

BOYA mini 2

**Upgraded Super Mini Wireless
Microphone with AI Noise Cancellation**



GUIDELINE

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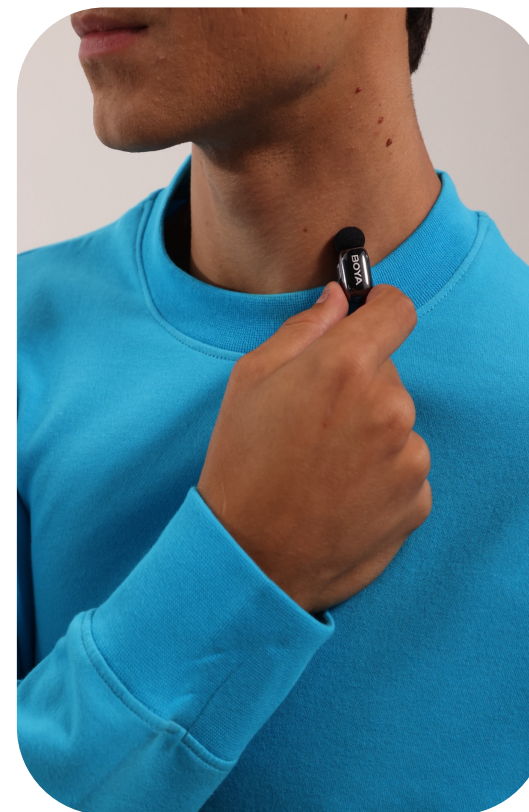
Beyond mini.



Overview

Introducing BOYA mini 2, a **5 g** thumb-sized wireless mic that still stays as small as the first gen yet delivers a powerful upgrade. Now available in sleek Matte Black and **Lunar Silver**, with aerospace-grade vacuum plating for lasting shine.

It unlocks **48 kHz / 24-bit** audio with true **AI-powered noise cancellation**, keeping voices pure and natural in any environments. An **80 dB signal-to-noise ratio** ensures clean, self-noise-free audio, while a **120 dB max SPL** handles sudden peaks effortlessly. With its advanced limiter and newly added **safety track**, BOYA mini 2 is your perfect companion for everyday content creation, live streaming, and interviews.



Highlights

- Still just **5 g** and thumb-sized, the smallest of its kind yet more powerful than before.
- Comes in sleek Matte Black and **Lunar Silver**, with aerospace-grade vacuum plating for lasting shine.
- A deep neural network chip enables true **AI noise cancellation** of up to **-40 dB**.
- Now in **48 kHz / 24-bit** with **80 dB SNR** for richer detail than the first-gen 16-bit.
- Enhanced distortion protection with built-in limiter plus a **-12 dB safety track**.
- **6-hour** battery per mic, up to **30 hours** total with charging case for worry-free recording.



BOYA

Take A Closer Look



An abstract graphic featuring a thick, curved swoosh that transitions from a vibrant green on the left to a bright yellow on the right. In the upper right corner, there is a solid orange circle. The entire composition is set against a solid blue background.

Explore the Full Story

Dive into the mini.

Weighing in at a mere 5 grams — the same as two pennies—the BOYA mini 2 is the lightest and most compact microphone you can get. Its streamlined design seamlessly blends with your clothing for complete concealment and all-day comfort.



Immersive Sound

AI Noise Cancellation Smarter than Ever



BOYA Intelligence

For the first time, BOYA mini delivers uninterrupted, immersive sound, dynamically optimizing noise cancellation to your surroundings and wearing conditions through BOYA Intelligence. Your voice remains pure, down to the finest detail, even in a noisy environment. Developed through AI machine learning with over 700,000 real-world noise samples and 20,000+ hours of deep training, our algorithm precisely detects and suppresses everything from wind, keyboard clicks, and clothing rustle to the roar of excavators and airplane engines—at millisecond speed.

* Data sourced from BOYA Sound Labs. In strong mode, the AI noise cancellation may slightly affect vocal naturalness. We recommend adjusting noise cancellation levels based on your environment and personal needs.

Trained on

700,000

noise samples

Refined

20,000

hours of deep learning

Up to

-40 dB

of cancellation depth

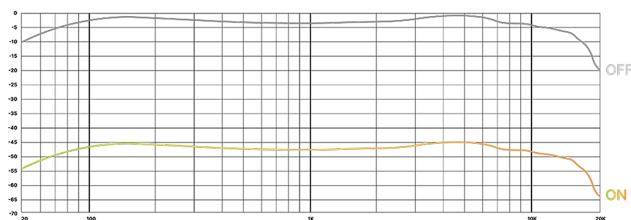
Stride forward, it's a breakthrough.

