

# BOYA Magic

**Transformable AI-Powered Mini  
Wireless Microphone**



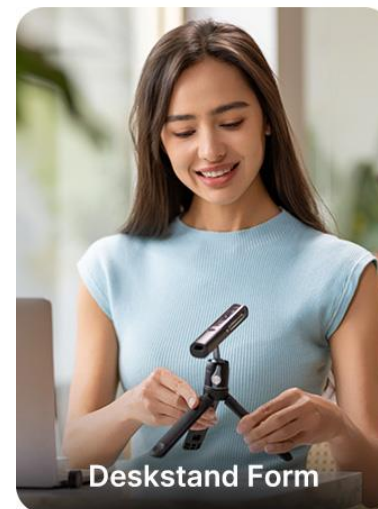
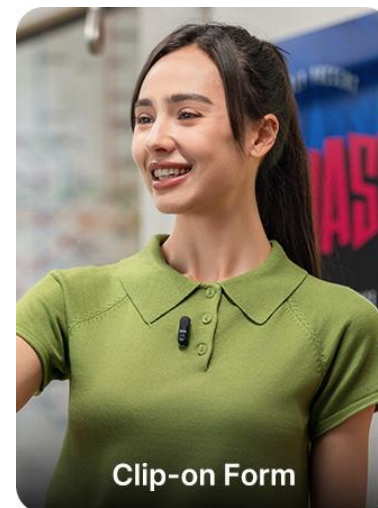
**One Mic.  
Four Forms.**



# Overview

BOYA Magic is a **transformable** mini microphone with true **AI noise cancellation**, combining **clip-on**, **handheld**, **desktop**, and **camera-mounted** forms into one compact design.

Weighing only **7 grams**, it features a powerful neural network engine trained on millions of real-world sound samples to reduce ambient noise—delivering up to **-40 dB** of noise cancellation across diverse environments. It's a redefinition of the wireless microphone, making recording smarter, faster, and more versatile for content creators.



# Highlights

- Transforms seamlessly into a **clip-on mic**, **handheld stick**, **desktop mic**, or **on-camera mic**.
- **7g** ultra-small and light for a fit that stays all day.
- Start interview recording with a press of the case button, no need to take out the mics.
- Integrates with a mini tripod to become a wireless desktop mic with clean setup and balanced **360°** pickup.
- Mounts on your camera's cold shoe for fast setup and easy portability on the go.
- A **deep neural networks** (DNNs) chip enables up to **-40 dB** noise cancellation for crystal-clear voice.
- Built-in **limiter** and **safety track** backup provide dual-layer peak protection for distortion-free audio.



BOYA

# Take A Closer Look



A large, stylized logo consisting of a green 'a' and a yellow 'i' is positioned in the background. The 'a' is a vibrant green, and the 'i' is a bright yellow. Both letters have a thick, rounded, and somewhat abstract shape. The 'i' has a small dot above it, which is a solid orange circle. The entire logo is set against a solid blue background.

# Explore the Full Story

Flexibility

# One Mic, Four Forms

BOYA Magic brings together a wireless lavalier, handheld mic, desktop mic, and on-camera mic in one compact design. Take your studio on the road — as easy to carry as slipping a marker into your bag. Whether you're in the field, in a studio, or on the move, Magic adapts to your workflow while delivering pro-level sound in a minimalist package.



Noise Cancellation

# Meet Next-Gen Noise Cancellation



# BOYA Intelligence

The BOYA Magic features next-gen AI noise cancellation that intelligently separate background noise and keeps your voice crystal clear. Powered by a dedicated **deep neural networks** (DNNs) trained on **700,000+** real-world noise samples and **20,000** hours of deep learning, it separates voice from noise in milliseconds. Activate **strong** mode for up to **-40 dB** suppression in loud environments, or switch to **light** mode for up to **-15 dB** reducing white noise while preserving natural ambience.

