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› DXZtoz 6mm Articulating Borescope User Manual

DXZtoz AGC430N

DXZtoz 6mm Articulating Borescope User Manual

Model: AGC430N

1. INTRODUCTION

The DXZtoz 6mm Articulating Borescope is a professional-grade inspection camera designed for detailed visual inspection in hard-to-reach areas. Its ultra-thin, articulated probe and high-resolution display make it ideal for automotive, aircraft, HVAC, plumbing, and general home inspection tasks. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your borescope.



Figure 1.1: DXZtoz 6mm Articulating Borescope and included carrying case.

2. WHAT'S IN THE BOX

Upon unboxing your DXZtoz 6mm Articulating Borescope, please verify that all components listed below are present:

- Articulating Borescope Unit (main display and handle)
- Flexible Probe with 6mm Camera
- Hook Tip Attachment
- Magnet Tip Attachment
- Side Mirror Attachment
- 32GB MicroSD Card (pre-installed)
- USB Type-C Charging Cable
- Lens Brush & Cleaning Wipe
- User Manual (this document)

- Portable Carrying Case

PRODUCT PACKING



Figure 2.1: Contents of the DXZtoz Borescope package.

3. SETUP & ASSEMBLY

Follow these steps to prepare your borescope for use:

1. **Charge the Device:** Connect the USB Type-C charging cable to the borescope's display unit and a suitable USB power source. The device features a rechargeable 3000mAh lithium battery for extended use.
2. **Attach the Display Unit:** Slide the display unit onto the top of the handle until it clicks securely into place. Turn the locking mechanism on the back of the display to secure it.
3. **Insert MicroSD Card:** Ensure the 32GB MicroSD card is properly inserted into the TF Card Port on the side of the display unit. This card is essential for saving photos and videos.
4. **Optional Accessories:** If needed, screw on the hook, magnet, or side mirror tip to the end of the camera probe. These accessories provide additional functionality for retrieving objects or viewing at different angles.

4. OPERATING INSTRUCTIONS

Familiarize yourself with the controls and functions of your borescope for optimal performance.



Figure 4.1: Borescope controls overview.

4.1. Power On/Off

- To power on, press and hold the **Power On/Off** button () for approximately 2 seconds. The screen will light up, and the camera light will activate.
- To power off, press and hold the **Power On/Off** button () again until the screen shuts down.

4.2. Menu Navigation

- Press and hold the **Setting/OK** button (▲) to access the main menu.
- Use the **Up** (▲) and **Down** (▼) arrow buttons to navigate through menu options.
- Press the **Setting/OK** button (▲) to confirm a selection.
- Press the **Back** button (↶) to exit the menu or return to the previous screen.

4.3. Camera Control & Articulation

- The **Camera Control Wheel** on the handle allows for 180° two-way articulation of the camera probe. Rotate the wheel to precisely adjust the camera's viewing angle.
- The **LED Adjustment** button on the handle controls the brightness of the camera's LED lights. Press it to cycle through different brightness levels or turn the lights off.
- The **Camera Flip** button (↵) on the display unit allows you to horizontally flip the image on the screen, useful when the probe is in an inverted position.



Figure 4.2: The articulating head allows precise control of the camera angle.

4.4. Photo & Video Capture

- To take a photo, press the **Take Photo/Video** button () on the handle.
- To start/stop video recording, press and hold the **Take Photo/Video** button () on the handle.
- The **Freeze Screen** button () on the display unit allows you to pause the live view to examine a specific image. Press it once to freeze, and again to unfreeze.
- The **Zoom** button () on the display unit allows you to zoom in or out on the live image.

4.5. Gallery Access

- To view captured photos and videos, press and hold the **Gallery** button () on the display unit.
- Use the **Up** (▲) and **Down** (▼) arrow buttons to scroll through your saved media.
- Press the **Back** button (↶) to exit the gallery.

5. KEY FEATURES

- **180° Two-Way Articulation:** The camera's direction can be precisely controlled with a whirl wheel, allowing navigation around obstacles and viewing from various angles. This feature is crucial for inspecting complex systems.
- **6mm Ultra-Thin Probe:** The 0.24-inch diameter endoscope camera can easily pass through narrow openings, such as spark plug holes for engine inspection, or small drilled holes in walls for internal viewing, minimizing damage.
- **Shorter Bending Radius:** With a bending radius of 29mm (from 34mm), this borescope offers the shortest bending capability on the market, providing maximum flexibility for tight spaces.
- **High-Performance Imaging:** Equipped with a 2nd generation high-performance CMOS sensor, it delivers HD (1080P) images and videos on a true-color 4.3-inch IPS screen, ensuring clear and detailed inspection results.
- **IP67 Waterproof Probe:** The camera probe is rated IP67 waterproof, allowing for inspection in wet or submerged environments without damage.
- **Useful Accessories:** Includes hook, magnet, and side mirror tips that securely attach to the camera, enhancing versatility for various inspection and retrieval tasks.



