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› T TAKMLY N43S Industrial Endoscope Borescope Inspection Camera User Manual

T TAKMLY N43S

T TAKMLY N43S Industrial Endoscope Borescope Inspection Camera User Manual

Model: N43S | Brand: T TAKMLY

1. INTRODUCTION

This manual provides instructions for the safe and effective operation of your T TAKMLY N43S Industrial Endoscope Borescope Inspection Camera. This device is designed for visual inspection in hard-to-reach areas, featuring a dual-lens system, a 4.3-inch HD IPS display, and a 16.5-foot semi-rigid cable. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: T TAKMLY N43S Industrial Endoscope Borescope Inspection Camera with its flexible cable and display unit.

2. SAFETY INFORMATION

- Do not use the device in environments with flammable or explosive gases.
- Keep the device away from water and other liquids unless specifically designed for waterproof use (probe is IP67 rated).
- Avoid direct exposure of the camera lens to strong light sources.
- Do not attempt to disassemble or modify the device. Repairs should only be performed by qualified personnel.
- Ensure the device is fully charged before use to prevent unexpected power loss during inspection.
- Store the device in a dry, cool place when not in use.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x T TAKMLY N43S Endoscope Unit (with 4.3-inch display and 16.5ft semi-rigid cable)
- 1 x USB Charging Cable
- 1 x Magnet Attachment
- 1 x Hook Attachment

- 1 x Mirror Attachment
- 1 x User Manual (this document)

4. PRODUCT OVERVIEW

The T TAKMLY N43S features a main display unit connected to a flexible probe with dual cameras and adjustable LED lights.

4.1 Key Features

- **4.3-inch HD IPS Display:** Provides real-time 1080P high-definition images.
- **Dual Lens Camera:** Front camera (A) and side camera (B) for versatile viewing angles.
- **Adjustable LED Lights:** 8 built-in LEDs on the front camera for illumination in dark environments.
- **IP67 Waterproof Probe:** Suitable for use in wet conditions.
- **16.5ft Semi-Rigid Cable:** Allows for easy navigation through narrow and confined spaces.
- **2000mAh Rechargeable Battery:** Provides up to 5 hours of continuous operation.

4.2 Device Components



Figure 2: Overview of the endoscope's main features and components.



Figure 3: Detailed view of the dual-lens camera system, showing Front Camera A and Side Camera B.



Figure 4: The IP67 waterproof camera lens with its 8 adjustable LED lights.

5. SETUP

5.1 Charging the Device

1. Connect the provided USB charging cable to the charging port on the endoscope display 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. A full charge typically takes approximately 3 hours.
4. The built-in 2000mAh battery provides up to 5 hours of standby time on a single charge.



Figure 5: Illustration of the device's long working time due to its 2000mAh rechargeable battery.

5.2 Attaching Accessories

The endoscope comes with magnet, hook, and mirror attachments. To attach them:

1. Carefully slide the desired attachment onto the tip of the camera probe until it is securely in place.
2. Ensure the attachment does not obstruct the camera lens or LED lights.

6. OPERATING INSTRUCTIONS

6.1 Power 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 again until the screen turns off.

6.2 Camera Switching (Dual Lens)

The device features a front camera (A) and a side camera (B). To switch between them:

- Press the "Shot Transition" button (often labeled with a camera icon or "M") to toggle between the front view and the side view.



Figure 6: Switching between Front Camera A and Side Camera B by holding the designated button for 2 seconds.

6.3 Adjusting LED Lights

The camera probe has 8 adjustable LED lights to illuminate the inspection area.

- Use the LED Adjustment "+" and "-" buttons (often labeled with a light bulb icon and +/-) to increase or decrease the brightness.
- The lights can also be turned off if not needed.

6.4 Zoom Function

- Press the "Zoom In" button (+) to magnify the image on the screen.
- Press the "Zoom Out" button (-) to reduce the magnification.

6.5 Image Rotation

- Press the "180° Rotation" button to rotate the image on the display, which can be useful when navigating in complex spaces.



Figure 7: Control panel layout with buttons for various functions.

6.6 Practical Applications

The T TAKMLY N43S endoscope is suitable for various inspection tasks:

- Automotive inspections (engine cylinders, valves, pistons, spark plugs).
- Plumbing inspections (drain pipes, bathtubs, toilets).
- HVAC inspections (vent pipes, air conditioners).
- Electrical work inside walls.
- General household inspections in hard-to-reach areas.

