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SMALLRIG 5374

SmallRig RS20 Mini Camera Flash User Manual

Model: 5374

1. INTRODUCTION AND OVERVIEW

The SmallRig RS20 Mini Camera Flash is a compact and powerful GN12 speedlite designed for mirrorless cameras, offering professional-grade lighting in a portable form factor. It features a built-in 2000mAh battery, an intuitive OLED screen for precise control, and rapid recycling times, making it ideal for various photography scenarios.



The SmallRig RS20 Mini Camera Flash, showcasing its design and compact nature.

Key features include:

- **Pro-Brightness in Palm Size:** Delivers 200W COB Light-equivalent output at only 4.5oz (128g).
- **Long Battery Life:** 2000mAh lithium battery supports 500+ flashes at maximum power, with a 3-hour full charge time via USB-C.
- **Fast Recycling Time:** Achieves 0.1s recycle at minimum power and 1.8s at full burst.
- **OLED Display Precision Control:** Intuitive interface with 8 power levels and 22 steps (1/1 to 1/128 plus 0.3-step fine-tuning).
- **Universal Hot Shoe Compatibility:** Mounts directly onto mirrorless cameras from Canon, Sony, Nikon, Fujifilm, and Olympus without adapters.
- **Wireless Multi-Flash Sync:** Supports advanced optical synchronization for professional lighting setups.

2. WHAT'S IN THE BOX

Verify that all components are present in the package:

- Flash x 1
- USB-C Charging Cable x 1
- Storage Bag x 1
- Operating Instruction x 1

SmallRig RS20 mini Speedlite Flash

ID 5374

Mini Flash × 1

Storage Bag × 1

USB-C Charging Cable × 1

Operating Instruction × 1



Product Dimensions: 46.0 × 71.0 × 73.0mm / 1.8 × 2.8 × 2.9in

Package Dimensions: 120.0 × 112.0 × 60.0mm / 4.7 × 4.4 × 2.4in

Product Weight: 128.0 ± 5.0g / 4.5 ± 0.2oz

Package Weight: 227.0 ± 5.0g / 8.0 ± 0.2oz

Material(s): ABS plastic

Battery Capacity: 3.7V 2000mAh

Charging Power: 5V 1A

Charging Time: 3 hours

Guide Number: GN12

Color Temperature: 6500K

Flash Count (Max Power): 500 shots

Recycle Time (Max Power): 1.8 sec

Power Adjustment Levels: 8 stops

Max Sync Speed: 1/250 sec

Included components: SmallRig RS20 Mini Flash, storage bag, USB-C charging cable, and operating instructions.

3. SETUP

3.1 Charging the Battery

Before first use, fully charge the built-in 2000mAh lithium battery. Use the provided USB-C charging cable and connect it to a 5V 1A power source. A full charge typically takes approximately 3 hours.

Long Battery Life for A Complete Shooting

500+

Full-Power
Flashes

3h

Charging
Time



2000mAh

Built-in 2000mAh USB-C Rechargeable Battery
(USB-C cable included)

The RS20 flash boasts a 2000mAh battery, providing over 500 full-power flashes and charging fully in 3 hours.



Charging the SmallRig RS20 Mini Flash using the USB-C port.

3.2 Mounting the Flash

The SmallRig RS20 Mini Flash is designed with a universal single contact hot shoe, ensuring broad compatibility with most mirrorless cameras from brands like Canon, Sony, Nikon, Fujifilm, and Olympus.

1. Ensure your camera is powered off.
2. Slide the hot shoe mount of the RS20 flash into your camera's hot shoe slot until it clicks securely into place.
3. Ensure the flash is firmly seated to maintain a stable connection.

Fits Mirrorless Camera with standard hot shoe mount



Mounting the SmallRig RS20 Mini Flash onto a camera's hot shoe.



The RS20 flash is compatible with standard hot shoe mounts on mirrorless cameras.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

Locate the power switch on the side of the flash unit. Slide it to the 'ON' position to power on the device. Slide it to the 'OFF' position to power off.

4.2 Adjusting Power Levels

The RS20 features an intuitive OLED display for precise control over flash output. It offers 8 power levels and 22 steps, ranging from 1/1 (full power) to 1/128, with 0.3-step fine-tuning capability.

