Teslong NTS450A-5.5-3M

Teslong Industrial Endoscope Camera User Manual

Model: NTS450A-5.5-3M | Brand: Teslong

1. Introduction and Overview

The Teslong Industrial Endoscope Camera is a versatile inspection tool designed for evaluating and diagnosing issues in various environments, including automotive, HVAC, plumbing, and home inspections. Featuring an upgraded 4.5-inch IPS monitor and a 0.21-inch waterproof gooseneck camera, it provides clear visuals in hard-to-reach areas. Its all-inclusive design eliminates the need for external devices like smartphones, offering a convenient and efficient inspection experience.

Figure 1: Teslong Industrial Endoscope Camera

2. What's in the Box

Your Teslong Industrial Endoscope Camera package includes the following components:

- Endoscope Monitor (Main Unit)
- 3-meter Camera Probe (Gooseneck Snake Camera)
- Micro USB Charging Cable
- 32GB MicroSD Card (pre-installed or included separately)
- Accessories: Side-view Mirror, Hook, Magnet
- Hard Plastic Tool Box
- User's Manual

Figure 2: Package Contents

3. Setup

3.1 Charging the Device

Before initial use, ensure the endoscope monitor is fully charged. Connect the provided Micro USB cable to the charging port on the side of the monitor and plug the other end into a compatible USB power source. A red light will flash during charging and will turn off once the battery is fully charged. The device features a 2500mAh rechargeable lithium battery.

3.2 Inserting the Camera Probe

Align the connector of the camera probe with the port on the top of the monitor. Ensure the keying marks align (often indicated by a red dot) and gently push the probe into the port. Screw the collar to secure the connection. The probe is designed to be semi-rigid, allowing it to hold its shape for easier navigation into tight spaces.

