Foreword

Thanks for purchasing COMICA WM200 UHF wireless microphone;

WM200 is an all-metal wireless microphone with dual-transmitter triggered by one receiver, with two AA batteries, it utilizes UHF wireless FM technology and LED high-resolution lattice screen, 96 channels in total, 16-level adjustable volume, and integrated into LCF (Low cut filter), Auto-scanning, Auto IR Channel-match, stereo / mono switchable audio mode, RF signal strength adjustment, MIC/LINE IN input dual selection, power monitoring at receiver end, sound pickup dynamic display, backlight adjustment and other functions, at the same time with strong shielding anti-noise performance, it’s a high-quality microphone to broadcasting level;

To ensure the smooth use and safety of the product, please carefully read this instruction before using and properly assemble and operate.

Main Features

- Dual Transmitters Triggered by One Receiver, A/B Double Group Options;
- 96 Channels, Used for Multiple Devices Working Together;
- Working Distance is Up to 120m (in open area, up to 80m in Barrier Area);
- LCF Low Cut Filtering Mode;
- Auto-scanning for Quick Channel Selection;
- Manual or Auto IR Sync;
- Adjustable RF Signal Strength;
- Audio Dynamic Display Bar;
- 16 Levels Volume Adjustment;
- Transmitter Power Monitor;
- Mono/Stereo Switchable Output Modes;
- Low-consumption, Super-long Standby Time;
- Lattice LCD Display, High Resolution;
- Full Metal Manufacturing, Excellent Shielding;
Notice

⚠️ When using auto IR sync, please stay within one meter, otherwise the signal may be too weak and the sync will not be successful;

⚠️ In the case of stereo/mono mode switch, please preset the mode before using to avoid the transient interference caused by switching during usage;

⚠️ The antenna will affect the working distance. Please protect the antenna and avoid any man-made damage;

⚠️ The working distance will be affected by the surrounding environment. Please try to keep the environment open without interference during usage, and close the WIFI of the device itself;

⚠️ When using this product in a short distance, it is recommended to set RF strength at ‘LOW’ to reduce the power consumption;

⚠️ For smart phone shooting, customers must separately purchase a TRS-TRRS audio converting cable, and pay attention to set the mobile phone mode to 'Flight Mode' to avoid incoming call interference;

(It does not support the original recording system of some android systems, the third-party APP is recommended to be used in this case);

⚠️ Please keep this product in dry environment;

⚠️ Do not expose the device in rain or humid environment, otherwise there will be a danger of short circuit;

Package Contents

Main Parts:

Lavalier Transmitter (TX)  Hand-held Transmitter (HTX)  Receiver (RX)
Multiple Selections:

WM200(A) = 2TX + RX

WM200(B) = TX + HTX + RX

WM200(C) = TX + RX

WM200(D) = HTX + RX
Accessories:

① 3.5mm Mic Audio Input Cable
② 3.5mm-3.5mm Audio Output Cable
③ 3.5mm-XLR Audio Output Cable
④ Belt Clip
⑤ Camera Cold-shoe Mount
⑥ Wind Muff
⑦ Portable Box
⑧ User Manual
⑨ Warranty Card

The accessories of each combination include:

WM200 (A) = ① x2 + ② + ③ + ④ x3 + ⑤ x3 + ⑥ x2 + ⑦ + ⑧ + ⑨
WM200 (B) = ① + ② + ③ + ④ x2 + ⑤ x2 + ⑥ + ⑦ + ⑧ + ⑨
WM200 (C) = ① + ② + ③ + ④ x2 + ⑤ x2 + ⑥ + ⑦ + ⑧ + ⑨
WM200 (D) = ② + ③ + ④ + ⑤ + ⑥ + ⑦ + ⑧ + ⑨
Components and Instruction

Components

Lavalier Transmitter (TX)

1. Antenna
2. Matching Status Indicator Light / IR Screen
3. Sound Status Indicator Light
4. On-off / Muting Button
5. LCD Screen
6. Function Selection Button -
7. SET Function Menu
8. Function Selection Button +
9. MIC / LINE IN External Input
10. A/B Group Selection Switch
11. Battery Tray
12. 1/4 Cold-shoe Mounting Hole
13. Belt Clip Connecting Hole
Hand-held Transmitter (HTX)

