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 LCD high-resolution lattice screen, 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;
. Used for Multiple Devices Working Together;
. Working Distance is Up to 120m (120m in Open Area, 80m in Barrier Area);
. LCF Low Cut Filtering Mode;
. Auto-scanning for Quick Channel Selection;
. Manual or Auto IR Sync;
. Optional Language;
. 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

⚠️ Transmitter should be more than 20cm from Receiver, when the distance is less than 20cm, Receiver's wireless signal receiving part will take protect action to shut down the receiving of wireless signal, then audio may be intermittent, which is normal;
⚠️ 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 smartphone 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. Hot-shoe Mount
6. Wind Muff
7. Portable Box
9. Warranty Card

The accessories of each combination include:

WM200 (A) =  1 x 2 + 2 + 3 + 4 x 3 + 5 + 6 x 2 + 7 + 8 + 9

WM200 (B) =  1 + 2 + 3 + 4 x 2 + 5 + 6 + 7 + 8 + 9

WM200 (C) =  1 + 2 + 3 + 4 x 2 + 5 + 6 + 7 + 8 + 9

WM200 (D) =  2 + 3 + 4 + 5 + 7 + 8 + 9
Components

Lavalier Transmitter (TX)

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

1. Microphone  
2. LCD Display  
3. Power / 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. Power 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. Group Selection Switch
13. Battery Tray
14. Belt Clip
## Function Button Instruction

### Lavalier Transmitter / Receiver

<table>
<thead>
<tr>
<th>Button</th>
<th>Long Press</th>
<th>Short Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power / Muting Button</td>
<td>Power On / Off</td>
<td>Muting Mode (This function is only for transmitter, when the mute function is turned on and the screen is lighted up)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SET Function Menu</th>
<th>Long Press</th>
<th>Short Press</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Enter the function adjustment menu</td>
<td>1.Confirm the selected function 2.Exit the function adjustment menu</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>+ Button</th>
<th>Short Press</th>
<th>Function Adjustment (+)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>- Button</th>
<th>Short Press</th>
<th>Function Adjustment (-)</th>
</tr>
</thead>
</table>

### Hand-held Transmitter

<table>
<thead>
<tr>
<th>Button</th>
<th>Long Press</th>
<th>Short Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power / Muting Button</td>
<td>Power On / Off</td>
<td>Muting Mode (Only goes into effect when the screen lights up)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>“Low cut/ Normal” Sound Switch</th>
<th>Push-up</th>
<th>Low cut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push-down</td>
<td>Normal</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal Strength “High/Low” Switch</th>
<th>Push-up</th>
<th>Signal strength--high</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push-down</td>
<td>Signal strength--low</td>
<td></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.

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**Indicator Light Instruction**

<table>
<thead>
<tr>
<th>Transmitter</th>
<th>AUDIO</th>
<th>Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transmitter</strong></td>
<td><strong>GROUP A</strong></td>
<td><strong>GROUP B</strong></td>
</tr>
<tr>
<td><strong>Group A Working Status Indicator</strong></td>
<td>Green Light Keeps On</td>
<td>Normal Recording Status (This state is only for the transmitter, when the channel matches successfully, the receiver can pick up the sound)</td>
</tr>
<tr>
<td></td>
<td>Red Light Keeps On</td>
<td>Muting Mode</td>
</tr>
<tr>
<td></td>
<td>Red Light Flicker</td>
<td>Low-power reminder</td>
</tr>
<tr>
<td><strong>Group B Working Status Indicator</strong></td>
<td>Green Light Keeps On</td>
<td>Channel matches (No matter the channel matches or not)</td>
</tr>
<tr>
<td></td>
<td>Red Light Flicker</td>
<td>Channel in the match... (only for IR Sync)</td>
</tr>
<tr>
<td><strong>A IR/RF</strong></td>
<td><strong>B IR/RF</strong></td>
<td><strong>Red Light Flicker</strong></td>
</tr>
<tr>
<td><strong>Low cut function:</strong> 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.</td>
<td><strong>Green Light Keeps On</strong></td>
<td>Normal working status after the channel matches</td>
</tr>
<tr>
<td></td>
<td><strong>Green Light Flicker</strong></td>
<td>Channel doesn’t match</td>
</tr>
<tr>
<td></td>
<td><strong>Red light keeps on</strong></td>
<td>Channel in the match... (only for IR Sync)</td>
</tr>
<tr>
<td></td>
<td><strong>Red light Flicker</strong></td>
<td>Low-power reminder</td>
</tr>
</tbody>
</table>
| | **Group closed** | }
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 hot-shoe.