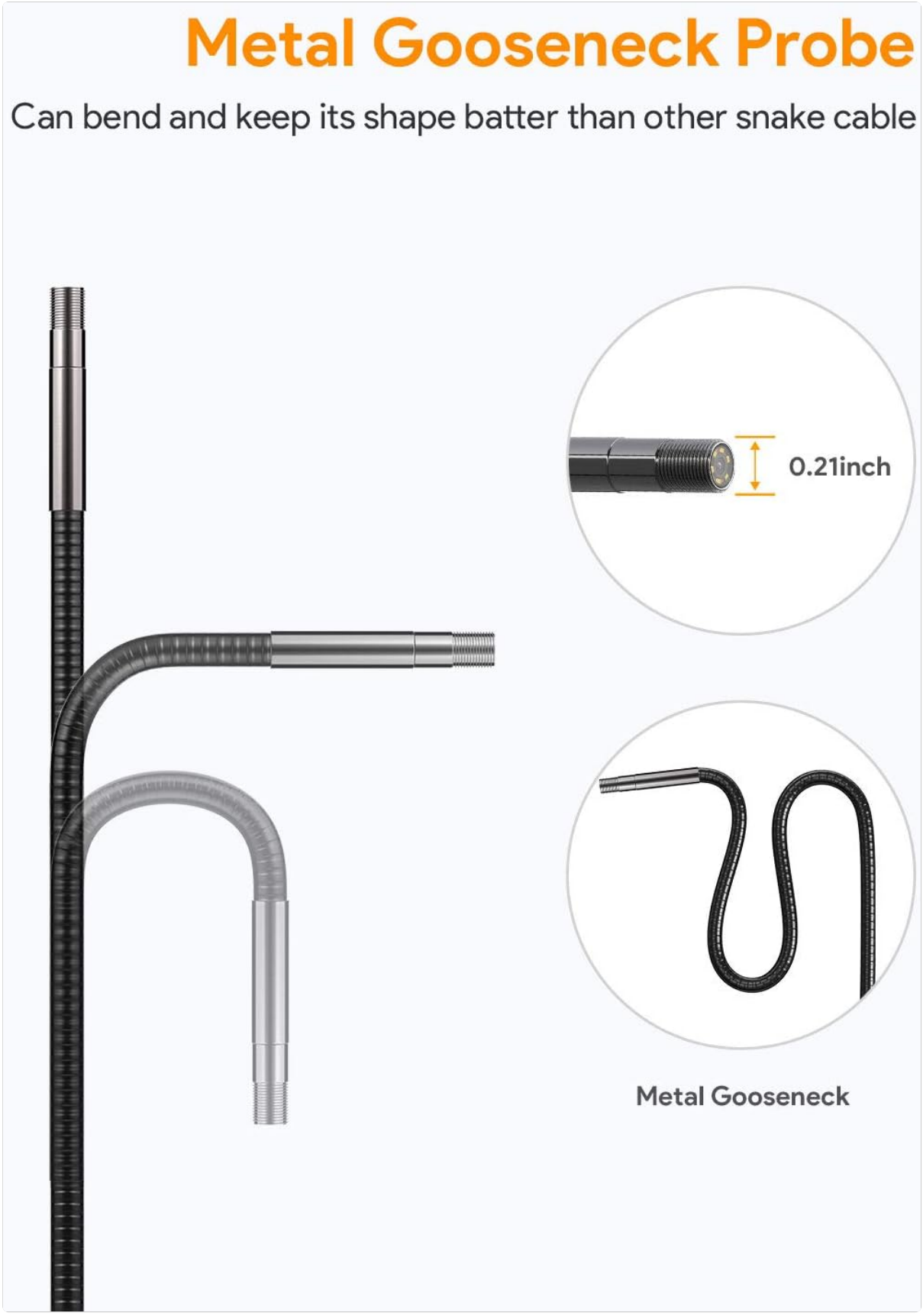

Figure 3: Metal Gooseneck Probe

3.3 Powering On and Initial Settings

Press and hold the power button (usually marked with a circle and vertical line) to turn on the device. Upon startup, you may be prompted to set the date and time. Navigate the menu using the directional buttons and confirm selections with the 'OK' button. The device supports multiple languages.

4. Operating Instructions

4.1 Basic Operation

Once powered on, the live feed from the camera probe will appear on the 4.5-inch IPS monitor. Use the directional buttons to navigate menus and adjust settings. The device features a dedicated button for controlling the LED lights on the camera probe, allowing you to adjust brightness levels for optimal visibility in dark environments.

