

SMALLRIG 4706

SMALLRIG S60 Wireless Lavalier Microphone User Manual

Model: 4706

1. INTRODUCTION

The SMALLRIG S60 Wireless Lavalier Microphone is a compact and high-performance audio recording solution designed for content creators, vloggers, and interviewers. Its button-sized transmitter offers discreet wearability, while advanced technology ensures high-definition audio capture with effective noise reduction and stable signal transmission over long distances. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your S60 microphone system.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- Microphone Transmitter (TX) x 2
- Receiver (RX) x 1
- Charging Case x 1
- Adhesive Pad x 2
- Adhesive Neck Strap x 2
- Back Clip x 2
- Furry Windscreen x 2
- USB-C Charging Cable x 1
- User Manual x 1

Package List

SmallRig mini Wireless Microphone S60 ID 4706 (White)

Microphone Transmitter x 2
Receiver x 1
Charging Case x 1
Adhesive Pad x 2
Adhesive Neck Strap x 2
Back Clip x 2
Windscreen x 2
USB-C Charging Cable x 1
User Manual x 1



Specifications

Product Net Weight (Transmitter): 7.9g / 0.28oz
Product Net Weight (Transmitter & Receiver & Charging Case): 93.5g / 3.3oz
Product Gross Weight: 287.0 ± 40.0g / 10.1 ± 1.4oz
Transmitter Dimensions: $\phi 26.0 \times 10.0$ mm / $\phi 1.0 \times 0.4$ in
Receiver Dimensions: 38.0 (L) \times 15.0 (W) \times 8.0mm (H) / 1.5 (L) \times 0.6 (W) \times 0.3in (H)
Charging Case Dimensions: $\phi 70.0 \times 24.0$ mm / $\phi 2.75 \times 0.94$ in
Package Dimensions: 108.0 \times 108.0 \times 70.0mm / 4.2 \times 4.2 \times 2.7in
Material(s): PC + ABS + Magnet Operating Power: 45.5 mW
Standby Power: 38.5 μ W Wireless Frequency: 2.4 GHz
Wireless Transmission Distance: 300m / 984.2ft (Unobstructed)
Charging Case USB-C Input: 5V / 1A (Max 5W)
Transmitter 3-Pin Input: 5V / 0.08A (Max 0.4W)
Battery Parameters (Transmitter): 3.87V / 97mAh / 0.3753Wh
Battery Parameters (Charging Case): 3.87V / 1000mAh / 3.87Wh
Charging Temperature: 0°C to 45°C / 32°F to 113°F
Operating Temperature: -10°C to 45°C / 14°F to 113°F

Figure 2.1: Overview of the SmallRig S60 Wireless Lavalier Microphone package contents.

3. PRODUCT OVERVIEW

The SMALLRIG S60 system consists of two miniature transmitters (TX), one receiver (RX), and a portable charging case. The transmitters are designed for discreet attachment, while the receiver connects to your recording device via USB-C. The charging case provides extended battery life and convenient storage.



Figure 3.1: Exploded view of the SmallRig S60 Wireless Lavalier Microphone system, highlighting the transmitter, receiver, and charging case.

4. SETUP

4.1 Initial Charging

Before first use, fully charge the charging case and both transmitters. Connect the USB-C charging cable to

the charging case and a power source. Place the transmitters into the charging case. The indicator lights will show charging status.

4.2 Automatic Pairing

The transmitter(s) and receiver are designed to automatically pair with each other upon activation. Simply remove them from the charging case, and they will attempt to establish a connection. Ensure your recording device (Android phone, iPhone 16/15, action camera) is ready to receive audio input via its USB-C port.

5. OPERATING INSTRUCTIONS

5.1 Recording

Once the transmitter(s) and receiver are paired and the receiver is connected to your device, you can begin recording. The system provides clean and sharp sound output at 48 kHz / 24-bit quality.

High-Definition Quality

Customized omnidirectional 3-pin microphone effectively reduces electromagnetic interference and noise



48 kHz / 24-bit
Audio Recording

74dB
74dB Signal-to-Noise Ratio

120
dB SPL

300m
Stable Signal Transmission Up to 300m / 984.2ft

*DSP chip enables noise reduction for enhanced audio details and a wider dynamic range

Figure 5.1: High-Definition Audio Quality features of the SmallRig S60.

5.2 Mute Function

To mute the microphone, double-tap the transmitter. Double-tap again to unmute. This feature allows for quick and convenient audio control during recording or live streaming.

