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› Ralcam Two-Way Articulating Borescope Instruction Manual

Ralcam H408B-S2M

Ralcam Two-Way Articulating Borescope Instruction Manual

Model: H408B-S2M

PRODUCT OVERVIEW

The Ralcam Two-Way Articulating Borescope is a versatile inspection camera designed for detailed visual inspection in hard-to-reach areas. It features a two-way 1800 articulating probe, a 4.3-inch HD IPS screen, and adjustable LED lighting for optimal clarity in various environments. This manual provides essential information for the proper setup, operation, and maintenance of your device.

Key features include:

- Two-Way 1800 Articulating Probe with 6.6FT Semi-Rigid Cable
- 4.3-inch Super HD IPS Screen (1920 x 1080P)
- 10 Adjustable High-Intensity LED Lights
- Detachable Screen with 2600mAh Rechargeable Battery
- IP67 Waterproof and Oil-Proof Probe
- Intelligent High Temperature Protection

PACKAGE CONTENTS

- 4.3" IPS HD Endoscope (Main Unit)
- Semi-rigid Snake Tube (Probe)
- User Manual
- USB Charging Cable
- Portable Toolbox



Figure 1: Ralcam Two-Way Articulating Borescope and its included accessories in the portable toolbox.

SETUP

1. Initial Charging

Before first use, ensure the borescope's built-in 2600mAh Polymer lithium-ion battery is fully charged. Connect the provided USB-C charging cable to the device and a suitable USB power adapter (not included). The charging indicator will show progress.



Detachable Screen

Easy to Carry and Replace

Figure 2: Connect the USB-C cable for charging or data transfer.

2. Attaching the Screen and Probe

The 4.3-inch IPS screen is detachable for convenience. Align the screen connector with the main handle unit and gently push until it clicks into place. Then, securely attach the semi-rigid probe to the designated port on the handle.

BEND AT ANY ANGLE

2m(6.6ft) semi-rigid cable navigate narrow spaces with ease



Figure 3: The borescope with its detachable screen and flexible semi-rigid cable.

3. Inserting the Memory Card

Locate the SD card slot on the side of the screen unit. Insert the included 16GB memory card until it clicks. This card is essential for saving photos and videos.



Figure 4: The borescope supports a 16GB memory card for storing media.

OPERATING INSTRUCTIONS

1. Power On/Off

Press and hold the power button located on the side of the handle for a few seconds to turn the device on. The screen will illuminate, displaying the live feed from the probe. To turn off, press and hold the power button again.

2. Articulating the Probe

The borescope features a two-way 1800 articulating probe controlled by a wheel on the handle. Rotate the wheel to precisely adjust the angle of the camera lens, allowing you to navigate and view various angles within confined spaces.

2.0 MEGAPIXELS HIGH DEFINITION

2.0 megapixel detail-oriented, sharp view without blurring

+68% ↑
FASTER

+56% ↑
SMOOTH

+53% ↑
BRIGHTNESS

10 LED

with 4 adjustable brightness



0%



60%



80%



100%

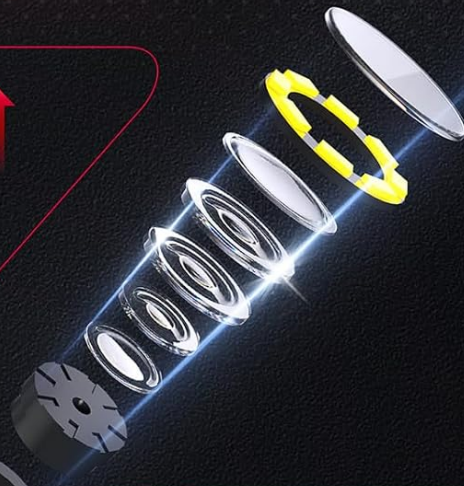


Figure 5: The 1800 wheel control allows precise articulation of the probe.

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Video 1: Demonstration of the Ralcam Articulating Borescope's two-way 1800 movement and inspection capabilities.

3. Adjusting LED Lights

The probe is equipped with 10 high-intensity LED lights. Use the dedicated button on the handle to cycle through 3 adjustable brightness levels, ensuring clear visibility in dark environments.

