MOUNTAINONE OG5860DJBABTX-7C-50M

MOUNTAINONE Pipe Inspection Camera User Manual

Model: OG5860DJBABTX-7C-50M

1. INTRODUCTION

This manual provides detailed instructions for the operation, maintenance, and troubleshooting of your MOUNTAINONE Pipe Inspection Camera. This industrial endoscope system is designed for inspecting pipes, drains, sewers, ducts, and other hard-to-reach areas. It features a 9-inch 1080P IPS screen, a self-leveling camera, DVR recording capabilities, a 512Hz transmitter, and a 50-meter reinforced cable.

Image 1.1: Overview of the MOUNTAINONE Pipe Inspection Camera system, showing the monitor, cable reel, and camera head.

2. SAFETY INSTRUCTIONS

- Always ensure the device is powered off before cleaning or performing maintenance.
- Do not expose the monitor unit to water or excessive moisture. The camera head and cable are waterproof, but the monitor unit is not.

- Use only the provided charger and accessories.

- Avoid bending the cable sharply at extreme angles to prevent damage to the internal fibers.

- Keep the device away from high temperatures and direct sunlight.

- Do not attempt to disassemble or repair the unit yourself. Contact qualified personnel for service.

- Ensure proper ventilation when operating the device for extended periods.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 9-inch IPS Monitor Unit

- Self-Leveling Camera Head with 50M Cable Reel

- Power Adapter/Charger

- Camera Protective Cover (Skids)

- Screwdriver

- 32GB MicroSD Card (pre-installed or separate)

- Connection Cable

Image 3.1: Included accessories: power adapter, camera protective cover, screwdriver, and 32GB SD card.

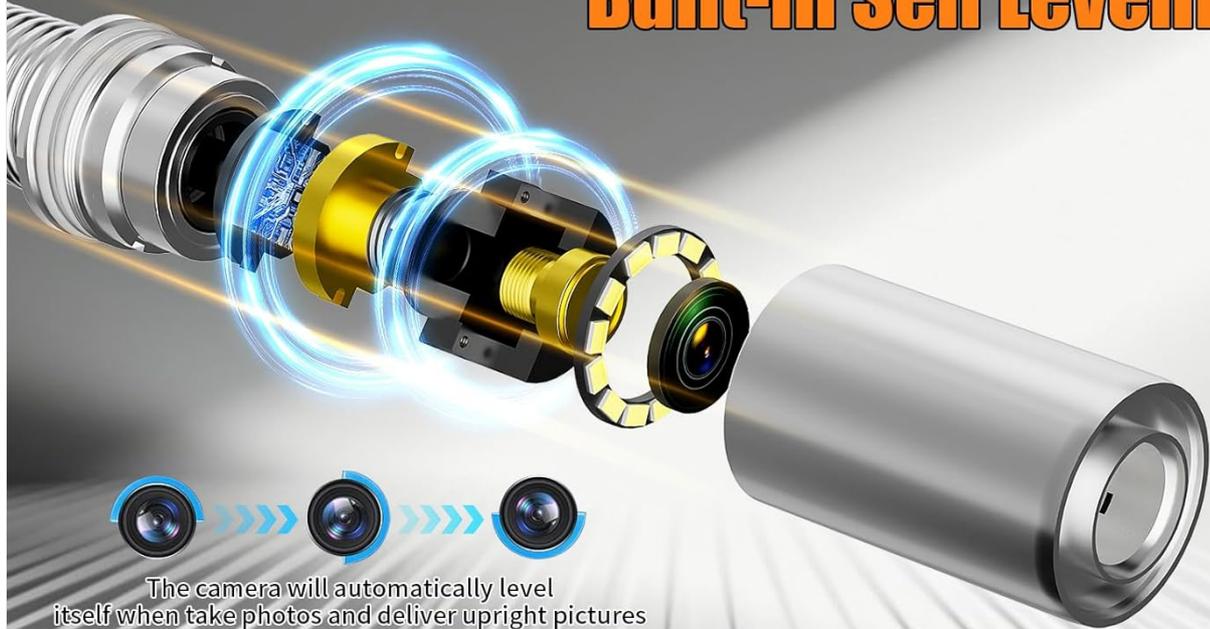# 4. PRODUCT OVERVIEW

4.1. Key Components

- **9-inch 1080P IPS Screen:** Provides a clear, high-definition view of the inspection area from various angles.

- **Self-Leveling Camera Head:** Automatically adjusts to keep the image upright, regardless of the camera's rotation within the pipe.

