

**BOYA BOYALINK V2.0**

# BOYA BOYALINK 2 Wireless Lavalier Microphone User Manual

Model: BOYALINK V2.0 | Brand: BOYA

## INTRODUCTION

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The BOYA BOYALINK 2 is an advanced wireless lavalier microphone system designed for universal compatibility across various devices, including iPhones, Android phones, cameras, and PCs. It features a 3-in-1 adapter (Lightning, USB-C, 3.5mm TRS) for seamless plug-and-play operation. This system is engineered to deliver high-fidelity audio with a 48kHz/24Bit format and a 20Hz-20kHz frequency response, ensuring detailed and dynamic recordings. Key features include a 6mm high-sensitivity condenser microphone, powerful 2-level noise cancellation, and stable transmission up to 1000 feet with ultra-low latency. The system boasts an extended battery life of up to 30 hours with its charging case, making it suitable for prolonged recording sessions.



Image: The complete BOYA BOYALINK 2 system, showcasing the charging case, two transmitters, one receiver, and the three interchangeable adapters (USB-C, Lightning, 3.5mm TRS).

## PACKAGE CONTENTS

Before proceeding with setup, please ensure all components are present in your package:

- 2 x BOYALINK 2 Transmitters (TX)
- 1 x BOYALINK 2 Receiver (RX)
- 1 x USB Type-C Adapter
- 1 x Lightning Adapter
- 1 x 3.5mm TRS Adapter
- 1 x 1000mAh Charging Case
- 1 x USB-A to USB-C Charging Cable
- 2 x Fur Windshields
- 1 x Carrying Bag

## Supports Charging While In Use

Never worry about your phone's battery running out and interrupting your recording



Image: A visual representation of all items included in the BOYA BOYALINK 2 package, including transmitters, receiver, adapters, charging case, cables, and accessories.

## SETUP GUIDE

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Follow these steps to set up your BOYALINK 2 wireless microphone system:

- 1. Charge the System:** Before first use, fully charge the transmitters and receiver using the provided charging case and USB-C cable. The charging case has indicator lights to show battery status.
- 2. Select the Appropriate Adapter:**
  - For Apple iPhones (Lightning port): Use the Lightning adapter.
  - For Android phones, Mac, iPad, iPhone 15/16 series (USB-C port): Use the USB Type-C adapter.
  - For Cameras and some Action Cameras (3.5mm TRS port): Use the 3.5mm TRS adapter.

# 3 Adapters in 1 Case, Universal Compatibility

PS: Does not support Android phones with 3.5mm round headphone jack



Image: The BOYALINK 2 receiver demonstrating the modular design with its three interchangeable adapters for various device connections.

3. **Attach Adapter to Receiver:** Slide the chosen adapter onto the receiver (RX) until it clicks securely into place.
4. **Connect Receiver to Device:** Plug the receiver with the attached adapter into the corresponding port on your recording device (smartphone, camera, PC).
5. **Automatic Pairing:** Simply open the charging case. The transmitters (TX) and receiver (RX) will automatically pair with each other. No manual setup is required for initial pairing.
6. **Attach Transmitters:** Clip the transmitters onto the talent's clothing, ensuring the microphone (small hole) is facing towards the mouth for optimal sound capture. You can attach the included fur windshields to reduce wind noise.

## OPERATING INSTRUCTIONS

Understand the various functions and controls of your BOYALINK 2 system for optimal performance.

### Audio Quality and Pickup

- **High-Fidelity Sound:** The system supports 48kHz/24Bit audio format and a 20Hz-20kHz frequency response,

capturing a wide range of sounds from deep bass to crisp highs.

- **6mm High-Sensitivity Condenser Mic:** Equipped with a 6mm omnidirectional microphone, the transmitters capture sound precisely from all directions, providing detailed and dynamic recordings.

# Studio-Quality Sound



Industry-Leading Performance Standards

**48kHz**

Sampling Rate

**24Bit**

Depth

**>85dB**

High SNR

**120dB**

SPL Maximum Sound Pressure Level



Image: Visual representation of the BOYALINK 2's studio-grade audio capabilities, including 48kHz/24Bit sampling, high SNR, and 120dB SPL.

# 6mm High-Sensitivity Condenser Mic

1.5x larger than standard 4mm mic, 360° omnidirectional pickup



Image: An exploded view diagram illustrating the components of the 6mm high-sensitivity condenser microphone, emphasizing its omnidirectional pickup.

## Noise Cancellation

- The BOYALINK 2 features DSP active noise cancellation with two levels: Strong and Weak.
- Press the "NR" button on the transmitter to cycle through noise reduction modes.
- The included fur windshields can be used to further minimize wind noise in outdoor environments.
- The system can handle up to 120dB SPL, preventing distortion even with loud sounds.

