

Operating Instructions

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Thanks for choosing MOVO!

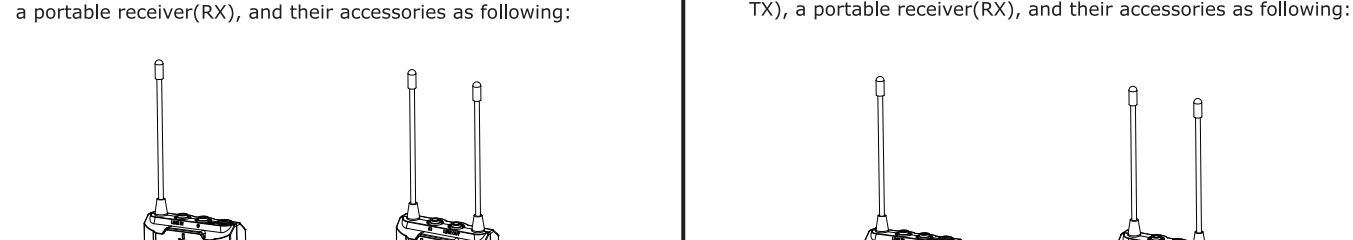
The new WMX-20 system is an upgraded UHF dual-channel wireless microphone system for capturing audio with dual subjects, featuring an easy-to-read LCD display, a wide switching RF bandwidth, PLL-synthesized tuning and digital companding circuitry.

The package is suitable for a wide range of wireless applications such as interviews, electronic news gathering (ENG), electronic field productions (EPF), film production, business and educational applications, and more.

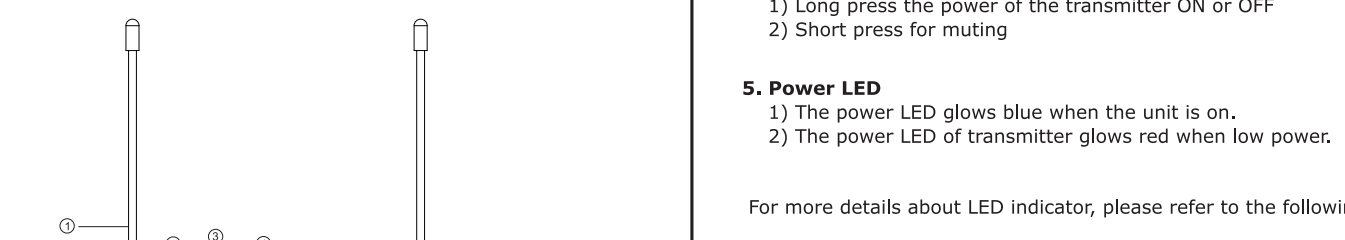
Features:

- Dual-Channel Wireless Receiver
- 4H UHF Channels
- Selectable Stereo and Mono Mode
- Mic and Line-in
- Selectable Mute Function
- Easy-to-read LCD display
- Automatic LCD-locked Function
- Monitoring sound by headphone output (Receiver)
- Two AA batteries for both transmitter and receiver


The **WMX-20** consists of one body-pack transmitter(TX), a portable receiver(RX), and their accessories as following:



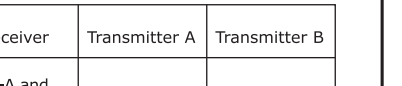
The **WMX-20 (1+2)** consists of two body-pack transmitters(TX), a portable receiver(RX), and their accessories as following:



Transmitter A



Transmitter B



4. Power/Mute button

Press to change the power of the transmitter ON or OFF

2. Short press for muting

5. Power LED

1) The power LED glows blue when the unit is on.

2) The power LED of transmitter glows red when low power.

