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BOYA BY-DM500

BOYA BY-DM500 Dynamic Broadcasting Microphone Instruction Manual

Model: BY-DM500 | Brand: BOYA

Introduction

The BOYA BY-DM500 is a high-quality dynamic broadcasting microphone designed for professional audio capture. Its robust metal construction and advanced features make it ideal for a variety of applications, including podcasting, streaming, gaming, voice-overs, and music recording. This manual provides detailed instructions for setting up, operating, and maintaining your BY-DM500 microphone to ensure optimal performance.

What's in the Box

- BY-DM500 Dynamic Broadcasting Microphone
- Foam Windscreen
- User Manual

Note: XLR cable, microphone stand, and audio interface/mixer are not included and must be purchased separately.

Image: The BOYA BY-DM500 microphone with its included foam windscreen, showcasing its sleek black design.

Key Features

- **Impressive Broadcast-Sound Quality:** Features a cardioid polar pattern and a built-in dynamic capsule for warm, smooth, clean, and natural vocals and music. Wide frequency response of 20Hz~20KHz.
- **Double Layer Noise Reduction:** Built-in dynamic core and inner double layer pop filter for excellent attenuation of plosives. The attached thickened windshield further reduces environmental/mechanical noise and breathiness.
- **Professional XLR Connection:** Utilizes an XLR interface for superior sound quality retention

and expansion. Connects to mixers for gain control and improved overall sound. (XLR cable not included)

- **Rugged Metal Design:** Professional and sturdy full-body metal construction ensures stable and excellent sound quality. Flexible swivel bracket and locking knob allow for desired pick-up angles. Compatible with arm stands with 3/8" or 5/8" threads.
- **Entry-Level Home Studio Ready:** Captures every detail of your voice with smoothness and depth, making recordings clearer and more natural. Widely applicable for broadcasting, dubbing, singing, live streaming, and gaming. No phantom power or driver required.

Setup

1. Mounting the Microphone

The BY-DM500 features a flexible swivel bracket with a locking knob for easy positioning. It is designed to be mounted on a microphone stand or boom arm. The microphone's mounting point supports both 3/8" and 5/8" threads, offering versatility for various setups.

