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## COMICA BoomX-D PRO D2(B)

# COMICA BoomX-D PRO Wireless Lavalier Microphone System User Manual

Model: BoomX-D PRO D2(B)

## 1. PRODUCT OVERVIEW

The COMICA BoomX-D PRO is a 2.4G digital dual-channel wireless microphone system designed for high-quality audio capture. It features internal recording capabilities with 16GB of memory, intelligent noise canceling, and versatile output modes (Mono, Stereo, Safety Track). This system is compatible with a wide range of devices including DSLR cameras, smartphones, and computers, making it ideal for various recording scenarios such as video production, live streaming, interviews, and more.



Figure 1.1: Overview of the COMICA BoomX-D PRO Wireless Microphone System and its accessories.

## 2. KEY FEATURES

- **Internal Recording with 16GB Memory:** Enables direct recording to the integrated 16GB memory, providing up to 48 hours of uncompressed audio. Older files are overwritten when memory is full.
- **Intelligent Denoise:** Features a built-in DPS chip for intelligent noise filtering and effective reduction of recording impact. One-click noise cancellation is available on transmitters.
- **Wide Compatibility:** Supports 3.5mm TRS/TRRS and USB-C digital audio output, compatible with cameras, phones, and computers.
- **Internal and Lavalier Mic Versatility:** Offers flexibility to use either the built-in internal microphone or an external lavalier microphone for audio capture.
- **Mono, Stereo, and Safety Track Output:** Provides versatile audio output choices, allowing switching between mono and stereo modes. Safety track mode includes a -6dB audio track for post-production flexibility.
- **656ft (200m) Wireless Range:** Ensures high-quality audio capture at significant distances.
- **48kHz/16bits Audio Recording:** High-fidelity audio recording with a 70dB signal-to-noise ratio.
- **12 Hours Runtime:** Extended battery life for prolonged use.
- **3-in-1 USB-C Cable:** Facilitates easy recharging and serves as an output cable for versatile connectivity. The orange

cable supports both charging and data transmission, while black cables are for charging only.

### 3. PACKAGE CONTENTS

The COMICA BoomX-D PRO system includes the following items:

- 2 x Lavalier Microphones
- 2 x Transmitters
- 1 x Receiver
- 1 x 3.5mm TRS-TRRS Audio Cable
- 1 x 3.5mm TRS-TRS Audio Cable
- 1 x 3-in-1 USB A-USB C Charging/Output Cable
- 1 x Carry Case



Figure 3.1: All components included in the BoomX-D PRO system package.

## 4. SETUP GUIDE

### 4.1 Charging the Devices

Before first use, fully charge the transmitters and receiver. Use the provided 3-in-1 USB-C cable to connect the devices to a power source (e.g., USB wall adapter, computer USB port). The orange cable supports both charging and data transfer, while the black cables are for charging only.



Figure 4.1.1: The transmitters and receiver connected to a power source for charging using the 3-in-1 USB-C cable.

### 4.2 Connecting to Recording Devices

The BoomX-D PRO offers versatile connectivity options:

- **For Cameras (DSLR/Mirrorless):** Use the 3.5mm TRS-TRS audio cable. Connect one end to the receiver's 'OUT' port and the other end to your camera's microphone input.
- **For Smartphones/Tablets (with 3.5mm jack):** Use the 3.5mm TRS-TRRS audio cable. Connect one end to the receiver's 'OUT' port and the other end to your smartphone's headphone/microphone jack.
- **For Smartphones/Tablets/Computers (with USB-C port):** The receiver supports USB-C digital audio output. Connect the receiver directly to your device's USB-C port using the orange 3-in-1 USB-C cable (data transfer enabled).



### 3.5mm TRS/TRRS Audio Output



Camera



GoPro



Smartphone



Laptop

### USB-C Digital Audio Output



Laptop



Smartphone



Mac book

Figure 4.2.1: The receiver's display illustrating the different audio output modes and their corresponding waveforms.

## 4.3 Pairing Transmitters and Receiver

The transmitters and receiver are typically pre-paired from the factory. If re-pairing is needed:

1. Turn on both the transmitter(s) and the receiver.
2. On the transmitter, long press the "Pair/Denoise Button" until the pairing indicator flashes.
3. The devices will automatically connect. A solid indicator light on both units confirms successful pairing.

## 4.4 Attaching Microphones

You can use either the built-in microphone on the transmitter or the external lavalier microphone:

- **Built-in Microphone:** Simply clip the transmitter to your clothing, ensuring the built-in microphone faces the sound source.
- **External Lavalier Microphone:** Plug the lavalier microphone into the 3.5mm MIC input port on the transmitter. Clip the lavalier microphone to your clothing, typically near the collar, and secure the transmitter to your belt or pocket using its

multi-functional belt clip.

## Internal Mic/Lavalier Mic Audio Input Optional



### Lavalier Mic Fixing Hole Design

To prevent the transmitter from accidentally falling/damaging

Figure 4.4.1: Demonstrates the use of both internal and external lavalier microphones with the transmitter.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off

Press and hold the power button on each transmitter and receiver to turn them on or off.

### 5.2 On-board Recording

The transmitters feature 16GB of internal memory for direct recording. To start/stop recording, short press the 'REC' button on the transmitter. The REC indicator will light up when recording is active. This feature provides a reliable backup in case of wireless interference or recording device issues.



