

DXZtoz AGC430N

DXZtoz Two-Way Articulating Borescope User Manual

Model: AGC430N

1. INTRODUCTION

This user manual provides comprehensive instructions for the safe and effective operation of your DXZtoz Two-Way Articulating Borescope, Model AGC430N. This industrial endoscope is designed for detailed visual inspection in various applications, including automotive, aircraft mechanics, plumbing, and general machinery maintenance. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the device:

- Do not immerse the main unit in water or other liquids. The probe is IP67 waterproof, but the main unit is not.
- Avoid bending the rigid gooseneck probe beyond its natural articulation limits to prevent damage.
- Do not use the borescope in environments with flammable gases or liquids.
- Keep the device away from strong magnetic fields.
- Ensure the device is fully charged before extended use.
- Clean the camera lens gently with the provided lens cleaning wipe.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Two-Way Articulating Borescope AGC43N
- Hook accessory
- Magnet tip accessory
- Side mirror accessory
- Comprehensive Lens Care Kit (Lens Brush & Cleaning Wipe)
- USB Type-C charging cable
- 32GB memory card (pre-installed)
- Portable Tool Case

- Instruction Manual (this document)

HELPFUL ACCESSORIES



RIGID GOOSENECK PROBE



Image: All components included in the DXZtoz borescope package, neatly arranged with their respective labels.

4. PRODUCT OVERVIEW

The DXZtoz AGC430N Borescope features a robust design for industrial inspection. Key components include:

- **4.3" IPS Monitor:** High-performance display for clear viewing.
- **Control Wheel:** Allows for 210° two-way articulation of the camera head.
- **Rigid Gooseneck Probe:** Malleable yet holds its shape, allowing for easy navigation into tight spaces.
- **8.5mm Camera Head:** Equipped with a 2.0MP HD CMOS sensor and 8 adjustable LED lights for optimal illumination.
- **Control Buttons:** For power, zoom, brightness adjustment, photo/video capture, and menu navigation.



Image: The DXZtoz Two-Way Articulating Borescope, showing the main unit with its display, control handle, and the flexible probe with its camera head, alongside its protective carrying case.



Rigid Gooseneck Probe

Image: A close-up view of the rigid gooseneck probe, demonstrating its ability to hold a bent shape for precise positioning during inspections.

5. SETUP

5.1 Charging the Device

Before first use, fully charge the borescope. Connect the USB Type-C charging cable to the device's charging port and a compatible USB power adapter (not included). The charging indicator will show the charging status. A full charge takes approximately 4 hours and provides up to 4 hours of working time.

5.2 Inserting/Removing the MicroSD Card

The device comes with a 32GB MicroSD card pre-installed. To remove or insert the card, locate the MicroSD card slot on the main unit. Gently push the card until it clicks to insert, or push again to eject.

5.3 Attaching Accessories

The hook, magnet, and side mirror accessories can be attached to the camera head for specific inspection needs.

Carefully screw them onto the tip of the camera probe.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

Press and hold the power button (usually marked with a power symbol) for a few seconds to turn the device on or off. The IPS monitor will illuminate.

6.2 Camera Articulation Control

The unique two-way articulation feature allows precise control of the camera head. Rotate the control wheel on the handle to bend the camera probe up to 210° in two directions. This enables you to navigate around obstacles, look back, or achieve a 90-degree bend for comprehensive viewing.

