



# **BY-WM6S**

Sistem Mikrofon Nirkabel UHF

Buku Panduan

## **Panduan**

Terima kasih telah memilih BOYA!

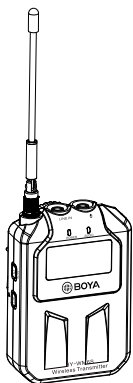
BOYA BY-WM6S merupakan sistem mikrofon nirkabel UHF yang cocok dipakai dengan smartphone, tablet, DSLR, camcorder, perekam suara, dan lainnya.

BY-WM6S menggunakan baterai yang ada didalam yang dapat diisi ulang dengan menggunakan USB Type-C 5V. BY-WM6S berbahan kokoh dengan antena yang dapat dilepas, sangat mudah digunakan didalam maupun luar ruangan.

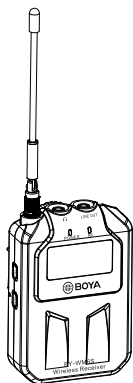
## **Features**

- For mobile journalist, vlogger, filmmaker and videographer
- Compatible with smartphone, tablet, DSLR camera, camcorder, audio recorder
- Deliver clean and broadcast-quality sound for recording
- UHF transmission with 48 channels
- Omnidirectional lavalier microphone included
- Easy-to-read LCD displays
- USB Type-C ports for battery recharging
- Rugged all-metal construction
- Up to 70m (230')(without obstacle) operation range
- Mute function
- 3.5mm headphone output

The **BY-WM6S** consists of one body-pack transmitter (TX6S), a portable receiver (RX6S), and their accessories as following:



Body-pack transmitters(TX6S) (1)



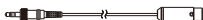
Portable receiver(RX6S) (1)



Omni-directional lavalier microphone



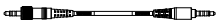
3.5mm TRS to TRS audio output cable



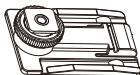
3.5mm TRS to XLR Male Output Cable



Type-C to USB-A connect cable (x2)



3.5mm TRS to TRRS audio output cable



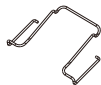
Cold-shoe mount adapter



Wind screen

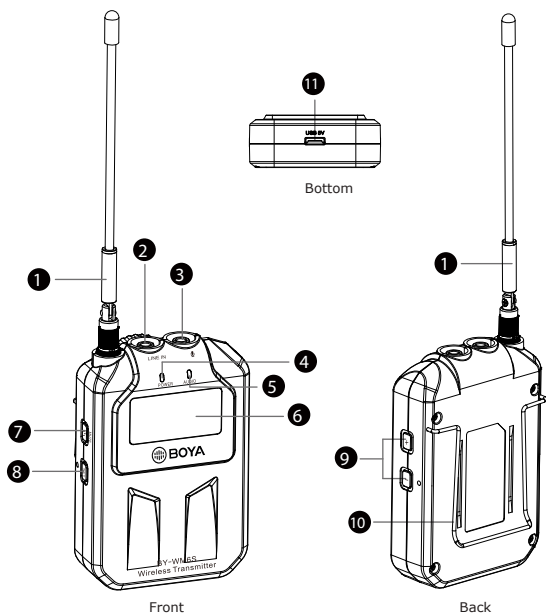


Microphone clip



Belt clip (x2)

# Transmitter



## 1. Antenna

## 2. LINE IN

## 3. Microphone input

Connect the supplied lavalier microphone here. Fully insert the microphone's 3.5mm TRS plug and make sure it clicks into place, then lock the plug. To remove, release the locking mechanism, then pull the plug out.

## 4. Power indicator

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

Status \ LED	LED	"POWER"	"AUDIO"	"RF"
The transmitter and the receiver is connected	Transmitter	√	√	/
	Receiver	√	/	√
The transmitter and the receiver is disconnected	Transmitter	√	√	/
	Receiver	√	/	×
The transmitter and the receiver is connected. And muting function is on.	Transmitter	√	Flashes blue	/
	Receiver	√	/	×
The transmitter or the receiver is in low power	Transmitter	Stays red	√	/
	Receiver		/	√
The transmitter or the receiver is in charging	Transmitter	Flashes red	√	/
	Receiver		/	√

Notes: "√" means the LED light is on. "×" means the LED light is off.

