

BOYA
BOYA V04 3 in 1
Wireless Microphone
with Onboard
Recording



BOYA V04 3 in 1 Wireless Microphone with Onboard Recording User Manual

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BOYA

BOYA V04 3 in 1 Wireless Microphone with Onboard Recording



Specifications

- Product Name: 3-in-1 Wireless Microphone with Onboard Recording
- Brand: BOYAMIC
- Output: 3.5mm TRS, USB-C, iOS Lightning adapters
- Charging Port: USB-C
- Microphone Capsule: Built-in
- Microphone Input: 3.5mm TRS

Product Usage Instructions

Transmitter Usage

1. Connect a 3.5mm microphone or line-in device to the transmitter's 3.5mm TRS input.
2. Ensure the recording indicator shows the desired status (muted, onboard recording enabled, etc.).
3. Avoid obstructing the microphone capsule cover for optimal pick-up pattern.

Receiver Usage

1. Use the OLED screen to monitor Channel A and Channel B status indicators.
2. Check the battery level and wireless signal strength on the screen.
3. Adjust output volume and check for noise cancellation and onboard recording indicators.

Charging Case Usage

1. Connect the receiver to the charging case using the USB-C charging port.
2. Monitor the charging indicator to track battery level and charging progress.

Frequently Asked Questions (FAQ)

Q: Can I use the microphone with smartphones and cameras?

A: Yes, the receiver can connect to cameras, smartphones, tablets, and more through adapters provided.

Statement

Please read this manual carefully before using and strictly operate and store it in accordance with the instructions. Please save the manual for your future reference. If you need further assistance than the user manual, please consult your retailer for help or email us: sales@boya-mic.com

Cautions

1. DO NOT remove the housing yourself.
2. Please keep it away from heat sources such as radiators or spotlights.
3. Do not remove the battery without professionals' help.
4. Please clean the device with only a soft, dry cloth.
5. When using and storing, please keep away from dust and moisture places.
6. For the best pick-up pattern, do not hold your hand against the microphone capsule cover.

General Introduction

The BOYAMIC is a portable 2.4GHz wireless microphone system. It features high-performance noise cancellation, which is available for improving the recording effect in a noisy environment. It also boasts a remarkable onboard recording which is available for storing your recording files in real-time. The BOYAMIC is perfect for live streaming, vlogging, mobile journalism, and more. What's more, equipped with a low-cut filter, the wireless microphone can eliminate unwanted low-frequency noise (75Hz/150Hz or lower) in your recording.

It is possible to use BOYAMIC in many ways. You can choose to use the transmitter with the 3.5mm external microphone, your line input devices, or its built-in microphone as your needs. A 3.5mm TRS output, USB-C, and iOS Lightning adapters allow the receiver to connect with cameras, mixers, smartphones, tablets, laptops, and more. The receiver has a USB-C charging port that supports charging and powering the device while using it with the adapters.

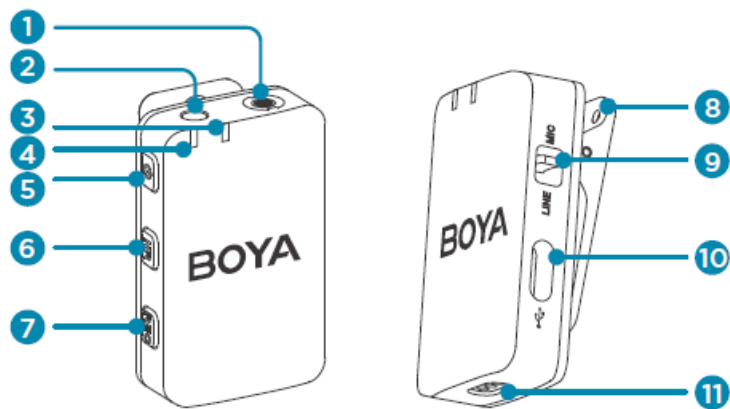
Features

- Up to 300 meters of wireless transmission
- Separate noise cancellation control – 48kHz/ 24bit HD audio format retained
- Wide-range 20-20,000Hz frequency response – deliver exceptional high-quality sound
- 8GB memory – store up to 15 hours of recording
- Transmitter' USB-C port – connect to a laptop or smartphone to read recording files
- Up to 10 hours of operating time (about 6 hours when the onboard recording is enabled)
- Attach the transmitter can be to your clothes with the included magnet.
- Rotating clasp-type fur windshield, not easy to fall off
- Receiver's 3.5mm headphone output – monitor your audio in real-time or playback audio
- High-resolution OLED display – see vital information at a glance
- Selectable Mono/ Stereo/ Safety Track output setting
- 3.5mm TRS analog output, USB-C and iOS Lightning digital output – universal compatibility with cameras, smartphones and computers