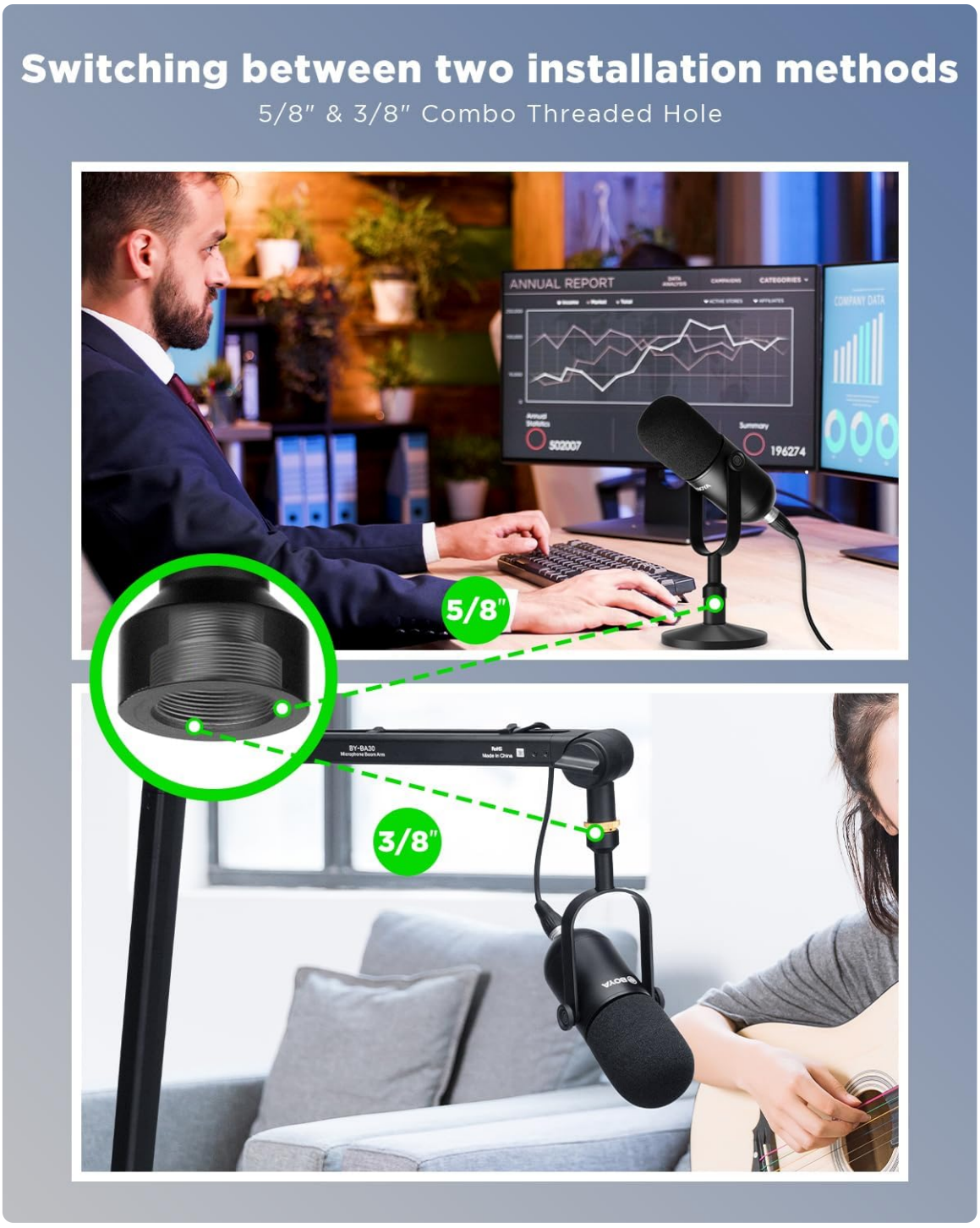


Image: The BOYA BY-DM500 microphone securely mounted on a desktop stand, ready for use.

Image: A close-up view highlighting the microphone's combo threaded hole, compatible with both 5/8" and 3/8" mounts.

2. Connecting to an Audio Device

The BY-DM500 uses a standard XLR connection for audio output. Connect one end of an XLR cable (not included) to the microphone's XLR port and the other end to your audio interface, mixer, or compatible device.

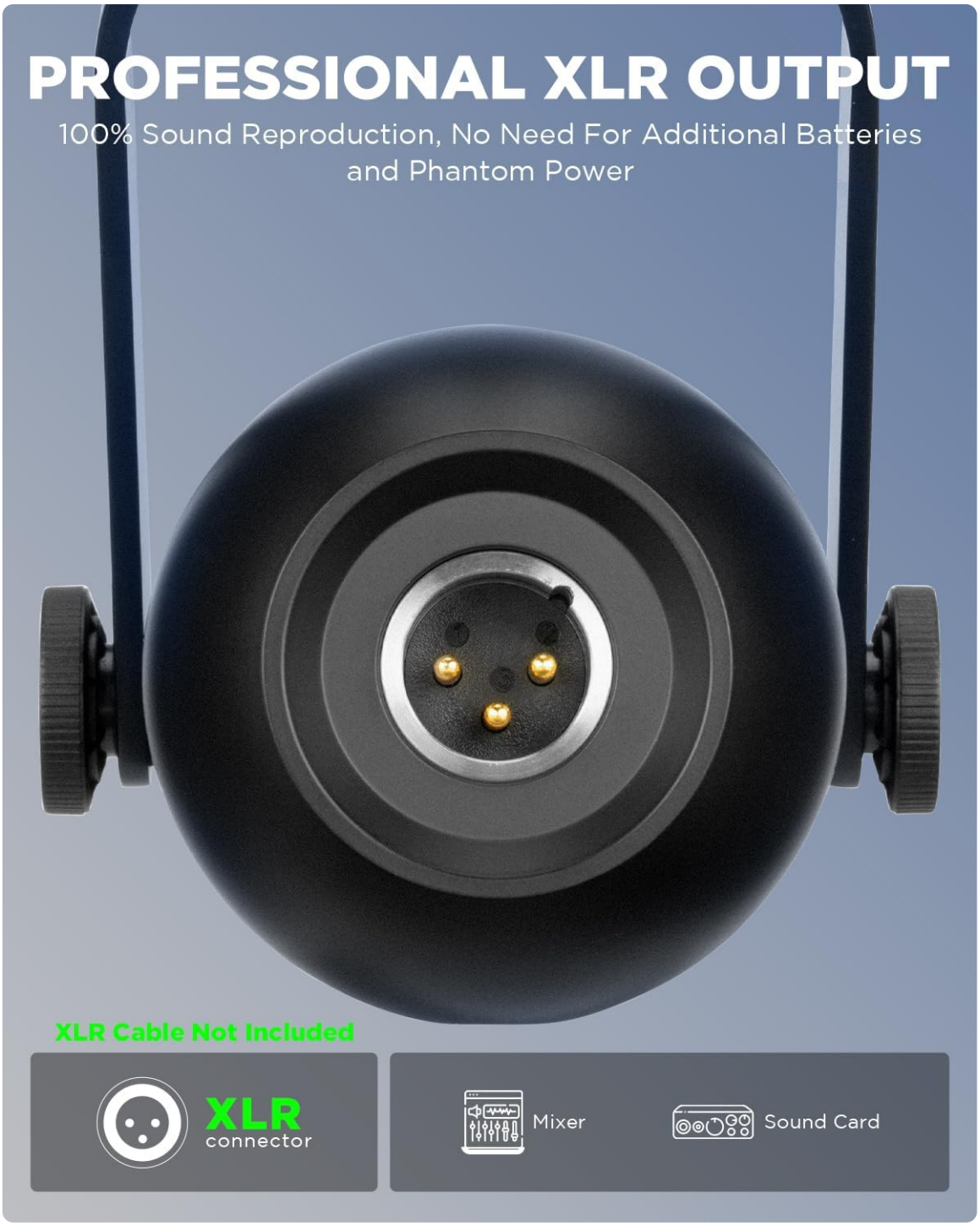
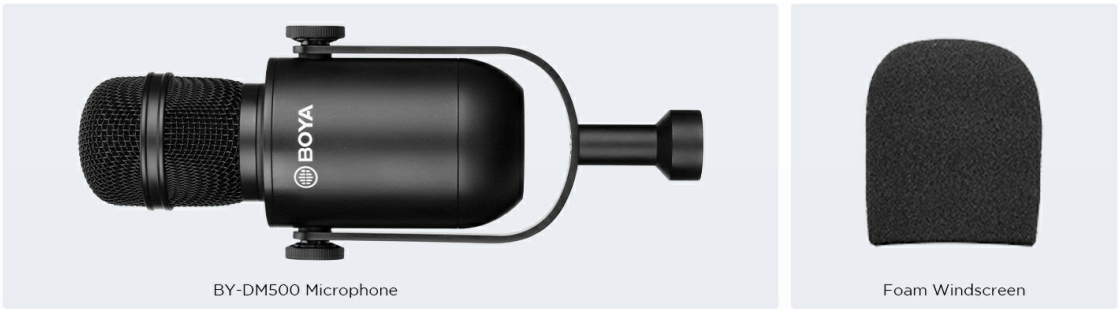


