

Instruction

Thank you for purchasing BOYA BY-WM6S!

The BOYA BY-WM6S is a new generation UHF wireless microphone system, compatible with smartphone, tablet, DSLR camera, camcorder, audio recorder and more.

With low-interference capacity and UHF transmission with true-diversity reception, it helps users guard against many kinds of troubles, even under difficult shooting conditions, and delivers the broadcast sound quality and integrity of audio.

It runs on built-in rechargeable batteries or powered by Type-C DC 5V. This system is designed with a compact and rugged housing and a

detachable antenna that easily carries to indoor and outdoor environments.

Features

Mute function

• 3.5mm headphone output

• 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



Wind screen

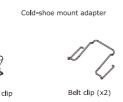
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3.5mm TRS to XLR Male

Microphone clip

The ${\bf BY\text{-}WM6S}$ consists of one body-pack transmitter (TX6S),

a portable receiver (RX6S), and their accessories as following:

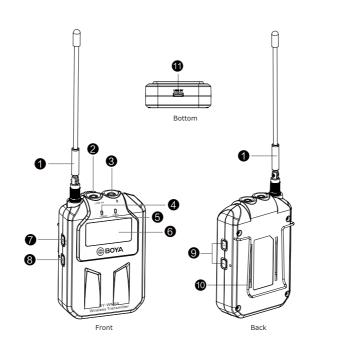


Portable receiver(RX6S) (1)

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

3.5mm TRS to TRS audio output cable

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

Notes: " $\sqrt{}$ " means the LED light is on. " \times " means the LED light is off.

5. AUDIO indicator 6. LCD display

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

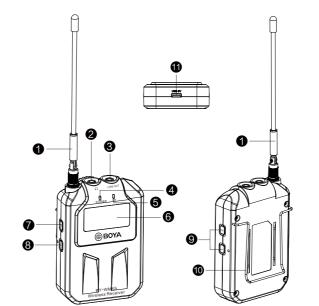
7. Power/Mute button 1) Long press the power of the transmitter ON or OFF. Short press to mute

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



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

devices.

your camera.

"LINE OUT" jack.

will light in blue)

best signal.

audio/video recording devices.

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

Using the microphone with cameras, camcorders,

audio recorders and other audio/video recording

1. Mount receiver to cameras, camcorders, audio recorders and other

2. Using TRS cable, plug the 3.5 mm connector into the audio jack of

- Please make sure the antenna is oriented to the subject getting the

3. Insert the other end of the connecting cable into the receiver

5. Long press the power ON/OFF button (the "POWER" indicator

What's difference?

① For Smartphone, tablet, Mac or laptop with combo headphone/mic jack

Receiver "LINE OUT" Connect to Smartphone SMARTPHONE (

② For cameras, camcorders, audio recorders and other audio/video

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

④ The end of XLR is connected to audio devices with a standard

XLR input, such as mixer, amplifier, and more.

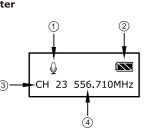
LCD Display Operation Guide Signal level

2. Volume setting (1-16) - Press the SET button to volume setting - Press the +/- (+/- selection) button to adjust volume. Battery indication

5. Frequency

4. Frequency

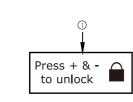
4. Channel number (1-48)



 MUTE button - Press the SET button to mute on. - When the icon show " $\centsymbol{\S}$ ", mute function is on. Battery indication 3. Channel number (1-48)

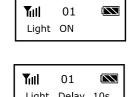
Mute function

- Transmitter is mute on.



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

Lock function



Light Delay 30s Yıll 01 Light Delay 60s

Till 01

- Press the +/-(+/-selection) button to turn LCD backlight ON/OFF. - Light delay setting includes 10/30/60s options.

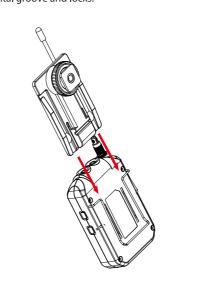
Charging status

- This indication shows the battery is charging.

Attaching the shoe mount adapter

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 fixs into the horizontal groove and locks.



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.

Setting the Transmitter and the 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.

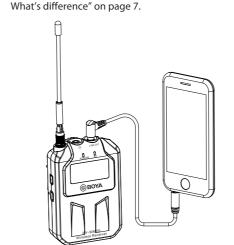
- The objective is to transmit the highest level without distortion for the best signal-to-noise ratio throughout the signal path. 6. Once you have determined the transmission quality and level are good, mount the transmitter and the receiver.

Connecting the transmitter and receiver Using the microphone with smartphone, tablet, Mac or laptop with combo headphone/Mic jack.

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 " Ω " 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"



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.

Using the microphone with camcorders and other XLR recording devices.

5. RF indicator

6. LCD display

7. Power button

8. SET button

light setting.

10. Belt clip

Channel / Volume / Light setting 9. + (+ selection)/ – (- selection) buttons

11. USB Type-C charging port

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

Press these buttons to set the transmission channel, volume and

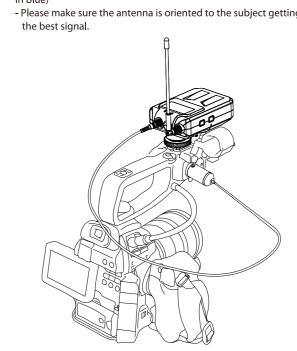
Long press the power of the transmitter ON or OFF.

1. Mount receiver to camcorders and other XLR audio/video recording

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 " Ω " for monitoring sound if you need. 5. Press the power ON/OFF button (the "POWER" indicator will light

- Please make sure the antenna is oriented to the subject getting



Troubleshooting

If you have any problem using the BY-WM6S components, use the following checklist. If any problem persist, 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.	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.	

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

FCC STATEMENT:

This is device for License use only This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation. Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to

operate the equipment. **NOTE:** "This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy

and, if not installed and used in accordance with the instructions, may

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the

cause harmfulinterference to radio communications.

which the receiver is connected.

interference by one or more of the following measures: - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an outlet on a circuit different from that to

- Consult the dealer or an experienced radio/TV technician for help. RF warning statement: The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.

Specifications

Channel number Oscillator type PLL synthesizer Carrier frequencies 556 710-575 980MHz 82dB or more Signal to noise ratio RF output power 10mW Distortion 0.1% or less Antenna 1/4λ wire antenna Headphone output level 30mW(16 ohm) -98dBm 40Hz to 18KHz (+/-3dB) Frequency respose Reference audio input level -60dBV (MIC input. 0dB attenuation) Power requirement Built-in Li-ion battery 1600mAh DC5V (USB TYPE-C) 60x24x90mm (2.4"x0.9"x3.5")

www.boya-mic.com

149g (5.3oz)

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