- Charging case included – make the kit easy to carry on

Product Structure

Transmitter



1. Built-in Microphone Capsule
2. 3.5mm TRS Input
For connecting 3.5mm microphones or line-in devices.
3. Recording Indicato

Status	Indicator
Microphone muted	Blinking red
Onboard recording enabled	Static red

4. Status Indicator

Status	Indicator
Unpaired	Blinking blue slowly
Pairing	Blinking blue rapidly
Paired successfully	Static blue (Mic input) Static yellow (Line input)
Noise cancellation enabled	Static green
Low battery	Blinking red
Charging	Static red
Fully charged	Red light of

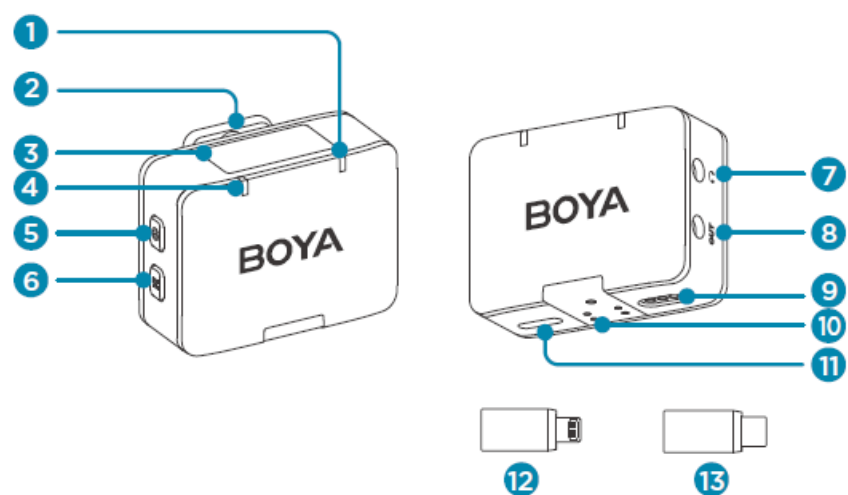
NOTE: Please charge the transmitter when TX indicates low battery status, or it will automatically shut o within 10 minutes.

- Power Button
 - Press and hold for 2 seconds to power on or o.

- Press to mute or unmute the microphone.
- Press and hold for 5 seconds to enter the pairing state in shutdown mode.
- Noise Cancellation Button
Press to enable or disable the noise cancellation.
- Record Button
Press to enable or disable the onboard recording.
- Magnetic Belt Clip
- Mic/ Line Input Toggle
- USB-C Charging Port
Used for charging. After connecting a laptop or smartphone, can also be used to read the recording files.
- Charging Contacts

Receiver

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Status Indicator for Channel A

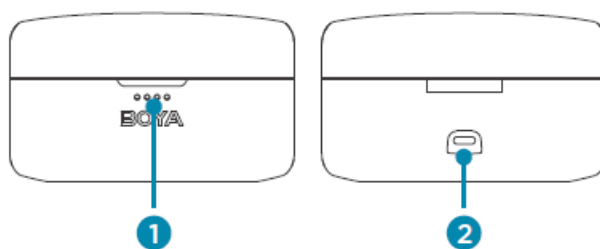
Status	Indicator
Unpaired	Blinking blue slowly
Paired successfully	Static blue

- Belt Clip
- OLED Screen
- Status Indicator for Channel B

Status	Indicator
Unpaired	Blinking blue slowly
Paired successfully	Static blue

- **Power Button**
 - Press and hold for 2 seconds to power on or o.
 - Press to access the options of the gain or volume. Refer to “Receiver’s Screen Operations” for more details.
- **M Button**
For setting values or functions in the receiver’s menu. Refer to “Receiver’s Screen Operations” for more details.
- **3.5mm TRS Headphones Port**
Connect your headphones to monitor the audio output in real time or listen to the playback of the audio.
- **3.5mm TRS Output**
For analog audio output to a camera, mixer or recorder, etc.
- **Charging Contacts**
- **Connecting Contacts**
USB-C Charging Port
For charging the receiver. An external device can be powered and charged through this port while the receiver with a USB-C or iOS Lightning adapter is plugged into it.
- **MFi Certified Lightning Adapter**
It can be connected to an iOS Lightning device.
- **USB-C Adapter**
It can be connected to Android Smartphones, Tablets, Computers and other USB-C devices.