3. Connect one end of the 3.5mm-3.5mm audio OUTPUT cable 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 3.5MM port, if you use the XLR camcorder, you need to use the 3.5mm-XLR audio output cable.
4. After the channel matching with the receiver, it can be used

⚠️ Please refer to screen operation instruction for channel matching.
Screen Display and Operation Instruction

Lavalier Transmitter

Screen Display Instruction

Signal Strength High \( \Upsilon \) Group A \( A \) Normal recording \( \text{Microphone} \) Muting (Unlocking) \( \text{Unlocking} \)

Signal Strength Low \( \Upsilon \) Group B \( B \) Muting \( \text{Muting} \) Muting (Locking) \( \text{Locking} \)

Group A/B

Channel

Group A/B

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 \( \text{SET} \) button to CH setting display page

2.2 Short press \( \leftarrow \rightarrow \) button to select the channel

2.3 Short press \( \text{SET} \) button to confirm
3. MIC/LINE IN Input Mode Adjustment

3.1 Press ▶ ▶ button to ‘Input Setting’ display page

3.2 Long press SET button to ‘Input Setting’ display page

3.3 Press ▶ ▶ button to select ‘Mic/Line in’ input mode

3.4 Short press SET button to confirm

Mic mode is for Microphone input;
Line in mode is for external audio input, such as smartphone music player.
Selecting the corresponding input mode will bring you a better audio effect.
4. Low Cut Filter ‘Low/High/OFF’ Adjustment

4.1 Press button to ‘Low Cut Filter’ display page

4.2 Long press button to enter ‘Low Cut Filter’ display page

4.3 Press button to select LCF ‘Low/High/OFF’

4.4 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.
5. Transmitting Signal Strength ‘High/Low’ Adjustment

5.1 Press \( \leftarrow \rightarrow \) button to “RF Power Setting” display page

5.2 Long press \( \text{SET} \) button to enter ‘RF Power Setting’ display page

5.3 Press \( \leftarrow \rightarrow \) button to adjust the transmitting signal strength

5.4 Short press \( \text{SET} \) button to confirm
6. Muting Mode On/ Off

6.1 Press \( \rightarrow \) button to ‘ Muting ’ display page

6.2 Long press \( \text{SET} \) button to enter ‘ Muting ’ display page

6.3 Press \( \rightarrow \) button to select Muting mode on/ off

6.4 Short press \( \text{SET} \) button to confirm
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 [SET] button to switch the muting mode.
7. Backlight ‘ Lighting Time/Turn Off ’ Adjustment

8.1 Short Press ◄ ► button to ‘Backlight Mode’ display page

7.2 Long press SET button to enter ‘Backlight Mode’ display page

7.3 Short press ◄ ► button to adjust the backlight lighting time or you can turn it off for power saving

7.4 Short press SET button to confirm
8. System Language

8.1 Short press \[\rightarrow\] button to ‘Language’ display page

8.2 Long press \[\text{SET}\] button to enter ‘Language’ display page

8.3 Short press \[\leftrightarrow\] button to select language

8.4 Short press \[\text{SET}\] button to confirm
9. Reset to Defaults

9.1 Press button to ‘Reset’ display page

9.2 Long press button to enter ‘Reset’ display page

9.3 Short press button to select whether to restore factory Settings

9.4 Short press button to confirm and restore factory setting
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 \( \textcolor{red}{\text{power}} \) switch button for 2 seconds to turn on or off
   1.2 When it’s turned on, short press the \( \textcolor{red}{\text{power}} \) 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 \( \textcolor{red}{\text{power}} \) 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 groups.

