

[Manuals.plus](#) /

› [Ralcam](#) /

› Ralcam 360° Articulating Borescope Camera User Manual

Ralcam F606B-S2M

Ralcam 360° Articulating Borescope Camera User Manual

Brand: Ralcam | Model: F606B-S2M

1. INTRODUCTION AND OVERVIEW

The Ralcam 360° Articulating Borescope Camera is a professional inspection tool designed for detailed observation in hard-to-reach areas. It features a 6.0mm articulating probe, a 5-inch HD IPS display, and a high-capacity rechargeable battery, making it ideal for mechanical inspection, automotive repair, plumbing, and various DIY applications. Its robust design includes a tungsten braided tube for durability and a modularized structure for easy maintenance. The camera is equipped with adjustable LED lights and offers 360° all-way articulation for comprehensive viewing.



Figure 1: Ralcam 360° Articulating Borescope Camera and accessories.

2. SETUP

The Ralcam borescope is designed for immediate use upon unboxing, requiring no external phone, Wi-Fi, or application setup. Follow these steps for initial preparation:

1. **Charge the Battery:** The device comes with a built-in 5200mAh rechargeable battery. Before first use, ensure the battery is fully charged using the provided charging cable. The battery supports up to 6 hours of continuous use.
2. **Assemble Components:** The borescope features a detachable screen and a detachable snake cable. Carefully connect the snake cable probe to the main unit and ensure the screen is securely attached if it was separated for transport.
3. **Insert Micro SD Card:** Locate the Micro SD card slot (Media Type: Micro SD Card) and insert a compatible card for saving photos and videos.

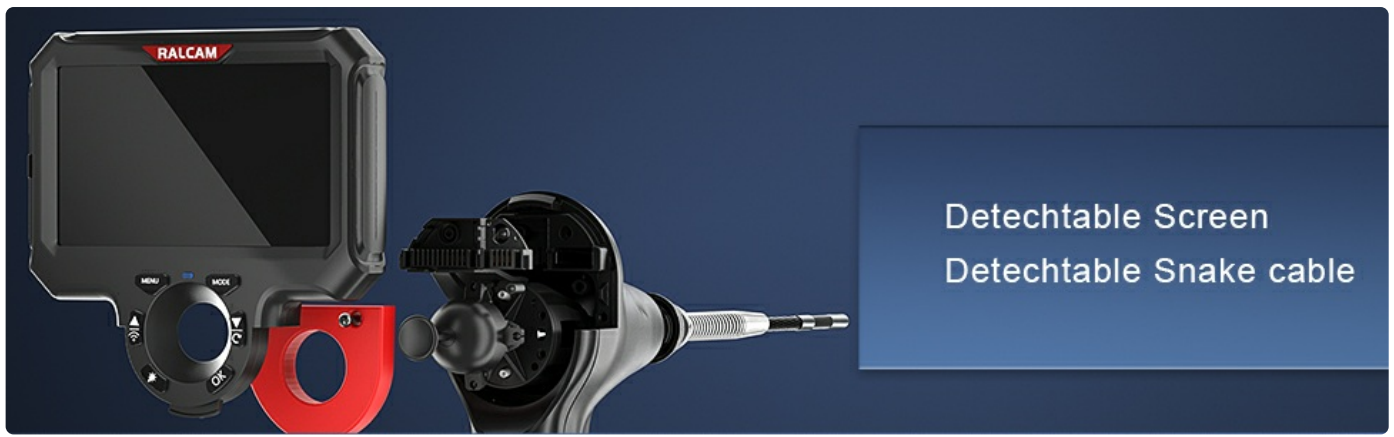


Figure 2: Detachable screen and snake cable for easy assembly and storage.



Figure 3: The borescope is powered by a high-capacity 5200mAh rechargeable battery.

3. OPERATING INSTRUCTIONS

Operating the Ralcam borescope is intuitive, designed for efficient inspection.

3.1 Powering On/Off

- Press and hold the power button (usually labeled with a power icon) to turn the device on or off.
- The 5-inch HD IPS display will illuminate, showing the live feed from the camera probe.