1. Microphone
2. LCD Display
3. On-off / Muting Button
4. IR Screen
5. Low cut/Normal Audio Switch
6. Signal Strength “High/Low” Switch
Receiver (RX)

1. Group A Antenna
2. Group B Working Status Indicator Light
3. Group A Working Status Indicator Light
4. On/Off Switch
5. LCD Screen
6. Function Selection Button -
7. SET Function Menu
8. Function Selection Button +
9. 3.5mm Audio Output Socket
10. 3.5mm Monitoring Socket
11. Group B Antenna
12. A· B or A+B Group Selection Switch
13. Battery Tray
14. 1/4 Cold-shoe Mounting Hole
15. Belt Clip Connecting Hole
## Function Button Instruction

<table>
<thead>
<tr>
<th>Lavalier Transmitter / Receiver</th>
<th></th>
<th></th>
<th>Long Press</th>
<th>Power On / Off</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>On-off / Muting Button</strong></td>
<td></td>
<td></td>
<td><strong>Long Press</strong></td>
<td><strong>Muting Mode (This function is only for transmitter, when the mute function is turned on and the screen is lighted up)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Short Press</strong></td>
<td><strong>Muting Mode</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>“Low cut/ Normal” Sound Switch</strong></td>
<td><strong>Power On / Off</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Short Press</strong></td>
<td><strong>Muting Mode (Only goes into effect when the screen lights up)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>SET Function Menu</strong></td>
<td><strong>Enter the function adjustment menu</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Long Press</strong></td>
<td><strong>1. Confirm the selected function</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Short Press</strong></td>
<td><strong>2. Exit the function adjustment menu</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>+ Button</strong></td>
<td><strong>Function Adjustment (+)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Short Press</strong></td>
<td><strong>Function Adjustment (-)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>- Button</strong></td>
<td><strong>Function Adjustment (-)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Short Press</strong></td>
<td><strong>Function Adjustment (-)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Push-up Signal strength--high</strong></td>
<td><strong>Push-up</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Push-down Signal strength--low</strong></td>
<td><strong>Push-down</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Signal Strength “High/Low” Switch</strong></td>
<td><strong>Push-up</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Signal strength--high</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Push-down</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Signal strength--low</strong></td>
</tr>
</tbody>
</table>

**Signal strength high / low switching effect:**
With high signal strength, the wireless working distance is up to 80-120M, high power consumption, battery life is short; With low signal strength, the wireless working distance is up to 30-60M, low power consumption, the battery can be used for a long time.
**Low cut function:**
 Appropriately remove the low frequency part of the sound, reduce the ambient noise of the low frequency part, to make sound more clean and clear.

## Indicator Light Instruction

<table>
<thead>
<tr>
<th>Transmitter</th>
<th>AUDIO</th>
<th>Receiver</th>
<th>A IR/RF</th>
<th>B IR/RF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Green Light Keeps On</td>
<td>Red Light Keeps On</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Green Light Flicker</td>
<td>Red Light Flicker</td>
</tr>
<tr>
<td></td>
<td>IR</td>
<td></td>
<td>Green Light Keeps On</td>
<td>Red Light Flicker</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Green Light Keeps On</td>
<td>Red Light Flicker</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Red light keeps on</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- A IR/RF: Group A Working Status Indicator
- B IR/RF: Group B Working Status Indicator
Installation and Usage

Lavalier Transmitter

1. Install two AA batteries into the battery tray according to the positive and negative electrode.
2. Insert the 3.5mm audio input line into MIC socket

3. Long press the power button to turn on the transmitter
4. Target the MIC to the audio source and check the working status according to the volume indicator on the screen.

5. Connect the belt clip to the connection hole.

6. After the channel matching with the receiver, it can be used.

👉 Please refer to screen operation instruction for channel matching.
Hand-held Transmitter

1. Install two AA batteries into the battery tray according to the positive and negative electrode.

2. Long press the button switch to turn on the hand-held transmitter.

3. After the channel matching with the receiver, it can be used.

👉 Please refer to screen operation instruction for channel matching.
Receiver

1. Install two AA batteries into the battery tray according to the positive and negative electrode.
2. Connect the receiver to the video device through the cold shoe.