## 5. AUDIO indicator

## 6. LCD display

For details, please refer to "LCD display Operation Guide" on page 8

## 7. Power/Mute button

- 1) Long press the power of the transmitter ON or OFF.
- 2) Short press to mute

## 8. SET button

Channel / Light setting

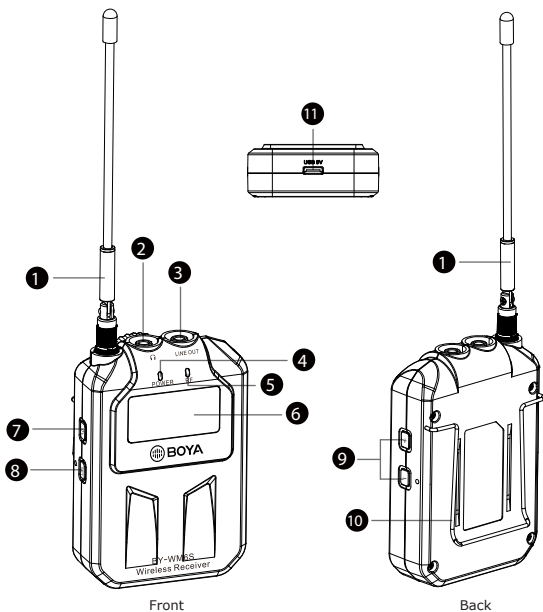
## 9. + (+ selection)/ - (- selection) buttons

Press these buttons to set the transmission channel, light setting.

## 10. Belt clip

## 11. USB Type-C charging port

## Receiver



### 1. Antenna

### 2. Headphone output

### 3. LINE OUT

(3.5mm diameter stereo mini jack)

Connect one end of the supplied stereo 3.5mm TRS to TRS or XLR to XLR Male output cable here, and the other end to the microphone input on a DSLR camera, camcorder, mixer, or amplifier etc.

### 4. Power LED

For more details about LED indicator, please refer to page 5.

**5. RF indicator****6. LCD display**

For details, please refer to "LCD display Operation Guide" on page 8

**7. Power button**

Long press the power of the transmitter ON or OFF.

**8. SET button**

Channel / Volume / Light setting

**9. + (+ selection)/ – (- selection) buttons**

Press these buttons to set the transmission channel, volume and light setting.

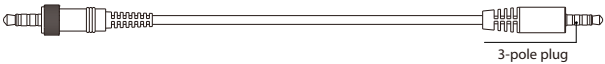
**10. Belt clip****11. USB Type-C charging port**

## Perbedaan Kabel-kabel

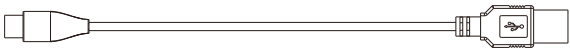
- ① 3.5 mm TRRS connector  
- For Smartphone, tablet, Mac or laptop with combo headphone/mic jack



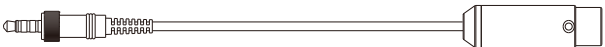
- ② For cameras, camcorders, audio recorders and other audio/video recording devices.



- ③ USB Type-C to USB-A charging cable  
- Using this cable, the devices with USB-A output can deliver power to BY-WM6S.



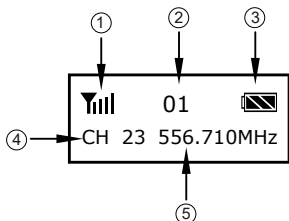
- ④ The end of XLR is connected to audio devices with a standard XLR input, such as mixer, amplifier, and more.





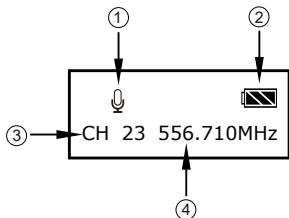
## Cara Membaca Layar LCD

### Receiver



1. Signal level
2. Volume setting (1-16)
  - Press the SET button to volume setting
  - Press the +/- (+/- selection) button to adjust volume.
3. Battery indication
4. Channel number (1-48)
5. Frequency

### Transmitter



1. MUTE button
  - Press the SET button to mute on.
  - When the icon show "🎤", mute function is on.
2. Battery indication
3. Channel number (1-48)
4. Frequency

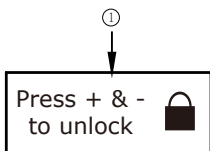
## Mute function

Mute On



- Transmitter is mute on.

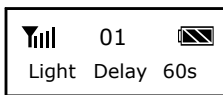
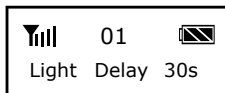
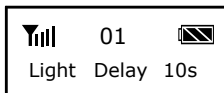
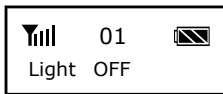
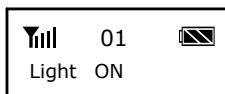
## Lock function



- LCD will be locked automatically in 30 seconds.

- Long press bottoms "+" and "-" to unlock.