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

Situation	Receiver	Transmitter A	Transmitter B
The transmitter and the receiver connects.	ANT-A and ANT-B stay blue.	Stays blue	Stays blue
The transmitter A and the receiver connects.	ANT-A stays blue; ANT-B light off.	Stays blue	/
The transmitter A and the receiver disconnects.	ANT-A light off; ANT-B stays blue.	/	Stays blue
The transmitter B and the receiver connects.	ANT-A and ANT-B light off.	Stays blue	Stays blue

2. Antenna

3. Microphone input

Connect the supplied lavalier microphone here. Fully insert the supplied 3.5mm plug and make sure it clicks into place, then lock the plug.

To remove/release the locking mechanism, then pull the plug out.

6. CH (Channel) indication

Shows the transmission channel.

IMPORTANT: Both transmitters can be used for Transmitter A on Transmitter B.

How to exchange Transmitter A and Transmitter B, please refer to Page 15.

7. Battery indication

Shows the battery condition

NOTE

1. When the battery power icon is empty and blinking, the batteries are almost out of power, and you will need to change the batteries immediately.

2. The indicated battery condition may not be correct if the batteries were not new when installed. If you plan to use the component for a long period, it is recommended that you replace the batteries with brand new ones.

B + (+ section) / (- section) buttons

Use these buttons to set the transmission channel, or attenuate level of the input signal.

For details, please see "How to set up channel, VOL, STEREO and MONO" on page 24.

9. SET button

Press to change and enter display parameters.

6. Power LED (POWER)

1) The power LED of receiver glows red when low power.

10. Belt clip

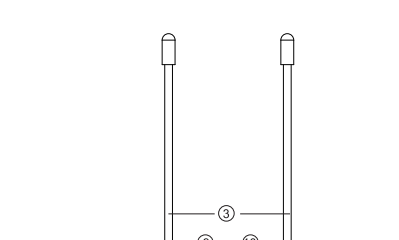
11. 1/4" Thread

8. Battery compartment

Accommodates two AA batteries.

For more details, please see "Installing batteries" on page 16.

Receiver



1. POWER OFF/ON

2. Battery compartment

3. Antenna

4. Power LED (ANT-A)

5. Power LED (ANT-B)

1) The power LED glows blue when the unit is on.

2) The power LED of receiver glows red when low power.

7. CH (Channel) indication

Shows the transmission channel.

8. Battery indication

Shows the battery condition

9. Monitor / Earphone Connector

(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 at the headphone output, resulting in distorted sound output.

10. LINE OUT (audio output) connector

(3.5mm diameter stereo mini jack)

Connect one end of the supplied stereo 3.5mm mini plug-BMP conversion or XLR-BMP conversion output cable here, and the other end to the microphone input on a DSR camera, camcorder, mixer, or amplifier etc.

12. SET button

Press these buttons to set the transmission channel, attenuation level of the input signal, or "STEREO" and "MONO".

13. Shoe mount adapter

For more details, please see "Attaching the shoe mount adapter" on page 22.

① Channel A
② Channel number (1-48)
③ Battery indication

④ VOL-A-01

⑤ The volume of Channel A (1-31)

⑥ CH-A-ON

⑦ Press the +/- (selection) button to OFF

For a secure connection, be sure to turn and lock the connector cover.

To attach the belt clip

Before attaching the shoe mount adapter, attach the belt clip. Reorienting the belt clip: The WMX-20's belt clip can easily be removed and reattached to the body pack, so you can mount it upside down. To reorient the belt clip, please follow these steps:

1. Push outward on the belt clip at one of the hinges, so one side of the clip pops out.
2. Push the belt clip out from the other hinge to completely remove the clip from the body pack.
3. Realign the belt clip with the body pack, making sure the clip is facing the desired direction.
4. Insert the two-way belt clip into the body pack, one hinge at a time.

Connecting the Transmitters and the Receiver

To connect the transmitters and the receiver, follow these steps:

1. Make sure the supplied wireless microphones are connected to the transmitters' microphones input or plug a line-level source into the transmitters' line input.

NOTE:

1. If you are connecting the receiver to a sound system, mute the sound system. Do not monitor with the headphones at the stage. Anyone who is changing the channel, remove your headphones and mute connected sound systems to avoid audible RF noise bursts.
2. Turn on the transmitters and the receiver.
3. Set the transmitters and the receiver to the same channel. If you are experiencing interference or noise on one channel, try a different channel.

