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Ralcam F606B-S2M

Ralcam 3600 Articulating Borescope User Manual

Model: F606B-S2M

Brand: Ralcam

1. Introduction

This user manual provides comprehensive instructions for the Ralcam 3600 4-Way Rotation Articulating Borescope. This advanced inspection camera is designed for detailed visual inspection in hard-to-reach areas, offering high-definition imaging and flexible maneuverability. Please read this manual thoroughly before operating the device to ensure proper use and longevity.



Figure 1: Ralcam 3600 Articulating Borescope and accessories.

2. Product Overview

2.1 Key Features

- **3600 All-Way Articulation:** The 6.0mm probe offers 3600 all-around view observation, controlled by a single wheel for flexible steering in tight spaces.
- **High-Resolution Imaging:** Equipped with a 1.0 megapixel CMOS sensor, capable of capturing clear 1280x720 HD video and photos.
- **5-inch IPS LCD Monitor:** Features a large, high-definition display for extended visibility and sharpness, eliminating the need for external devices or software.
- **Adjustable LED Illumination:** Six high-intensity LED lights with four adjustable brightness levels ensure clear visibility in various dark environments.

- **IP67 Waterproof Probe:** The probe is rated IP67 for water resistance, suitable for inspection in wet conditions.
- **Long-Lasting Battery:** A built-in 5200mAh rechargeable battery provides up to 6 hours of continuous operation.
- **High Temperature Protection:** The probe is designed with unique temperature protection technology, automatically shutting down if the temperature exceeds 900C to prevent damage.
- **Durable Construction:** Features a sturdy tungsten braided tube for enhanced flexibility and durability of the articulated probe.

2.2 Components

The Ralcam Borescope package includes:

- Main Borescope Unit with 5-inch IPS Monitor
- 6.0mm Articulating Probe (3.3FT/1M length)
- USB Type-C Charging Cable
- User Manual
- Carrying Case



Figure 2: The borescope probe can bend at any angle for detailed observation.



Figure 3: The 5-inch IPS Ultra-Wide Screen provides clear visuals.



Figure 4: The slim 6.0mm probe allows exploration of narrow areas.



Figure 5: The borescope is powered by a high-capacity 5200mAh rechargeable battery.



Figure 6: The camera features a high-sensitivity image sensor and 6 adjustable LED lights for superior image quality.



Figure 7: The probe's tungsten braided tube enhances flexibility and durability.

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Video 1: This video demonstrates the 360-degree all-way rotation capability of the Ralcam Articulating Borescope, showcasing its flexible probe movement and modular design.

3. Setup

3.1 Charging the Device

Before first use, fully charge the borescope. Connect the included USB Type-C cable to the device's charging port and a compatible USB power adapter (not included). The charging indicator light will show the charging status.

3.2 Attaching the Probe

The probe is designed to be securely attached to the main unit. Align the connector of the probe with the port on the main unit and push firmly until it clicks into place. Ensure a secure connection for stable image transmission and articulation control.