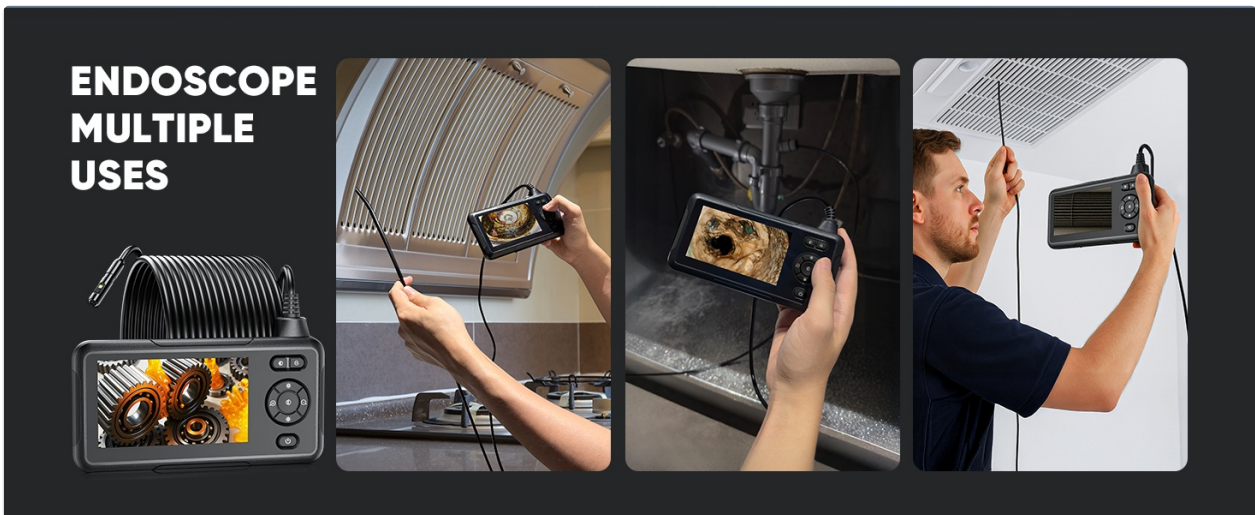


Figure 8: Examples of the endoscope's multiple uses in different inspection scenarios.

7. MAINTENANCE

7.1 Cleaning

- After each use, especially in dirty or wet environments, gently wipe the camera probe with a soft, damp cloth.
- Ensure the lens is clean for optimal image clarity. Do not use abrasive cleaners or solvents.
- Clean the display unit with a dry, soft cloth.

7.2 Storage

- Store the endoscope in a cool, dry place, away from direct sunlight and extreme temperatures.
- Avoid bending the semi-rigid cable sharply to prevent damage. Coil it loosely for storage.
- Keep the device and accessories out of reach of children.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery.	Charge the device fully (refer to Section 5.1).
No image on screen.	Device not powered on; cable not properly connected; camera lens obstructed.	Ensure device is on; check cable connection; clean camera lens.
Image is blurry or unclear.	Dirty lens; insufficient lighting; object too close/far.	Clean the camera lens; adjust LED brightness; adjust focal distance (optimal 2-10cm for front, 2-6cm for side).
LED lights not working.	Lights turned off or brightness set to minimum.	Adjust LED brightness using the +/- buttons.

9. SPECIFICATIONS

Feature	Detail
Model Number	N43S
Display Screen	4.3-inch HD IPS Color Display
Video Capture Resolution	1080P (1920x1080)
Camera Diameter	8.0mm
Lens Type	Dual Lens (Front A, Side B)
Front Camera Focal Length	2cm - 10cm (0.79 - 3.93 inches)
Side Camera Focal Length	2cm - 6cm (0.79 - 2.36 inches)
Cable Length	16.5 feet (5 meters)
Cable Type	Semi-Rigid
Waterproof Rating	IP67 (for camera probe)
LED Lights	8 adjustable LEDs (on front camera)
Battery Capacity	2000mAh Lithium Polymer

Feature	Detail
Battery Life	Up to 5 hours (standby)
Charging Time	Approx. 3 hours
Item Weight	1.79 pounds
Package Dimensions	7.76 x 5.35 x 3.15 inches

10. WARRANTY AND SUPPORT

TAKMLY offers a 24-month free warranty for this product. For any questions or assistance with your TAKMLY N43S Industrial Endoscope Borescope Inspection Camera, please contact our customer support team. We provide 24-hour professional and kind after-sales service.

Contact information can typically be found on the product packaging or through the retailer where the product was purchased.