CKMOVA

Vocal X
2.4G Dual Channel Wireless Microphone

User Manual

Introduction:

The Vocal X is an ultra-compact 2-persoan digital wireless microphone system. It offers entire solution for interviews, dialogue, live streaming, speech with two people simultaneously, and work with DSLR camera, smartphone, computer, mixer and much more and equipped with 3.5mm &Type C & Apple Lightning connectors receiver option.

The System boasts a range of powerful features, including 3.5mm headphone output, switchable Mono & Stereo, switchable low cut filter and bass & treble recording model optional. Compatible Mic & Line input and color OLED display both on transmitter & receiver.

The clip-on transmitter is compact & lightweight to directly clip on clothing and shirts, with built-in omnidirectional microphone and external input microphone can be applied to multiple recording scenarios.

The CKMOVA is able to provide mature and stable 2.4GHz technical solutions to ensure stable signal transmission and deliver high-quality audio, it makes Vocal X become the clients priority choice.

Available Combo:

Vocal X V1 (TX+RX):	One Transmitter + 3.5mm Receiver
Vocal X V2 (TX+TX+RX):	Two Transmitters + 3.5mm Receiver
Vocal X V1W (TXW+RXW):	One Transmitter + 3.5mm Receiver
Vocal X V2W (TXW+TXW+RXW):	Two Transmitters + 3.5mm Receiver
Vocal X V3 (TX+RCX):	One Transmitter + Type-C Receiver
Vocal X V4 (TX+TX+RCX):	Two Transmitters + Type-C Receiver
Vocal X V5 (TX+RLX):	One Transmitter + Lightning Receiver
Vocal X V6 (TX+TX+RLX):	Two Transmitters + Lightning Receiver

Noted: : If using an Android phone, please set the "OTG Connection" to "ON." The OTG connection menu is usually in the "Additional Settings" in your phone setting menu

Highlights:

Equipped with 3.5mm & Type C & Apple Lightning connectors option

Color OLED display on both transmitter and receiver

Up to 492ft Line of Sight Transmission Distance

Mono & Stereo output switchable

Low cut filter (40hz, 80hz & 120hz)

SwitchableBass & Treble recording model

switchable 3.5mm headphone monitor

Both Mic Input & Line Input compatible

Built-in Mic & External Mic switchable

Up to 12 hours battery life with Type-C charging port

Quick Start Guide:

1. Long press for 3 seconds to turn on Transmitter and Receiver
   Factory default is paired.
2. If not paired, follow the below pairing instructions:

   Long press Pair button on Transmitter for 3 seconds, then 🔗 icon will be flashed that mean entering Pairing mode, then long press Pair button on Receiver for 3 seconds with the same entering Pairing. If paired the transmitter and receiver will exit from Pairing model, the 🔗 icon will be fixed on screen. Meanwhile the receiver display will show transmitter battery indicator, mic gain level
3. The Type-C & Apple Lightning receiver is powered by devices, the receiver can be paired with transmitter without any button control
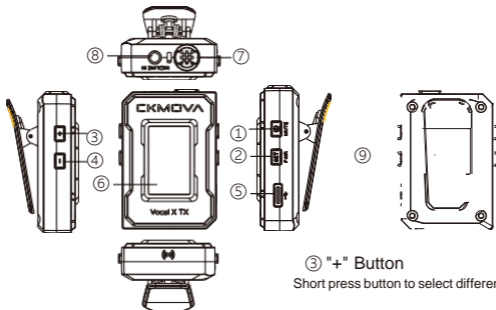4. Connect the Receiver to camera, mixer with supplied TRS to TRS output cable, connect smartphone supplied TRS to TRRS output cable, or other devices with the correct output cable
5. The receiver should now be connected to the transmitters. To check, you can connect headphones to headphone monitor on receiver and listen for audio

For a more detailed description of component controls, functions and setup, please continue reading this manual.

Product Structure:

1. Vocal X TX/TXW: Beltpack Transmitter

③ "+" Button
Short press button to select different function

④ "-" Button
Short press button to select different function

① Power & Mute Button
Power On & Off : Long press button for 3 seconds
Mute On & Off: Short press button

⑤ Type-C Charging Port

⑥ OLED Display
Display details refer to "OLED Display Readouts"

② Set & Pair Button
Set Function: Short press button to enter the function control interface. Then short press button to confirm.

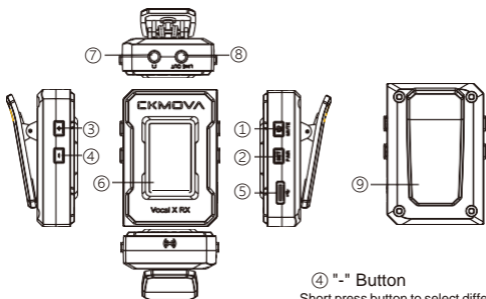Pair Function: Long press button to enter the pairing

⑦ Built-in Microphone

⑧ Mic & Line Input
3.5mm Microphone input and Line input

model, if paired then automatically exit. When already paired, long press button transmitter disconnects with receiver, long press again then connect and exit.

