



[Manuals.plus](#) /

› [YPMart](#) /

› YPMart 720° 4-Way Rotation Articulating Borescope User Manual

YPMart YPMart

YPMart 720° 4-Way Rotation Articulating Borescope User Manual

Model: YPMart

INTRODUCTION

This manual provides detailed instructions for the safe and effective operation, maintenance, and troubleshooting of your YPMart 720° 4-Way Rotation Articulating Borescope. Please read this manual thoroughly before using the device to ensure optimal performance and longevity.

BEND AT ANY ANGLE

For clearer and more detailed observation.



Figure 1: YPMart 720° 4-Way Rotation Articulating Borescope. This image shows the complete borescope unit, including the handheld monitor and the flexible probe.

PRODUCT FEATURES

- **Camera Lens:** The endoscope features a camera lens diameter of 6.0mm (0.24 inches), providing clear and detailed visuals for various inspection tasks.
- **Flexible Snake Tube:** With a snake tube length of 1 meter (3.3 feet), this endoscope allows navigation through tight spaces and hard-to-reach areas.



Figure 2: Slim Probe Design. This image illustrates the slim design of the borescope probe, enabling it to explore narrow areas without obstruction.

- **Exceptional Depth of Field (DOF):** A depth of field ranging from 20mm ensures objects at varying distances are captured with precision.
- **Wide Field of View (FOV):** The endoscope offers a field of view of 120°, allowing for broader area capture in each shot.
- **Advanced LED Lighting:** Equipped with adjustable LED light (4 levels, 6 PCS LEDs) for optimal visibility in dark or confined environments.
- **High-Resolution Display:** Features a 5.0" IPS LCD display with 1280x720 resolution for high-quality image and video analysis.
- **720° 4-Way Articulation:** The probe offers 360° steering in four directions for comprehensive inspection.
- **High Capacity Battery:** Integrated 3.7V/5200mAh battery provides extended operational time.

SETUP

1. Unpacking and Inspection

Carefully remove all components from the packaging. Inspect the borescope, probe, and accessories for any signs of damage. If any damage is found, do not proceed with setup and contact customer support.

2. Charging the Device

Before first use, fully charge the borescope's internal battery. Connect the provided USB charging cable to the device's charging port and to a suitable USB power adapter (not included). The charging indicator light will illuminate during charging and change color or turn off when fully charged. A full charge typically takes approximately 4 hours.

3. Attaching the Probe

Align the connector of the flexible probe with the port on the main unit. Gently push and twist until it is securely fastened. Ensure a firm connection to prevent signal loss during operation.

OPERATING INSTRUCTIONS

1. Powering On/Off

Press and hold the power button (usually marked with **ON/OFF** or a power symbol) for 3 seconds to turn the device on. The display will illuminate. To power off, press and hold the power button again until the display shuts down.

2. Navigating the Probe

Gently insert the flexible probe into the inspection area. Use the articulation joystick or control buttons on the main unit to steer the probe tip. The 720° 4-way articulation allows precise positioning of the camera lens.



Figure 3: Probe Articulation. This image demonstrates the 360-degree 4-way articulation capability of the borescope probe, allowing it to bend at various angles for comprehensive observation.

3. Ergonomic Handle and Controls

The borescope is designed with an ergonomic handle for comfortable and stable operation during extended use. The intuitive interface provides easy access to all controls, including articulation, LED adjustment, and photo/video capture.



Figure 4: Ergonomic Design. This image highlights the compact, lightweight, and ergonomic handle design, along with the intuitive interface for user comfort and ease of use.

4. Adjusting LED Illumination

Press the LED light button (often marked with a light bulb symbol) to cycle through the 4 brightness levels of the 6 integrated LEDs. Adjust the brightness to achieve optimal visibility in different environments.

5. Capturing Photos and Videos

- **Photo:** Press the photo button (usually a camera icon) to capture a still image. The image will be saved to the internal memory or an inserted SD card (if applicable).
- **Video:** Press the video button (usually a video camera icon) to start recording. Press it again to stop recording. Videos are saved in 1280x720P resolution.

6. Display and Menu Navigation

The 5.0" IPS LCD monitor displays the live feed from the probe. Use the **MENU** button to access settings such as resolution, language, and date/time. Navigate through menu options using the directional buttons and confirm selections with the **OK** button.



Figure 5: 5.0" IPS LCD Display. This image highlights the 5-inch IPS ultra-wide screen, providing extended visibility and sharpness for effective inspection.

MAINTENANCE

1. Cleaning the Probe and Lens

After each use, especially in dirty or oily environments, gently wipe the probe and camera lens with a soft, damp cloth. For stubborn residue, a small amount of isopropyl alcohol can be used. Ensure the lens is clean for clear imaging. Do not submerge the main unit in liquids.

2. Battery Care

To prolong battery life, avoid fully discharging the device frequently. Recharge the battery when the low battery indicator appears. If storing the device for an extended period, charge it to approximately 50% every three months.

3. Storage

Store the borescope in a cool, dry place, away from direct sunlight and extreme temperatures. Keep the probe coiled

loosely to prevent kinks or damage. Use the original packaging or a protective case for storage and transport.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|--|---|---|
| Device does not power on. | Battery is depleted. | Charge the device fully. |
| No image on display. | Probe not connected securely. Camera lens is dirty. | Ensure the probe is firmly attached. Clean the camera lens. |
| Image is blurry or dark. | Insufficient LED light. Lens is dirty. Object is outside DOF. | Adjust LED brightness. Clean the camera lens. Reposition the probe closer or further from the object. |
| Probe articulation is stiff or unresponsive. | Mechanical obstruction. Damage to articulation mechanism. | Do not force the probe. Gently retract and re-insert. If problem persists, contact support. |
| Cannot save photos/videos. | Memory full or no SD card inserted (if applicable). | Delete old files or insert a compatible SD card. |

SPECIFICATIONS

| Feature | Detail |
|------------------------|----------------------------|
| Model Number | YPMart |
| Camera Lens Diameter | 6.0mm (0.24 inches) |
| Probe Length | 1 meter (3.3 feet) |
| Depth of Field (DOF) | 20mm to infinity |
| Field of View (FOV) | 120° |
| LED Lights | 6 PCS, 4 adjustable levels |
| Display | 5.0" IPS LCD |
| Display Resolution | 1280x720 pixels |
| Photo/Video Resolution | 1280x720P |
| Battery Type | 3.7V/5200mAh Lithium-ion |
| Articulation | 720° 4-Way Rotation |
| Item Weight | 2.2 pounds |
| Package Dimensions | 1.18 x 0.79 x 0.39 inches |

WARRANTY AND SUPPORT

YPMart products are covered by a limited warranty against manufacturing defects. For specific warranty terms, please refer to the warranty card included with your product or visit the official YPMart website. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact YPMart customer service through the contact information provided on the product packaging or website.