# 2-Level Smart Noise Cancellation and Windshield to Minimize Noise

Supports one-click strong/weak noise reduction mode switch



Image: The BOYALINK 2 transmitter with an attached fur windshield, illustrating its smart noise cancellation capabilities against a wavy sound background.

## Transmission and Latency

- The high-gain LDS antenna ensures stable audio transmission up to 1000 feet (Line of Sight).
- Experience ultra-low latency of 25ms, ensuring seamless audio-visual synchronization.
- Double anti-interference capabilities provide reliable performance even in challenging conditions.

# 1000FT Stable Transmission Ultra-Low 25ms Latency

Overcome distance limits; keep your sound always one step ahead!

# 1000FT



Image: A smartphone recording a snowboarder from a distance, demonstrating the 1000ft stable transmission range and ultra-low 25ms latency of the BOYALINK 2 system.

## Gain Control

- The BOYALINK 2 offers 6 levels of volume control, each providing a 6dB boost, for a total gain range of 0-36dB.
- Adjust the gain to find the perfect volume setting for your specific recording environment. LED indicators on the transmitter clearly display the current volume level.

# 6-Level Gain Control

Find the perfect volume setting for your surroundings



**6dB/12dB**  
(Level 1/2)



**18dB/24dB**  
(Level 3/4)



**28dB/36dB**  
(Level 5/6)



Image: A collage showing various recording scenarios (interviews, vlogging, presentations) and how the 6-level gain control of the BOYALINK 2 can be adjusted for optimal audio in each setting.

## Battery Life and Charging

- The system provides up to 30 hours of total operating time with the included 1000mAh charging case.
- Each transmitter offers up to 10 hours of continuous use on a single charge.
- A full recharge of the system takes approximately 1.5 hours.
- The receiver supports phone charging during use, preventing your device's battery from running out during long recording sessions.

## BOYALINK 1

48KHz/16Bit

4mm Condenser Mic

One-Touch Noise Cancellation

328ft Stable Transmission

✗

Gain Range: 0-18dB

✗

SNR 85dB

SPL: 120dB

Frequency Response: 20H-20KHz

Mono/Stereo Channel

Transmission Delay: 25ms

Use While Charging

TX: 10h, 30h Use

Plug-Free Playback

TX Weight: 12g

## BOYALINK 2

48KHz/24Bit

6mm Condenser Mic

One-Touch Noise Cancellation(Strong/Weak)

1000ft Stable Transmission

APP Control

Gain Range: 0-36dB

TX Gain Indicator Light

SNR>85dB

SPL: 120dB

Frequency Response: 20H-20KHz

Mono/Stereo Channel

Transmission Delay: 25ms

Use While Charging

TX: 10h, 30h Use

Plug-Free Playback

TX Weight: 12g

Image: The BOYALINK 2 charging case with transmitters, highlighting the impressive 30-hour total usage time and 1.5-hour charging time.

### Additional Features

- App Control:** Control various functions and access firmware updates via the BOYA app (BOYA Central).
- Mute Function:** Easily mute the microphone directly from the transmitter.
- Plug-Free Playback:** Playback recorded audio without needing to unplug the receiver, preventing wear and tear on your device's port.
- Mono/Stereo Switch:** Record separately via each channel or combine the two channels for flexibility in post-production. *Note: When BOYALINK 2 is used with a smartphone, only mono mode is available.*



Image: A user interacting with the BOYA Central app on a smartphone, demonstrating the various control options available for the BOYALINK 2 system.

## 6-Level Gain Control, Flexible Volume Control

A total of 6 gain levels, each providing a 6dB boost, for up to 36dB-Find the perfect volume setting for your surroundings



6dB/12dB(Level 1/2)

18dB/24dB(Level 3/4)

28dB/36dB(Level 5/6)

Image: A laptop screen displaying audio waveforms, illustrating the difference between mono and stereo recording modes for the BOYALINK 2.

## MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your BOYALINK 2 system:

- Cleaning:** Use a soft, dry cloth to clean the transmitters, receiver, and charging case. Avoid using harsh chemicals or abrasive materials.
- Storage:** Store the system in its charging case when not in use to protect it from dust and physical damage. Keep it in a cool, dry place away from direct sunlight and extreme temperatures.
- Battery Care:** For long-term storage, ensure the batteries are partially charged (around 50%) to maintain battery health. Avoid fully discharging or overcharging for extended periods.
- Adapter Care:** Handle the interchangeable adapters with care. Ensure they are inserted and removed gently to prevent damage to the connectors.
- Windshield Maintenance:** The fur windshields can be gently cleaned with a soft brush if they accumulate dust or debris.