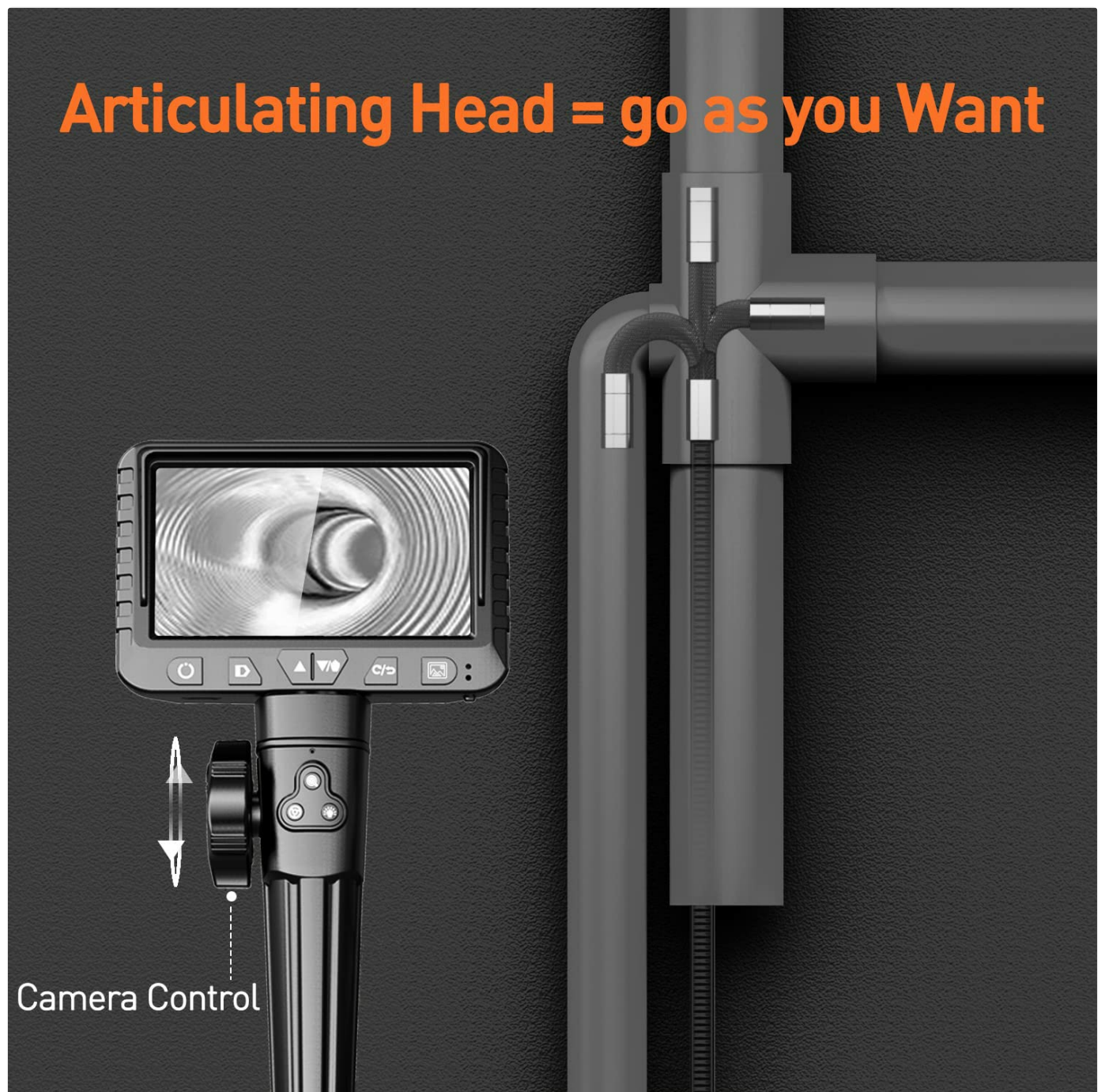


Image: Diagram illustrating the articulation of the camera head within a pipe system, controlled by the wheel on the main unit, allowing for flexible navigation.



Image: Visual examples of the borescope's articulation capabilities, demonstrating how it can "Look Back," achieve a "90 Degree Bend," and "Pass Obstacle" within confined spaces.

6.3 Adjusting LED Brightness

Press the light adjustment button (often marked with a light bulb icon) to cycle through the 4 adjustable brightness levels of the 8 high-intensity LED lights. This helps optimize visibility in various dark inspection environments.

6.4 Photo and Video Capture

To capture an image, press the photo button (camera icon). To record video, press the video button (camcorder icon). Press again to stop recording. All captured media is saved to the MicroSD card.

6.5 Zoom Function

Utilize the zoom function (8X zoom capability) to get a closer look at details on the screen. Refer to the on-screen prompts or dedicated zoom buttons for operation.

6.6 Reviewing Media

Access the gallery or playback mode on the device to review captured photos and videos directly on the IPS screen. You can also remove the MicroSD card and view files on a computer or other compatible device.

7. MAINTENANCE

7.1 Cleaning the Lens and Probe

After each use, especially in dirty or oily environments, gently wipe the camera lens with the provided lens cleaning wipe. The probe is IP67 waterproof and oil-resistant, allowing it to be cleaned with a damp cloth. Ensure the probe is dry before storage.

7.2 Battery Care

To prolong battery life, avoid fully discharging the 3000mAh lithium battery frequently. Recharge the device when the battery indicator is low. If storing for an extended period, charge the battery to about 50% and recharge every few months.

7.3 Storage

Store the borescope and its accessories in the provided portable tool case in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the probe is not sharply bent during storage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery.	Charge the device fully.
No image on screen.	Camera cable not properly connected; Lens is dirty.	Ensure cable is securely connected; Clean the camera lens.
Cannot capture photos/videos.	MicroSD card full or not inserted correctly.	Check MicroSD card insertion; Delete old files or replace card.
Camera articulation is stiff.	Debris in articulation mechanism.	Avoid forcing movement; Contact support if issue persists.

9. SPECIFICATIONS

- **Model Number:** AGC430N
- **Camera Resolution:** 2.0 Megapixels
- **Display:** 4.3-inch IPS Monitor
- **Camera Diameter:** 0.33 inches (8.5mm)
- **Articulation:** Two-way, 210° steering lens
- **Cable Length:** 5.5 feet (approx. 1.67 meters)
- **Focal Distance:** 2-15cm (0.80 - 5.9 inches)
- **LED Lights:** 8 high-intensity LEDs with 4 adjustable brightness levels
- **Waterproof Rating:** IP67 (probe only)
- **Battery:** 3000mAh Lithium Ion (included)
- **Working Time:** Up to 4 hours
- **Storage:** Supports MicroSD card (32GB included)
- **Video Capture Resolution:** 1080p
- **Shooting Modes:** Picture/Video
- **Exposure Control Type:** Automatic
- **Color:** Black
- **Package Dimensions:** 14.68 x 8.74 x 3.07 inches
- **Item Weight:** 3.24 Pounds

LOOK BACK

Examining the entire cylinder and valves



90 DEGREE BEND



PASS OBSTACLE

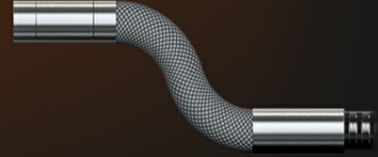


Image: Detailed technical specifications including camera resolution, viewing angle, LED lights, depth of field, and physical dimensions of the probe.

**Waterproof
IP67**



Image: Close-up of the borescope probe tip submerged in water, demonstrating its IP67 waterproof rating.

10. WARRANTY AND SUPPORT

DXZtoz products are designed for reliability and performance. For any questions or problems, please contact DXZtoz customer support via Amazon Messages for a fast reply. You can also email support at support@dxztoz.com. This product is covered by a standard warranty. Please refer to the product packaging or contact customer support for specific warranty terms and conditions.

© 2024 DXZtoz. All rights reserved.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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