

BOYA BY-V20

BOYA BY-V20 USB-C Wireless Microphone User Manual

Model: BY-V20

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your BOYA BY-V20 USB-C Wireless Microphone system. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.



Image: The BOYA BY-V20 wireless microphone system, showing two transmitters and one USB-C receiver.

What's in the Box

The BOYA BY-V20 package includes the following components:

- 2 x Transmitters (TX)
- 1 x RXU Receiver (USB-C)
- 1 x USB-A to USB-C Charging Cable
- 2 x Foam Windscreens
- 1 x Carrying Bag



Image: A visual representation of all items included in the BOYA BY-V20 package: two transmitters, one receiver, a charging cable, two foam windscreens, and a carrying bag.

SETUP

1. Initial Charging

Before first use, ensure the transmitters are fully charged using the provided USB-A to USB-C charging cable. The receiver does not require charging as it draws power directly from the connected device.

Rechargeable Long Battery Life

Enjoy worry-free, all-day recording effortlessly



Image: The two transmitters and one receiver, illustrating the 2-hour charging time for 9 hours of usage, with a 95mAh battery capacity.

2. Connecting to Your Device

1. Plug the USB Type-C receiver into your compatible smartphone, tablet, or laptop.
2. Press and hold the power button on each transmitter for 2 seconds to turn them on.
3. The transmitters and receiver will automatically pair within 10 seconds. A solid blue indicator light on both units confirms a successful connection.

Compatibility Note: The BY-V20 is compatible with iPhone 15/16 series, Android smartphones, tablets, and other USB-C devices. For some Android models like OPPO and VIVO, you may need to enable the OTG function in your device settings for the microphone to function correctly. If the receiver does not light up, remove any phone case and reinsert the receiver firmly into the phone's port.

Plug-and-play easy operation

Live streaming without power interruption
while phone charging



*Attention: The receiver does not need to be charged, it is powered by a mobile phone

Image: Step-by-step guide on how to connect the BOYA BY-V20: turn on transmitters, plug in receiver, and wait for automatic pairing.

OPERATING INSTRUCTIONS

1. Power On/Off

To power on the transmitters, press and hold the power button for 2 seconds. To power off, press and hold the power button again until the indicator light turns off.

2. Noise Reduction (NR) Function

The BY-V20 features an innovative noise reduction technology. Press the **NR Button** on the transmitter to activate or deactivate the noise reduction function. When enabled, the indicator light will be static green. This function helps to minimize ambient noise for clearer audio recordings. Note that noise reduction cannot be toggled while the microphone is in mute mode.

Suitable for multiple scenarios

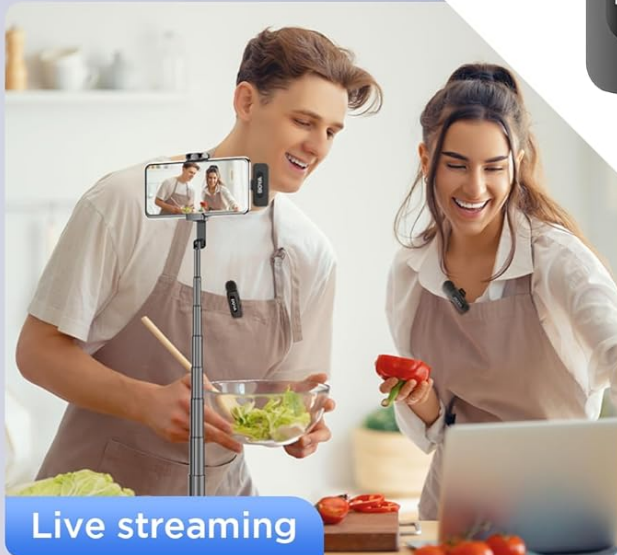


Image: Illustration of the one-click noise cancellation feature, showing the difference in sound waves before and after noise reduction, and highlighting the NR button on the transmitter.