- Use the 'MODE' button to cycle through available modes (e.g., Manual, Optical Slave).
- Use the '+' and '-' buttons to adjust the flash power output according to your lighting needs. The OLED screen will display the current power setting.

OLED Intuitive Operation

From full blast (1/1) to subtle glow (1/128)
with 0.3-step fine-tuning

8-Stop, 22-Step
Power Level Adjustment



Adjusting flash power levels via the OLED display.

4.3 Recycling Time

The RS20 Mini Flash boasts a fast recycling time, allowing for rapid consecutive shots. It can recycle in 0.1 seconds at minimum power and 1.8 seconds at full power, enabling the capture of up to 8 photos within 3 seconds.

Recycling Speed Increases By
50%-70%
Improve Shooting Efficiency

Min Power - 0.1sec

Max Power - 1.8sec



The RS20's rapid recycling time allows for capturing fast-action sequences.

▶ Never Miss a Moment !

500+ Shots at Full Power Per Charge



Capture multiple shots quickly with the RS20's efficient recycling.

4.4 Wireless Multi-Flash Sync

The RS20 supports advanced optical synchronization, allowing you to build professional multi-flash lighting setups. You can designate units as transmitters or responders for complex lighting scenarios such as 3-point studio portraiture or 360° product shoots.

Multi-Scene Use for Day or Night

Color Temperature

6500K

Max Sync Speed

1/250 sec

Guide Number

GN12



The RS20 Mini Flash is versatile for multi-scene shooting, including studio, wedding, and outdoor photography.

SmallRig RS20 mini Speedlite Flash

ID 5374

- Mini Flash × 1
- Storage Bag × 1
- USB-C Charging Cable × 1
- Operating Instruction × 1



Product Dimensions: 46.0 × 71.0 × 73.0mm / 1.8 × 2.8 × 2.9in
Package Dimensions: 120.0 × 112.0 × 60.0mm / 4.7 × 4.4 × 2.4in
Product Weight: 128.0 ± 5.0g / 4.5 ± 0.2oz
Package Weight: 227.0 ± 5.0g / 8.0 ± 0.2oz
Material(s): ABS plastic

Battery Capacity: 3.7V 2000mAh
Charging Power: 5V 1A
Charging Time: 3 hours
Guide Number: GN12
Color Temperature: 6500K

Examples of multi-scene shooting with the RS20 mini flash.

5. MAINTENANCE

To ensure the longevity and optimal performance of your SmallRig RS20 Mini Camera Flash, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the flash. For stubborn dirt, slightly dampen the cloth with water. Avoid using strong detergents or solvents.
- **Storage:** When not in use, store the flash in its provided storage bag in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Care:** If storing for extended periods, charge the battery to approximately 50% every three months to preserve battery health.
- **Avoid Impact:** Protect the flash from drops and impacts, which can damage internal components.

6. TROUBLESHOOTING

If you encounter issues with your SmallRig RS20 Mini Camera Flash, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Flash does not power on.	Battery is depleted or not charged.	Charge the flash using the USB-C cable. Ensure the power switch is in the 'ON' position.
Flash does not fire.	Incorrect mounting or poor hot shoe contact. Flash is in an incompatible mode.	Ensure the flash is securely mounted on the camera's hot shoe. Check the flash mode settings on the OLED display.

Problem	Possible Cause	Solution
Slow recycling time.	Battery is low. Flash is set to full power.	Recharge the battery. Reduce the flash power output.
OLED display is blank or unresponsive.	Device malfunction.	Try powering the unit off and on again. If the issue persists, contact customer support.

If the problem persists after attempting these solutions, please contact SmallRig customer support for further assistance.

7. SPECIFICATIONS

Detailed technical specifications for the SmallRig RS20 Mini Camera Flash (Model: 5374):

Specification	Value
Product Dimensions	2.8 x 2.9 x 1.8 inches (46.0 × 71.0 × 73.0mm)
Item Weight	4.5 ounces (128.0 ± 5.0g)
Model Number	5374
Battery Type	Nonstandard Battery (included)
Battery Capacity	3.7V 2000mAh
Charging Power	5V 1A
Charging Time	3 hours
Flash Count (Max Power)	500 shots
Recycle Time (Max Power)	1.8 seconds
Power Adjustment Levels	8 stops (1/1 to 1/128)
Guide Number	GN12
Color Temperature	6500K
Max Sync Speed	1/250 sec
Compatible Mountings	Universal Hot Shoe Mount
Material	ABS plastic

Capture Every Split-
Second Moment - Ideal
for Action Shots!