Image: A detailed view of the XLR output port on the BOYA BY-DM500 microphone.

For connecting to a computer or laptop, an audio interface or mixer with an XLR input is required. The microphone does not require phantom power or additional drivers.



WHAT'S IN THE BOX?

Image: A visual guide illustrating the connection path from the BY-DM500 microphone to an audio interface or mixer, and then to a computer or laptop.

Operating Instructions

Microphone Placement

The BY-DM500 features a cardioid polar pattern, meaning it primarily picks up sound from the front and rejects sound from the sides and rear. For optimal sound quality, ensure you speak directly into the top of the microphone. This directional pickup pattern helps to minimize background noise and focus on your voice.

Image: A diagram illustrating the cardioid pickup pattern of the microphone, emphasizing sound capture from the front.

Using the Windscreen

The included foam windscreen helps to attenuate plosives (harsh "p" and "b" sounds) and reduce breath noise. For best results, ensure the windscreen is properly fitted over the microphone capsule, especially when speaking or singing in close proximity.

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Video: Demonstration of the BY-DM500's windscreen effectiveness in blocking plosives. The video shows a user speaking into the microphone with and without the windscreen, highlighting the reduction in harsh sounds.

Applications

The BY-DM500 is versatile and suitable for:

- **Podcasting & Broadcasting:** Delivers clear, professional-grade vocals.
- **Streaming & Gaming:** Ensures your voice is heard clearly by your audience.
- **Voice-Over & Music Recording:** Captures nuances for studio-quality audio.

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Video: A demonstration showcasing the BY-DM500's performance for music and vocal recordings, highlighting its clear and rich sound capture.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the microphone body. Avoid using harsh chemicals or abrasive materials.
- **Windscreen Care:** The foam windscreen can be gently hand-washed with mild soap and water if it becomes dirty. Allow it to air dry completely before reattaching.
- **Storage:** When not in use, store the microphone in its original packaging or a protective case to prevent dust and damage.
- **Handling:** While robust, avoid dropping the microphone or subjecting it to strong impacts, as this can damage internal components.

Troubleshooting

Problem	Possible Cause	Solution
No Sound Output	Incorrect connection; Audio interface/mixer not powered on; Input gain too low.	Ensure XLR cable is securely connected. Verify audio interface/mixer is powered and input gain is set appropriately. Check computer audio settings.
Muffled or Distorted Sound	Incorrect microphone placement; Input gain too high (clipping); Damaged windscreen.	Speak directly into the top of the microphone. Reduce input gain on your audio device. Replace or clean the windscreen.