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.

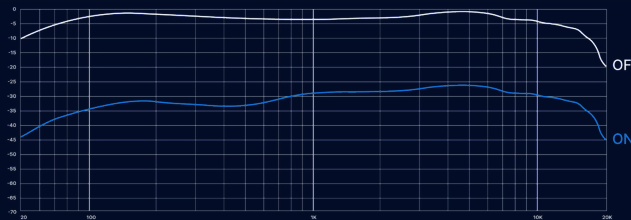
Limitation

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.

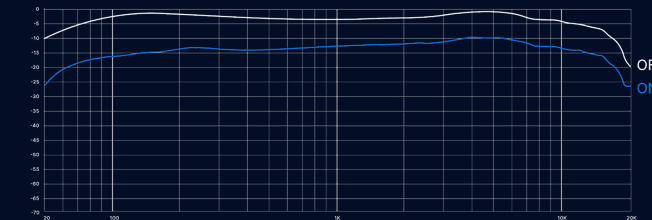
Limitation

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

Capture Every Detail. Elevated.

With a wide 20 Hz–20 kHz frequency response, BOYA mini 2 captures every detail with accuracy and clarity. Its **low-cut filter** automatically removes unwanted low-frequency noise, ensuring crystal-clear audio in any setting. Paired with a standard **foam windshield** for superior noise isolation, it delivers clean, professional sound no matter where you record.

48 kHz / 24-bit Resolution

BOYA mini 2 records at 48 kHz sampling and 24-bit depth—the same standard used in professional studios. This delivers richer dynamics, smoother highs, and fuller lows, ensuring every word and nuance of your voice is captured with lifelike accuracy.

80 dB Signal-to-Noise Ratio

The 80 dB SNR provides a lower noise floor, resulting in more true-to-life sounds. Even at full volume, there's no unwanted hum, electronic static, or background noise—making it ideal for streaming, meetings, and content creation.

120 dB Max Sound Pressure Level

From whispers to powerful vocals, BOYA mini 2 handles a wide dynamic range with ease. Its 120 dB SPL capability prevents distortion, keeping your sound pure even at high volumes.

Safety

Designed for Less Distortion

The BOYA mini 2 features an advanced **automatic limiter** that monitors audio in real-time and adjusts the volume to prevent sudden peaks from causing distortion, keeping recordings smooth and clear. With a **-12 dB safety track** as backup, you'll never lose a take to clipping or unexpected noise — ensuring every creation is protected and workflow stays efficient.





Personalized Recording

Take Total App Control

App Control gives you an easier way to quickly access mic settings. With the **BOYA Central**, adjust volume, enable noise cancellation, and customize EQ directly from your phone. Download it for free to unlock the full potential of BOYA mini 2.

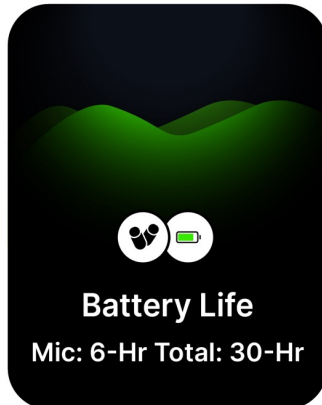
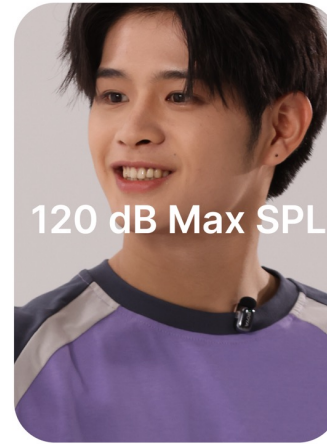
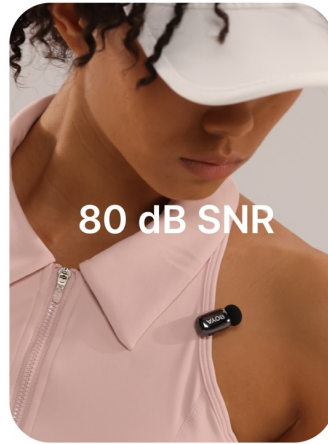
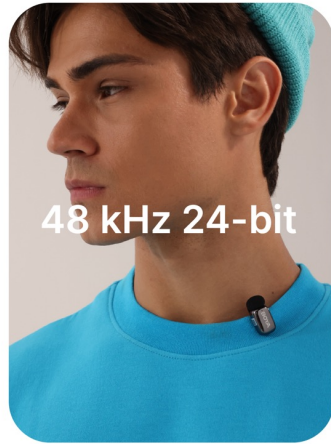
All-day Creativity

Long-Lasting Battery Life

Each transmitter delivers up to **6 hours** on a single charge and up to **30 hours** with the charging case — keeping you powered far longer before battery anxiety ever sets in.