3. Charging Your Phone While Recording

The USB Type-C receiver includes a charging port on its side. This allows you to power and charge your smartphone or device while recording, supporting charging currents up to 3A. This is particularly useful for extended recording sessions, live streaming, or video calls.

2.4GHz Dual Channel Wireless Transmission Technology

Measured in an open environment without obstacles or interference



Image: A smartphone being charged via the USB Type-C port on the side of the BOYA BY-V20 receiver while the microphone system is in use.

4. Omnidirectional Microphone

Each transmitter is equipped with a built-in omnidirectional microphone and a spray-proof sponge windscreen. This design allows the microphone to capture sound from all directions, providing clear audio recordings.

5. Wireless Range

The BY-V20 utilizes 2.4GHz dual-channel wireless transmission technology, offering a stable line-of-sight range of up to 328 feet (100 meters) in open environments without obstacles or interference.

One Click Noise Cancellation

Enhance Clarity and Cleanliness of Your Voice



Image: An illustration demonstrating the 328ft (100m) wireless transmission range of the BOYA BY-V20 in an open outdoor environment.

MAINTENANCE

- Keep the devices clean by wiping them with a soft, dry cloth.
- Avoid exposing the devices to extreme temperatures, humidity, or direct sunlight.
- Store the microphone system in the provided carrying bag when not in use to protect it from dust and damage.
- Do not attempt to disassemble or repair the unit yourself. Refer to qualified service personnel for any repairs.

TROUBLESHOOTING

If you encounter issues with your BY-V20, please refer to the following checklist. If the problem persists, contact customer support.

- **The unit fails to pair:** Make sure to pair the transmitter(s) with one receiver. If paired with more than one receiver, which receiver will be paired with the transmitter(s) cannot be specified.
- **No sound from the unit or no sound when connected to an external device:**

- a. Make sure the connector on the receiver is well connected to your device.
- b. Make sure the transmitter(s) is not muted. If its indicator blinks blue slowly, users need to press the power button once to unmute the transmitter(s).
- **The operation range of the unit is limited and the sound is frequently intermittent:**Make sure there is no interference between the transmitter(s) and receiver. If the intermittent sound still occurs frequently, please contact us for after-sales service.
- **The unit shuts off automatically:** When not paired, the transmitter(s) will automatically shut down after 10 minutes.
- **The unit fails to be powered on:** Make sure the unit has enough battery to be powered on. Try plugging in a charging cable to activate the circuit.
- **The charging case fails to charge the unit:**
 - a. Make sure the charging case's battery is not depleted. Try charging the case.
 - b. Wipe the charging contacts of the unit and charging pins of the charging case with a clean cloth and to make sure no dust is covering them.
 - c. Try to push down the unit placed in the charging case until the charging contacts are fully connected. After that, if the unit still fails to be charged, the magnetic force may be aging. Please contact us for after-sales service.



Image: A detailed troubleshooting guide covering common issues like pairing failure, no sound, limited range, automatic shutdown, and charging problems.

SPECIFICATIONS

Feature	Specification
Model Name	BY-V20
Connectivity Technology	2.4GHz Wireless
Connector Type	USB Type-C
Microphone Form Factor	Lavalier
Polar Pattern	Omnidirectional
Signal-to-Noise Ratio	80 dB
Audio Sensitivity	42 Decibels
Power Source	Battery Powered (Transmitter)
Transmitter Battery Capacity	95mAh (approx. 9 hours operation)
Charging Time (Transmitter)	Approx. 2 hours
Item Weight (Transmitter)	10.5 Grams (0.37 ounces)
Compatible Devices	Laptop, Smartphone (USB-C)

Feature	Specification
Wireless Range	Up to 328 feet (100 meters) line-of-sight

WARRANTY AND SUPPORT

The BOYA BY-V20 comes with a 2-year warranty from the date of purchase. For technical support, warranty claims, or any inquiries, please contact BOYA customer service through their official website or the retailer where the product was purchased.


Official Website: www.boyamic.com



Image: A section of the product packaging indicating a 2-year warranty period.