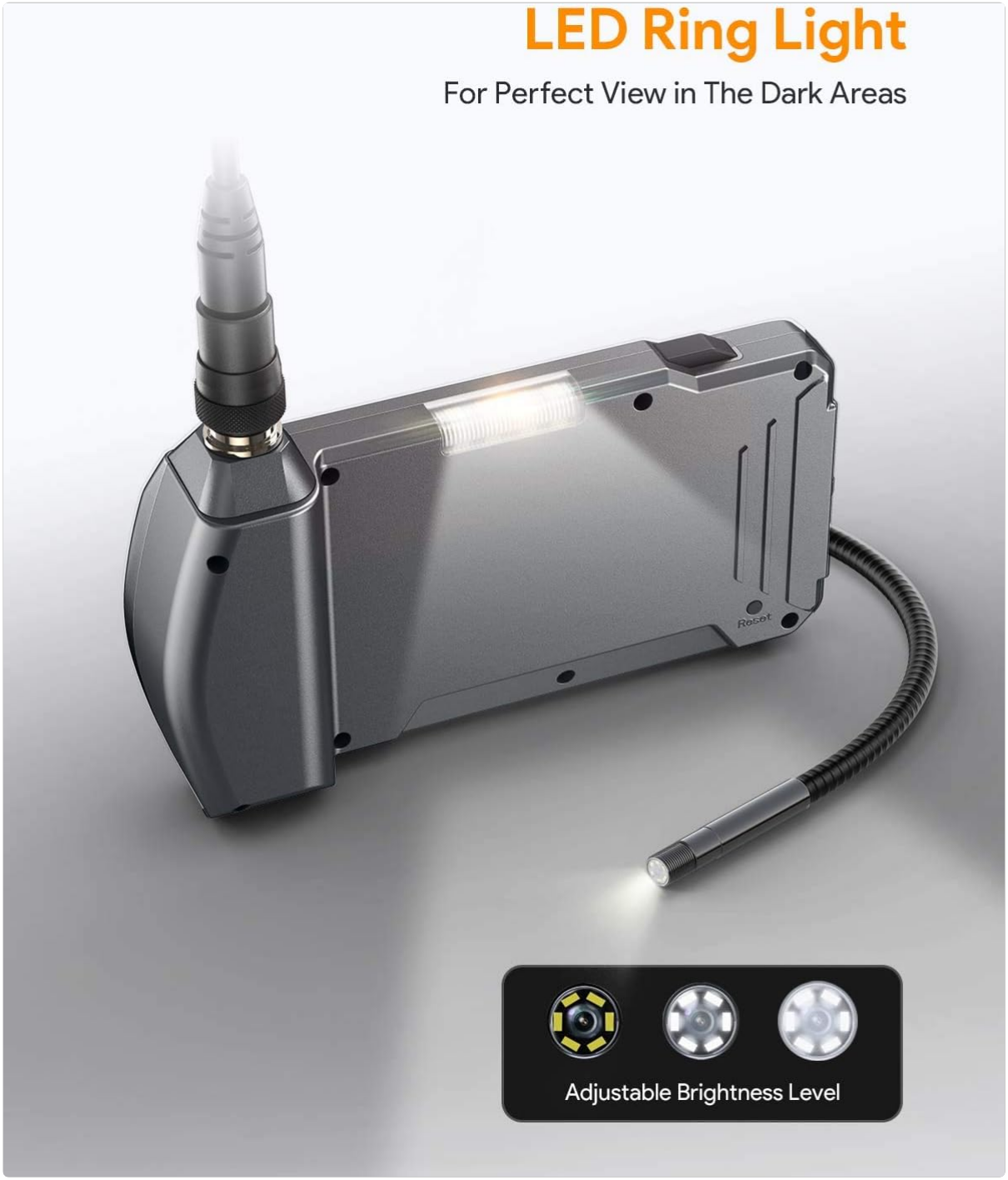

Figure 4: LED Ring Light Control

4.2 Recording Video and Capturing Images

To record video, press the record button (often indicated by a camera icon). Press it again to stop recording. To capture a still image, press the capture button (often indicated by a camera icon with a single dot). All recorded videos and images are saved to the MicroSD card. You can review saved media by switching to playback mode via the 'Mode' button.

4.3 Using Accessories

The endoscope comes with several useful accessories that can be attached to the camera probe:

- **Side-view Mirror:** Attaches to the camera head to provide a 90-degree viewing angle, useful for inspecting sides of pipes or hidden corners.
- **Hook:** Can be used to retrieve small objects from hard-to-reach areas.
- **Magnet:** Ideal for picking up metallic items like screws or nuts that have fallen into inaccessible spots.

To attach an accessory, carefully screw it onto the threaded tip of the camera probe. Ensure it is securely fastened before use.

4.4 Practical Applications

The Teslong endoscope is suitable for a wide range of applications:

- **Automotive:** Inspect engine cylinders, valves, spark plugs, and other internal components without disassembly.
- **HVAC:** Examine ducts, vents, and internal mechanisms of heating and cooling systems.
- **Drain Pipe Inspection:** The waterproof probe is perfect for checking clogs, corrosion, or damage in plumbing systems.
- **House Check:** Inspect walls for wiring, insulation, or pest issues; check behind appliances or in crawl spaces.

