MOVO

WMX-1

Dual-Channel Digital Wireless Microphone

Instruction Manual

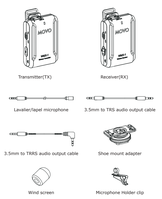
Thank you for purchasing WMX-1 system!

Designed for videographers on a limited budgetand video hobbyists, WMX-1 is a new generation 2.4GHz wireless microphone system, dual-Channel for capturing audio with dual subjects to your smartphones, tablets, DSLR cameras, consumer camcorders, PCs etc.

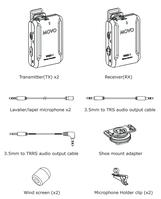
The WMX-1 system is suitable for a wide range of wireless applications such as interviews, mobile journalisme, reporting, vloggings, podcasts and more.

The WMX-1 system is a expandable evolution system that allows the user to mix and match different kinds of receivers while using with the TX transmitter.

The WMX-1 K1 consists of one body-pack transmitter(TX), a portable receiver (RX), and the following accessories:



The WMX-1 DUO consists of two body-pack transmitters(TX), a portable receiver (RX), and the following accessories:



EDGE MIC-DI is specially designed for Lightning iOS Devices.

It consists of one body-pack transmitter (TX), wireless receiver with a Lightning connector (RXD),and their accessories as following:

EDGE MIC-DI DUO is specially designed for Lightning iOS Devices.

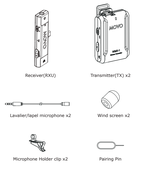
It consists of two body-pack transmitter (TX), wireless receiver with a Lightning connector (RXD),and their accessories as following:

EDGE MIC-UC specially designed for Andriod and other Type-C devices.

It consists of one body-pack transmitter (TX), wireless receiver with a USB Type-C connector (RXU),and their accessories as following:

EDGE MIC-UC DUO specially designed for Andriod and other Type-C devices.

It consists of two body-pack transmitter (TX), wireless receiver with a USB Type-C connector (RXU),and their accessories as following:



Transmitter (TX)

1. Microphone input
- Connect the supplied lavalier microphone here.
- Fully insert the microphone's 3.5mm plug and make sure it clicks into place.

2. Line In

3. Power LED
1) The power LED flashes blue when the unit is on.
2) The power LED glows red when power is low.

For more details about the LED indicator, please refer to the following:

Status	Receiver	Transmitter
The transmitter and the receiver connect.	Stays blue	Flashes continually every 1 second.
The transmitter and the receiver disconnect.	Flashes continually every 1 second	Flashes continually every 1 second
Receiver unit is turned OFF/Transmitter is still ON.	Off	Flashes in blue
Transmitter unit is turned OFF/Receiver is still ON.	Flashes in blue	Off
Low power	Flashes in red	

4. Power OFF/ON

5. Pair
This button is for connecting a signal.
For details, please see "How to connect transmitter and receiver" on page 11.

6. Antenna

⚠
Please don't touch here during use as it will affect the signal.

7. Battery compartment
Accommodates two AAA batteries.
For more details, please see "Installing batteries" on page 9.

8. Clip
For more details, please see "Installing or uninstalling clip" on page 13.

Receiver (RX)

1. Earphone Jack
(3.5mm diameter stereo mini jack)
To monitor the receiver output, connect the headphones to this connector.

⚠
NOTE:
Do not connect headphones with a monaural mini jack. This may lead to short-circuiting of the headphone output, resulting in distorted sound output.

2. LINE OUT (audio output) Jack
- For use with a smartphone, tablet or Mac. Connect one end (90° plug) of the supplied TRRS stereo 3.5mm mini output cable here, and the other end (straight plug) to smartphone.

- For cameras, camcorders, audio recorders and other audio/video recording devices. Connect one end of the supplied TRS stereo 3.5mm mini output cable here, and the other end to camera.

3. Power LED
For more details, please see "Power LED" on page 5.

4. Power OFF/ON

5. Volume +/-
Press these buttons to set the attenuation level of the input signal.

6. Antenna

⚠
Please don't touch here during use as it will affect the signal.

7. Battery compartment
Accommodates two AAA batteries.
For more details, please see "Installing batteries" on page 9.

8. Clip
For more details, please see "Installing or uninstalling clip" on page 13.

9.Shoe mount adapter

What's the difference?

- 3.5 mm TRRS connector
  - For Smartphone, tablet, Mac or laptop with combo headphone/Mic jack

- 3.5 mm TRS connector
  - For cameras, camcorders, audio recorders and other audio/video recording devices.