## Backlight



- Press the +/- (+/-selection) button to turn LCD backlight ON/OFF.

- Light delay setting includes 10/30/60s options.

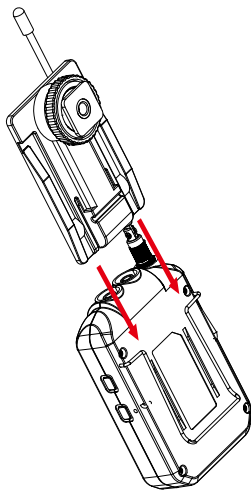
## Charging status



- This indication shows the battery is charging.

## Memasang Adapter Shoe Mount

1. Please attach the belt clip in the direction of the shown picture before attaching the shoe mount adapter.
2. Slide the adapter down fitting into the space between the belt clip and the receiver.
3. Make sure the adapter insert into vertical slot in parallel until it properly fits into the horizontal groove and locks.



## Memasang Transmitter dan Receiver

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

1. Make sure the supplied lavalier microphones are connected to the transmitter microphones input or plug a line-level source into the transmitter line input.
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.
4. When the headphone volume low, plug your headphones into the receiver and gradually raise the level to a comfortable volume for monitoring the transmission.
5. The Channel and Volume of the Transmitter and the Receiver are default value when turn on them for the first time.
  - Adjust channel as you need.
  - Adjust as necessary to make sure an ample level is being transmitted to the receiver.
  - The objective is to transmit the highest level without distortion for the best signal-to-noise ratio throughout the signal path.
6. Once you have determined the transmission quality and level are good, mount the transmitter and the receiver.



### NOTE:

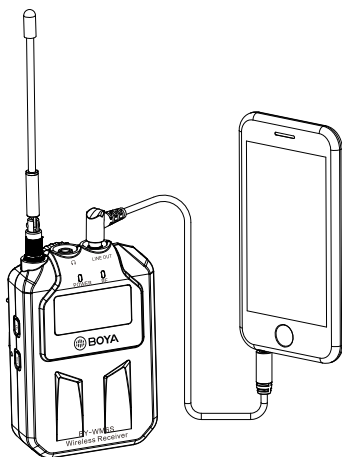
If you are connecting the receiver to a sound system, mute the sound system. Do not monitor with the headphones at the stage. Anytime you are changing the channel, remove your headphones and mute connected sound systems to avoid audible RF noise bursts.

## Menghubungkan Transmitter dan Receiver Menggunakan Mikrofon dengan smartphone, tablet, Mac, atau Laptop dengan lubang audio 3.5mm

### 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 "🎧" for monitoring sound if you need.
5. Long press the power ON/OFF button (the "POWER" indicator will light in blue)

Caution: Please do not mix up plug, for details, please refer to "What's difference" on page 7.



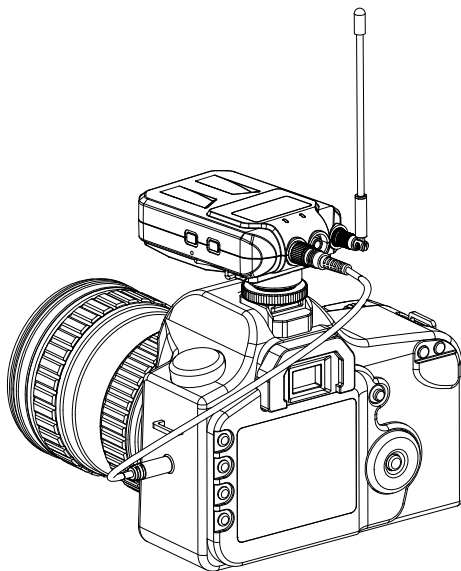
#### NOTE:

Not all Android devices support external microphone when taking video, and you may need to download a third-party app and set up sound source as external microphone.