To attach a microphone or an XLR cable

Push the microphone or cable connector into the XLR audio input jack of the WMX-20 TXLR. Then turn the knurled ring anticlockwise, gently tightening it so the microphone or XLR cable base is seated firmly in place.

To detach a microphone or an XLR cable

Turn the knurled ring clockwise, and pull off the microphone or cable slowly.

NOTE: Please turn off the transmitter before attaching or removing the microphone.

Connecting the Plug-In Transmitter and the Receiver

To connect the Plug-In Transmitter and the receiver, follow these steps:

1. Turn on the transmitter and the receiver, then set the same channel.
2. Set the plug-in transmitter and the receiver to the same channel.
3. If you are experiencing interference or noise on one channel, try a different channel.

LCD Display Operation Guide Receiver

① Channel A
② Channel number (1-48)
③ Battery indication

④ VOL-A-01

⑤ The volume of Channel A (1-31)

⑥ CH-A-ON

⑦ Press the +/- (selection) button to OFF

To attach the shoe mount adapter

Connecting the Transmitters and the Receiver

To connect the transmitters and the receiver, follow these steps:

1. Make sure the supplied wireless microphones are connected to the transmitters' microphones input or plug a line-level source into the transmitters' line input.

NOTE:

1. If you are connecting the receiver to a sound system, mute the sound system. Do not monitor with the headphones at the stage. Anyone who is changing the channel, remove your headphones and mute connected sound systems to avoid audible RF noise bursts.
2. Turn on the transmitters and the receiver.
3. Set the transmitters and the receiver to the same channel. If you are experiencing interference or noise on one channel, try a different channel.

WMX-20 TH Wireless Handheld Microphone

Product Structure

4. PAIR

A. How to change Channel

- 1) Short press "PAIR" button, the channel number blinks
- 2) Press "PAIR" button again to change channel.
- 3) Wait 3 seconds the channel number doesn't blink.
- 4) Long press "PAIR" button to change Channel "X" or "B".

6. Battery cover

LCD Display Operation Guide

① Channel A (A/B)
② Channel number (1-48)
③ Battery indication

④ VOL-A-01

⑤ The volume of Channel A (1-31)

⑥ CH-A-ON

⑦ Press the +/- (selection) button to OFF

How to set "MONO" and "STEREO"

1. Press "SET" button, the display screen shows "MONO".
2. Press the "+" or "-" (+/- selection) button, choose "MONO" and "STEREO".

Important: The mode that the factory set is "MONO". The settings are stored in memory, and the change becomes effective when you turn on the transmitters next time.

	Transmitter A		Transmitter B	
Mode	Left Channel	Right Channel	Left Channel	Right Channel
MONO	✓	✓	✓	✓
STEREO	✓	✓	✓	✓

* <Available>

① Press + & - to unlock

② LCD will be locked automatically in 30 seconds
Long press the "+" and "-" buttons to unlock.

Set up Volume

1. Set up Channel A
- Press "SET" button of Receiver, the display screen shows "VOL-A".
- Press the "+" (+ selection) button to increase the volume.
- Press the "-" (- selection) button to decrease the volume.
- Long press +/- buttons, the volume will increase and decrease automatically.
2. Set up Channel B
- Press "SET" button of Receiver, the display screen shows "VOL-B".
- Press the "+" (+ selection) button to increase the volume.
- Press the "-" (- selection) button to decrease the volume.
- Long press +/- buttons, the volume will increase and decrease automatically.

Turn Channel A or B ON or OFF

1. Set up Channel A
- Press "SET" button of Receiver, the display screen shows "CH-A-ON".
- Press +/- buttons to ON or OFF.
2. Set up Channel B
- Press "SET" button of Receiver, the display screen shows "CH-B-ON".
- Press +/- buttons to ON or OFF.