---

Trained on

**700,000**

noise samples

---

Refined

**20,000**

hours of deep learning

---

Up to

**-40 dB**

of cancellation depth

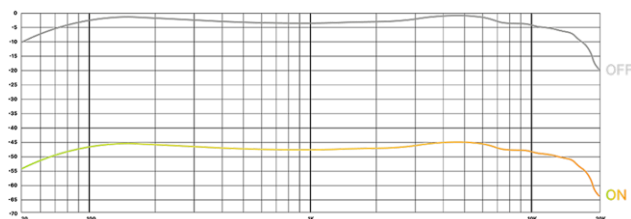
# More than a mic. It's a **new move.**

## Noise Cancellation Evolution

2025 – Future

### 3rd Gen

AI-Powered noise Cancellation (AINC)



Cancellation Depth

-21 dB to -40 dB

How It Works

Uses deep learning models like DNN, trained on massive noise samples, to separate voice from noise with high precision.

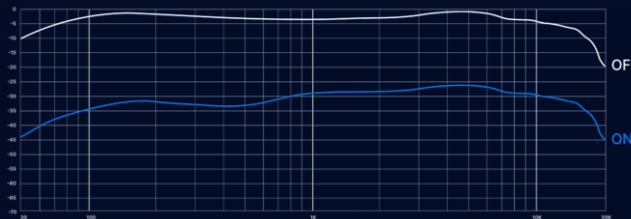
Limitation

High computational cost and complex model design.

2020 - now

### 2nd Gen

Environmental noise Cancellation (ENC)



Cancellation Depth

-2 dB to -15 dB

How It Works

Builds on the 1st gen with adjustable noise cancellation levels.

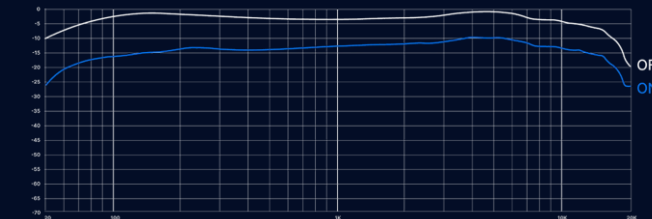
Limitation

Limited to common noise types; deeper cancellation may affect vocal clarity.

2010 - now

### 1st Gen

DSP-Based\* noise Cancellation



Cancellation Depth

-2 dB to -10 dB

How It Works

Applies adaptive filters to suppress background noise.

Limitation

Poor response to transient noises.

\* Digital Signal Processing (DSP).

## Audio Quality

# Pristine Audio, in Every Situation

BOYA Magic captures studio-quality sound wherever you create, with 48kHz/24-bit high-definition recording, 80 dB signal-to-noise ratio, a wide 144 dB dynamic range, and a finely tuned frequency response from 20Hz to 20kHz. From soft breaths to soaring highs, every detail is faithfully preserved.



## Safety

# Double Audio Guard, Safe and Sound

The built-in smart **limiter** keeps your levels in check, protecting your audio from sudden peaks and distortion. A second **safety track** is also recorded at a lower volume (-12 dB backup), so even in unpredictable moments, your best takes are always preserved, no need to spend hours fixing it in post.



## Battery Life

# Long-Lasting Power, Keep Rolling

Keep the creativity flowing all day long. Each mic runs for **6 hours** on a single charge, and with the charging case providing up to **30 hours**. Easily cover a full day of recording — no more battery anxiety holding you back.