Charging Case



① Charging Indicator

Status	Battery Level	Indicator
Low battery	<10%	● ● ● ●
Charging	<25%	● ● ● ●
	25%~50%	● ● ● ●
	50%~75%	● ● ● ●
	75%~100%	● ● ● ●
Fully charged	100%	● ● ● ●

② USB-C Charging Port

Receiver’s Screen Operations

Home Screen Overview



From the Home screen, press the power button to access the options of the A or B channel gain and output volume in turn→ press the M button to adjust the value → press the power button again to save the setting.

	Indicates that the receiver is in Mono, Stereo, or Safety Track output mode.
	Sounds that are 75Hz (150Hz) or lower will be filtered.
	Indicates the receiver's output volume from 00 to 15. Default to 06.
	Indicates that channel A/ B is connected.
	Indicates the wireless signal strength between transmitter and receiver.
	Indicates that the current channel is disconnected.
	Microphone is muted.
	Indicates the noise cancellation of the transmitter has been enabled.
	Indicates the onboard recording of the transmitter has been enabled while the icon appears and flashes.
	Indicates the corresponding transmitter's mic gain from -6 to +9. Default to 0.
	Indicates current audio input level.
	Upper right corner: Indicates the receiver's battery level.
	Both sides: Indicates the corresponding transmitter's battery level.

Menu Introduction

- From the Home screen, press the M button to access the menu page. Continue to press the M button to turn the page until the receiver returns to the Home screen.
- From the menu page, press and hold the M button to access options→ press it to setting values or functions→press and hold it again to save the settings. Press the power button to exit the settings or menu page.
- If no operation is performed within 20 seconds on the menu page, the display will automatically return to the Home screen.

Main Menu	Sub Menu	Description
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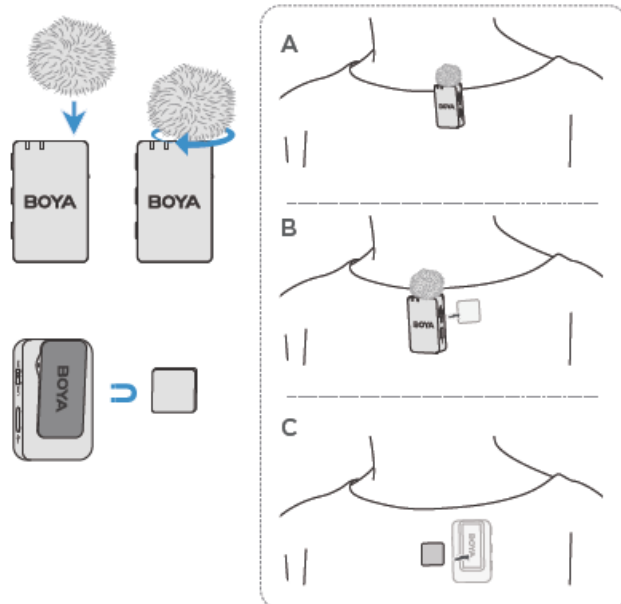
Output Mode	Mono	Signal from the transmitter or both transmitters can be mixed together and recorded identically to the left and right tracks.
	Stereo	Signals from each transmitter can be recorded to a separate track.
	Safety Track	Similar to Mono mode, the audio of the right track will be recorded in -12dB in case of distortion in your recordings.
TX Mute Key	Enable	The mute control of the transmitters' power button is activated.
	Disable	The mute control of the transmitters' power button is deactivated to prevent inadvertent operation.
Auto Recording	Enable	When this mode is activated, the transmitter will start recording audio as soon as it is switched on.
	Disable	The onboard recording is disabled by default when the transmitter is switched on.
Output Volume	00~15	The output gain level of the receiver can be reduced if the sound is distorted. The setting is retained even after the power is turned off. (Default to 06)
Low Cut	75Hz	Sounds that are 75Hz or lower will be filtered.
	150Hz	Sounds that are 150Hz or lower will be filtered.
	Off	/
Speaker	Enable	Every time the receiver is turned on, the feature will be enabled by default. Sound can be played directly without unplugging the receiver inserted into an adapter.
	Disable	/
Set TX Time A&B	Enter	<ul style="list-style-type: none"> Set the date and time so that all recording files will include a timestamp when exported. <p>On the page, press and hold the M button twice to access the setting page. Press to move the cursor→press and hold to access the options→press to adjust the value→press and hold to save the settings. Finally, press it to move the cursor on "SAVE", and then press and hold to confirm and exit. To exit directly, press the power button.</p>
Format TX A&B	Yes?	After selecting Yes, the onboard recording files on the transmitters will be erased. Please use it with caution. It is impossible to format the transmitters while it is recording.
	No?	
	On	The backlight always stays on. (Default setting)
	10s	The backlight will turn off if no operation occurs for 10 seconds.