5.3 Gain Adjustment

The receiver features a 3-level gain adjustment. Use this control to fine-tune the audio input level to suit your recording environment and desired volume. Adjusting the gain helps prevent audio clipping and ensures optimal sound quality.

User-Friendly Sound Control

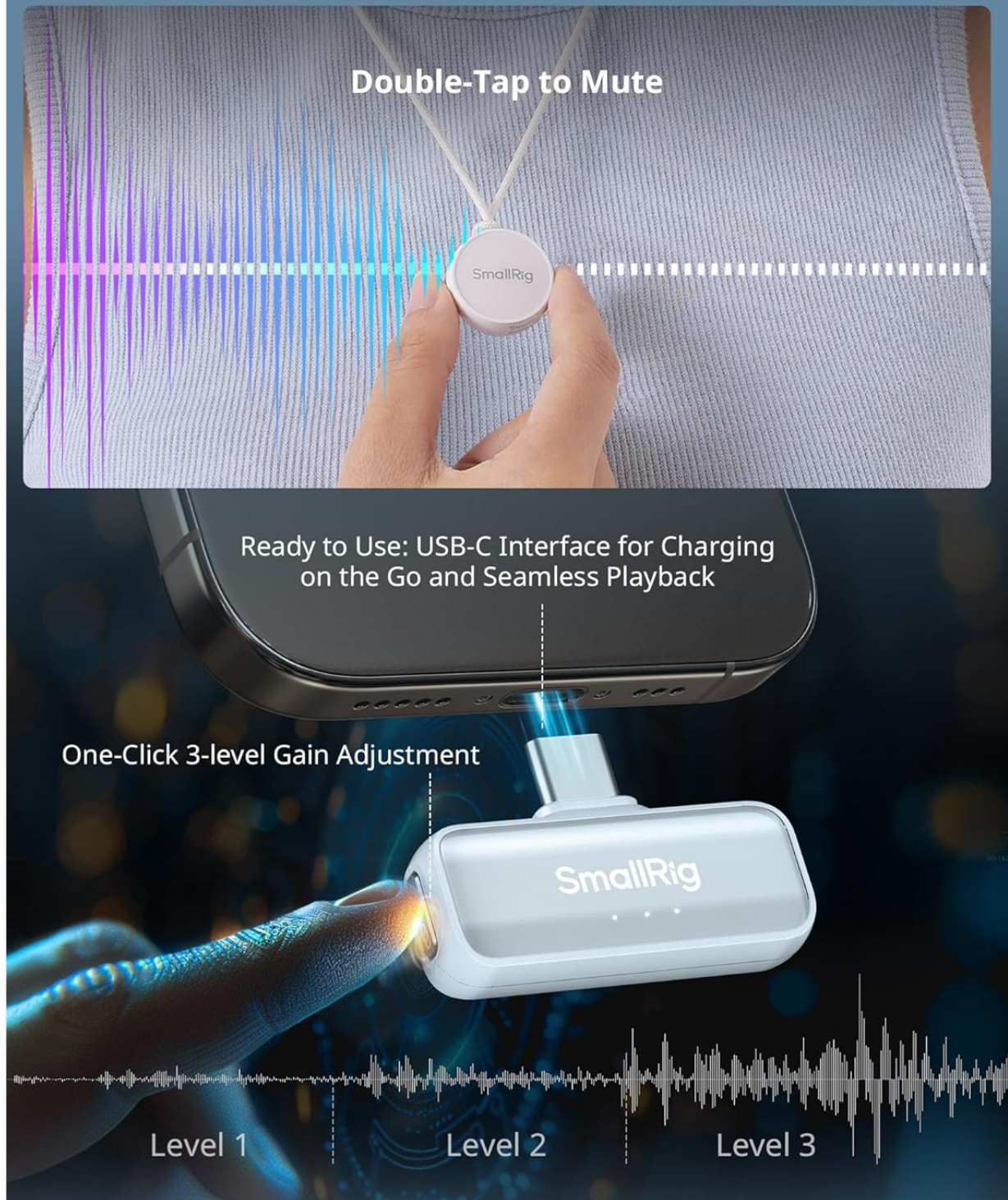


Figure 5.2: Mute and Gain Adjustment controls.

6. CHARGING AND BATTERY LIFE

The transmitter (TX) provides approximately 11 hours of battery life per charge. When combined with the charging case, the total battery life extends to nearly 44 hours, offering extended usage for long recording sessions without frequent recharging.

Extended Battery Life

1000mAh battery cell ensures
11H of work per mic,
providing up to 44H of total battery life

44h



1000mAh

*Data sourced from SmallRig lab

Figure 6.1: Battery life and charging case capacity.