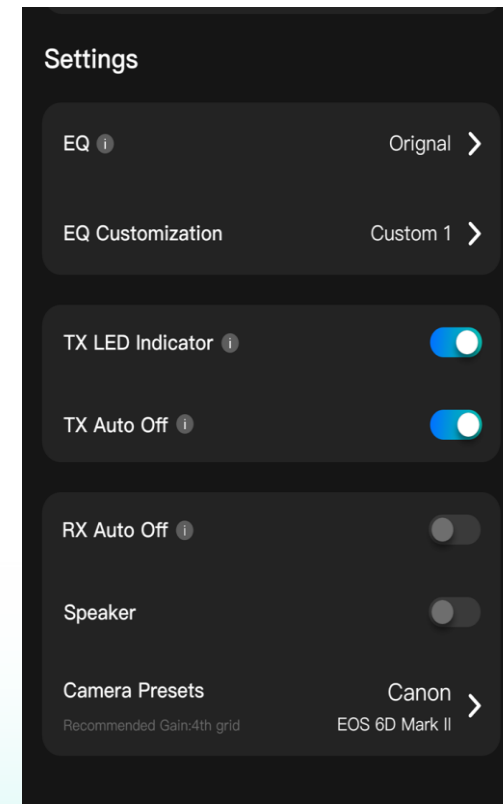
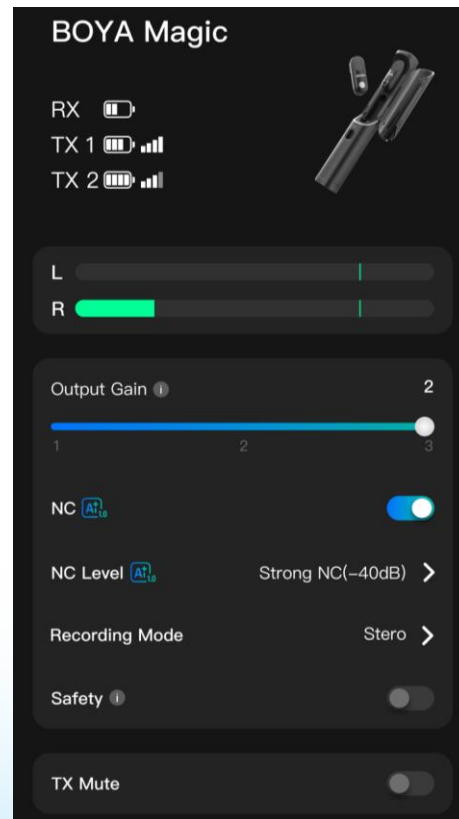
\* Data sourced from BOYA Sound Labs. Actual performance may vary by environments.



## APP Control

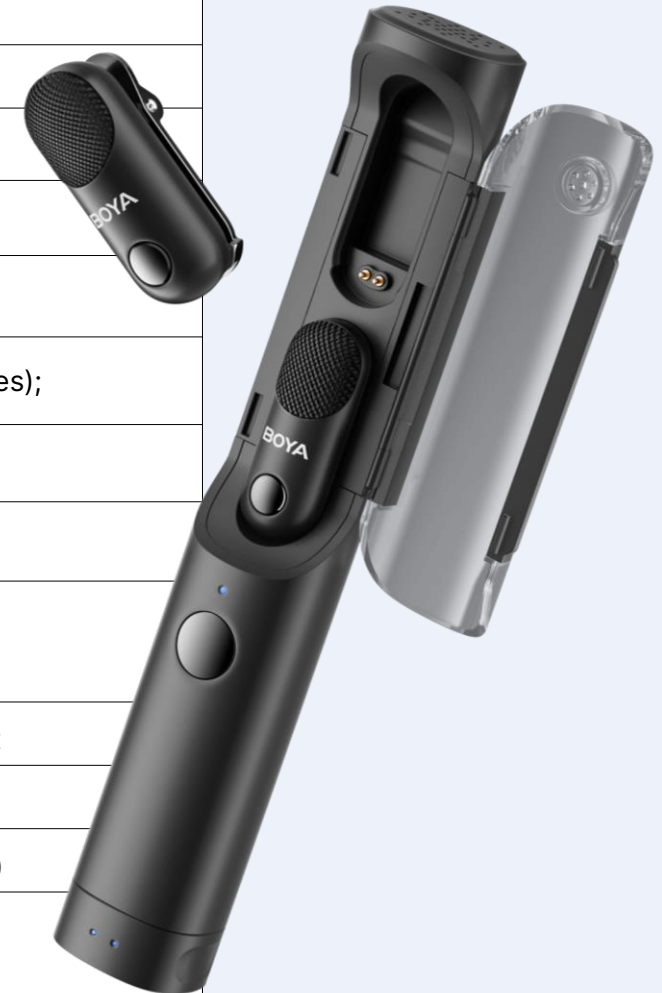
# Full Control with BOYA Central

With the BOYA Central app, adjust AI noise cancellation, gain control and camera presets right from your phone.  
Download it for free to unlock the full potential of BOYA Magic.



