

# **CVM-WM∃**□□ UHF 80-Channels Wireless Microphone



# USER MANUAL

#### Foreword

Thanks for purchasing COMICA WM300 UHF wireless microphone:

WM300 is an all-metal wireless microphone with dual-transmitter triggered by one receiver, with built-in polymer lithium battery, it utilizes UHF wireless FM technology and LED high-resolution lattice screen, 80 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;
- . 80 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;
- . Built-in Rechargeable Lithium Battery, Slim Body;
- . Low-consumption, Super-long Standby Time;
- . Lattice LCD Display, High Resolution;
- . Full Metal Manufacturing, Excellent Shielding;









Dual-Mic Trigger



80 Channels











Power Monitor Volume Adjustment

Super Shielding

Audio Switch



Monitor



Power Drived



Consumption



#### Notice

- Mhen 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:
- $^{igceq}$  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:

#### Accessories:

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



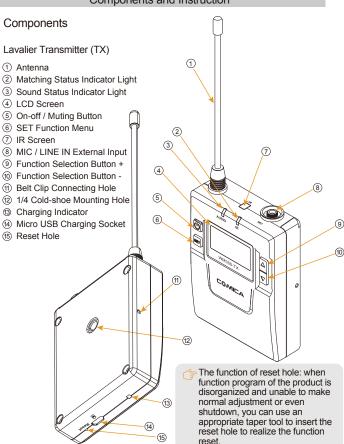
The accessories of each combination include:

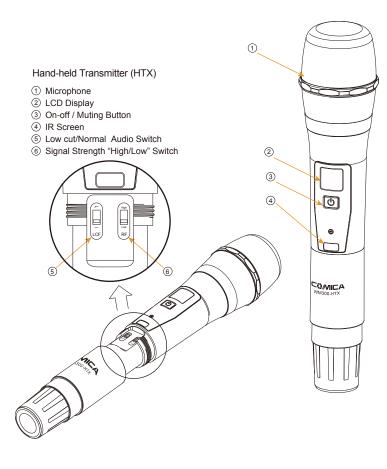
WM300(B)= 1 + 2 + 3 + 4 + 5x2 + 6x2 + 7 + 8 + 9 + 6

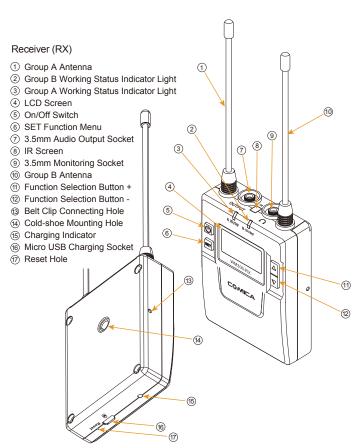
WM300(C)=  $(1 + (2) + (3) + (4) + (5)x^2 + (6)x^2 + (7) + (8) + (9) + (10)$ 

WM300(D) = @ + @ + @ + @ + @ + @ + @ + @

# Components and Instruction







#### **Function Button Instruction**

Lavalier		Long Press	Power On / Off
Transmitter / Receiver	On-off / Muting Button	Short Press	Muting Mode (This function is only for transmitter, when the mute function is turned on and the screen is lighted up)
	SET Function Menu	Long Press	Enter the function adjustment menu
	SET SET	Short Press	1.Confirm the selected function     2.Exit the function adjustment menu
	+ Button	Short Press	Function Adjustment (+)
	- Button	Short Press	Function Adjustment (-)
	On-off / Muting Button	Long Press	Power On / Off
Hand-held Transmitter			Muting Mode (Only goes into effect when the screen lights up)
	"Low cut/ Normal" Sound Switch	Push-up	Low cut
		Push-down	Normal
	Signal Strength "High/Low" Switch	Push-up	Signal strengthhigh
		Push-down	Signal strengthlow

