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## YPMart H406B-6MM-1M

# YPMart Articulating Borescope H406B-6MM-1M User Manual

Model: H406B-6MM-1M

## 1. INTRODUCTION

Thank you for choosing the YPMart Articulating Borescope H406B-6MM-1M. This device is designed for visual inspection in hard-to-reach areas, featuring a 2-way 180° articulating probe, a 6mm lens, and a 4.3-inch display. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your borescope.

## 2. SAFETY INFORMATION

- Do not use the device in environments with flammable or explosive gases.
- Keep the device away from strong magnetic fields.
- Avoid exposing the device to extreme temperatures or direct sunlight.
- The probe is waterproof (IP67), but the main unit is not. Do not immerse the main unit in water.
- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.
- Ensure the device is fully charged before use to prevent unexpected power loss during inspection.
- The device features high-temperature protection, automatically shutting down if the probe temperature exceeds 95°F (35°C). Allow the probe to cool before resuming operation.

## 3. PACKAGE CONTENTS

Please check the package for the following items:

- YPMart Articulating Borescope (Main Unit with 4.3" Screen)

- 6mm Articulating Probe (1 meter / 3.3 feet length)
- USB Charging Cable
- User Manual
- 8GB Memory Card (pre-installed or included separately)
- Portable Carrying Case

## 4. PRODUCT FEATURES

- **2-Way 180° Articulation:** The probe tip can be precisely controlled to bend up to 180 degrees in two directions, allowing for comprehensive viewing angles in confined spaces.
- **6mm Diameter Lens:** A small diameter camera head for accessing narrow openings.
- **4.3-inch IPS Display:** Provides a clear and vivid real-time view of the inspection area with excellent color reproduction.
- **High Temperature Protection:** Automatic shutdown feature when probe temperature exceeds 95°F (35°C) to prevent damage.
- **IP67 Waterproof Camera:** The probe and lens are resistant to water immersion, suitable for wet environments.
- **High Capacity Battery:** Equipped with a 2200mAh Lithium Battery for extended operation.
- **Adjustable LED Lighting:** 6 integrated LEDs with adjustable brightness to illuminate dark inspection areas.
- **Durable Probe Construction:** Features a tightly-knit tungsten wire mesh for enhanced flexibility and durability, offering a bend lifespan of over 20,000 cycles.
- **Photo and Video Recording:** Capture images and record videos directly to the included 8GB memory card.

## VIVID 4.3" IPS DISPLAY

The large 4.3-inch true color display offers excellent clarity and color reproduction, Elevating Your Inspection Experience.



Image: The 4.3-inch IPS display provides clear and vibrant visuals for detailed inspections.

# TIGHTLY-KNIT TUNGSTEN WIRE MESH

Enhance flexibility and durability for the articulated probe

# 20,000+

Bend Lifespan



Image: Illustration of the probe's tightly-knit tungsten wire mesh, designed for flexibility and durability.

## 5. SETUP

### 5.1 Charging the Device

1. Connect the USB charging cable to the charging port on the main unit.
2. Connect the other end of the USB cable to a standard 5V/1A USB power adapter (not included) or a computer USB port.
3. The charging indicator light will illuminate. Allow approximately 3-4 hours for a full charge.
4. Disconnect the charger once fully charged.

### 5.2 Inserting the Memory Card

The device supports a Micro SD card (8GB included) for storing photos and videos.

1. Locate the Micro SD card slot on the side of the main unit.
2. Gently insert the Micro SD card with the gold contacts facing down until it clicks into place.
3. To remove, push the card in slightly until it springs out.

## 5.3 Powering On/Off

- **To Power On:** Press and hold the Power button for a few seconds until the screen illuminates.
- **To Power Off:** Press and hold the Power button for a few seconds until the screen turns off.

# 6. OPERATING INSTRUCTIONS

## 6.1 Navigating the Interface

The 4.3-inch screen displays the live feed from the camera. Buttons on the main unit allow for menu navigation, articulation control, and media capture.

## 6.2 Articulating the Probe

# BEND AT ANY ANGLE

1m(3.3ft) flexible cable navigate narrow spaces with ease.



Image: The 180° wheel control mechanism for precise articulation of the probe tip.

The probe tip is controlled by a wheel on the handle of the main unit.

- Rotate the wheel clockwise or counter-clockwise to bend the probe tip up to 180 degrees in either direction.
- Gently manipulate the probe cable to guide it through narrow spaces while articulating the tip for optimal viewing.

## 6.3 Adjusting LED Brightness



Image: The probe tip with high brightness LEDs, illustrating different illumination levels.

The borescope features 6 LEDs at the camera tip to illuminate dark areas. Use the dedicated brightness control button (often marked with a light bulb icon) to cycle through different brightness levels (e.g., 0%, 60%, 80%, 100%).

## 6.4 Taking Photos and Recording Videos

- **To Take a Photo:** While in live view, press the Photo button (often marked with a camera icon) to capture an image. The image will be saved to the Micro SD card.
- **To Record Video:** Press the Video button (often marked with a video camera icon) to start recording. Press it again to stop recording. Videos will be saved to the Micro SD card.

## 6.5 Viewing Media

- Enter Playback mode by pressing the Mode button (if available) or navigating through the menu.
- Use the navigation buttons to browse through your saved photos and videos.
- To exit Playback mode, press the Mode button again or select the option from the menu.

## 7. MAINTENANCE

### 7.1 Cleaning the Lens and Probe

- After each use, especially in dirty environments, gently wipe the camera lens and probe with a soft, damp cloth.
- For stubborn dirt, use a small amount of isopropyl alcohol on a cotton swab for the lens. Ensure no liquid enters the main unit.
- Do not use abrasive cleaners or solvents.

### 7.2 Battery Care

- Charge the battery fully before long-term storage.
- If storing for extended periods, recharge the battery every 3-6 months to maintain its lifespan.
- Avoid completely draining the battery frequently.

### 7.3 Storage

- Store the borescope in its portable carrying case to protect it from dust, impacts, and moisture.
- Keep the device in a cool, dry place, away from direct sunlight and extreme temperatures.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery; device malfunction.	Charge the device fully. If problem persists, contact support.
No image on screen.	Probe not connected properly; camera malfunction.	Ensure probe is securely connected. Restart the device.
Image is blurry or unclear.	Dirty lens; outside depth of field.	Clean the camera lens. Adjust the distance between the lens and the object (optimal 20mm-100mm).
Cannot save photos/videos.	No Micro SD card; card full; card error.	Insert a Micro SD card. Delete unnecessary files or format the card (backup data first). Try a different card.
Device shuts down unexpectedly.	High temperature protection activated; low battery.	Allow the probe to cool down. Recharge the battery.

## 9. SPECIFICATIONS

Feature	Specification
Model Number	H406B-6MM-1M
Camera Diameter	6mm
Snake Tube Length	1 meter (3.3 feet)
Depth of Field	20mm to 100mm
Field of View	90°-180°
Lighting Source	6pcs Adjustable LEDs
Sensor	1/9" CMOS
Pixels	1 Megapixel
Battery Type	2200mAh Lithium Battery
Rotation Angle	180° in both directions (2-way)
Wire Type	Soft Wire (Tungsten Mesh)
Memory Card	8GB Micro SD (included)
Functions	Take pictures and videos
Probe Waterproof Rating	IP67
High Temp Protection	Automatic shutdown above 95°F (35°C)
Item Weight	1.32 pounds
Manufacturer	YPMart

## 10. WARRANTY AND SUPPORT

YPMart products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official YPMart website. Please have your model number (H406B-6MM-1M) and purchase details ready when contacting support.