Related Documents - BY-V20

	<p>BOYA BY-DM2 Digital Lavalier Microphone for Android Devices - User Guide</p> <p>Learn how to use the BOYA BY-DM2 digital lavalier microphone with your Android devices. This guide covers setup, operation, specifications, and compatibility for high-quality audio recording.</p>
	<p>BOYA BY-V Wireless Microphone System Q&A</p> <p>Comprehensive Q&A guide for the BOYA BY-V wireless microphone system, covering setup, connectivity, audio issues, and usage tips for various mobile devices.</p>
	<p>BOYA BY-M1 Universal Lavalier Microphone User Manual</p> <p>Comprehensive guide to the BOYA BY-M1 universal lavalier microphone, covering features, setup, usage with cameras and smartphones, troubleshooting, and specifications.</p>
	<p>BOYA BY-DM2 Digital Lavalier Microphone Instruction Manual</p> <p>Comprehensive guide for the BOYA BY-DM2 digital lavalier microphone, covering setup, features, specifications, and usage tips for Android devices.</p>
	<p>BOYA BY-XM6 Series: Ultracompact 2.4GHz Dual-Channel Wireless Microphone System User Manual</p> <p>User manual for the BOYA BY-XM6 series, an ultracompact and lightweight 2.4GHz dual-channel wireless microphone system. Learn about its features, available kits (S1-S6), and applications for content creation, vlogging, and mobile journalism.</p>



BOYA BY-DM2 Digital Lavalier Microphone for Android - Instruction Manual

Comprehensive instruction manual for the BOYA BY-DM2 digital lavalier microphone. Learn how to connect, operate, and get the best audio quality for your Android devices with this high-quality, omnidirectional microphone.

Documents - BOYA – BY-V20

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[pdf] User Manual

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BOYA- BY-V 2.4 GHz , , , . 48kHz/16bit . BY-V , , , , 360- ... 1. 2 BY-V1-TX . 2. BY-V1-
RX iOS Lightning BY-V10-RX USB-C . 3. 10 . 4. . BY-V2/ **BY-V20** 1. 2 , BY-V2-TX . 2.
BY-V2-RX iOS Lightning **BY-V20**-RX USB-C . 3. 10 . 4. ...
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Comprehensive instruction manual for the BOYA BY-DM2 digital lavalier microphone. Learn how to connect, operate, and get the best audio quality for your Android devices with this high-quality, omnidirectional microphone.

lang:en score:29 filesize: 5.1 M page_count: 2 document date: 2018-08-03

Statement

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

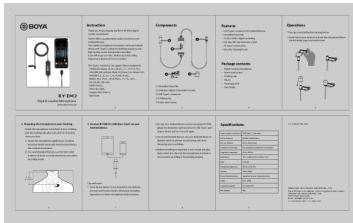
Cautions

1. Never point the omnidirectional microphone directly at people.
2. Please keep it away from heat sources such as radiators or cigarettes.
3. Do not remove the battery without professional help.
4. Please clean the device with a soft, dry cloth.
5. When using and storing, please keep away from the dust and moisture.
6. For the best pick-up pattern, do not hold your hand against the microphone capsule cover.

BOYA BY-V Wireless Microphone System User Manual and Guide

Comprehensive user manual for the BOYA BY-V series wireless microphone system, covering setup, features, troubleshooting, and specifications for transmitters, receivers, and charging cases.

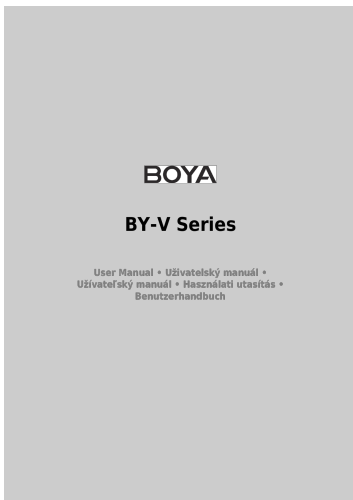
lang:en score:25 filesize: 806.25 K page_count: 14 document date: 2025-07-14



[BOYA BY-DM2 Digital Lavalier Microphone for Android Devices - User Guide](#)

Learn how to use the BOYA BY-DM2 digital lavalier microphone with your Android devices. This guide covers setup, operation, specifications, and compatibility for high-quality audio recording.

lang:en **score:24** filesize: 5.08 M page_count: 2 document date: 2018-11-08



[BOYA BY-V Series Wireless Microphone System User Manual](#)

User manual for the BOYA BY-V Series wireless microphone system, detailing product components, specifications, usage instructions, warranty, and compliance information.