3.2 Camera Control and Articulation

- The 6.0mm probe features 360° all-way articulation, controlled by a joystick or control wheel on the main unit. Manipulate this control to steer the camera tip in any direction for optimal viewing.
- The camera captures live video and photos at 1280x720(v) resolution. Use the dedicated photo/video capture buttons (often labeled with camera/video icons) to record.
- The probe is equipped with 6 high-intensity LED lights. Adjust their brightness using the light control buttons (usually labeled with a light icon) to suit different dark inspection situations.

BEND AT ANY ANGLE

For clearer and more detailed observation.



Figure 4: The 360° articulating probe allows for comprehensive inspection.



Figure 5: The 6.0mm tiny camera probe is designed for exploring narrow spaces.

3.3 Menu and Settings

- Press the "MENU" button to access settings such as resolution, date/time, and storage management.
- Use the joystick or directional buttons to navigate through menu options and the "OK" button to confirm selections.
- The "MODE" button allows switching between photo and video modes.

3.4 Video Demonstration

Your browser does not support the video tag.

Video 1: Demonstration of the Ralcam 360° Articulating Borescope Camera's features and operation, including its 360° rotation capability and modular design.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Ralcam borescope.

- **Lens Cleaning:** The camera lens is IP67 waterproof. After use in wet environments, always dry the lens thoroughly to prevent water stains from affecting image clarity. Use a soft, lint-free cloth.
- **Probe Care:** The tungsten braided tube is designed for durability. Avoid excessive force or sharp bends beyond its articulation limits. Clean the probe gently after use, especially if exposed to oil or debris.
- **Battery Charging:** Recharge the 5200mAh battery regularly to maintain its health. Store the device with a partial charge if not used for extended periods.
- **Storage:** Store the borescope in its provided carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.



Figure 6: The IP67 waterproof and oil-proof probe requires proper cleaning after use.

5. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Device does not power on.	Low battery; loose connections.	Charge the battery fully. Ensure the screen and probe are securely connected.
Image is blurry or unclear.	Dirty lens; insufficient lighting; focus issue.	Clean the camera lens. Adjust LED brightness. Ensure the object is within the camera's depth of field (DOF: 20mm - Infinity).
Probe articulation is stiff or unresponsive.	Debris in articulation mechanism; cable damage.	Gently clean the articulation joint. Avoid forcing the probe. If damage is suspected, contact support.
Device shuts down unexpectedly.	High temperature protection activated.	The device has a unique temperature protection technology. If the temperature is above 90 degrees Celsius, it automatically shuts down. Allow the device to cool down before resuming operation.
Cannot save photos/videos.	No Micro SD card inserted; SD card full or corrupted.	Insert a Micro SD card. Check available storage on the card or try a different card. Format the SD card if necessary (refer to menu settings).

6. SPECIFICATIONS

Feature	Detail
Model Number	F606B-S2M
Probe Diameter	6.0mm
Articulation	360° All-Way (4-way joystick control)
Display Screen	5-inch HD IPS Monitor
Video Capture Resolution	1080p, 720p (1280x720(v) for photos/videos)
Camera Sensor	1.0 megapixel CMOS sensor
Lighting	6 high intensity LED lights (4 adjustable brightness levels)
Waterproof Rating	IP67 (lens)
Battery	5200mAh Rechargeable Lithium Polymer
Operating Time	Up to 6 hours
Storage Media	Micro SD Card
High Temperature Protection	Automatic shutdown above 90°C
Item Weight	29.7 pounds
Package Dimensions	16.14 x 8.46 x 3.35 inches

7. WHAT'S IN THE BOX

The Ralcam 360° Articulating Borescope Camera package includes:

- Ralcam Borescope Main Unit
- Articulating Camera Probe (6.0mm)
- Carrying Case
- Charging Cable
- User Manual

8. WARRANTY AND SUPPORT

Ralcam products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included in your package or visit the official Ralcam store.

Official Ralcam Store: <https://www.amazon.com/stores/Ralcam/page/6FD334DD-79E5-4903-92DC-942EC4A8E367>

© 2024 Ralcam. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question