- **IP68 Waterproof Camera with 12 Adjustable LEDs:** Durable camera head suitable for submerged environments, with adjustable lighting for dark conditions.

- **Built-in Microphone and DVR:** Allows for real-time audio and video recording onto a 32GB MicroSD card (expandable up to 128GB).

- **512Hz Transmitter:** Integrated into the camera head for precise location and depth detection (requires a separate 512Hz receiver).

- **Distance Counter:** Displays the cable length deployed, aiding in pinpointing inspection locations.

- **4500mAh Battery:** Offers 6-8 hours of continuous operation for extended use.

- **7mm Reinforced Fiberglass Cable:** Flexible and abrasion-resistant, designed to navigate tight bends in pipes.

Image 4.1: Features including the 9-inch screen, 5-level digital zoom, and the robust 7mm cable.

Image 4.2: Illustration demonstrating the self-leveling function, ensuring an upright image.

IP68 Waterproof Camera

12 White LED Lights

Image 4.3: The IP68 waterproof camera head, equipped with 12 adjustable white LED lights for illumination.

5. SETUP

1. **Charge the Battery:** Connect the power adapter to the monitor unit and a power outlet. Allow the battery to fully charge before first use (approximately 6-8 hours). The charging indicator will show the status.

2. **Insert MicroSD Card:** Ensure the 32GB MicroSD card is properly inserted into the designated slot on the monitor unit. This is required for recording.

3. **Connect Camera Cable:** Securely connect the camera cable from the reel to the monitor unit's input port. Ensure the connection is firm to prevent signal loss.

4. **Attach Camera Protective Cover (Skid):** Depending on the pipe diameter, select and attach the appropriate camera protective cover (skid) to the camera head. This helps center the camera and protects it from abrasion.

6. Operating Instructions

1. **Power On:** Press and hold the 'ON/OFF' button on the monitor unit to power on the system. The display will activate, showing the live camera feed.

2. **Adjust LED Lights:** Use the 'LED' button or control knob (if present) to adjust the brightness of the 12 LED lights on the camera head. Optimize lighting for clear visibility in the inspection area.

3. **Navigate Menus:** Use the control buttons (e.g., 'MENU', 'UP', 'DOWN', 'OK') to access and navigate the system settings.

4. **Deploy Camera:** Carefully feed the camera head and cable into the pipe or inspection area. Observe the live feed on the monitor.

5. **Monitor Distance:** The integrated distance counter on the screen will display the length of cable deployed, helping to track the camera's position.

6. **Self-Leveling Function:** The camera head will automatically maintain an upright image orientation on the screen.

7. **Zoom Function:** If available, use the zoom controls to magnify specific areas of interest on the screen.

8. **Retrieve Camera:** Once the inspection is complete, carefully retract the cable from the pipe.

9. **Power Off:** Press and hold the 'ON/OFF' button to power off the system.

Image 6.1: An operator deploying the camera into a pipe, demonstrating the use of the meter counter and the cable's flexibility.

7. RECORDING AND PLAYBACK

7.1. Recording Video and Audio

- Ensure a MicroSD card is inserted.
- Press the 'REC' button to start recording. A recording indicator will appear on the screen.
- The built-in microphone will capture audio along with the video footage.
- Press the 'REC' button again to stop recording. The video file will be saved to the MicroSD card.

7.2. Taking Photos

- While viewing the live feed, press the 'PHOTO' button to capture a still image. The image will be saved to the MicroSD card.

7.3. Playback

- Enter the playback mode via the system menu.

- Browse through the recorded videos and photos using the navigation buttons.

- Select a file and press 'OK' to view it.

- You can also remove the MicroSD card and view files on a computer.

Image 7.1: Visual representation of the DVR and voice recording capabilities for detailed inspections.

8. 512Hz Transmitter Usage

The camera head includes a built-in 512Hz transmitter (sonde) that emits a signal. This signal can be detected by a compatible 512Hz receiver (sold separately) to precisely locate the camera head's position and depth within the pipe. This feature is particularly useful for identifying blockages or damage points from above ground.

- Ensure the camera system is powered on and the camera head is deployed into the pipe.

- Activate your 512Hz receiver (refer to the receiver's manual for specific instructions).

- Scan the area above the pipe with the receiver to detect the 512Hz signal from the camera head.