Important Notes

Usage and storage

The WMX-20 components may cause electrical equipment (motors, transformers, or dimmers) may be affected by electromagnetic induction.

Keep the WMX-20 components as far as from such equipment as possible.

The presence of the lightning equipment may produce electrical interference over the entire frequency range. Position the WMX-20 components so that interference is minimized.

To avoid degradation of the signal-to-noise ratio, DO NOT use the WMX-20 components in noisy places or in locations subject to vibration, such as the following:

- Near electrical equipment, such as motors, transformers, or dimmers.
- Near air conditioning equipment or places subject to direct air flow from an air conditioner.
- Near loudspeakers.
- Where adjacent equipment might knock against the receiver.

Cleaning

Clean the surface and the connectors of the WMX-20 components with a dry, soft cloth. Never use thinner, benzene, alcohol or any other chemicals, since these may mar the finish.

Transmitter

① Mute On
② Channel A
③ Channel B

How to change transmitters A and B

Both transmitters can be used with A or B.

1. How to change transmitter A to transmitter B
- Set display screen shows "CH-A-1".
- Long press "SET" button until display shows "CH-B-1".
2. How to change transmitter B to transmitter A, just redo the 1) and 2) steps as above.

NOTE: You can set it to any channel (1-48). For example, if display shows "CH-A-1", after long pressing "SET" button, it will show "CH-A-1".

Important: You can set it to any channel (1-48). For example, if display shows "CH-A-1", after long pressing "SET" button, it will show "CH-A-1".

WMX-20 TXLR Plug-In Transmitter

Set up "MONO" and "STEREO"

For how to set up "MONO" and "STEREO", please refer to page 14.

Set up Volume

1. Set up Channel A
- Press "SET" button of Receiver, the display screen shows "VOL-A".
- Press the "+" (+ selection) button to increase the volume.
- Press the "-" (- selection) button to decrease the volume.
- Long press +/- buttons, the volume will increase and decrease automatically.
2. Set up Channel B
- Press "SET" button of Receiver, the display screen shows "VOL-B".
- Press the "+" (+ selection) button to increase the volume.
- Press the "-" (- selection) button to decrease the volume.
- Long press +/- buttons, the volume will increase and decrease automatically.

Turn Channel A or B ON or OFF

1. Set up Channel A
- Press "SET" button of Receiver, the display screen shows "CH-A-ON".
- Press +/- buttons to ON or OFF.
2. Set up Channel B
- Press "SET" button of Receiver, the display screen shows "CH-B-ON".
- Press +/- buttons to ON or OFF.

Important Notes

Usage and storage

The WMX-20 components may cause electrical equipment (motors, transformers, or dimmers) may be affected by electromagnetic induction.

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- Near loudspeakers.
- Where adjacent equipment might knock against the receiver.

Cleaning

Clean the surface and the connectors of the WMX-20 components with a dry, soft cloth. Never use thinner, benzene, alcohol or any other chemicals, since these may mar the finish.

Installing Batteries

The transmitters and the receiver are each powered by two AA batteries. To install batteries, please follow these steps:

1. Turn off the units, Slide the battery-compartment covers inward (in the direction of the arrows "→").
2. Take out the battery holder.
3. Insert the batteries into the battery compartment by matching their polarities to the indelible inside the compartment. Then, set the battery holder in the original position.

How to change transmitters A and B

Both transmitters can be used with A or B.

1. How to change transmitter A to transmitter B
- Set display screen shows "CH-A-1".
- Long press "SET" button until display shows "CH-B-1".
2. How to change transmitter B to transmitter A, just redo the 1) and 2) steps as above.

NOTE: You can set it to any channel (1-48). For example, if display shows "CH-A-1", after long pressing "SET" button, it will show "CH-A-1".

Important: You can set it to any channel (1-48). For example, if display shows "CH-A-1", after long pressing "SET" button, it will show "CH-A-1".

[illegible]

技术要求:

- 1、表面无色差
- 2、无正负公差
- 3、包装标注尺寸为内尺寸