3. Connect one end of the 3.5mm-3.5mm audio OUTPUT line to the OUTPUT port of WM200RX and another end to the AUDIO INPUT port of the camera or camcorder. Insert the headphone into the 3.5mm monitoring port for real-time monitoring and then long press power button to turn on the receiver.

👉 Most DSLR cameras have a 3.5mm port, if you use the XLR camcorder, you need to use the 3.5mm-XLR audio output line.
4. After the channel matching with the receiver, it can be used

👉 Please refer to screen operation instruction for channel matching.
Lavalier Transmitter

Screen Display Instruction

Signal Strength High
Signal Strength Low
Group A
Group B
Normal recording
Muting (Unlocking)
Muting (Locking)

Group A/B
Channel
Audio dynamic display bar
Channel Frequency
Power Indication

Operation Instruction

1. Group A/B Selection

1.1 Use A/B Group selection switch to select the group, when push up to A, it will be Group A; when push to B, it will be Group B. You could choose Group A or Group B according to your demand.
2. Manually Adjust the Channel of Transmitter

2.1 Long press \textbf{SET} button to CH setting display page

2.2 Short press \textbf{◄} \textbf{►} button to select the channel

2.3 Short press \textbf{SET} button to confirm
3. Muting Mode On/ Off

3.1 Press \( \text{\button} \) button to “Muting” display page

```
  Y L  B  M  B
Muting Enable
CH11  553.300MHz
```

3.2 Long press \( \text{\button} \) button to “Muting” display page

```
  Y L  B  M  B
Muting Enable
CH11  553.300MHz
```

3.3 Press \( \text{\button} \) button to select Muting mode on/off

```
  Y L  B  M  B
Muting Disable
CH11  553.300MHz
```

3.4 Short press \( \text{\button} \) button to confirm

```
  Y L  B  M  B
Muting Disable
CH11  553.300MHz
```
4. Volume Adjustment at Transmitter End

4.1 Press button to “Volume Setting” display page

4.2 Long press button to “Volume Setting” display page

When set to “Disable”, the muting function cannot be used, the icon is: 🔊🔒

When set to “Enable”, the muting function works, the icon is: 🔊✔

The muting mode can be controlled only when the screen is on, press any button to light the screen and then press the button to switch the muting mode.
4.3 Press \[\uparrow\downarrow\] button to adjust the volume, 16 levels in total

Volume Setting
Volume 15
CH11 553.300MHz

4.4 Short press \[\text{set}\] button to confirm

Volume Setting
Volume 15
CH11 553.300MHz

5. Transmitting signal strength “High/Low” Adjustment

5.1 Press \[\uparrow\downarrow\] button to “RF Power Setting” display page

RF Power Setting
Low
CH11 553.300MHz

5.2 Long press \[\text{set}\] button to “RF Power Setting” display page

RF Power Setting
LOW
CH11 553.300MHz
5.3 Press button to adjust the transmitting signal strength

```
RF Power Setting
High
CH11 553.300MHz
```

5.4 Short press button to confirm

```
RF Power Setting
High
CH11 553.300MHz
```

6. Backlight “lighting time/turn off” Adjustment

6.1 Press button to “Backlight Mode” display page

```
Blacklight Mode
Delay 60s
CH11 553.300MHz
```

6.2 Long press button to “Backlight Mode” display page

```
Blacklight Mode
Delay 60s
CH11 553.300MHz
```
6.3 Press \[ \text{button to adjust the backlight lighting time or you can turn it off for power saving} \]

```
YL  B  M  L
Blacklight Mode
OFF
CH11 553.300MHz
```

6.4 Short press \[ \text{button to confirm} \]

```
YL  B  M  L
Blacklight Mode
OFF
CH11 553.300MHz
```
7. MIC/LINE IN Input Mode Adjustment

7.1 Press ▼ ▶ button to “ Input Setting ” display page

![Input Setting with Mic mode selected]

7.2 Long press SET button to “ Input Setting ” display page

![Input Setting with Mic mode selected]

7.3 Press ▼ ▶ button to select “ Mic/ Line in ” input mode

![Input Setting with Line in mode selected]

7.4 Short press SET button to confirm

👉 Mic mode is for Microphone input;

👉 Line in mode is for external audio input, such as smart phone music player.