GN12 | **8 f Stops** | **1/250 sec**
ISO 100 | Power Level | Shutter Sync Speed




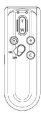
Overview of SmallRig RS20 Mini Camera Flash specifications.


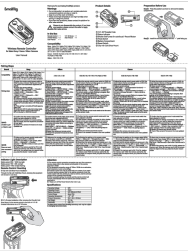

8. WARRANTY AND SUPPORT

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

For additional resources and product information, visit the [Official SmallRig Store on Amazon](#).

Related Documents - 5374

<div><div>SmallRig</div><div><div>Control panel</div><div>Buttons</div><div>Indicator lights</div><div>Mounting bracket</div><div>Mounting screws</div><div>Mounting plate</div><div>Mounting plate screws</div><div>Mounting plate</div><div>Mounting plate</div></div><div></div><div><div>RS20 mini Speedlite Flash</div><div>RS20 mini 闪光灯</div></div></div>	<p>SmallRig RS20 mini Speedlite Flash Operating Instructions</p> <p>Comprehensive guide to operating the SmallRig RS20 mini Speedlite Flash, covering interface overview, power settings, M mode, and optical triggering (S1/S2). Includes safety precautions and product specifications.</p>
<div><div>SmallRig</div><div><div>SR-RG2 Wireless Remote Controller</div><div>SR-RG2 无线遥控器</div></div><div></div><div><div>SR-RG2 Wireless Remote Controller</div><div>SR-RG2 无线遥控器</div></div></div>	<p>SmallRig SR-RG2 Wireless Remote Controller Operating Instructions</p> <p>This document provides operating instructions for the SmallRig SR-RG2 Wireless Remote Controller, covering product details, specifications, indicator light descriptions, pairing steps for Sony, Nikon, and Canon cameras, and app update information.</p>

<div data-bbox="130 105 186 125">SmallRig</div> <div data-bbox="161 284 268 333"><p>NP-F Battery Adapter Plate Professional Edition User Manual</p></div>	<div data-bbox="341 257 1206 286">SmallRig NP-F Battery Adapter Plate Professional Edition 3168: User Guide</div> <div data-bbox="341 297 1441 443"><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></div>
<div data-bbox="130 656 193 674">SmallRig</div> <div data-bbox="134 716 293 815"></div> <div data-bbox="154 846 272 875"><p>Universal Mount Plate for AirTag / SmartTag2</p></div>	<div data-bbox="341 703 1090 732">SmallRig Universal Mount Plate for AirTag / SmartTag2 MD5422</div> <div data-bbox="341 743 1474 851"><p>Operating instructions and specifications for the SmallRig Universal Mount Plate (MD5422), designed to securely hold Apple AirTag or Samsung SmartTag2 for camera tracking. Features Arca-Swiss compatibility, 1/4"-20 mounting points, and detailed safety and compatibility information.</p></div>
<div data-bbox="121 943 309 1193"></div>	<div data-bbox="341 999 1383 1028">SmallRig 3902 Wireless Remote Controller for Sony, Canon, Nikon Cameras - User Manual</div> <div data-bbox="341 1039 1474 1146"><p>User manual for the SmallRig 3902 Wireless Remote Controller, designed for seamless operation with select Sony, Canon, and Nikon cameras. Learn about setup, features, and usage for enhanced photography and videography.</p></div>
<div data-bbox="130 1243 193 1261">SmallRig</div> <div data-bbox="140 1290 293 1415"></div> <div data-bbox="122 1435 300 1462"><p>L-Shape Mount PLate with Handle (for Sony RX100 III IV V VI VII)</p></div>	<div data-bbox="341 1292 1265 1321">SmallRig L-Shaped Wooden Grip for Sony RX100 Series - Operating Instructions</div> <div data-bbox="341 1332 1441 1440"><p>Operating instructions for the SmallRig L-Shaped Wooden Grip (LCS2467) designed for Sony RX100 III, IV, V, VA, VI, and VII cameras. Features include ergonomic design, 1/4"-20 accessory threads, and strap slot.</p></div>