Problem	Possible Cause	Solution
Excessive Background Noise	Microphone picking up ambient sounds; Improper gain staging.	Ensure microphone is pointed away from noise sources. Adjust gain to optimal levels. Use the windscreen to reduce breath noise.
Plosives (harsh "p" and "b" sounds)	Lack of windscreen or improper use; Speaking too close to the microphone.	Ensure windscreen is properly fitted. Maintain a slight distance from the microphone.

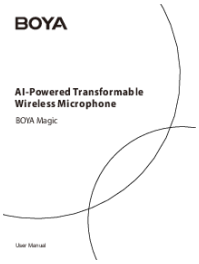
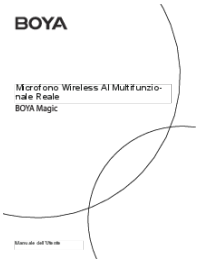
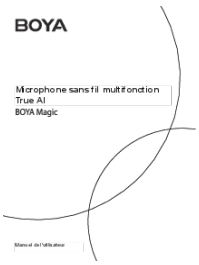
Specifications

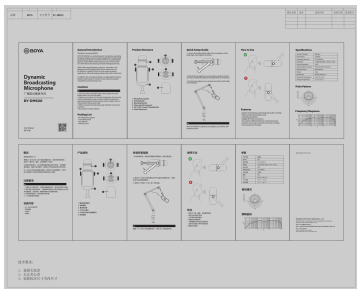
Specification	Value
Polar Pattern	Unidirectional (Cardioid)
Frequency Range	20Hz~20KHz
Audio Sensitivity	57 dB
Signal-to-Noise Ratio	60 dB
Connector Type	XLR
Material	Metal
Item Weight	8.8 ounces (250 Grams)
Dimensions	11.02 x 4.92 x 3.35 inches (Package)
Recommended Uses	Streaming/Podcasting/Gaming

Warranty and Support

BOYA provides a 2-year warranty for the BY-DM500 microphone. For any questions or support needs, please feel free to contact BOYA Support. Lifetime customer consultation service is also available.
For more information, visit the officialBOYA Store on Amazon.

Related Documents - BY-DM500

	BOYA Magic AI-Powered Transformable Wireless Microphone User Manual Comprehensive user manual for the BOYA Magic AI-Powered Transformable Wireless Microphone system, detailing its features, product structure, operation, specifications, and troubleshooting for content creators.
	BOYA Magic AI-Powered Transformable Wireless Microphone User Manual User manual for the BOYA Magic AI-Powered Transformable Wireless Microphone system. Details features, product structure, operation, troubleshooting, and specifications for transmitters, receivers (USB-C, Lightning, 3.5mm TRS), and charging case. Includes setup guides and technical data.
	BOYA BY-PM500W Wired/Wireless Dual-Function Microphone User Manual User manual for the BOYA BY-PM500W, a versatile dual-function microphone offering wired and wireless operation for gaming, streaming, and podcasting. Features selectable cardioid and omnidirectional polar patterns, headphone monitoring, and integrated controls.
	BOYA Magic: Manuale Utente del Sistema Microfono Wireless AI Multifunzionale Guida completa al sistema microfono wireless BOYA Magic. Scopri le caratteristiche, le specifiche tecniche, le istruzioni d'uso e la risoluzione dei problemi per creare contenuti audio di alta qualità.
	BOYA Magic AI Wireless Microphone System User Manual Comprehensive user manual for the BOYA Magic AI-powered 2.4GHz wireless microphone system, detailing features, setup, operation, and troubleshooting for content creators, vloggers, and mobile journalists.
	BOYA Magic: Manuel du Microphone Sans Fil Multifonction True AI Découvrez le BOYA Magic, un système de microphone sans fil 2,4 GHz multifonction avec IA. Ce manuel utilisateur détaille ses caractéristiques, son utilisation et son dépannage pour la création de contenu, le vlogging et le journalisme.



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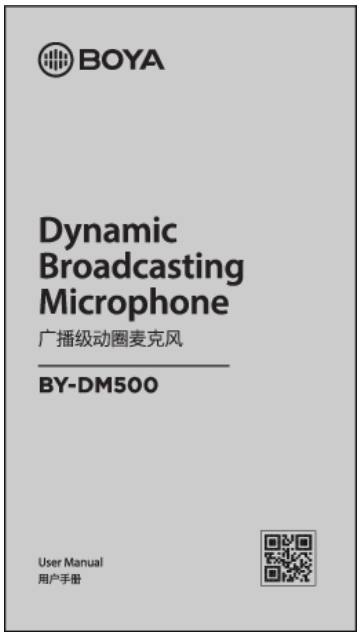

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