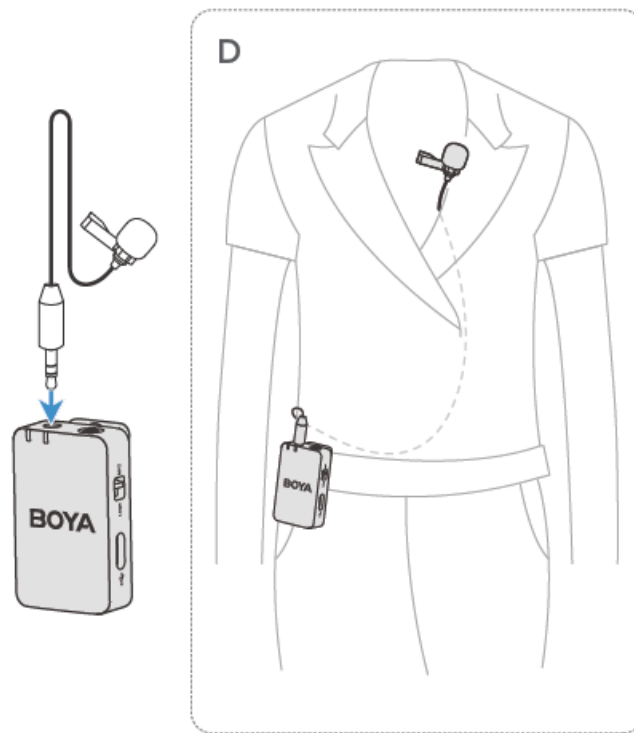
Backlight	30s	The backlight will turn of if no operation occurs for 30 seconds.
	60s	The backlight will turn of if no operation occurs for 60 seconds.
Language		Default to English.
	English	

Reset Default	Yes?	After selecting Yes, the receiver's relevant parameters will be restored to the default factory values. (Please use it with caution.)
	No?	
Pair	Yes?	After selecting Yes, the receiver will enter the pairing state.
	No?	
Version		Indicates the receiver's software version.