# 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

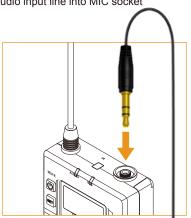
Transmitter	AUDIO	Green Light Keeps On	Normal Recording Status (This state is only for the transmitter, when the channel matches successfully, the receiver can pick up the sound)	
		Red Light Keeps On	Muting Mode	
		Red Light Flicker	Low-power reminder	
		Green Light Keeps On	Channel matches (No matter the channel matches or not)	
		Red Light Flicker	Channel in the match (only for IR Sync)	
		Green Light Keeps On	Normal working status after the channel matches	
Receiver	A IR/RF	Green Light Flicker	Channel doesn't match	
			Channel in the match	
1.000.1001	B IR/RF	Red Light Flicker	(only for IR Sync)	
			Low-power reminder	
		Red light keeps on	Channel closed	

A IR/RF: Group A Working Status Indicator B IR/RF: Group B Working Status Indicator

# Installation and Usage

#### Lavalier Transmitter

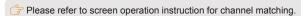
1. Insert the 3.5mm audio input line into MIC socket



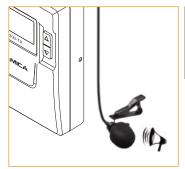
2. Long press the power button to turn on the transmitter







Connect the MIC to the audio source and check the working status according to the volume indicator on the screen





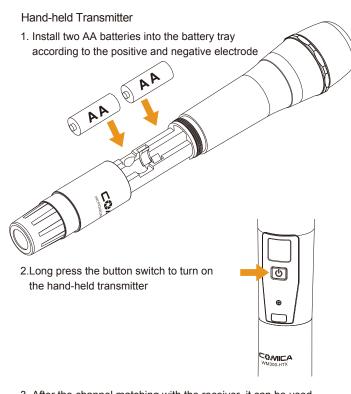
Audio Dynamic Display Bar

4. Connect the belt clip to the connection hole



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

Please refer to screen operation instruction for channel matching.

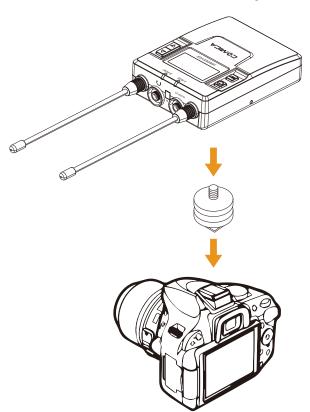


3. After the channel matching with the receiver, it can be used

Please refer to screen operation instruction for channel matching.

# Receiver

1. Connect the receiver to the video device through the cold shoe



 Insert the 3.5mm-3.5mm audio OUTPUT line into the OUTPUT port, and insert the headphone into the 3.5mm monitoring socket for real-time monitoring, then long press the power button to turn on the receiver



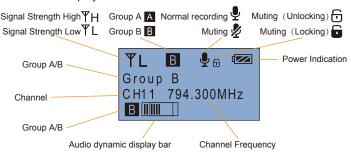
3. After the channel matching with the receiver, it can be used

Please refer to screen operation instruction for channel matching.

# Screen Display and Operation Instruction

#### Lavalier Transmitter

Screen Display Instruction



#### Operation Instruction

- 1. Manually Adjust the Channel of Transmitter
  - 1.1 Long press [SET] button to CH setting display page



1.2 Short press  $\frac{\triangle}{\nabla}$  button to select the channel



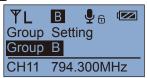
1.3 Short press SET button to confirm



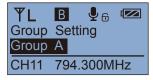
- 2. Group A/B Selection
  - 2.1 Press  $\frac{\triangle}{\Box}$  button to " Group Setting " display page



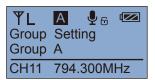
2.2 Long press [SET] button to "Group Setting "display page



2.3 Press  $\frac{\triangle}{|\nabla|}$  button to select the group



2.4 Short press SET button to confirm



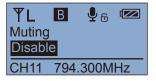
- 3. Muting Mode On/ Off
  - 3.1 Press  $\frac{\triangle}{|\nabla|}$  button to "Muting" display page



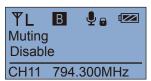
3.2 Long press [SET] button to "Muting" display page

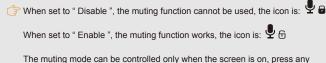


3.3 Press  $\frac{\triangle}{|\nabla|}$  button to select Muting mode on/ off



# 3.4 Short press SET button to confirm





button to light the screen and then press the button to switch the muting mode.