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



Quick Specs



Sample Rate / Bit Depth	48 kHz / 24-bit
Signal-to-noise Ratio	80 dB
Max SPL	120 dB
Frequency Response	20 Hz - 20 kHz
Output Mode	Mono / Stereo / Safety Track
AI Noise Cancellation	Strong / Light
Playback	✓
Limiter	✓
Real-time Monitoring	✓
Transmission Range	Up to 100 m (without obstacles);
Built-in Mic	6 mm Condenser Microphone
Power Supply	Built-in Li-ion battery
Clip	Metal
Weight	TX: 5 g USB/Lightning RX: 2.5 g Charging Case: 29 g
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 Total: 30 hours

Packing List



Transmitter
x 2



USB-C Receiver
x 1



Lightning Receiver
x 1



Charging Case
x 1



USB-C to A Cable
x 1



Carrying Pouch
x 1

BOYA mini 2

SKU 01

Packing List



Transmitter
× 2



USB-C Receiver
× 1



Charging Case
× 1



USB-C to A Cable
× 1

BOYA mini 2

SKU 02

Packing List



Transmitter
x 2



Lightning Receiver
x 1



Charging Case
x 1



USB-C to A Cable
x 1

BOYA mini 2

SKU 03

Packing List



Transmitter
× 2



Magnetic
Charging Cable
× 2



USB-C Receiver
× 1



Carrying Pouch
× 1

BOYA mini 2

SKU 04

Packing List



Transmitter
x 1



USB-C Receiver
x 1



Charging Case
x 1



USB-C to A Cable
x 1

BOYA mini 2

SKU 05

Introducing BOYA

Inspired To Be Innovative

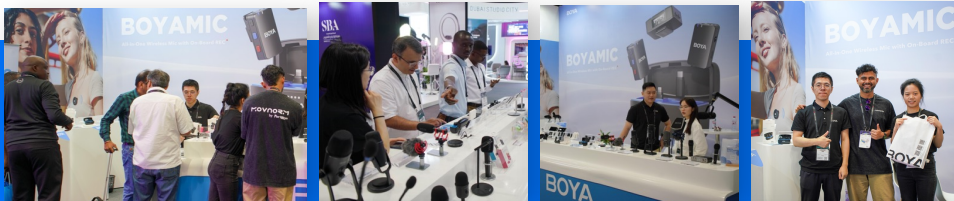
Established in 2012, BOYA brand, founded by three visionaries, crafts Innovative products tailored for content creators. Upholding principles of user experience, innovation, and excellence, BOYA introduces unique audio products globally, reaching **150+ countries**, connecting with **30M+ creators**, and backed by **400+ innovations** and **10+ design awards**. Our journey of creativity continues, saluting top players who share creativity in life.

Let's walk together toward the brighter world of sound.

BOYA STORY
2012-2025

Experienced in Exhibitions

BOYA as a prominent player in the global market, actively participating in significant exhibition events and maintaining a leading position in its field.



INTEGRATE ME SHOW

NAB SHOW

ELECTROLAR SHOW

BROADCAST ASIA



Worth-Knowing About BOYA



MUSE
DESIGN
AWARDS

1

MUSE Design
Awards Gold Winner



2

iF
Design Awards



5

Red Dot
Design Awards



GOLDEN
PIN
DESIGN
AWARD

1

Golden Pin
Design Award

MUSE Design Awards 2023
Gold Winner BOYAMIC



2021 Golden Point Design
Award BY-WM3



2023 iF Design Award
OMIC



2023 iF Design Award BY-
WM3



2022 reddot Design Award
BY-X3



2023 Reddot Design
Award Blobby Pro



2023 reddot Design Award
Omic



2022 reddot Design Award
Blobby



2023 reddot Design Award
BY-PM740





Inspired to be innovative.

