

## DEPSTECH DS300

# DEPSTECH DS300 Industrial Endoscope User Manual

Model: DS300

## 1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your DEPSTECH DS300 Industrial Endoscope. Please read this manual thoroughly before operating the device to ensure proper functionality and to prevent damage. Retain this manual for future reference.

The DEPSTECH DS300 is a versatile inspection camera designed for examining hard-to-reach areas. It features a 5.5mm ultra-thin probe, a 4.3-inch display, 1080P resolution, and IP67 waterproofing, making it suitable for various industrial, automotive, and household inspection tasks.

## 2. PRODUCT OVERVIEW

### 2.1 Components

The DEPSTECH DS300 Industrial Endoscope system includes the main display unit, a semi-rigid camera cable with an integrated probe, and various accessories.



**Figure 2.1:** The DEPSTECH DS300 Industrial Endoscope main unit with its flexible camera probe, displaying an engine interior on its screen.

## 2.2 Key Features

- **Ultra-Thin 5.5mm Probe:** Allows access into very narrow spaces.
- **Integrated 4.3-inch LCD Screen:** Provides a clear 1080P high-definition view with a 170° horizontal viewing angle.
- **1080P HD Camera:** Captures high-resolution images and videos.
- **IP67 Waterproof Rating:** Ensures the camera probe is resistant to water immersion.
- **Adjustable LED Lights:** Six integrated LED lights with Bluart technology provide illumination in dark environments.
- **16.5-Foot Semi-Rigid Cable:** Maintains its shape for easier navigation through complex paths.
- **Photo and Video Capture:** Records inspections directly to an included 32GB TF card.
- **Built-in Battery:** Offers up to 4 hours of continuous operation.
- **No Wi-Fi or App Required:** Operates as a standalone unit for immediate use.

# 5.5MM ULTRA THIN LENS



**Figure 2.2:** The 5.5mm ultra-thin lens of the DEPSTECH DS300 compared to a standard 8mm lens, demonstrating its ability to fit into smaller openings.





**Figure 2.3:** The endoscope being held, illustrating its standalone operation without the need for a phone, Wi-Fi, or an external application.