### 4. Volume Adjustment at Transmitter End

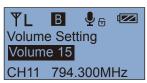
4.1 Press  $\frac{|\Delta|}{|\nabla|}$  button to " Volume Setting " display page



4.2 Long press SET button to "Volume Setting " display page



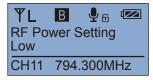
4.3 Press  $\frac{|\triangle|}{|\nabla|}$  button to adjust the volume, 16 levels in total



4.4 Short press SET button to confirm



- 5. Transmitting signal strength "High/Low" Adjustment
  - 5.1 Press  $\frac{\triangle}{\square}$  button to "RF Power Setting" display page



5.2 Long press [SET] button to "RF Power Setting" display page



5.3 Press  $\frac{\triangle}{|\nabla|}$  button to adjust the transmitting signal strength



5.4 Short press [SET] button to confirm



- 6. Backlight "lighting time/turn off" Adjustment
  - 6.1 Press  $\left| \frac{\triangle}{\bigtriangledown} \right|$  button to "Backlight Mode" display page



6.2 Long press [SET] button to "Backlight Mode" display page



6.3 Press button to adjust the backlight lighting time or you can turn it off for power saving



6.4 Short press set button to confirm



# 7. MIC/LINE IN Input Mode Adjustment

7.1 Press  $\left| \frac{\triangle}{\nabla} \right|$  button to "Input Setting "display page



7.2 Long press [SET] button to "Input Setting" display page



7.3 Press  $\frac{\triangle}{\Box}$  button to select "Mic/Line in" input mode



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  $\frac{\triangle}{\Box}$  button to "Mic LCF" display page



8.2 Long press [SET] button to "Mic LCF" display page



8.3 Press button to select LCF On/ Off



- 8.4 Short press [SET] 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  $\frac{\triangle}{\nabla}$  button to "Reset" display page



9.2 Long press SET button for resetting



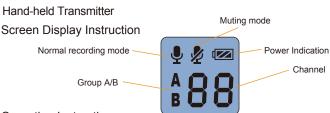
9.3 Resetting is finished



10. Version

10.1 Press  $\frac{\triangle}{|\nabla|}$  button to "Version" display page to check the version





# Operation Instruction

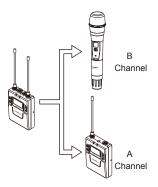
- 1.Turn on and Muting Mode Switch
  - 1.1 Long press (b) switch button for 2 seconds to turn on or off
  - 1.2 When it's turned on, short press the button to select muting mode

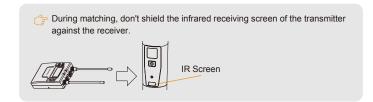


The muting mode can be controlled only when the screen is on, press any button to light the screen and then press the button to switch the muting mode.

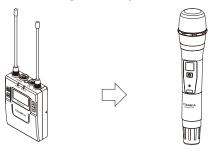
#### 2. Set the channel through infrared sync

- 2.1 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)
- 2.2 When the hand-held transmitter and the lavalier transmitter are used together, you should set them to different channels

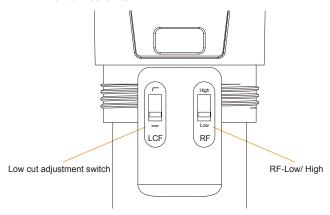




# 2.3 Set the channel through infrared sync

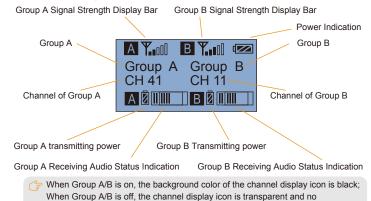


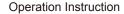
#### 2.4 Thumbwheel switch



#### Receiver

#### Screen Display Instruction





background color.