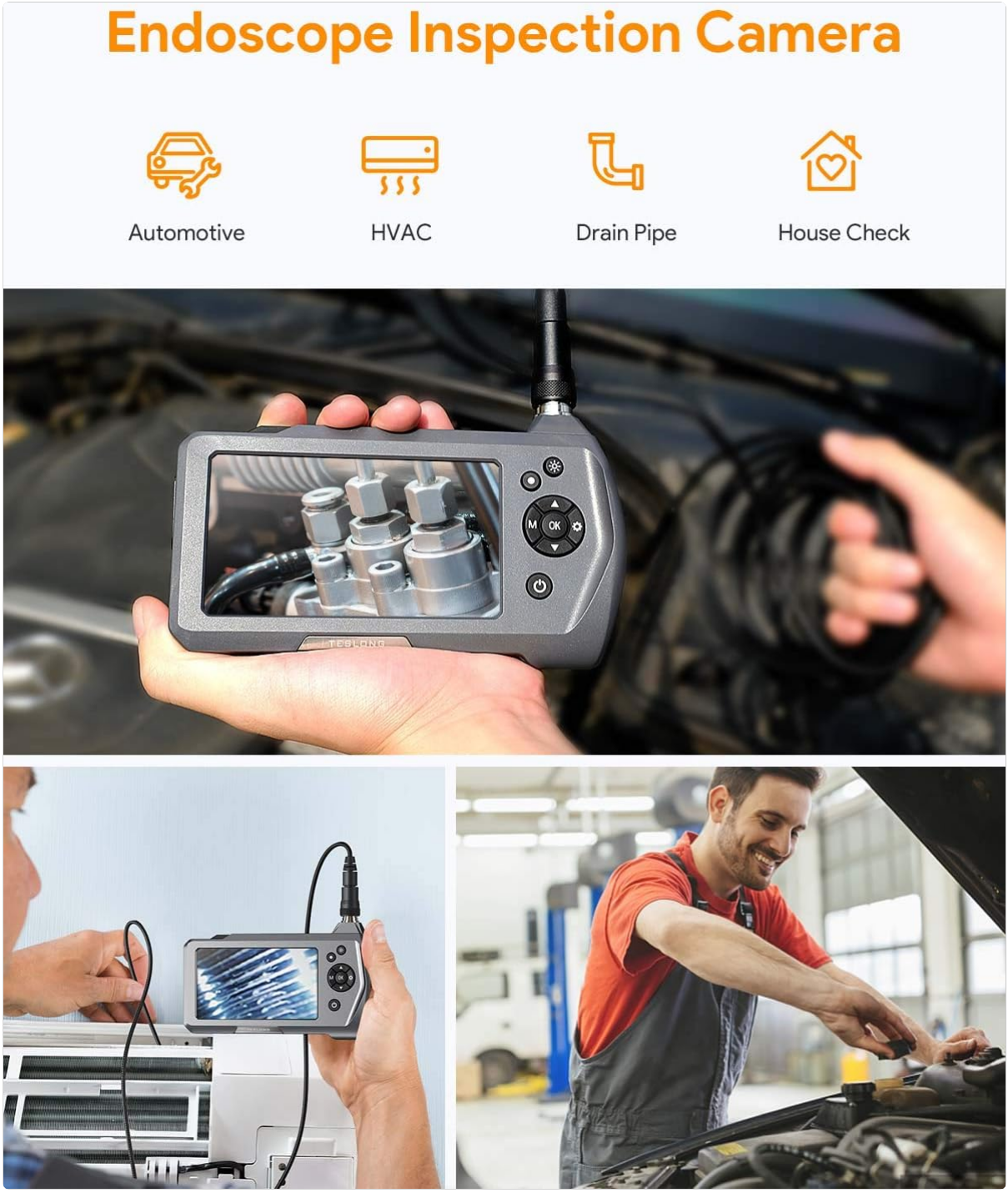

Figure 5: Endoscope Usage Scenarios

5. Maintenance

To ensure the longevity and optimal performance of your Teslong Industrial Endoscope Camera, follow these maintenance guidelines:

- **Cleaning the Probe and Lens:** After each use, especially in dirty or wet environments, gently wipe the camera probe and lens with a soft, damp cloth. For stubborn grime, use a small amount of mild soap. Ensure the probe is dry before storage.
- **Battery Care:** Recharge the device regularly, even if not in frequent use, to maintain battery health. Avoid fully discharging the battery for extended periods. Store the device in a cool, dry place.
- **Storage:** Store the endoscope and its accessories in the provided hard plastic toolbox to protect

them from dust, moisture, and physical damage.