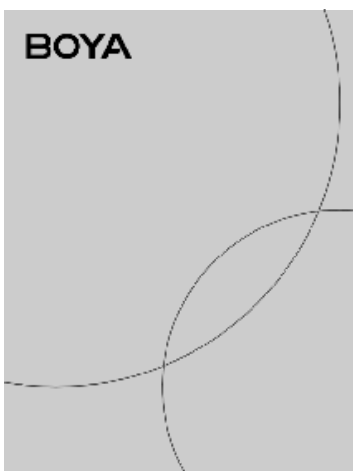
lang:en **score:23** filesize: 404.73 K page_count: 32 document date: 2023-09-14



[BOYA BY-V20 Διπλό Ασύρματο Μικρόφωνο για Smartphones με USB-C, Μαύρο](#)

Λεπτομερείς προδιαγραφές και χαρακτηριστικά του διπλού ασύρματου συστήματος μικροφώνου BOYA BY-V20 για smartphones με USB-C, περιλαμβάνοντας τεχνικά χαρακτηριστικά, γενικά χαρακτηριστικά και διαστάσεις.

lang:en **score:20** filesize: 97.72 K page_count: 2 document date: 2025-08-31



[Manual del Usuario del Sistema de Micrófono Inalámbrico BOYA BY-V de 2,4 GHz](#)

Manual de usuario completo para el sistema de micrófono inalámbrico BOYA BY-V de 2,4 GHz, que cubre la configuración, operación, características, solución de problemas y especificaciones. Aprenda a usar su BY-V para grabaciones de audio de alta calidad.

lang:es **score:18** filesize: 279.57 K page_count: 22 document date: 2025-06-27



[BOYA Product Catalog 2025: Innovative Audio Solutions for Creators](#)

Explore the comprehensive BOYA Product Catalog 2025, featuring a wide range of wireless, lavalier, USB, on-camera, and shotgun microphones, along with essential accessories designed for content creators, filmmakers, and audio professionals.

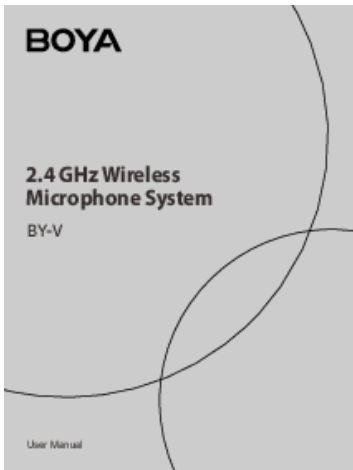
lang:en **score:18** filesize: 4.36 M page_count: 35 document date: 2025-03-07



[Olympus E-M1 Dijital Fotoğraf Makinesi Kullanım Kılavuzu](#)

Olympus E-M1 dijital fotoğraf makinesi için kapsamlı kullanım kılavuzu. Bu rehber, cihazın kurulumundan ileri düzey çekim tekniklerine, menü fonksiyonlarından güvenlik önlemlerine kadar tüm detayları anlaşılır bir dilde sunar.