## TROUBLESHOOTING

If you encounter issues with your BOYALINK 2 system, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No sound or low volume	<ul style="list-style-type: none"> <li>Transmitter/Receiver not paired</li> <li>Incorrect gain setting</li> <li>Receiver not fully plugged in</li> <li>Device volume too low</li> <li>Microphone obstructed or too far</li> </ul>	<ul style="list-style-type: none"> <li>Ensure charging case is open for auto-pairing.</li> <li>Adjust gain levels on the transmitter.</li> <li>Verify the receiver is securely connected to your device.</li> <li>Increase the volume on your recording device.</li> <li>Ensure the transmitter mic is clear and positioned correctly.</li> </ul>
Interference or poor audio quality	<ul style="list-style-type: none"> <li>Environmental interference</li> <li>Distance too great</li> <li>Noise cancellation setting</li> </ul>	<ul style="list-style-type: none"> <li>Move away from strong Wi-Fi signals or other 2.4GHz devices.</li> <li>Reduce distance between TX and RX.</li> <li>Try different noise reduction modes (Strong/Weak) or disable if not needed.</li> <li>Attach fur windshields in windy conditions.</li> </ul>
Device not recognizing receiver	<ul style="list-style-type: none"> <li>Incorrect adapter used</li> <li>Adapter not fully inserted</li> <li>Device compatibility issue</li> </ul>	<ul style="list-style-type: none"> <li>Ensure the correct adapter (Lightning, USB-C, 3.5mm TRS) is used for your device.</li> <li>Push the adapter firmly into the receiver and the receiver firmly into the device.</li> <li>Verify your device supports external microphones via the chosen port.</li> </ul>
Short battery life	<ul style="list-style-type: none"> <li>Not fully charged</li> <li>Aging battery</li> </ul>	<ul style="list-style-type: none"> <li>Ensure transmitters and charging case are fully charged before use.</li> <li>Battery performance may degrade over time.</li> </ul>

If the problem persists, please contact BOYA customer support for further assistance.

## SPECIFICATIONS

Detailed technical specifications for the BOYALINK 2 Wireless Lavalier Microphone system:

Feature	Detail
Model Name	BOYALINK 2 (2TX+ 3-in-1 RX+Charging Case)
Item Model Number	BOYALINK V2.0
Microphone Form Factor	Lavalier
Polar Pattern	Omnidirectional
Connectivity Technology	2.4GHz Wireless
Connector Type	Lightning, 3.5 mm Jack, USB Type-C (via interchangeable adapters)
Audio Format	48kHz/24Bit

Feature	Detail
Frequency Response	20Hz-20kHz
Signal-to-Noise Ratio (SNR)	> 85 dB
Maximum Sound Pressure Level (SPL)	120 dB
Transmission Range	Up to 1000 feet (Line of Sight)
Latency	25ms
Battery Type	Lithium Metal (included)
TX Operating Time	Up to 10 hours
Total Operating Time (with charging case)	Up to 30 hours
Charging Time	Approx. 1.5 hours
Item Dimensions (L x W x H)	4.4 x 2.9 x 1.3 inches
Item Weight	5.3 ounces (0.33 Pounds)
Material	Acrylonitrile Butadiene Styrene, Metal

# Extended Battery Life

Record all day with confidence, no recharging needed



**≈1.5H**

Charging Time



**10H**

Continuously  
Podcast



**30H**

Usage Time  
(with charging case)

Image: A detailed comparison table highlighting the enhanced specifications of BOYALINK 2 over its predecessor, BOYALINK 1.

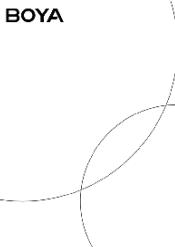
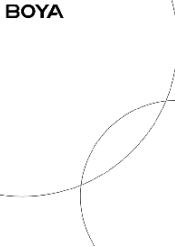
## WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your BOYA BOYALINK 2 Wireless Lavalier Microphone, please refer to the official BOYA website or contact their customer service directly.

You can visit the official BOYA Store for more information and support resources [BOYA Official Store](#)

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## Related Documents

	<p><a href="#"><b>BOYA BOYALINK 2.4GHz</b></a></p> <p>BOYA BOYALINK 2.4GHz</p>
	<p><a href="#"><b>BOYA BOYALINK Wireless Microphone System User Manual</b></a></p> <p>User manual for the BOYA BOYALINK 2.4 GHz dual-channel wireless microphone system. Covers features, product structure, operation guide, troubleshooting, specifications, and package contents for various BOYALINK models.</p>
	<p><a href="#"><b>BOYA BOYALINK Wireless Microphone System User Manual</b></a></p> <p>User manual for the BOYA BOYALINK, a multi-compatible 2.4 GHz dual-channel wireless microphone system. Learn about its features, product structure, operation, troubleshooting, specifications, and package contents.</p>
	<p><a href="#"><b>BOYALINK 3 AI-Powered Button Microphone User Manual</b></a></p> <p>User manual for the BOYALINK 3, a true wireless AI lavalier microphone system with 2.4 GHz digital transmission and AI noise reduction. Learn about its features, setup, operation, and troubleshooting.</p>