How to use it

Insert batteries in the transmitter and receiver units

1. Both the transmitter and receiver require two AAA batteries.
2. Slide and remove the transmitter's battery compartment cover.
3. Insert two batteries.
4. Close the battery compartment cover.
5. Repeat steps 2 to 4 to insert battery into receiver.

Connecting the transmitter and receiver

Using the microphone with a smartphone, tablet, Mac or laptop with combo headphone/Mic jack.

Receiver

1. Mount receiver to Smartphone, tablet, Mac or laptop.
2. Using TRRS cable, plug the 3.5 mm connector(straight plug) into the audio jack of your smartphone.
3. Insert the 90° plug of the connecting cable into the receiver"LINE OUT" jack.
4. Insert earphone into receiver " Ω " to monitor sound.
5. Slide the power ON/OFF switch to the ON position (the LED indicator light will turn blue)
   Caution: Please do not mix up the different plugs. For details, please refer to" What's the difference" on page 8.

⚠
NOTE:
Not all Android devices support external microphones when taking video, and you may need to download a third-party app to set up an external microphone.

Connecting the Transmitters and the Receiver

The transmitters and receivers will already be connected.

If transmitters and receiver disconnect, please follow these steps:

1. Turn on the receiver and the transmitters.
2. Simultaneously hold the "+" and "-" buttons on the receiver and the "pair" button on the transmitter for 3 seconds.
3. When the transmitter and receiver connect, the receiver light will stay blue, and the transmitter light will flash every 2.5 seconds.
4. Repeat step 2 for the second transmitter.

If the pairing is unsuccessfull, the lights on both the receiver and transmitters will flash continually every 1 second. Retry steps 1-4 to connect.

Using the microphone with cameras, camcorders, audio recorders and other audio/video recording devices.

Receiver

1. Mount receiver to cameras, camcorders, audio recorders and other audio/video recording devices.
2. Using TRS cable, plug the 3.5 mm connector into the audio jack of your camera.
3. Insert the other end of the connecting cable into the receiver "LINE OUT" jack.
4. Insert earphone into receiver " Ω " to monitor sound as needed.
5. Slide the power ON/OFF switch to ON position (the LED indicator will light in blue)
   Caution: Please do not mix up audio cables. For details, please refer to" What's the difference" on page 8.

Installing microphone

1. The clip comes mounted onto the microphone
2. Both the transmitter and receiver include a clip, meaning you can mount them in any place you want.
3. Adjust the direction of the microphone to your mouth by rotating the microphone.

If the receiver needs to be mounted onto a camera hot/cold shoe, please follow these steps:

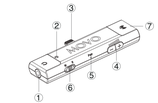
1. Push the clip to the right side.

2. Push the cold shoe mount on the position.
3. Mount the receiver onto camera hot/cold shoe

Edge-RXD

2.4GHz Wireless Receiver
For iOS devices

Receiver (RXD)



1. Headphone Jack
(3.5mm diameter stereo mini jack)
To monitor the receiver output, connect the headphones to this connector.

⚠
NOTE:
Do not connect headphones with a monaural mini jack. This may lead to short-circuiting of the headphone output, resulting in distorted sound output.

2. Power LED

For more details about LED indicator, please refer to as following:

Status	Receiver	Transmitter
The transmitter and the receiver connects.	The indicator won't light up if the unit is set to the audio/video mode.	Flashes continually every 2.5 seconds
The transmitter and the receiver disconnects.	Flashes continually every 1 second	Flashes continually every 1 second
Receiver unit is turned OFF/Transmitter is still ON.	Off	Flashes in blue
Transmitter unit is turned OFF/Receiver is still ON.	Flashes in blue	Off
Low power	/	Flashes in red
The transmitter and the receiver waits for pairing.	Flashes quickly in blue light.	

3. Lightning Connector

4. Volume +/-
Press these buttons to set the attenuation level of the input signal.

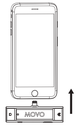
5. Pair Bottom
For more details, please see "Connecting the transmitter and the receiver" on page 21.

6. M/S Switch

7. Built-In Internal Antenna

Set Up Guide

1. Plug the RXD directly into the lightning port of smartphone.
2. Open the audio/video app on mobile device, then the indicator of receiver should be light up.
3. The Power LED flashes slowly waiting for connecting with the transmitter.



Connecting the transmitter and the Receiver

Before leaving factory, the connection of transmitters and receiver will be established.
If transmitters and receiver disconnect, please follow below steps:

1.Turn on the transmitter and plug the receiver into smartphone.
2. Long press the pair bottom of receiver with pair pin, the indicator of receiver will flash quickly when entering paring mode.

3.Long press the pair button on the side of the transmitter entering the pairing mode.
4.When the transmitter and receiver connected, the light of receiver stays blue, and transmitter flashes every 2.5 seconds.