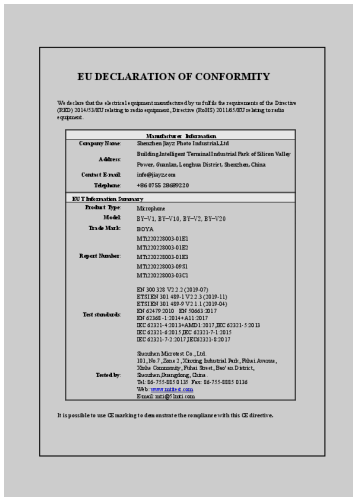
lang:en score:18 filesize: 7.68 M page_count: 170 document date: 2014-07-03



[BOYA BY-V 2.4 GHz Wireless Microphone System User Manual](#)

User manual for the BOYA BY-V 2.4 GHz Wireless Microphone System, covering general introduction, product structure, how to use, troubleshooting, specifications, and packing lists for various BY-V models.

lang:en score:17 filesize: 534.01 K page_count: 21 document date: 2025-06-27



[EU Declaration of Conformity for BOYA Microphones \(BY-V1, BY-V10, BY-V2, BY-V20\)](#)

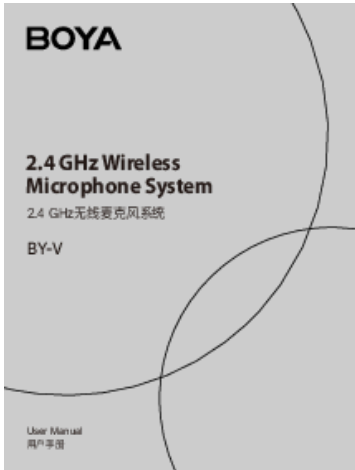
Official EU Declaration of Conformity for BOYA microphones, including models BY-V1, BY-V10, BY-V2, and BY-V20, confirming compliance with RED and RoHS directives. Details manufacturer Shenzhen Jiayz Photo Industrial.,Ltd and testing by Shenzhen Microtest Co., Ltd.

lang:en score:17 filesize: 156.53 K page_count: 2 document date: 2023-03-16



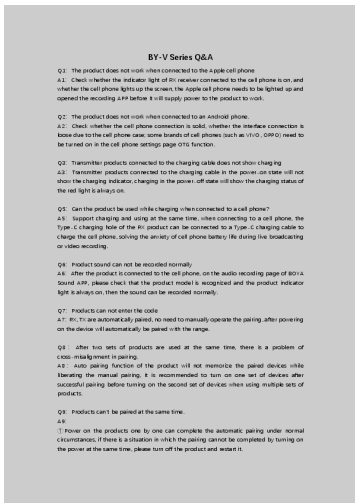
[BOYA BY-V Ultracompact 2.4GHz Wireless Microphone System User Manual](#)

This user manual provides detailed information on the BOYA BY-V series ultracompact 2.4GHz wireless microphone system, covering product structure, operational guides, technical specifications, and packing contents for various kits.
lang:en score:17 filesize: 990.1 K page_count: 11 document date: 2023-05-06



[BOYA BY-V 2.4 GHz Wireless Microphone System User Manual](#)

Comprehensive user manual for the BOYA BY-V 2.4 GHz wireless microphone system, covering setup, features, specifications, and troubleshooting for content creators, vloggers, and mobile journalists.
lang:en score:16 filesize: 787.74 K page_count: 15 document date: 2024-10-17



[BOYA BY-V Series Wireless Microphone System Q&A and Troubleshooting](#)

A comprehensive guide to the BOYA BY-V Series wireless microphone system, featuring answers to frequently asked questions and solutions for common operational issues.
lang:en score:16 filesize: 103.64 K page_count: 3 document date: 2023-07-31



[EU Declaration of Conformity - BOYA BY-V Series Wireless Microphones](#)

Official EU Declaration of Conformity for BOYA BY-V series wireless microphones, detailing compliance with Radio Equipment Directive, Electromagnetic Compatibility, WEEE, and RoHS directives, along with relevant technical standards.