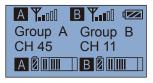
- 1. Manually Adjust the Channel of Group A/ Group B
  - 1.1 Long press [set] button to "CH" display page, long press again for Group A/Group B switch







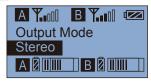
# 1.3 Short press SET button to confirm



- 2. Audio output mode "stereo/mono" adjustment
  - 2.1 Press  $\frac{\triangle}{|\nabla|}$  button to "Output Mode" display page



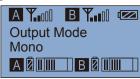
2.2 Long press SET button to "Output Mode "display page



2.3 Press  $\frac{\triangle}{|\nabla|}$  button to select Mono/ Stereo Output Mode



2.4 Short press SET button to confirm





3.1 Press  $\frac{\triangle}{\nabla}$  button to "Setting" display page



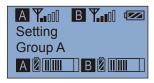
3.2 Long press SET button to "Setting" display page



3.3 Press  $\frac{\triangle}{\nabla}$  button to select Group A/B to edit



3.4 Short press SET button to confirm





4.1 Short Press button to "Group B Setting Power ON" display page



4.2 Long press [SET] button to "Setting" display page



4.3 Short Press  $\frac{\triangle}{\nabla}$  button to select "Power Off" or not



4.4 Short press set button to confirm

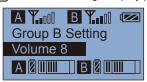




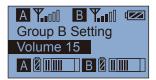
5.1 Short Press button to "Group B Setting Volume "display page



5.2 Long press [SET] button to "Setting" display page



5.3 Short Press  $\bigcirc$  button to adjust the volume



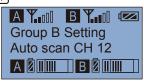
5.4 Short press SET button to confirm



- 6. Group A/B Automatic Channel Scan
  - 6.1 Short Press

button to " Group B Setting Auto scan CH

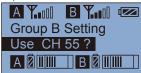
"display page



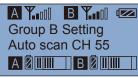
6.2 Long press SET button for Auto scanning



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



6.4 Short press | SET | button to confirm

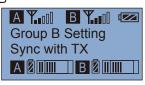


# 7.Group A/B IR Sync

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  $\frac{\triangle}{\nabla}$  button to "Backlight Mode" display page



8.2 Long press [SET] button to "Backlight Mode" display page

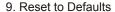


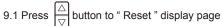
8.3 Short press button to adjust the backlight lighting time or you can turn it off for power saving



8.4 Short press [SET] button to confirm









9.2 Long press [SET] button for resetting

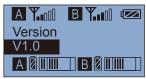


9.3 Resetting is finished



10. Version

10.1 Press  $\frac{\triangle}{|\nabla|}$  button to "Version" display page to check the version



# Specification

# Lavalier Transmitter TX

Channels	80
Group A Wireless Frequency	794.000MHz ~ 806.000MHz
Group B Wireless Frequency	794.000MHz ~ 806.000MHz
Signal / Noise	>65dB
Antenna	1/4 Wavelength Wire Antenna
Transmitting Power	10dbm/15dbm
Stray Radiation	<-60dBc
Sound Delay	<20ms
Audio Distortion	<0.5%
Battery	Polymer Lithium Battery 3.7V 2000mAh
Dimension	84 x 63.5 x 23mm
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20℃ ~ 60℃

# Hand-held Tranmistter HTX

Channels	80
Group A Wireless Frequency	794.000MHz ~ 806.000MHz
Group B Wireless Frequency	794.000MHz ~ 806.000MHz
Signal / Noise	>65dB
Antenna	PCB Antenna
Transmitting Power	10dbm/15dbm
Stray Radiation	<-60dBc
Sound Delay	<20ms
Audio Distortion	<0.5%
Battery	AA Batteries x 2pcs
Dimension	Ф53.5(MAX) x 253mm
Operating Temperature	0℃ ~ 50℃
Storage Temperature	-20°C ~ 60°C

# Receiver RX

Channels	80
Group A Wireless Frequency	794.000MHz ~ 806.000MHz
Group B Wireless Frequency	794.000MHz ~ 806.000MHz
Signal / Noise	>65dB
Antenna	1/4 Wavelength Wire Antenna
Receiving Power	-95dBm
Stray Radiation	<-60dBc
Sound Delay	<20ms
Audio Distortion	<0.5%
Battery	Polymer Lithium Battery 3.7V 2000mAh
Dimension	84 x 63.5 x 23mm
Operating Temperature	0℃~50℃
Storage Temperature	-20℃ ~ 60℃



www.comica-audio.com