Figure 5.1: Ultra-thin 6.0mm probe for narrow access.



Figure 5.2: Short bending radius for flexible rotation.



Figure 5.3: IP67 waterproof probe for wet environments.

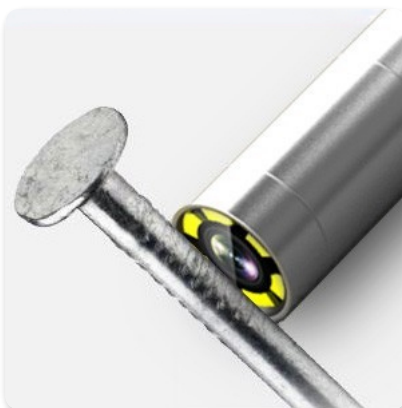


Figure 5.4: Hook tip attachment.

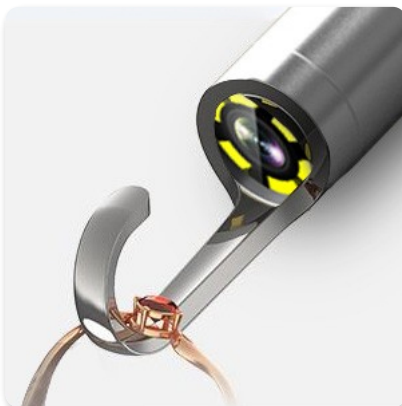


Figure 5.5: Magnet tip attachment.



Figure 5.6: Side mirror attachment.

6. MAINTENANCE

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

- **Cleaning the Lens:** Use the provided lens brush and cleaning wipe to gently clean the camera lens. For stubborn dirt, a small amount of lens cleaning solution can be applied to the wipe. Do not use abrasive materials.
- **Cleaning the Probe:** Wipe down the flexible probe with a damp cloth after each use, especially if it has been exposed to oil, grease, or water. Ensure it is dry before storage.
- **Battery Care:** Recharge the borescope regularly, even if not in frequent use, to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Storage:** Store the borescope and all accessories in the provided portable carrying case. Avoid tightly coiling the flexible probe to prevent damage to the internal fiber optics. Store in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your DXZtoz borescope, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on screen / "No Signal"	Loose connection between display and probe; device not powered on; low battery.	Ensure display unit is securely attached to the handle. Press and hold power button. Charge the device.
Poor image quality (blurry, dark)	Dirty lens; insufficient lighting; incorrect focal distance.	Clean the camera lens. Adjust LED brightness. Ensure the object is within the optimal focal range.
Device not responding to controls	System freeze; low battery.	Press the reset button on the handle. Recharge the device.
Cannot save photos/videos	MicroSD card full or corrupted; card not inserted correctly.	Check MicroSD card insertion. Format the card via the menu (this will erase all data). Replace the card if corrupted.

If the problem persists after attempting these solutions, please contact DXZtoz customer support.

8. SPECIFICATIONS

Feature	Specification
Model	AGC430N
Probe Diameter	6mm (0.24 inches)
Video Capture Resolution	1080p
Display Screen	4.3-inch IPS True Color Screen
Articulation	180° Two-Way
Bending Radius	29mm
Waterproof Rating	IP67 (probe only)
Battery	3000mAh Lithium Ion (rechargeable)
Working Time	Up to 4 hours
Storage	32GB MicroSD Card (included)
Package Dimensions	14.61 x 8.66 x 3.27 inches
Weight	2.65 Pounds

9. WARRANTY & SUPPORT

DXZtoz is committed to providing high-quality products and excellent customer service. If you have any questions or encounter problems with your borescope, please contact us directly for prompt assistance.

Contact Information:

- **Email:** support@dxztoz.com
- For instant support, please utilize the Q&A section on the product's purchase platform or contact us via Amazon Messages.

All DXZtoz products are brand new. We are a well-established manufacturer dedicated to innovating and upgrading lens products to empower professionals and individuals with high-efficiency tools, delivering unmatched picture quality and durability. Your satisfaction is our priority.

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.

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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