Selecting the corresponding input mode will bring you a better audio effect.
8. Low cut “On/Off” Adjustment

8.1 Press button to “ Mic LCF ” display page

8.2 Long press button to “ Mic LCF ” display page

8.3 Press button to select LCF On/ Off

8.4 Short press button to confirm

The LCF function will remove the low-frequency part of the audio source, such as the sound of wild insects and the noise of the crowd, and the main audio source will be thinner. When the LCF function is turned off, the original sound will be restored, and the main sound source will be thicker. You can adjust according to actual needs.
9. Reset to Defaults

9.1 Press button to “Reset” display page

9.2 Long press button for resetting

9.3 Resetting is finished

10. Version

10.1 Press button to “Version” display page to check the version
Hand-held Transmitter

Screen Display Instruction

Operation Instruction
1. Turn on and Muting Mode Switch
   1.1 Long press switch button for 2 seconds to turn on or off
   1.2 When it’s turned on, short press the button to select muting mode

The muting mode can be controlled only when the screen is on, press any button to light the screen and then press the button to switch the muting mode.
2. Set the channel through infrared sync

2.1 Set the channel through infrared sync

The hand-held transmitter defaults to channel B, and you can set the group and channel through the receiver (For example, If Group A of the receiver is used for the matching, after matching, it will be: Group A CHXX; If Group B of the receiver is used for the matching, after matching, it will be: Group B CHXX)

When the hand-held transmitter and the lavalier transmitter are used together, you should set them to different channels.

During matching, don't shield the infrared receiving screen of the transmitter against the receiver.
2.2 Thumbwheel switch

Low cut adjustment switch

RF-Low/ High
When Group A/B is on, the background color of the channel display icon is black; when Group A/B is off, the channel display icon is transparent and no background color.
Operation Instruction

1. A, B or A+B Group Selection Switch
   1.1 Select the group using A, B and A/B group selection switch

- **Switch to A**
  - Group A turned on,
  - Group B turned off

- **Switch to B**
  - Group B turned on,
  - Group A turned off

- **Switch to A/B**
  - Group A turned on,
  - Group B turned on
2. Manually Adjust the Channel of Group A/Group B

2.1 Long press \textbf{set} button to “CH” display page, long press again for Group A/Group B switch

```
Group A
CH 41
A ⌘----- B ⌘-----

Group B
CH 11
```

2.2 Short press \includegraphics[width=0.5\textwidth]{select-group-button.png} button to select the group

```
Group A
CH 45
A ⌘----- B ⌘-----

Group B
CH 11
```

2.3 Short press \includegraphics[width=0.5\textwidth]{confirm-button.png} button to confirm

```
Group A
CH 45
A ⌘----- B ⌘-----

Group B
CH 11
```
3. Audio output mode “stereo/mono” adjustment