⑨ Belt Clip

2. Vocal X RX/RXW: Clip-On Receiver

① Power & Mute Button
Power On & Off : Long press button for 3 seconds
Mute On & Off: Short press button

② Set & Pair Button
Set Function: Short press button to enter the function control interface. Then short press button to confirm.

Pair Function: Long press button to enter the pairing model, if paired then automatically exit. When already paired, long press button receiver disconnects with both transmitters, long press again then connect and exit.

③ "+" Button
Short press button to select different function

④ "-" Button
Short press button to select different function

⑤ Type-C Charging Port

⑥ OLED Display
Display details refer to "OLED Display Readouts"

⑦ 3.5mm Headphone Output
Connect a headphone to monitor the audio output

⑧ 3.5mm Line Output
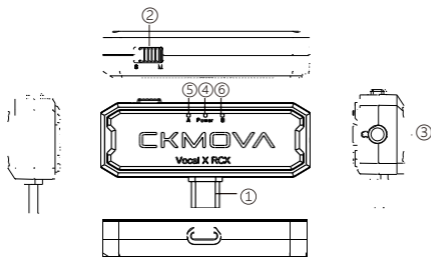Output to DSLR camera, camera recorder, smartphone, mixer, recorder and amplifier

⑨ Belt Clip

3. Vocal X RCX/RLX: Compact Receiver
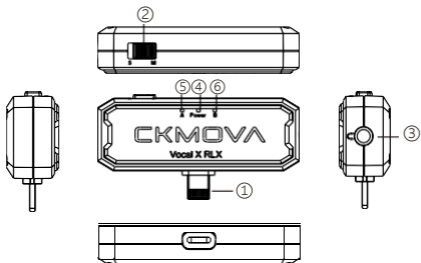

① Type-C Connector

② M/S: Mono & Stereo Output Switchable

③ 3.5mm TRS Headphone Output
Connect a headphone to monitor the audio output

④ Power Indicator

⑤ Pair-A Indicator
Solid Blue: Paired with Transmitter
Dime Blue: Unpaired with Transmitter

⑥ Pair-B Indicator
Solid Blue: Paired with Transmitter
Dime Blue: Unpaired with Transmitter

① Lightning Connector

② M/S: Mono & Stereo Output Switchable

③ 3.5mm TRS Headphone Output
Connect a headphone to monitor the audio output

④ Power Indicator

⑤ Pair-A Indicator
Solid Blue: Paired with Transmitter
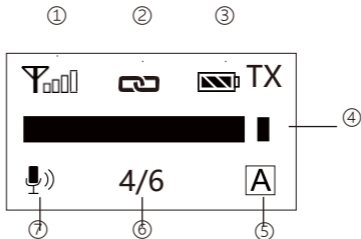Dime Blue: Unpaired with Transmitter

⑥ Pair-B Indicator
Solid Blue: Paired with Transmitter
Dime Blue: Unpaired with Transmitter

OLED Display Readouts

OLED Display Introduction(TX/TXW Transmitter)

① ② ③

Home Screen

If no any operation within 5 seconds, the display automatically

return to the home screen

① **RF Level Indicator**

② **Pairing Indicator**

⚭ : Paired
If without this icon will be disconnected

③ **Battery Level Indicator**
Please recharge device when the indicator start flashing for low power
reminding

④ **Audio Input Dynamic Bar**

⑤ **Group Channel**
   Default is A Channel

⑥ **Mic Gain**

⑦ **Input Mode**

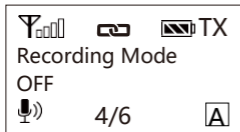🎙)) : Mute Off   🎙✕: Mute On

Mic Gain Screen

```
 Y₀₀▯    ⊂⊃    ▣▣TX
Mic Gain
4
🎙))      4/6          A
```

Audio Input level from 0 to 6.
Default is 4

Low Cut Screen

```
 Y₀₀▯    ⊂⊃    ▣▣TX
Low Cut
OFF
🎙))      4/6          A
```

Low cut with 4 levels: OFF; 40Hz; 80Hz; 120Hz
Default is OFF

Recording Mode Screen

```
Y.ooll   ഓ   ▨TX
Recording Mode
OFF
🎤⟩    4/6         A
```

Recording Mode with 3 levels: OFF; Bass; Treble
Default is OFF

Backlight Mode Screen
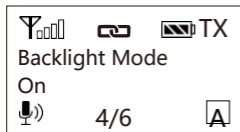
```
Y.ooll   ഓ   ▨TX
Backlight Mode
On
🎤⟩    4/6         A
```

Backlight with 3 level: ''ON'' for long light; ''30S'' for 30s light; ''60S'' for
60s light
Default is ON

Restore Screen

```
Y.ooll   ഓ   ▨TX
Restore
Restore Default
🎤⟩    4/6         A
```

Yes: Restore factory default
NO: Exit without any operation

OLED Display Introduction(RX/RXW Receiver)
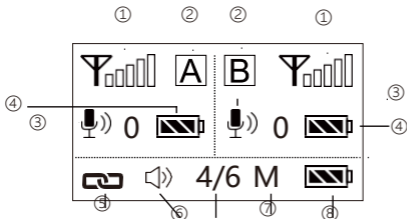
Home Screen
If no any operation within 5 seconds, the display automatically
returns to the home screen