# Quick Specs

|                               |                                                        |
|-------------------------------|--------------------------------------------------------|
| Sample Rate / Bit Depth       | 48 kHz / 24-bit                                        |
| Signal-to-noise Ratio         | 80 dB                                                  |
| Max SPL                       | 115 dB                                                 |
| Frequency Response            | 20 Hz - 20 kHz                                         |
| Output Mode                   | Mono / Stereo / Safety Track                           |
| AI Noise Cancellation         | Strong / Light                                         |
| Playback                      | ✓                                                      |
| AGC                           | ×                                                      |
| Limiter                       | ✓                                                      |
| Real-time Monitoring          | ✓                                                      |
| Transmission Range            | Up to 100 m (without obstacles);                       |
| Power Supply                  | Built-in Li-ion battery                                |
| Clip                          | Metal + Magnet                                         |
| Weight                        | TX: 7 g<br>USB/Lightning RX: 5 g<br>3.5mm TRS RX: 16 g |
| Audio Output                  | 3.5 mm TRS analog output                               |
| Charging Case Charging Time   | Approx. 2 hours (5 V / 2 A)                            |
| Charging Case Charging Cycles | More than 1.5 times (2*TX)                             |
| Battery Life                  | Transmitter: 6 hours<br>Receiver: 6 hours              |



## Clip-on



## Handheld



## Desktop



## On-Camera

True AI Noise Cancellation  
Strong & Light Mode

## BOYA Magic

World's 1st Transformable  
AI-Powered Mini Wireless Microphone

## Noise Cancellation Evolution

1st Gen(DSP)

2nd Gen(ENC)

3rd Gen(AINC)

-10 dB

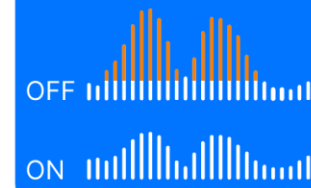
-15 dB

-40 dB

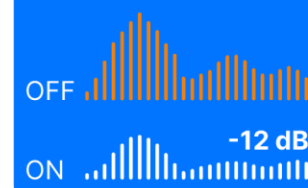
## Full-Range Clarity



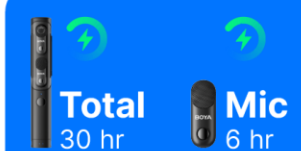
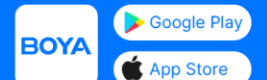
## Limiter



## Safety Track



Multi-Device Compatible

Total  
30 hrMic  
6 hr

BOYA Central

# Packing List



Transmitter  
× 2



USB-C  
Receiver  
× 1



Lightning  
Receiver  
× 1



Camera  
Receiver  
× 1



Charging Case  
× 1



USB-C to C  
Cable  
× 1



USB-C to A  
Cable  
× 1



3.5 mm TRS to TRS  
Cable  
× 1



Magnet  
× 2



Fur Windshield  
× 2



Foam Windscreen  
× 1



Microphone  
Windshield  
× 1



Carrying Bag  
× 1

# BOYA Magic

# SKU 02

# Packing List



Transmitter  
× 2



USB-C  
Receiver  
× 1



Camera  
Receiver  
× 1



Charging Case  
× 1



USB-C to C  
Cable  
× 1



USB-C to A  
Cable  
× 1



3.5 mm TRS to TRS  
Cable  
× 1



Magnet  
× 2



Fur Windshield  
× 2



Foam Windscreen  
× 1



Microphone  
Windshield  
× 1



Carrying Bag  
× 1

# BOYA Magic

## SKU 03

# Packing List



Transmitter  
× 2



USB-C  
Receiver  
× 1



Charging Case  
× 1



USB-C to A Cable  
× 1



Magnet  
× 2



Fur Windshield  
× 2



Foam Windscreen  
× 1



Microphone  
Windshield  
× 1



Carrying Bag  
(small)  
× 1

# BOYA Magic

# SKU 05



**Inspired to be innovative.**