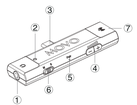
Otherwise, the light of receiver and transmitter will flash continually every 1 second, then try 1-3 steps again.

⚠
NOTE:
1) Please adjust the monitoring audio volume of RXD before recording.

Edge-RXU

2.4GHz Wireless Receiver
For Android and other Type-C devices

Receiver (RXU)



1. Headphone Jack
(3.5mm diameter stereo mini jack)
To monitor the receiver output, connect the headphones to this connector.

⚠
NOTE:
Do not connect headphones with a monaural mini jack. This may lead to short-circuiting of the headphone output, resulting in distorted sound output.

2. Power LED

For more details about LED indicator, please refer to as following:

Status	Receiver	Transmitter
The transmitter and the receiver connects.	Stays blue	Flashes continually every 2.5 seconds
The transmitter and the receiver disconnects.	Flashes continually every 1 second	Flashes continually every 1 second
Receiver unit is turned OFF/Transmitter is still ON.	Off	Flashes in blue
Transmitter unit is turned OFF/Receiver is still ON.	Flashes in blue	Off
Low power	/	Flashes in red
The transmitter and the receiver waits for pairing.	Flashes quickly in blue light.	

3. USB Type-C Connector

4. Volume +/-
Press these buttons to set the attenuation level of the input signal.

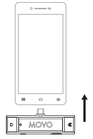
5. Pair Bottom
For more details, please see "Connecting the transmitter and the receiver" on page 26.

6. M/S Switch

7. Built-In Internal Antenna

Set Up Guide

1. Plug the RXU directly into the lightning port of smartphone.
2. The Power LED flashes slowly waiting for connecting with the transmitter.



Connecting the transmitter and the Receiver

Before leaving factory, the connection of transmitters and receiver will be established.
If transmitters and receiver disconnect, please follow below steps:

1.Turn on the transmitter and plug the receiver into smartphone.
2. Long press the pair bottom of receiver with pair pin, the indicator of receiver will flash quickly when entering paring mode.

3.Long press the pair button on the side of the transmitter entering the pairing mode.
4.When the transmitter and receiver connected, the light of receiver stays blue, and transmitter flashes every 2.5 seconds.

Otherwise, the light of receiver and transmitter will flash continually every 1 second, then try 1-3 steps again.

⚠
NOTE:
1) Please adjust the monitoring audio volume of RXD before recording.

Troubleshooting

If you have any problem using the WMX-1 components, use the following checklist. If any problem persist, please consult our local dealer, or contact us directly.

Status	Cause	Measure
The units does not turn on.	The batteries of WMX-1 TX are exhausted.	Replace the batteries with new ones.
	The indicator LED of RXD doesn't light up while connecting with the iOS devices.	Make sure the audio/video app on mobile device, then the indicator of receiver should be light up.
	The indicator LED of RXU doesn't light up while connecting with the Android devices.	Please try to reconnect it again.
The batteries become drained quickly.	The WMX-1 components is being used under extremely bad conditions.	The batteries drain quickly under extremely bad conditions.
	The WMX-1 components is being used under extremely bad conditions.	The batteries drain quickly under extremely bad conditions.
There is no sound.	The transmitter and receiver are not in pairing mode.	Please refer to the Connecting the transmitter and the Receiver.
	There do not have a good connection with the receiver.	Please try to reconnect it again.
	There do not have a good connection with the earphone.	Please try to reconnect it again.
The sound is weak.	The input level of the receiver is low.	The input level of the transmitter and the receiver should be at the same level as the transmitter. Keep this level as high as possible without clipping (Red Light) beat Sound and Noise Ratio.
	The input level of the receiver is inappropriate.	Adjust the audio output level on the transmitter and receiver to be as high as possible without clipping (Red Light) beat Sound and Noise Ratio.
There is distortion in the sound.	Headphones with a monaural mini jack is used.	Use the headphones with a stereo mini jack.
	When using an omnidirectional microphone for the one transmitter, the other one the microphone may be picking up the much ambient.	Make sure the microphone is as close as to the subject as possible.

Status	Cause	Measure
The audio is noisy or cracks. It can include hissing, static noise, bursts, pops and clicks	RF interference	There can be a lot of RF interference outdoors. Move to an indoors, where there is less RF interference.
	RF signal is weak.	Keep the receiver away from Lamps, fluorescent lighting, and metal objects. Keep the receiver away from Turn off all nearby computers and other electronic devices. Make sure there is an unobstructed line of sight between the transmitter and the receiver. Keep in mind that your body, furniture, and other objects can degrade signal strength. Make sure the receiver and the transmitter are within 197 (60m) feet of each other. Move closer, and keep need to move closer.