7. VERSATILE WEARING OPTIONS

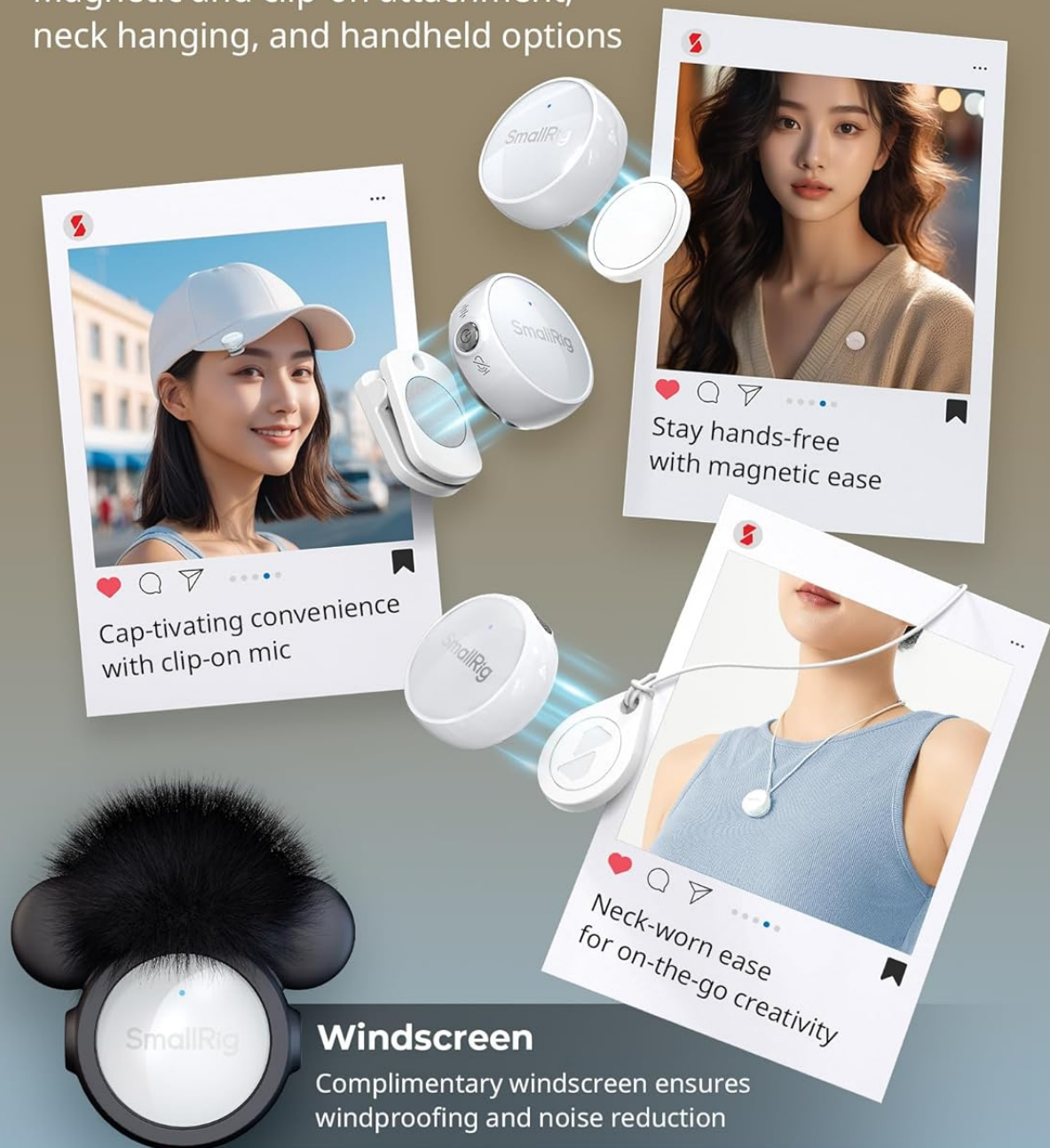
The SMALLRIG S60 offers multiple wearing options to suit various recording scenarios:

- **Collar Magnetic Attachment:** For quick and easy placement on clothing.
- **Neck Hanging:** Use the adhesive neck strap for a comfortable, hands-free option.
- **Handheld:** The compact size allows for direct handheld use.
- **Clip-on Styles:** Utilize the back clip for secure attachment to lapels or pockets.

Additionally, the included furry windscreens can be affixed to a silicone mount for effective windproofing and noise reduction in outdoor or windy environments.