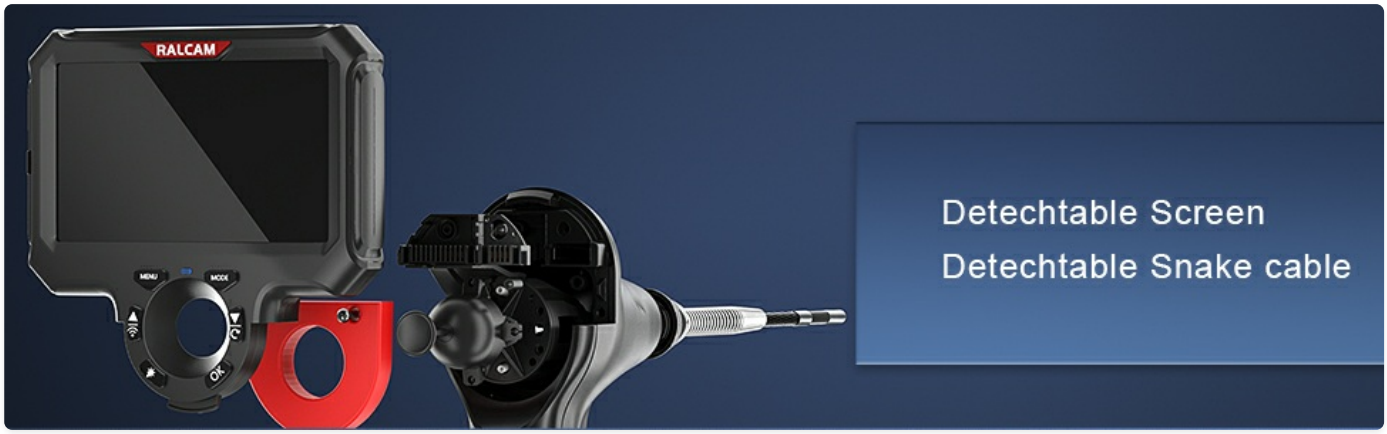


Figure 8: The screen and snake cable are detachable for easy setup and storage.

3.3 Powering On/Off

Press and hold the Power button (usually located on the main unit) for a few seconds to turn the device on. The screen will illuminate. To turn off, press and hold the Power button again until the screen shuts down.

4. Operating Instructions

4.1 Basic Controls

The main unit features several buttons and a joystick for control:

- **Power Button:** Turns the device on/off.
- **Menu Button:** Accesses the system settings.
- **Mode Button:** Switches between photo and video modes.
- **OK Button:** Confirms selections or takes a photo/starts/stops video recording.
- **Joystick/Control Wheel:** Used to articulate the probe tip in 3600 directions.
- **LED Brightness Buttons:** Adjusts the intensity of the LED lights on the probe tip.

4.2 Adjusting LED Lights

Press the LED brightness buttons on the main unit to cycle through the four brightness levels (0%, 60%, 80%, 100%) to achieve optimal illumination for your inspection area.

4.3 Taking Photos and Videos

In photo mode, press the OK button to capture an image. In video mode, press the OK button once to start recording and again to stop recording. All captured media will be saved to the inserted memory card (if applicable, check specifications for compatibility).

4.4 Probe Articulation

Use the joystick or control wheel on the main unit to precisely maneuver the probe tip. The 3600 articulation allows you to navigate around obstacles and view areas from multiple angles without needing to reposition the entire probe.

4.5 High Temperature Protection

The device is equipped with a temperature protection feature. If the probe tip's temperature exceeds 900C, the unit will automatically shut down to prevent damage. Allow the probe to cool down before resuming operation in high-temperature environments.



Figure 9: The borescope is suitable for a wide range of applications including mechanical inspection and maintenance.

5. Maintenance

5.1 Cleaning the Lens

After use, especially in wet or dirty environments, gently wipe the IP67 waterproof lens with a soft, dry cloth. Ensure no water stains or debris remain on the lens to maintain clear image quality.

5.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, even if not in use for extended periods. Store the device in a cool, dry place.

5.3 Storage

When not in use, store the borescope and its accessories in the provided carrying case to protect them from dust, moisture, and physical damage.

6. Troubleshooting

6.1 No Power

- Ensure the device is fully charged.
- Check the charging cable and adapter for proper connection and functionality.

6.2 Blurry Image

- Clean the camera lens as described in the Maintenance section.
- Adjust the LED brightness to optimize lighting conditions.

6.3 Probe Not Articulating

- Ensure the probe is securely attached to the main unit.
- Check for any physical obstructions or damage to the probe cable.

6.4 Device Shuts Down Automatically

- This is likely due to the high temperature protection feature. Allow the probe to cool down before restarting.

7. Specifications

Feature	Specification
Model Number	F606B-S2M
Probe Diameter	6.0mm
Articulation	3600 4-Way Rotation
Display Screen	5-inch IPS LCD Monitor
Video/Photo Resolution	1280(h)720(v)
Camera Sensor	1.0 Megapixel CMOS
LED Lights	6 (with 4 adjustable brightness levels)

Water Resistance	IP67 (probe)
Battery Capacity	5200mAh Lithium Polymer
Battery Life	Up to 6 hours
Charging Interface	USB Type C
High Temperature Protection	Automatic shutdown above 900C
Audio Recording	Yes

8. Warranty and Support

This Ralcam product is manufactured with high-quality standards. For any technical support or warranty inquiries, please refer to the contact information provided with your purchase documentation or visit the official Ralcam website. The product was first available on January 5, 2023.

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