the default is Mic Input

## Low Cut Screen



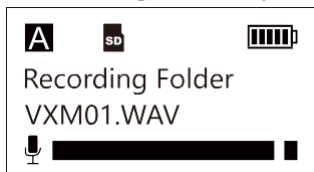
Low cut with 4 level: **OFF; 40Hz; 80Hz; 120Hz**  
the default is OFF

## High Frequency Boost Screen



High Frequency Boost with 5 level: **OFF**; **+1dB**; **+2dB**; **+3dB**; **+4dB**, the default is OFF

## Recording File Playback Screen



Press SET button to enter recording folder, use the "+" and "-" to choose needed recording file, then press SET button to playback recording file via headphone monitor, press again to exit

## Backlight Mode Screen



Backlight with 3 level: **30s**; **60s**; **ON**, the default is 30s

## Restore Screen



**Yes:** Restore factory default

**NO:** Exit without any operation

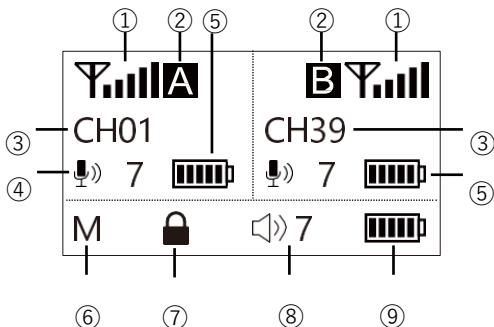
## Version Screen



Indicates current version



## Receiver (Vocal M RX)



## Homescreen

### ① RF Level Indicator

Indicates the current reception level

### ② Group Icon

**A**: A channel is connected

**B**: B channel is connected

**A**: A channel is disconnected

**B**: B channel is disconnected

### ③ Channel

Indicates the current channel number

### ④ Mic Gain of Transmitter

Set microphone gain from 1 to 10, the default is 7

### ⑤ Battery Level of Transmitter

Please recharge device when the indicator starts flashing for low power Reminding

### ⑥ Output Mode

The output mode can be set to mono or stereo, the default is mono

### ⑦ Keypad Lock

Display on the screen means that the keypad lock is open

### ⑧ Output Volume

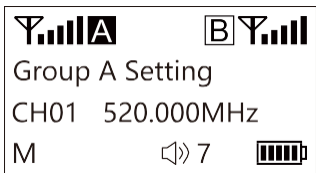
 : Mute On

Set volume from 1 to 10, the default is 7

### ⑨ Battery Level of Receiver

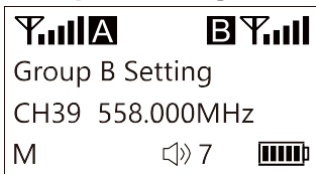
Please recharge device when the indicator starts flashing for low power reminding

## Group A Setting Screen



Press the SET button to enter the menu, use the "+" and "-" to select the channel you need then press the SET button to confirm, the default is CH01

## Group B Setting Screen



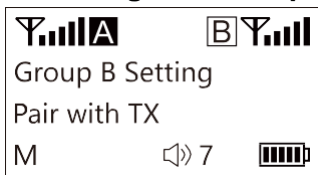
Press the SET button to enter the menu, use the "+" and "-" to select the channel you need then press the SET button to confirm, the default is CH39

## IR Pairing with Group A Screen



Set to pair with the transmitter, the screen will display "Pairing", after successful pairing, it will back to pairing setting screen

## IR Pairing with Group B Screen



Set to pair with the transmitter, the screen will display "Pairing", after successful pairing, it will back to pairing setting screen

## Output Mode Screen



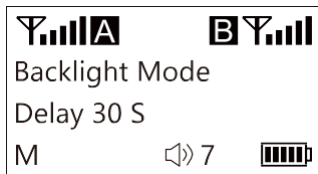
The output mode can be set to mono or stereo, the default is mono

## Output Volume Screen



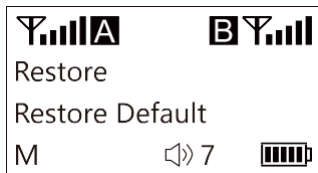
Set volume from 1 to 10, the default is 7

## Backlight Mode Screen



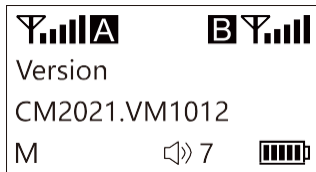
Backlight with 3 level: **30s**; **60s**; **ON**, the default is 30s