Versatile Wearing Options

Magnetic and clip-on attachment, neck hanging, and handheld options



Windscreen

Complimentary windscreen ensures windproofing and noise reduction

*Secure and stable magnetic attraction, ensuring seamless signal transmission without interruptions

Figure 7.1: Different ways to wear and use the SmallRig S60 microphone.

Show Your Voice



Figure 7.2: Examples of the SmallRig S60 in various recording scenarios.

8. MAINTENANCE

To ensure the longevity and optimal performance of your SMALLRIG S60 Wireless Lavalier Microphone, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the microphone transmitters, receiver, and charging case. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the microphone system in its charging case when not in use to protect it from dust and physical damage. Store in a cool, dry place away from direct sunlight and extreme temperatures.

- **Battery Care:** For long-term storage, it is recommended to charge the batteries to approximately 50% every three months to maintain battery health.
- **Avoid Moisture:** Do not expose the devices to water or high humidity. The S60 is not waterproof.

9. TROUBLESHOOTING

If you encounter issues with your SMALLRIG S60 microphone, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound output	Microphone muted; Not paired; Low battery; Incorrect connection.	Double-tap transmitter to unmute; Ensure TX and RX are paired; Charge devices; Verify receiver is securely connected to recording device.
Poor audio quality / Distortion	Gain too high/low; Environmental noise; Obstruction in signal path.	Adjust gain level on receiver; Use furry windscreen in windy conditions; Reduce distance between TX and RX; Ensure no major obstructions.
Intermittent connection	Out of range; Interference; Low battery.	Move closer to receiver (within 300m unobstructed); Avoid areas with strong electromagnetic interference; Charge devices.
Device not charging	Cable issue; Power source issue; Improper placement in case.	Try a different USB-C cable and power adapter; Ensure devices are correctly seated in the charging case.

10. SPECIFICATIONS

Feature	Detail
Microphone Form Factor	Mini
Item Dimensions (L x W x H)	2.76 x 2.76 x 0.94 inches
Power Source	Battery Powered
Number of Batteries	1 AA batteries required (included)
Signal-to-Noise Ratio	74 dB
Number of Channels	1
Item Weight	3.58 ounces (101.4 Grams)
Model Number	4706
Connectivity Technology	Bluetooth
Connector Type	USB Type-C



Feature	Detail
Special Feature	1-Touch Recording
Compatible Devices	Smartphone
Color	White
Polar Pattern	Unidirectional
Recommended Uses	Streaming
Battery Type	Lithium Ion
Wireless Transmission Distance	300m / 984.2ft (Unobstructed)
Wireless Frequency	2.4 GHz
Operating Temperature	-10°C to 45°C / 14°F to 113°F

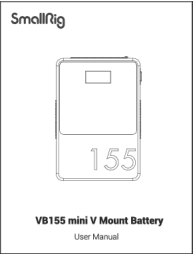

11. WARRANTY AND SUPPORT

SMALLRIG is committed to providing high-quality products and customer satisfaction. For any inquiries or technical assistance regarding your S60 Wireless Lavalier Microphone, please contact SMALLRIG customer support. Inquiries will typically be responded to within 24 hours. Please refer to the official SMALLRIG website or your purchase documentation for detailed warranty information.

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Related Documents

	<p>SmallRig NP-W126S USB-C Rechargeable Camera Battery - Specifications and Manual</p> <p>Comprehensive specifications, operating instructions, and warranty details for the SmallRig NP-W126S USB-C Rechargeable Camera Battery. Includes technical data, usage guidelines, and service information.</p>
	<p>SmallRig VB99 Pro mini V Mount Battery User Manual & Specifications</p> <p>Comprehensive user manual and technical specifications for the SmallRig VB99 Pro mini V Mount Battery, detailing its features, operation, safety, and specifications.</p>

	<p>SmallRig VB155 Mini V Mount Battery User Manual - 155Wh High-Capacity Power Solution</p> <p>Comprehensive user manual for the SmallRig VB155 Mini V Mount Battery. Learn about its features, specifications, charging protocols, safety warnings, and operation for powering cameras, monitors, and other video equipment.</p>
	<p>SmallRig NP-F Battery Adapter Plate Professional Edition 3168: User Guide</p> <p>Detailed user manual for the SmallRig NP-F Battery Adapter Plate Professional Edition (Model 3168). Covers package contents, selecting compatible dummy battery cables for various camera models, mounting procedures, operation, and charging functions for reliable camera power solutions.</p>

Documents - SMALLRIG – 4706



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