## Menggunakan Mikrofon dengan kamera, camcorders, perekam suara dan alat rekam video/ audio lainnya

### Receiver

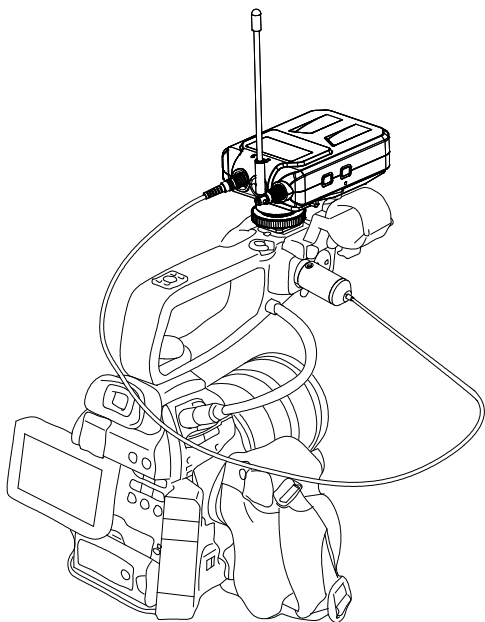
1. Mount receiver to cameras, camcorders, audio recorders and other audio/video recording devices.
2. Using TRS cable, plug the 3.5 mm connector into the audio jack of your camera.
3. Insert the other end of the connecting cable into the receiver "LINE OUT" jack.
4. Insert earphone into receiver "🎧" for monitoring sound if you need.
5. Long press the power ON/OFF button (the "POWER" indicator will light in blue)
  - Please make sure the antenna is oriented to the subject getting the best signal.



## Menggunakan Mikrofon dengan camcorder dan alat rekam lain berbasis XLR

### Receiver

1. Mount receiver to camcorders and other XLR audio/video recording devices.
2. Using the supplied XLR cable, plug the terminal of XLR connector into the audio jack of your camcorder.
3. Insert the other end of the connecting cable into the receiver "LINE OUT" jack.
4. Insert earphone into receiver "🎧" for monitoring sound if you need.
5. Press the power ON/OFF button ( the "POWER" indicator will light in blue)
  - Please make sure the antenna is oriented to the subject getting the best signal.



## Troubleshooting

If you have any problem using the BY-WM6S components, use the following checklist. If any problem persists, please consult our local dealer, or contact us directly.

Status	Cause	Measure
The units does not turn on.	The batteries of BY-WM6S TX exhausted.	Use the supplied USB Type-C cable to charge it.
The batteries become drained quickly.	The BY-WM6S components is being used under extremely cold conditions.	The batteries drain quickly under extremely cold conditions.
	The BY-WM6S Pro components is being used under extremely hot conditions.	The batteries drain quickly under extremely hot conditions.
There is no sound.	There are in different channel on both transmitter and receiver.	Keep the same channel on both the transmitter and receiver.
	There do not have a good connection with the lavalier.	Please try to reconnect it again.
	There do not have a well 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 is low. Adjust the audio output level on the transmitter. Keep this level as high as possible without distortion to reach best Sound and Noise Ratio.
	Insert the lavalier incorrectly into the LINE IN jack.	Pull it out and reconnect to the MIC IN jack.
There is distortion in the sound.	The input level of the receiver is inappropriate.	Adjust the audio output level on the transmitter. Keep this level as high as possible without distortion to reach best Sound and Noise Ratio.
	There are in different channel on both transmitter and receiver.	Keep the same channel as both the transmitter and receiver.
	Headphones with a monaural mini jack is used.	Use the headphones with a stereo mini jack.



Status	Cause	Measure
The audio is noisy or distorted. This situation can include dropouts, white noise, bursts, pops and clicks.	RF interference	There can be a lot of RF interference outdoors. Try moving indoors, where there is less RF interference. Overhead telephone lines, fluorescent lighting, and metal fences can all cause interference. Turn off all nearby computers and mobile phones."
	RF signal is weak.	Make sure there is an unobstructed line of sight between the transmitter and the receiver. Keep in mind that your body, clothes, and onstage sets are possible obstructions. If there are obstructions, you may need to move closer.
	The input level on the camera, recorder, or mixer is too high.	Turn down the audio input level on your camera or recording devices. Turn down the audio output level on the receiver. Turn down the gain level on mixer.
Too much ambience is being picked up.	When using an omnidirectional microphone like the one included with this system, the microphone may be picking up too much ambience.	Make sure the microphone is as close as to the subject as possible.

## Spesifikasi

Channel number	48
Oscillator type	PLL synthesizer
Carrier frequencies	556.710-575.980MHz
Reference deviation	+/-5KHZ(-60dBV, 1KHz input)
Signal to noise ratio	82dB or more
RF output power	10mW
Distortion	0.1% or less
Antenna	1/4λ wire antenna
Headphone output level	30mW(16 ohm)
Receive sensitivity	-98dBm
Frequency response	40Hz to 18KHz (+/-3dB)
Reference audio input level	-60dBV (MIC input. 0dB attenuation)
Power requirement	Built-in Li-ion battery 1600mAh
	DC5V (USB TYPE-C)
	Continuous time: 10 hours, Charging time: 2.5 hours (5V/1A)
Dimensions	60x24x90mm (2.4"x0.9"x3.5")
Weight	149g (5.3oz)