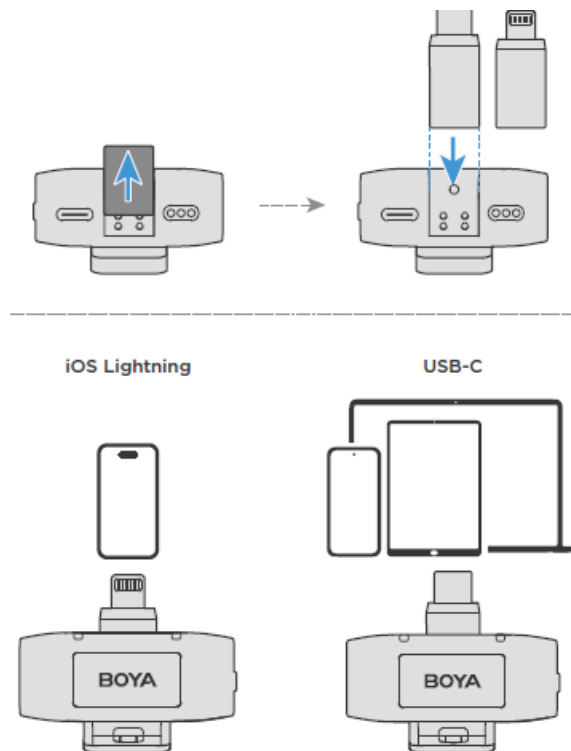
How to Use

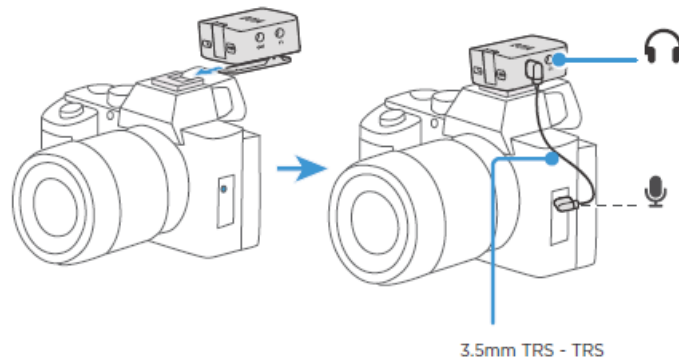
1. The transmitter comes with a windproof capsule. It can fit an extra fur windshield when you need to enhance wind protection outdoors or in a windy environment. When using a 3.5mm microphone or line-in device, please connect it to the transmitter's 3.5mm TRS input jack.
- 2.





Push the selected adapter into the receiver, and then connect the receiver to your smartphone, tablet, computer, or other mobile devices. Or connect a camera or a mixer to the 3.5mm TRS audio output of the receiver with an adapter cable.

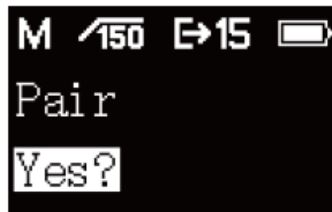




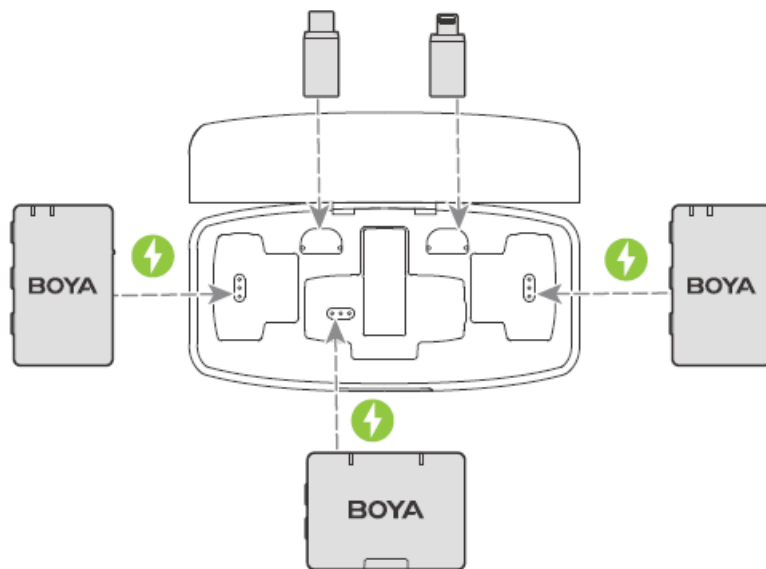
3. Press and hold the power buttons for 2 seconds to turn on the transmitter(s) and receiver.
4. Pairing

The transmitter(s) and receiver are paired by default. If they are disconnected, please follow the below steps:

1. Press the receiver's M button until you turn to the "Pair" menu page.
2. Press and hold the M button to access the options→press to select "Yes?"→press and hold again to save the settings.



3. To make the transmitter(s) enter the pairing state, press and hold its power button for 5 seconds in shutdown mode until its status indicator blinks blue rapidly.
4. Transmitter(s) and receiver will be successfully paired within 10 seconds. The transmitter's information and status will be shown on the receiver's screen.
5. Plug your headphones into the receiver's 3.5mm headphone port for audio monitoring as your need.
6. Set Mono, Stereo or Safety Track mode on the receiver's menu as your need.
7. It is recommended to record a sample and play it back to check if the audio level is acceptable before recording.
8. In order to improve the recording effect in a noisy environment, it is recommended that press the button on the transmitter(s) to enable noise cancellation.
9. After recording, put the transmitter(s) and receiver back into the case for charging.