① **RF Level Indicator for Transmitter**

② **Group Icon**

  🅰 : A channel is connected   🅱 : B channel is connected

  Ⓐ : A channel is disconnected   Ⓑ : B channel is disconnected

③ **Transmitter's Mic Gain**

  🎙 : Mute on

④ **Transmitter's Battery Level Indicator**
  Please recharge device when the indicator start flashing for low power
  reminding

⑤ **Receiver's Pairing Indicator**

  🔗 : Paired
  If without this icon will be disconnected
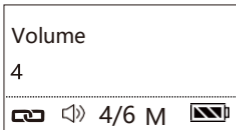
⑥ **Receiver's Volume Level**

🔇 : Mute On

⑦ **Output Mode**

⑧ **Receiver's Battery Level Indicator**
Please recharge device when the indicator start flashing for low power reminding

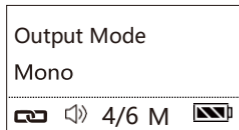**Volume Screen**

```
Volume

4

🔋 🔊 4/6 M    🔋
```

Receiver output volume level from 0 to 6.
Default is 4

Volume Screen

```
Output Mode

Mono

🔋 🔊 4/6 M    🔋
```

Mono and Stereo output can be switchable based on you need.
Default is Mono

Backlight Mode Screen
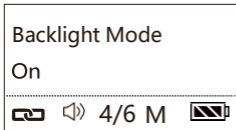
```
Backlight Mode

On
------------------------------------
🔗  ◁»  4/6 M    🔋
```

Backlight with 3 level: ''ON'' for long light; ''30S'' for 30s light; ''60S'' for 60s light
Default is ON

Restore Screen

```
Restore

Restore Default
------------------------------------
🔗  ◁»  4/6 M    🔋
```
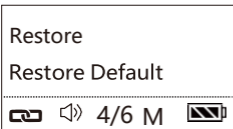
Yes: Restore factory default
NO: Exit without any operation

Specifications:

Transmission Type:	Digital 2.4GHz
Modulation:	GFSK
Frequency Response:	20Hz-20KHz
Operation Range:	150m (492')
Latency:	< 5 ms
THD:	≤ 0.5%
Sample Rate/Resolution:	48kHz/24-Bit
Audio Input:	3.5mm TRS Female Mic & Line Input or Internal Microphone
RF Output Power:	10mW
Mic Polar Pattern:	Omnidirectional
Sensitivity:	-41±1dB (0dB=1V/Pa,at 1KHz)
SNR:	100dB SPL
Power Requirements:	Built-in Li-ion Battery (TX/RX); Powered by Device (RCX/RLX)
Approx Battery Life:	12 hours

Internal Battery Capacity:	600mAh
Battery Charging Time:	3 hours
Operating Temperature:	32~122°F

Packing List:

Vocal X V1
Vocal X RX receiver *1
Vocal X TX transmitter *1
3.5mm TRS to TRS output cable *1
3.5mm TRS to TRRS output cable *1
Built-in mic windscreen furry *1
Type-C to Type-A charging cable *2
Storage bag *1
User Manual *1
Warranty Card *1

Vocal X V2
Vocal X RX receiver *1
Vocal X TX transmitters *2
3.5mm TRS to TRS output cable *1
3.5mm TRS to TRRS output cable *1
Built-in mic windscreen furry *2
Type-C to Type-A charging cable *3
Storage bag *1
User Manual *1
Warranty Card *1

Vocal X V1W

Vocal X RX receiver *1
Vocal X TX transmitter *1
3.5mm TRS to TRS output cable *1
3.5mm TRS to TRRS output cable *1
Built-in mic windscreen furry *1
Type-C to Type-A charging cable *2
Storage bag *1
User Manual *1
Warranty Card *1

Vocal X V2W

Vocal X RX receiver *1
Vocal X TX transmitters *2
3.5mm TRS to TRS output cable *1
3.5mm TRS to TRRS output cable *1
Built-in mic windscreen furry *2
Type-C to Type-A charging cable *3
Storage bag *1
User Manual *1
Warranty Card *1

Vocal X V3

Vocal X RCX receiver *1
Vocal X TX transmitter *1
Built-in mic windscreen furry *1
Type-C to Type-A charging cable *1
Storage bag *1
User Manual *1
Warranty Card *1

Vocal X V4

Vocal X RCX receiver *1
Vocal X TX transmitters *2
Built-in mic windscreen furry *2
Type-C to Type-A charging cable *2
Storage bag *1
User Manual *1
Warranty Card *1

Vocal X V5

Vocal X RLX receiver *1
Vocal X TX transmitter *1
Built-in mic windscreen furry *1
Type-C to Type-A charging cable *1
Storage bag *1
User Manual *1
Warranty Card *1

Vocal X V6

Vocal X RX receiver *1
Vocal X TX transmitters *2
Built-in mic windscreen furry *2
Type-C to Type-A charging cable *2
Storage bag *1
User Manual *1
Warranty Card *1

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