## Restore Screen



**Yes:** Restore factory default  
**NO:** Exit without any operation

## Version Screen



Indicates current version

## Specifications:

Frequency Range	<b>IN/USA: 535 - 585 MHz</b> TH: 694.4 - 757.8 MHz IL: 794.125 - 805.875 MHz JP: 806.125 - 809.75 MHz KR: 925.125 - 937.5 MHz
Channel Group	A and B
Antenna	1/4-wave Detachable Antenna
RF Output Power	30mW
Gain Range	30dB
Frequency Response	20Hz to 20kHz
Audio I/O	Locking 3.5mm TRS Mic & Line Input (TX) Locking 3-pin Female XLR Input (TLX) Locking 3.5mm TRS Audio Output (RX)

Signal Processing	Low Cut Filter-(40/80/120 Hz) High Frequency Boost-(1 to 4 dB)
Sensitivity	-41±1dB (0dB=1V/Pa, at 1KHz)
Polar Pattern	Omnidirectional
Latency	< 6ms
THD	< 0.5%
Signal-to-Noise Ratio	> 80dB
Recording Format	WAV
Recording Media	Micro SD(Up to 32GB)
Power Requirements	Built-in Battery or Type-C DC 5V
Built-in Battery Capacity	1500mAh
Battery Life	12 Hours
Battery Charging Time	2 Hours
Housing	Metal
Dimensions	56*80*22mm (Vocal M TX) 45.5*112*44mm (Vocal M TLX) 56*80*22mm (Vocal M RX)
Weight	125g (TX Incl.Battery) 125g (TLX Incl.Battery) 135g (RX Incl.Battery)
Operating Temperature	32°F ~ 122°F
Storage Temperature	-4°F ~ 140°F

# Packing List:

## Vocal M V1

Body-pack transmitter \*1

Portable receiver \*1

W-LM2 omnidirectional lavalier microphone \*1

Locking 3.5mm TRS to 3.5mm TRS audio cable \*1

Locking 3.5mm TRS to 3-pin XLR audio cable \*1

Type-C charging cables \*2

Shoe mount adapter \*1

Belt clips \*2

Antennas \*3

Hard suitcase \*1

User manual \*1

Warranty card \*1

## Vocal M V2

Body-pack transmitters \*2

Portable receiver \*1

W-LM2 omnidirectional lavalier microphones \*2

Locking 3.5mm TRS to 3.5mm TRS audio cable \*1

Locking 3.5mm TRS to Dual 3-pin XLR audio cable \*1

Type-C charging cables \*3

Shoe mount adapter \*1

Belt clips \*3

Antennas \*4

Hard suitcase \*1

User manual \*1

Warranty card \*1

## **Vocal M V3**

Plug-on XLR transmitter \*1

Portable receiver \*1

Locking 3.5mm TRS to 3.5mm TRS audio cable \*1

Locking 3.5mm TRS to 3-pin XLR audio cable \*1

Type-C charging cables \*2

Shoe mount adapter \*1

Belt clip \*1

Antennas \*2

Hard suitcase \*1

User manual \*1

Warranty card \*1

## **Vocal M V4**

Plug-on XLR transmitter \*1

Body-pack transmitter \*1

Portable receiver \*1

W-LM2 omnidirectional lavalier microphone \*1

Locking 3.5mm TRS to 3.5mm TRS audio cable \*1

Locking 3.5mm TRS to Dual 3-pin XLR audio cable \*1

Type-C charging cables \*3

Shoe mount adapter \*1

Belt clips \*2

Antennas \*3

Hard suitcase \*1

User manual \*1

Warranty card \*1



### **US Contact Information**

#### **SWIT ELECTRONICS AMERICA, Inc.**

Address: 3350 Scott Blvd 61-02, Santa Clara, CA 95054

Phone: 1-408-260-8258

Fax: 1-408-228-8438

Email: [info@swit.us](mailto:info@swit.us)

Web: [www.switusa.com](http://www.switusa.com)

### **Manufacturer Information**

#### **Shenzhen Shenyao Technology Co., Ltd**

CKMOVA is the trademark of Shenzhen Shenyao Technology Co., Ltd

Address: Floor 6, 38th Building, BaoNan Street, LongGang District, Shenzhen  
Guangdong, China

Email: [sales@ckmova.com](mailto:sales@ckmova.com)

Web: [www.ckmova.com](http://www.ckmova.com)