- **Monitor Protection:** The monitor features a tempered glass protective screen. Avoid dropping the device or exposing the screen to sharp objects.

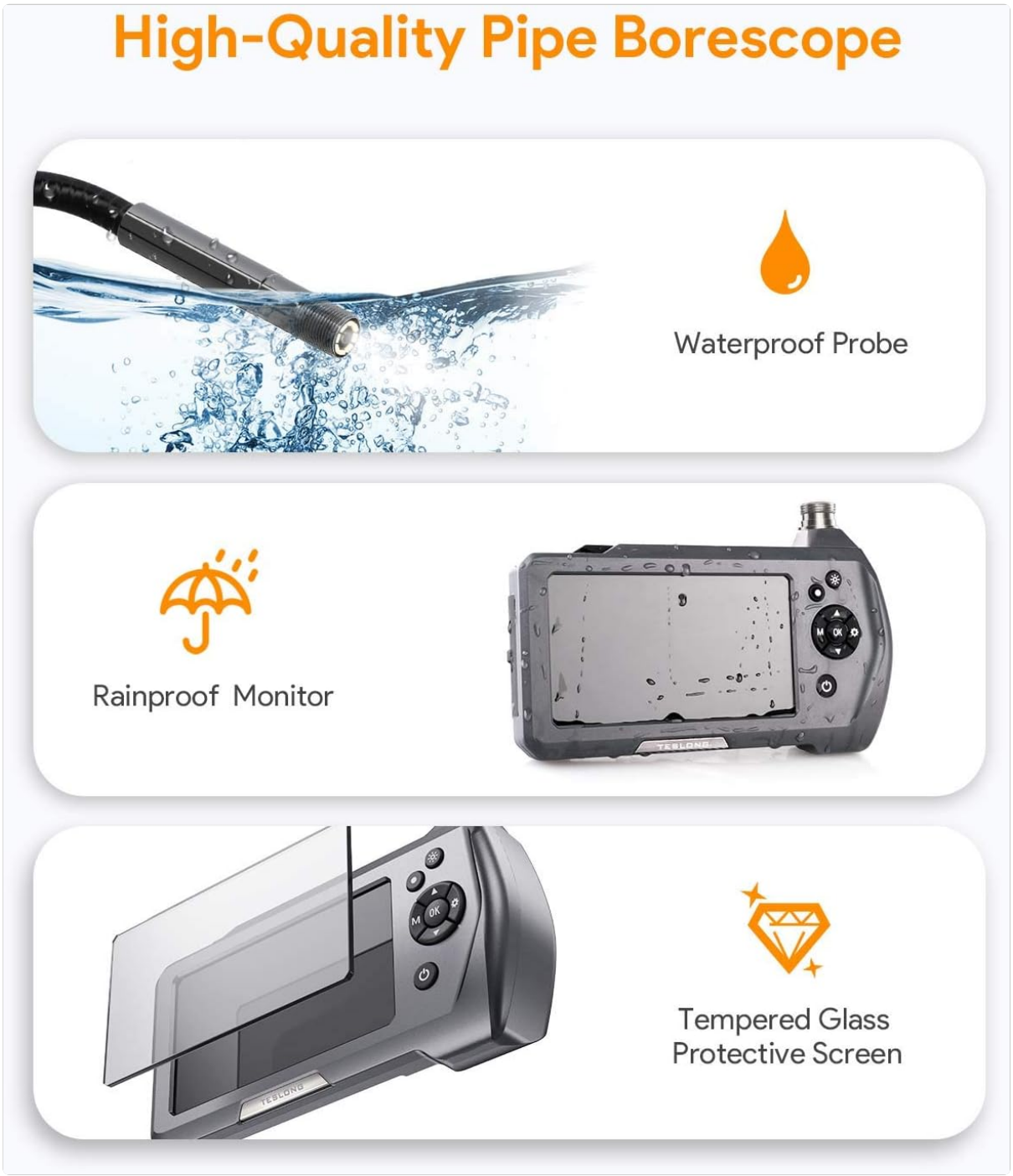

Figure 6: Waterproof and Protective Features

6. Troubleshooting

If you encounter issues with your Teslong Industrial Endoscope Camera, consider the following common troubleshooting steps:

- **No Power:** Ensure the battery is fully charged. If the device does not turn on after charging, try pressing the reset button (if available, typically a small pinhole).
- **Poor Image Quality:** Check if the camera lens is clean and free from debris. Adjust the LED light brightness for better illumination. Ensure the object being viewed is within the optimal focal range

(30mm-60mm).

- **Lights Not Working:** Verify that the LED light control button is functioning. If the lights are dim or not working, the battery may be low.
- **Recording Issues:** Ensure the MicroSD card is properly inserted and has sufficient free space. The card may need to be formatted (refer to Section 3.3 for menu navigation).
- **Device Freezes:** Press the reset button to restart the device.

For more detailed troubleshooting or persistent issues, please refer to the comprehensive user manual included in your package or contact Teslong customer service.

7. Specifications

Feature	Specification
Screen Type	4.5 inch IPS Full Color Screen
Video Recording Resolution	720p
Image Capturing Resolution	640x480 (Pixels)
Camera Diameter	0.21 inches (5.5mm)
Viewing Angle	60°
Depth of Field	30mm - 60mm
Light Source	6 Adjustable High-intensity LEDs
LED Flash Light	4pcs High Brightness LEDs
Port	Micro USB, TF Card Slot
Operating Temperature	32° to 113°F (0° to 45°C)
Power Source	2500mAh Lithium Battery
Max Battery Life	5-6 Hours
Water Resistance Level	Waterproof (Probe) / Rainproof (Monitor)