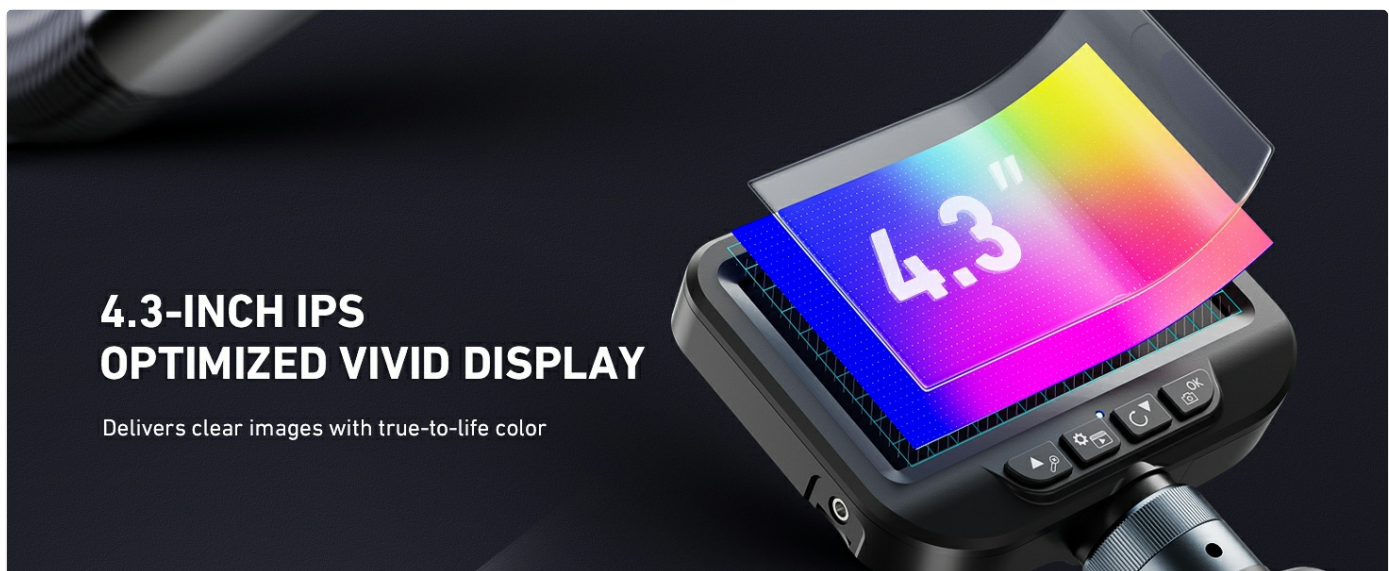


Figure 6: The 10 adjustable LED lights provide ample illumination for various inspection scenarios.

4. Taking Photos and Videos

To capture an image, press the photo button on the screen unit. To start or stop video recording, press the video button. All captured media will be saved to the inserted 16GB memory card.

5. Image Rotation

The screen allows for image rotation to ensure correct orientation of the live feed, regardless of the probe's position. Refer to the user manual for specific button functions for image rotation.

MAINTENANCE

1. Cleaning the Probe

The probe is IP67 waterproof and oil-proof. After each use, especially in dirty or oily environments, gently wipe the probe with a soft, damp cloth. For stubborn residue, a mild, non-abrasive cleaning solution can be used. Ensure the probe is dry before storage.



Figure 7: The IP67 waterproof and oil-proof probe is designed for challenging environments.

2. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Recharge the device when the battery indicator is

low. If storing for extended periods, charge the battery to approximately 50% and recharge every 3-6 months.

3. Storage

Store the borescope and its accessories in the provided portable toolbox in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the probe cable is not kinked or bent sharply during storage to maintain its integrity.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery; Power button not held long enough.	Charge the battery fully; Press and hold the power button for 2-3 seconds.
Image is blurry or unclear.	Lens is dirty; Insufficient lighting; Object too close/far.	Clean the lens; Adjust LED brightness; Adjust distance to object.
Cannot save photos/videos.	Memory card full or not inserted correctly; Card error.	Ensure card is inserted correctly; Format the SD card (backup data first); Replace SD card.
Device shuts down unexpectedly.	Low battery; High temperature protection activated.	Recharge battery; Allow device to cool down if operating in high temperatures (above 950C).

SPECIFICATIONS

Feature	Detail
Model Number	H408B-S2M
Lens Diameter	8.5mm
Cable Length	6.6FT (2 meters) Semi-Rigid
Screen Size	4.3 inches IPS HD
Video/Photo Resolution	1920 x 1080P
Articulating Angle	Two-Way 1800
Light Source	10 Adjustable LED Lights
Battery Capacity	2600mAh Polymer Lithium-ion
Battery Life	Up to 3.5 hours
Waterproof Rating	IP67 (Probe)
Temperature Protection	Automatic power-off at 950C
Storage	16GB Micro SD Card (included)
Charging Port	USB-C
Product Dimensions	16.64 x 8.83 x 3.5 inches
Item Weight	3.8 pounds

WIDE APPLICATIONS

The Ralcam Two-Way Articulating Borescope is suitable for a variety of professional and home inspection tasks, including but not limited to:

- Mechanical Inspection (e.g., car or truck repair, engine inspection)
- Plumbing Fixes
- Electrical Installations
- Home DIY Projects (e.g., ceiling, wall upgrades)
- Chimney Cleaning
- Air Conditioning Maintenance
- Aircraft Maintenance Inspection
- Building Inspection



Figure 8: The borescope's versatility makes it ideal for numerous inspection needs.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Ralcam website or contact their customer service. Details can typically be found in the included user manual or on the product packaging.

Manufacturer: Ralcam

Country of Origin: China