- Follow the receiver's indications to pinpoint the exact location and estimate the depth of the camera.
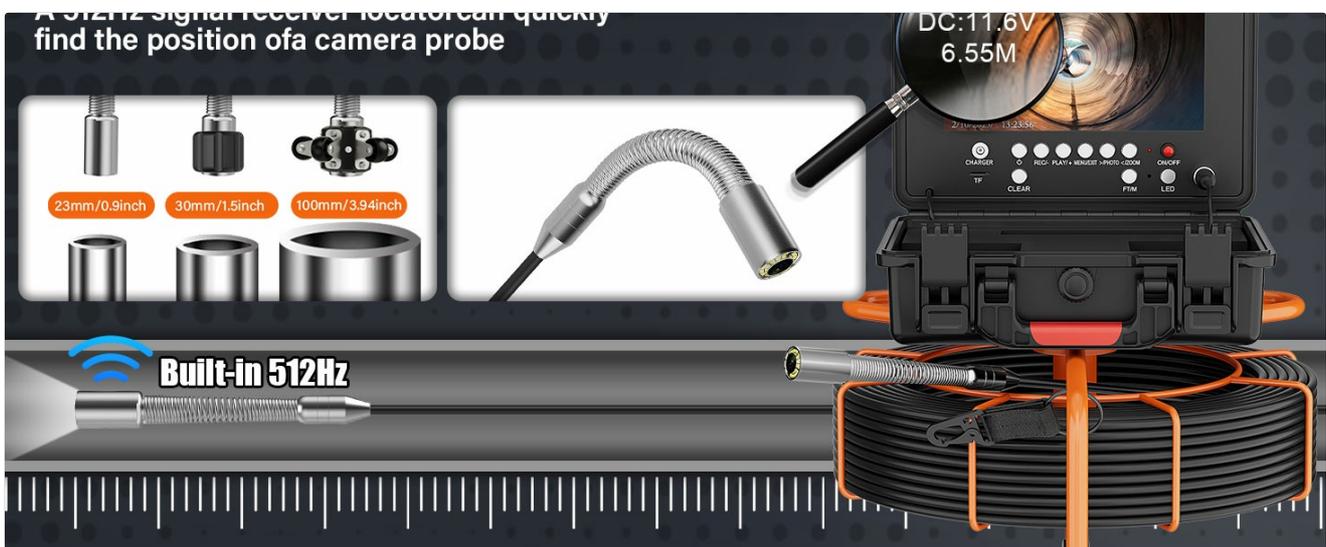
Image 8.1: Illustration of the integrated 512Hz sonde within the camera head for precise location tracking.

9. MAINTENANCE

- **Cleaning the Camera Head:** After each use, carefully clean the camera head with a soft, damp cloth to remove any debris. Do not use abrasive cleaners.
- **Cleaning the Cable:** Wipe down the cable as it is retracted to remove dirt and moisture.
- **Monitor Unit Care:** Clean the monitor screen with a soft, lint-free cloth. Avoid spraying liquids directly onto the screen.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge the battery regularly, even if not in use for extended periods.
- **Storage:** Store the entire system in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the cable is neatly wound on the reel.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on screen	Loose cable connection, low battery, camera fault	Check cable connection, charge battery, restart system.
Poor image quality	Dirty camera lens, insufficient lighting, water on lens	Clean camera lens, adjust LED brightness, ensure lens is clear of water.
Cannot record video/photo	No MicroSD card, full MicroSD card, card error	Insert MicroSD card, delete old files or replace card, format card (backup data first).
Battery not charging	Faulty charger, loose connection, battery fault	Check charger connection, try a different outlet, contact support if issue persists.
512Hz transmitter not working	Receiver not compatible, receiver not powered on, camera fault	Ensure receiver is compatible and powered on. Verify camera system is on.

11. SPECIFICATIONS

Feature	Specification
Model Number	OG5860DJBABTX-7C-50M
Screen Size	9 inches IPS
Video Capture Resolution	1080p
Cable Length	50 meters
Cable Diameter	7mm
Water Resistance Level	IP68 (Camera Head)
Light Source	12 Adjustable White LEDs
Special Features	Self-Leveling, 512Hz Transmitter, DVR Recorder, Distance Counter
Storage Media	MicroSD Card (32GB included, supports up to 128GB)
Battery Capacity	4500mAh (12V)
Operating Time	6-8 hours (approx.)
Connectivity Technology	Auxiliary
Product Dimensions	48 x 39 x 28 cm
Product Weight	10 kg

12. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the purchase platform's return policy or contact the seller directly. Specific warranty periods may vary by region and retailer.
If you received a defective or damaged product, please consult the return policy of your point of purchase for assistance.