8. Warranty and Support

The Teslong Industrial Endoscope Camera comes with a worry-free 18-month warranty. For warranty claims, technical support, or any inquiries, please refer to the contact information provided in your user manual or visit the official Teslong website.

You can also access the Safety Information PDFhere for additional safety guidelines.

Related Documents - NTS450A-5.5-3M

	Teslong NTS300 Inspection Camera User Manual and Guide Comprehensive user manual for the Teslong NTS300 inspection camera, detailing features, specifications, operating instructions, settings, and customer support.
	Teslong NTG500 Digital Borescope User Manual and Product Information Comprehensive guide to the Teslong NTG500 Digital Borescope, detailing product specifications, usage instructions, photo/video functions, file transfer, and charging. Features a 5-inch screen for firearms enthusiasts.
	TESLONG NTG100H/NTG100P Rifle Borescope User Guide User manual for TESLONG NTG100H and NTG100P borescopes, covering product description, setup for Windows, Mac, and Android, focusing, LED adjustment, and specifications.
	Teslong MS450-NTC Inspection Camera User Manual This user manual guides users through the operation of the Teslong MS450-NTC inspection camera, a 4.5-inch HD endoscope. It covers product functions, safety, maintenance, battery, language settings, and specifications for effective visual inspection.
	Teslong NTG100 Rifle Borescope User Manual - Inspection Camera Guide Comprehensive user manual for the Teslong NTG100 Rifle Borescope. Learn how to connect, use with Windows, Mac, and Android devices, and view specifications for this inspection camera.
	KZYEE KZ3000 Borescope Inspection Camera User Manual User manual for the KZYEE KZ3000 Triple Lens Borescope Inspection Camera, detailing its features, specifications, operation, and maintenance.