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

Low cut adjustment switch

RF-Low/ High
Receiver

Screen Display Instruction

Group A Signal Strength Display Bar  Group B Signal Strength Display Bar

Power Indication  Group B

Group A

Channel of Group A

Group A transmitting power  Group B Transmitting power

Group A Receiving Audio Status Indication  Group B Receiving Audio Status Indication

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 \(\text{SET}\) button to ‘CH’ display page, short press again for Group A/Group B switch

\[
\begin{array}{ccc}
\text{A} & \text{B} & \text{CH} \\
\text{Group A} & \text{Group B} & 41 \\
\text{CH 41} & \text{CH 11} \\
\text{A} & \text{B} & \text{CH 41} \\
\end{array}
\]

2.2 Short press \(\text{\textless} \text{\textgreater}\) button to select the group

\[
\begin{array}{ccc}
\text{A} & \text{B} & \text{CH} \\
\text{Group A} & \text{Group B} & 45 \\
\text{CH 45} & \text{CH 11} \\
\text{A} & \text{B} & \text{CH 45} \\
\end{array}
\]

2.3 Short press \(\text{SET}\) button to confirm

\[
\begin{array}{ccc}
\text{A} & \text{B} & \text{CH} \\
\text{Group A} & \text{Group B} & 45 \\
\text{CH 45} & \text{CH 11} \\
\text{A} & \text{B} & \text{CH 45} \\
\end{array}
\]
3. Audio Output Mode ‘Stereo/Mono’ Adjustment

3.1 Press \( < > \) button to ‘ Output Mode ’ display page

![Output Mode](image1)

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

![Output Mode](image2)

3.3 Press \( < > \) button to select ‘ Mono/ Stereo ’ Output Mode,
Short press \( \text{SET} \) button to confirm

![Output Mode](image3)

\(<\) When set to a separate A channel or B channel, the output is only MONO mode.
4. Group A/B Function Setting

4.1 Press button to ‘Setting’ display page

4.2 Long press button to ‘Setting’ display page

4.3 Press button to select Group A/B to edit

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

5.1 Short Press \( \Rightarrow \Rightarrow \) button to ‘Volume’ display page

5.2 Long press \( \text{SET} \) button to enter ‘Volume’ display page

5.3 Short Press \( \Rightarrow \Rightarrow \) button to adjust the volume

5.4 Short press \( \text{SET} \) button to confirm
6. Group A/B Automatic Channel Scan

6.1 Short Press \( \text{←} \rightarrow \) button to ‘Auto Scan’ display page

6.2 Long press \( \text{SET} \) button to enter ‘Auto Scan’ display page, and short press \( \text{←} \rightarrow \) button to select whether to auto scan

6.3 Short press \( \text{SET} \) button to ‘Scanning......’

6.4 Scanning complete and choose the best suitable channel
7. Group A/B IR Sync

7.1 Short Press button to Group A/B Setting display page

7.2 Long press button to enter Group A/B Setting display page

7.3 Short press button to select whether to sync

7.4 Short press button to confirm sync
8. Backlight ‘ Lighting Time/Turn Off ’ Adjustment

8.1 Short Press  
button to ‘ Backlight Mode ’ display page

8.2 Long press  
button to enter ‘ 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  
button to confirm
9. System Language

9.1 Short press ▼ ▶ button to ‘Language’ display page

9.2 Long press SET button to enter ‘Language’ display page

9.3 Short press ▼ ▶ button to select language

9.4 Short press SET button to confirm
10. Reset to Defaults

10.1 Press button to ‘Reset’ display page

10.2 Long press button to enter ‘Reset’ display page

10.3 Short press button to select whether to restore factory Settings

10.4 Short press button to confirm and restore factory setting
11. Version

11.1 Press \( \text{button to ' Version ' display page to check the version} \)
## Specification

### Lavalier Transmitter TX

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal / Noise</td>
<td>&gt;65dB</td>
</tr>
<tr>
<td>Antenna</td>
<td>1/4 Wavelength Wire Antenna</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>Signal / Noise</td>
<td>&gt;65dB</td>
</tr>
<tr>
<td>Antenna</td>
<td>PCB Antenna</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>Φ53.5(MAX) x 253mm</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>
## Receiver RX

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<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 Sensitivity</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>
<tr>
<td>Operating Temperature</td>
<td>0 °C ~ 50 °C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20 °C ~ 60 °C</td>
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</tbody>
</table>