Figure 5.2.1: The transmitter's display indicating active internal recording and remaining memory.

### 5.3 Noise Canceling Function

To activate or deactivate the intelligent noise canceling feature, short press the "Pair/Denoise Button" on the transmitter. This helps to filter out ambient noise for clearer audio.

# Intelligent Denoise Precise Pickup

Built-in DPS chip, intelligently filters noise and effectively reduces the impact of noise on recording



Figure 5.3.1: Visual representation of noise reduction and the location of the Denoise/Pair button.

## 5.4 Output Modes: Mono, Stereo, and Safety Track

The receiver allows you to switch between different output modes to suit your recording needs:

- **Mono Mode:** Combines audio from both transmitters into a single mono track.
- **Stereo Mode:** Separates audio from each transmitter into distinct left and right channels, providing a stereo output.
- **Safety Track Mode:** Records a primary audio track and a secondary track at -6dB. This provides a safety net against unexpected loud sounds that might cause clipping on the main track.

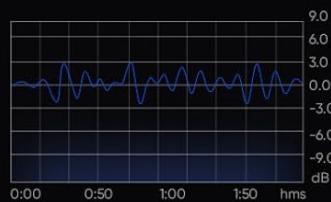
Use the 'MODE' button on the receiver to cycle through these options. Note that the stereo function is not available in single-channel or safety mode.

# Mono/Stereo/Safety Switch

Please attention that it can not realize STEREO function when in single-channel and safety mode

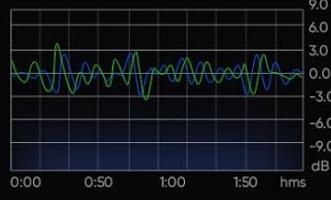
Mono Mode

L/R -



Stereo Mode

R- L-



Safety Track Mode

R- L-

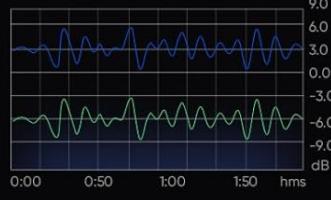


Figure 5.4.1: The receiver's display illustrating the different audio output modes and their corresponding waveforms.

## 5.5 Audio Monitoring

The receiver features a 3.5mm headphone jack for real-time audio monitoring. Connect headphones to this port to listen to the audio being captured, ensuring optimal levels and clarity during recording.

## 5.6 Transferring Recorded Files

To transfer files from the transmitter's internal memory to your computer:

1. Ensure the transmitter is powered on.
2. Connect the transmitter to your computer using the orange 3-in-1 USB-C cable (data transfer enabled).
3. The transmitter will appear as a removable drive on your computer. You can then copy the recorded audio files (WAV format) to your desired location.



Figure 5.6.1: The process of transferring recorded audio files from the transmitter to a computer.

## 6. MAINTENANCE

- Keep the devices dry. Do not expose them to rain or moisture.
- Store in a cool, dry place.
- Do not disassemble the unit. Unauthorized service will void the warranty.
- Clean the devices with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- Protect the microphone capsules from dust and debris. Use the provided wind muffs for external lavalier mics when recording outdoors.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No audio output	Incorrect cable connection; Low battery; Not paired; Incorrect output mode.	Check all cable connections; Charge devices; Re-pair transmitters and receiver; Ensure correct output mode (Mono/Stereo).
Audio dropouts/interference	Obstacles between transmitter/receiver; Too far from receiver; Strong 2.4Ghz interference.	Reduce distance; Ensure clear line of sight; Avoid areas with strong Wi-Fi or other 2.4Ghz devices.
Distorted audio	Input level too high; Noise canceling active in quiet environment.	Adjust input gain on transmitter/receiver or recording device; Deactivate noise canceling if not needed. Consider using Safety Track mode.
Internal recording not working	Memory full; Recording not initiated.	Ensure sufficient memory (older files are overwritten); Press the 'REC' button to start recording.

## 8. SPECIFICATIONS

Feature	Detail
Wireless Type	2.4GHz Digital
Internal Memory	16GB (up to 48 hours uncompressed audio)
Audio Recording	48kHz/16bits
Wireless Range	Up to 656ft (200m) in open areas
Signal-to-Noise Ratio	70 dB
Battery Life	Approx. 12 hours (Transmitter), 8 hours (Receiver)
Charging Port	USB-C
Output Interface	3.5mm TRS/TRRS, USB-C Digital
Microphone Type	Internal Mic and Lavalier Mic (Omnidirectional)
Dimensions (Transmitter/Receiver)	Approx. 39 x 22 x 55mm
Weight (Transmitter/Receiver)	Approx. 29g (1.02 ounces)

## 9. OFFICIAL PRODUCT VIDEOS

Watch these official videos for a visual guide on setting up and using your COMICA BoomX-D PRO system.

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Video 9.1: "BoomX-D Pro 2.4G Wireless Mic with 8G Internal Recording" - This video provides an overview of the microphone system, highlighting its 2.4G wireless capabilities and internal recording feature.

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Video 9.2: "BoomX-D Pro 2.4Ghz on board" - This video demonstrates the on-board recording functionality and other key features of the BoomX-D Pro system.

## 10. WARRANTY AND SUPPORT

COMICA products are designed for reliability and performance. For warranty information and technical support, please refer to the official COMICA website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, visit the [COMICA Store on Amazon](#).