3.1 Press \(\leftarrow\rightarrow\) button to “Output Mode” display page

3.2 Long press \(\text{SET}\) button to “Output Mode” display page

3.3 Press \(\leftarrow\rightarrow\) button to select Mono/ Stereo Output Mode

3.4 Short press \(\text{SET}\) button to confirm
4. Group A/B function setting

4.1 Press \(\text{\textless} \text{\textgreater}\) button to “Setting” display page

4.2 Long press SET button to “Setting” display page

4.3 Press \(\text{\textless} \text{\textgreater}\) button to select Group A/B to edit

4.4 Short press SET button to confirm
5. Group A/B Volume Adjustment

5.1 Short Press 🅿️ 🅱️ button to “Group B Setting Volume” display page

5.2 Long press 🏷️ button to “Setting” display page

5.3 Short Press 🅿️ 🅱️ button to adjust the volume

5.4 Short press 🏷️ button to confirm
6. Group A/B Automatic Channel Scan

6.1 Short Press \( \square \) \( \triangleright \) button to “Group B Setting Auto scan CH” display page

6.2 Long press \( \text{SET} \) button for Auto scanning

6.3 After scanning, the best available channel will be shown on the screen and prompted for use

6.4 Short press \( \text{SET} \) button to confirm
7. Group A/B IR Sync

7.1 Short Press ◀▶ button to “Group B Setting Sync with TX” display page

7.2 Long press SET button for IR Matching

7.3 Matched
8. Backlight “lighting time/turn off” Adjustment

8.1 Short Press ( ▼ ▶ ) button to “Backlight Mode” display page

8.2 Long press (.SET) button to “Backlight Mode” display page

8.3 Short press ( ▼ ▶ ) button to adjust the backlight lighting time or you can turn it off for power saving

8.4 Short press ( SET ) button to confirm
9. Reset to Defaults

9.1 Press button to “Reset” display page

9.2 Long press button for resetting

9.3 Resetting is finished

10. Version

10.1 Press button to “Version” display page to check the version
## Lavalier Transmitter TX

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channels</td>
<td>96</td>
</tr>
<tr>
<td>Group A Wireless Frequency</td>
<td>520.000MHz ~ 548.500MHz</td>
</tr>
<tr>
<td>Group B Wireless Frequency</td>
<td>550.000MHz ~ 578.500MHz</td>
</tr>
<tr>
<td>Signal / Noise</td>
<td>&gt;65dB</td>
</tr>
<tr>
<td>Antenna</td>
<td>1/4 Wavelength Wire Antenna</td>
</tr>
<tr>
<td>Transmitting Power</td>
<td>10dbm/15dbm</td>
</tr>
<tr>
<td>Stray Radiation</td>
<td>&lt;-60dBc</td>
</tr>
<tr>
<td>Sound Delay</td>
<td>&lt;20ms</td>
</tr>
<tr>
<td>Audio Distortion</td>
<td>&lt;0.5%</td>
</tr>
<tr>
<td>Battery</td>
<td>AA Batteries x 2pcs</td>
</tr>
<tr>
<td>Dimension</td>
<td>84 x 63.5 x 23mm</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 50°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C</td>
</tr>
</tbody>
</table>
## Hand-held Transmitter HTX

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Channels</strong></td>
<td>96</td>
</tr>
<tr>
<td><strong>Group A Wireless Frequency</strong></td>
<td>520.000MHz ~ 548.500MHz</td>
</tr>
<tr>
<td><strong>Group B Wireless Frequency</strong></td>
<td>550.000MHz ~ 578.500MHz</td>
</tr>
<tr>
<td><strong>Signal / Noise</strong></td>
<td>&gt;65dB</td>
</tr>
<tr>
<td><strong>Antenna</strong></td>
<td>PCB Antenna</td>
</tr>
<tr>
<td><strong>Transmitting Power</strong></td>
<td>10dbm/15dbm</td>
</tr>
<tr>
<td><strong>Stray Radiation</strong></td>
<td>&lt;-60dB</td>
</tr>
<tr>
<td><strong>Sound Delay</strong></td>
<td>&lt;20ms</td>
</tr>
<tr>
<td><strong>Audio Distortion</strong></td>
<td>&lt;0.5%</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>AA Batteries x 2pcs</td>
</tr>
<tr>
<td><strong>Dimension</strong></td>
<td>Φ53.5(MAX) x 253mm</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>0°C ~ 50°C</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-20°C ~ 60°C</td>
</tr>
</tbody>
</table>
## Receiver RX

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channels</td>
<td>96</td>
</tr>
<tr>
<td>Group A Wireless Frequency</td>
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<td>Group B Wireless Frequency</td>
<td>550.000MHz ~ 578.500MHz</td>
</tr>
<tr>
<td>Signal / Noise</td>
<td>&gt;65dB</td>
</tr>
<tr>
<td>Antenna</td>
<td>1/4 Wavelength Wire Antenna</td>
</tr>
<tr>
<td>Receiving Power</td>
<td>-95dBm</td>
</tr>
<tr>
<td>Stray Radiation</td>
<td>&lt;-60dBc</td>
</tr>
<tr>
<td>Sound Delay</td>
<td>&lt;20ms</td>
</tr>
<tr>
<td>Audio Distortion</td>
<td>&lt;0.5%</td>
</tr>
<tr>
<td>Battery</td>
<td>AA Batteries x 2pcs</td>
</tr>
<tr>
<td>Dimension</td>
<td>84 x 63.5 x 23mm</td>
</tr>
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<td>Operating Temperature</td>
<td>0°C ~ 50°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C</td>
</tr>
</tbody>
</table>