NOTE

If a certain transmitter of BOYAMIC failed to pair, please turn off the paired transmitter, and then reconnect the unpaired transmitter and receiver.

Due to the 2.4GHz wireless frequency is widely used, the signal may be easily attenuated or interfered. Please try to avoid obstacles while using, such as walls and buildings. And keep away from devices with 2.4GHz frequency, such as high-power Wi-Fi antennas, radios, etc.

Onboard Recording

- Press the transmitter's **rec** button to enable the onboard recording. Or activate the "Auto Recording" mode so that the transmitter can start recording audio as soon as it is switched on.
- The memory can store up to 15 hours of recording at the 48kHz/ 24bit sampling rate.
- The file will be automatically split after 30 minutes of recording, making it easy to quickly find your desired recording segment.
- By default, the recording files are named in the format "DATE-TIME.- WAV". Up to 999 recording files can be created.
- If the 8GB memory is full, the original file will be automatically overwritten with the latest file from the beginning.

HINT

1. Note that in this mode, the "mute" function will not affect the onboard recording.
2. The recording files cannot be read when the onboard recording is on.
3. The onboard recording will be disabled automatically once the transmitter is placed in the charging case.

Troubleshooting

If you encounter problems when using the unit, please refer to the following checklist before contacting technical support. If the problem cannot be solved, please contact the dealer's after-sales service department.

- If there is no sound from the unit or no sound when connected to an external device

1. Make sure the receiver or the adapter on the receiver is well connected to your device. Remove the adapter and wipe the contacts with a clean cloth.
2. Make sure the mic gain or output volume is not turned to the minimum.
3. Make sure the unit is not muted.

- If the sound of the unit is too low or too loud or even distorted

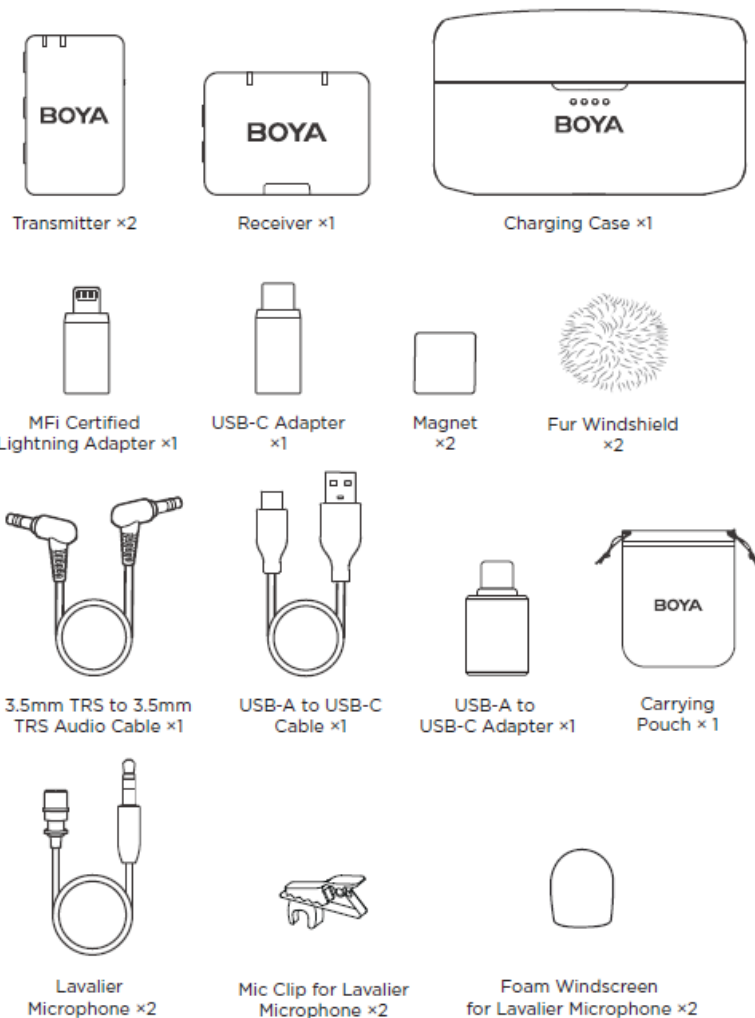
1. Adjust mic gain and output volume to the suitable level for recording in the current environment to improve the recording elect.
2. If you are recording in a noisy environment, it is recommended to enable noise cancellation to improve the recording elect.