Feature:

WMX-1 System

- Ideal for Youtubers, vloggings, facebooks, podcasts, mobile journalisms and more
- Digital 2.4 GHz frequency band
- Dual-Channel wireless receiver
- Ultracompact and miniature-size for receiver
- Super-clear recording sound
- Adjustable monitoring audio level
- Monitoring sound by 3.5mm headphone output
- Master volume control
- Selectable stereo and mono mode
  (For Edge-RXD/RXU only)
- Omnidirectional lavalier microphone
- Standard camera shoe mount and clip included
  (For WMX-1/WMX-1 DUO only)
- Hard case included
- Compatible with smartphones, DSLR cameras, consumer camcorders, PCs etc
  (For WMX-1/WMX-1 DUO only)
- Compatible with smartphones,tablets, laptops
  (For EDGE MIC-DI/UC only)

Specifications:

WMX-1 System

RF Modulation:	GFSK (Gauss Frequency Shift Keying)
Frequency band:	2.4 GHz (2405-2478MHz)
Frequency response:	20Hz-14KHz±3DB
Signal/Noise:	84DB or more
Distortion:	0.05% or less (3DD,1 KHz,65mW output)
RF output level:	3mW
Earphone output level:	32Ω,65mW
Reception sensitivity:	-96dB +/- 3dB (-3dB=2cPa, 1kHz
Audio input connector:	3.5mm mini jack
Operation range:	60m (197ft) (without obstacle)
Power requirements:	TX/RX: 3V DC (Two AAA size batteries)
	Edge-RXD: Supplied by iOS device
	Edge-RXU: Supplied by USB Type-C device
Plug:	Edge-RXD: Apple MFi Certified Lightning Connector
	Edge-RXU: USB Type-C Connector
Consumption power:	Receiver: 3V/70mA Transmitter: 3V/70mA
Dimensions:	TX/RX: 45x70x20mm (1.8x2.8x1.4").
	Edge-RXD: 82×30.7×12mm (3.2×1.2×0.5")
	Edge-RXU: 82×30.7×12mm (3.2×1.2×0.5")
Weight:	TX/RX: 47g (1.7 oz)
	Edge-RXD: 12g (0.4oz)
	Edge-RXU: 9.5g (0.3oz)

CAUTION

1.Please use our original audio signal cable which is equipped, it's more compatible with the wireless microphone, and make the sound better.
2.The figure given is only the approximate value that applies when there are no obstructions between the transmitter and receiver. This distance will vary depending on metal objects, people and other obstructions and on the signal strength.
3.Battery life may vary depending on the type of battery used.

IMPORTANT

- If you do not intend to use the wireless microphone for a long period time, please remove the batteries from both the transmitter and receiver.
- Do not touch the lavalier/lapel microphone, transmitter and receiver while recording, as this will affect the quality of the sound.
- Do not let the transmitter close to high-voltage equipment or to devices that emit strong electromagnetic fields, otherwise, it may cause the noise to be recorded.
- Do not use or leave the transmitter and receiver in hot, humid places.
- Do not leave the receiver attached to the camera when storing the camera in a case.
- Do not mix up to use the transmitter and receiver.

WARNING

- Keep the wireless microphone out of the reach of children.
- Never use leaking batteries and never expose batteries to excessive heat or fire.

MAINTENANCE

- Do not operate the device with wet hands or feet.
- Clean the equipment only in the way described in the instructions for use.
- Take care to prevent the equipment from dropping down.Make sure that the device is properly fastened and reliably mounted. If the device has dropped down on the floor have it inspected by a skilled electrician before you switch it on again.
- Should the equipment be damaged or defective,or if you notice a scorching smell:
  Interrupt the electric power supply immediately by removing the batteries.Do not operate the device with a damaged housing,do not repair the device yourself. Have the device only repaired by a skilled electrician.
- Always keep your device in good condition,as specified in these in-structions for use.
- Do not open the device.

WARNING

FCC STATEMENT :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Warning:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

HAPPY? LET US KNOW!

We love to hear from customers! Please contact us if you have any questions or issues. Our No.1 priority is your satisfaction!

Contact us at: support@movophoto.com

Act Now!

Register the installation of your Movo Product. If you report the product within 30 days of purchase, we will extend the warranty on your product to 180 days for a total of two years of coverage.

To register your product and for full details on our warranty, visit www.movophoto.com/warranty and click on "Product Registration".

NOT HAPPY? LET US HELP!

Have any questions or concerns? We're here to help!

Email us at: support@movophoto.com

Live Chat us at: www.movophoto.com

Facebook & Youtube: movophotogroup
Twitter & Instagram: @movophoto

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