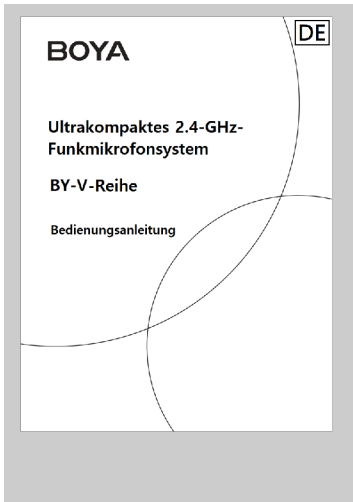
lang:en score:15 filesize: 123.85 K page_count: 1 document date: 2025-05-12



[Raymarine Axiom, Axiom+, Axiom Pro: Manual de Instalación y Manejo Lighthouse v3.15](#)

Guía completa de instalación y manejo para los displays multifunción Raymarine Axiom, Axiom+ y Axiom Pro con software LIGHTHOUSE v3.15. Incluye detalles sobre configuración, conexiones, mantenimiento y uso.

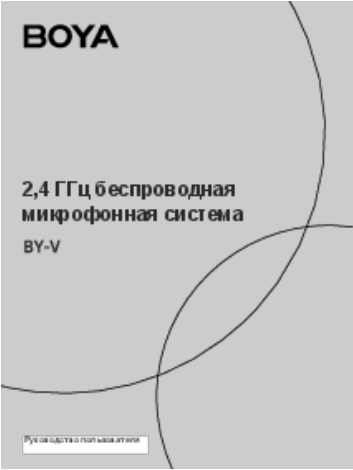
lang:es score:14 filesize: 13.53 M page_count: 296 document date: 2021-11-25



[BOYA BY-V Series Ultracompact 2.4GHz Wireless Microphone System Instruction Manual](#)

Comprehensive guide to the BOYA BY-V Series ultracompact 2.4GHz wireless microphone system, covering features, setup, specifications, and packing lists.

lang:de score:11 filesize: 902.34 K page_count: 11 document date: 2024-03-19



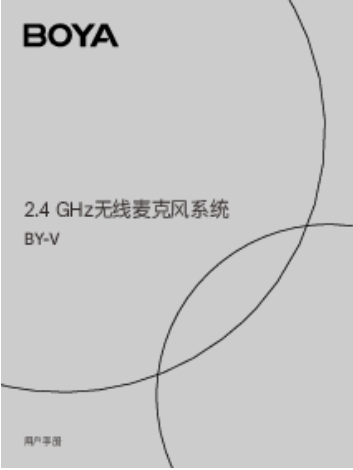
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lang:tl score:11 filesize: 11.84 M page_count: 39 document date: 2025-06-27



[BOYA BY-V 2.4 GHz](#)

BOYA BY-V 2.4 GHz

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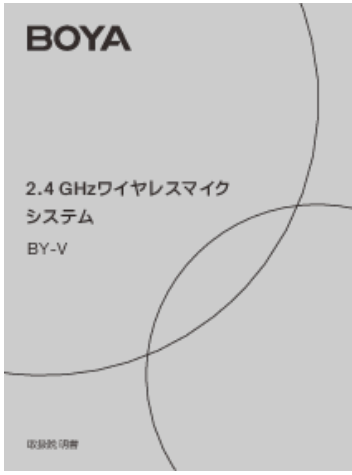
lang:tl score:11 filesize: 683.62 K page_count: 21 document date: 2025-06-27



[BOYA BY-V Wireless Microphone System Q&A](#)

Comprehensive Q&A guide for the BOYA BY-V wireless microphone system, covering setup, connectivity, audio issues, and usage tips for various mobile devices.

lang:tl score:11 filesize: 200.65 K page_count: 2 document date: 2023-06-08



[BOYA BY-V 2.4 GHz Wireless Microphone System User Manual](#)

Comprehensive user manual for the BOYA BY-V 2.4 GHz dual-channel mini wireless microphone system, covering product features, components, usage instructions, troubleshooting, and specifications for various kits.

lang:tl score:10 filesize: 620.71 K page_count: 21 document date: 2025-06-27



[\[pdf\] User Manual Installation Guide Instructions Guide Application Guide](#)

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lang:id score:9 filesize: 40.69 M page_count: 264 document date: 2020-12-31