- Current noise or other abnormal noise appears during monitoring Make sure there is no interference near the unit. If the noise still exists after changing the unit's position, please contact our customer service.
- The operating range of the unit is limited and the sound is frequently intermittent Make sure there is no interference between the transmitter(s) and the receiver. If the intermittent sound still occurs frequently, please contact our customer service.
- The receiver with an adapter cannot playback output for monitoring Make sure your phone's speaker is disabled in the receiver's menu.
- Howling noise occurs when using the receiver with an adapter Make sure your phone's speaker is disabled in the receiver's menu.

Failed to charge the transmitter(s) or receiver via the charging case

- Make sure the charging contacts of both are in full contact. Wipe the charging contacts with a clean cloth and try again.
- If you want to check whether the magnetic force is aging or whether the charging contacts of the two are not in sufficient contact, press the transmitter(s)/receiver placed in the charging case to check whether it is in a charging state. If the transmitter(s) or the receiver is still failed to be charged, please contact our customer service.

In the Box



Specifications

Transmitter

Transmission Type	2.4GHz digital frequency
Modulation	GFSK
Polar Pattern	Omnidirectional
Operating Range	Up to 300m (Measured in open environment without obstacles and interference.)
RF Output Power	10mW
Frequency Response	20Hz-20kHz
Maximum SPL	120dB SPL

Sampling/ Bit Rate	48kHz/ 24bit
Sensitivity	-32dB±2dB
Signal-to-Noise Ratio	>90dB
Distortion	0.07%
Audio Input	Built-in microphone capsule; 3.5mm TRS mic input or line input
Power Requirements	Built-in lithium-ion battery/ Charging contacts/ USB-C charging port (D C 5V)
Battery Capacity	220mAh
Battery Life	Approx. 6 hours (onboard recording enabled) Approx. 10 hours (onboard recording disabled)
Charging Time	Approx. 1.5 hours
Memory	8GB
Maximum Recording Time Stored	Approx. 15 hours
Recording Format	WAV
Weight	Approx. 24g
Dimensions	47mm×29mm×13.5mm
Operating Temperature	0°C to +50°C
Storage Temperature	-10°C to +50°C

Receiver

Display	OLED
Transmission Type	2.4GHz digital frequency
Modulation	GFSK
Polar Pattern	Omnidirectional
Operating Range	Up to 300m (Measured in open environment without obstacles and interference.)
RF Output Power	10mW
Frequency Response	20Hz-20kHz
Sampling/ Bit Rate	48kHz/ 24bit
Signal-to-Noise Ratio	>90dB
Distortion	0.07%
Audio Output	3.5mm TRS output/ MFi certified Lightning adapter/ USB-C adapter
Monitor Port	3.5mm TRS headphone port
Power Requirements	Built-in lithium-ion battery/ Charging contacts/ USB-C charging port (DC 5V)
Battery Capacity	300mAh
Battery Life	Approx. 11 hours
Charging Time	Approx. 1.5 hours
Weight	Approx. 29g
Dimensions	46mm×34mm×19mm
Operating Temperature	0°C to +50°C
Storage Temperature	-10°C to +50°C

Charging Case

Battery Capacity	1800mAh
Charging Time	Approx. 2.5 hours
Charging Connector	USB-C charging port (DC 5V)/ Wireless charging
Times for Charging Microphone	1.2 times (2*TX+1*RX)
Weight	Approx. 180g
Dimensions	115mm×56.2mm×68.5 mm
Operating Temperature	0°C to +50°C
Storage Temperature	-10°C to +50°C

www.boya-mic.com

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Documents / Resources

	<p>BOYA V04 3 in 1 Wireless Microphone with Onboard Recording [pdf] User Manual</p> <p>V04 3 in 1 Wireless Microphone with Onboard Recording, V04, 3 in 1 Wireless Microphone with Onboard Recording, Wireless Microphone with Onboard Recording, Microphone with Onboard Recording, Onboard Recording, Recording</p>
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References

-  [Mic](#)
-  [Wireless Microphone](#) | [Lavalier Microphone](#) | [USB Microphone](#) | [Shotgun Microphone](#) | [BOYA Microphone](#)
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