## 3. SETUP

### 3.1 Charging the Device

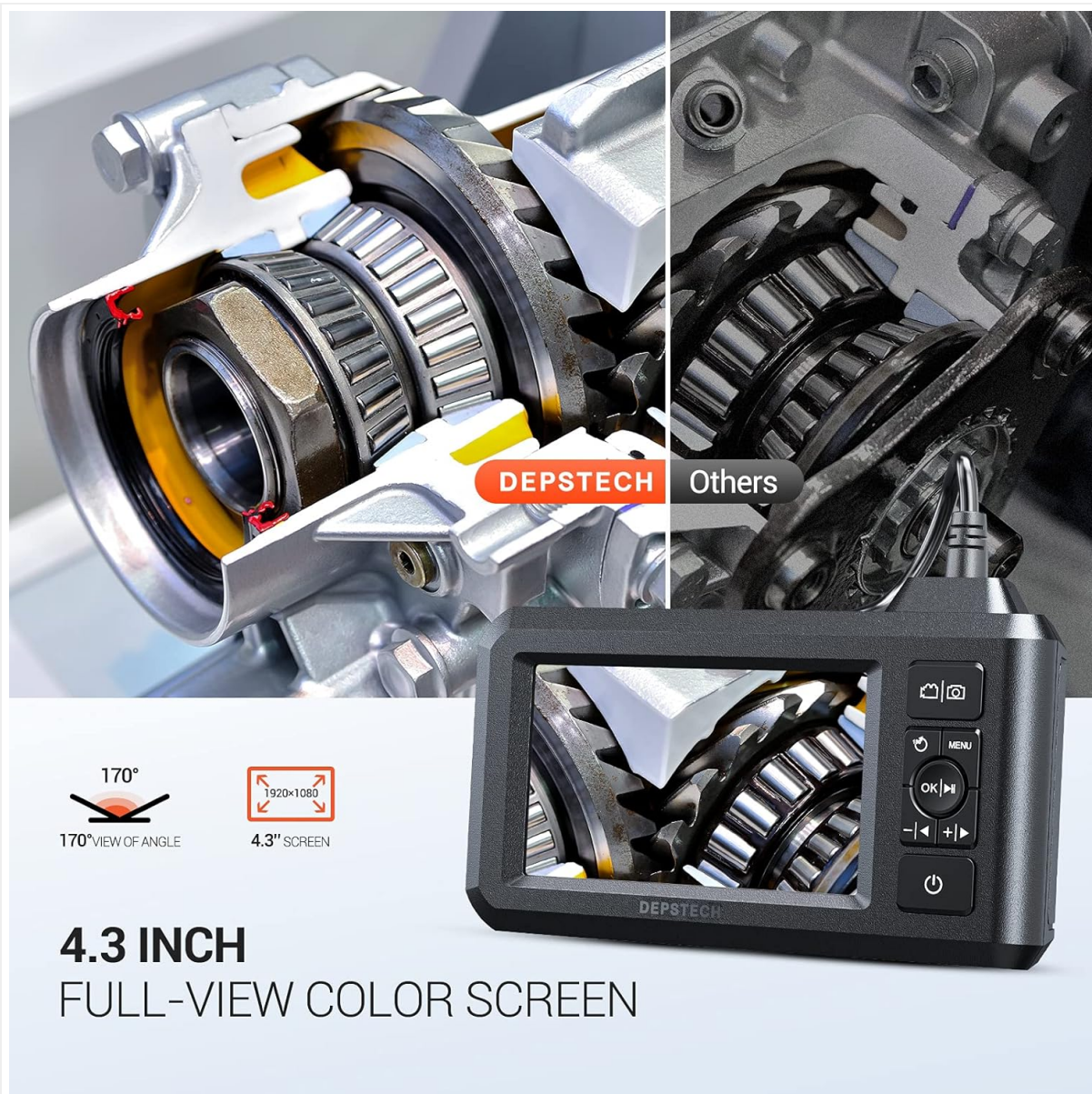
Before first use, fully charge the endoscope's built-in Lithium Ion battery. Connect the device to a standard USB power adapter (not included) using the provided USB to Micro USB cable. The charging indicator will show the charging status. A full charge provides up to 4 hours of continuous operation.

### 3.2 Inserting the TF Card

The device comes with a 32GB TF card pre-installed or included separately. If not installed, locate the TF card slot on the side of the main unit and gently insert the card until it clicks into place. This card is essential for saving photos and videos.

### 3.3 Attaching Accessories

The endoscope includes a set of accessories: hooks, magnets, and a side mirror. To attach an accessory, carefully place it onto the tip of the camera probe. Ensure it is securely fastened before use. A protective cap is also provided for the camera lens when not in use.



**Figure 3.1:** The DEPSTECH DS300 Endoscope box, main unit, camera cable, user manual, USB cable, and various accessories including hooks, magnets, and a side mirror.

## 4. OPERATING INSTRUCTIONS

### 4.1 Powering On/Off

To power on the device, press and hold the power button located on the main unit until the screen illuminates. To power off, press and hold the power button again until the screen turns off.

### 4.2 Navigating the Display

The 4.3-inch LCD screen displays the live feed from the camera. Use the navigation buttons (up, down, OK/select, menu) to access settings and review captured media. The screen offers a 170° horizontal viewing angle for clear observation.





**Figure 4.1:** The 4.3-inch full-view color screen of the endoscope, highlighting its wide viewing angle and 1080P resolution.

### 4.3 Adjusting LED Lights

The camera probe is equipped with six adjustable LED lights. Use the dedicated light adjustment button on the main unit to cycle through three brightness levels or turn the lights off. This allows for optimal visibility in various lighting conditions.

### 4.4 Capturing Photos and Videos

To capture a photo, press the photo button. To start recording a video, press the video button; press it again to stop recording. All captured media is saved to the inserted TF card in 1080P resolution.

# IP67 WATERPROOF



## 6 Adjustable Led Lights



**Figure 4.2:** An illustration of the Bluart 2.0 technology and HD camera components, indicating 30fps video recording and 1080P image capture for excellent detail and low-light performance.

### 4.5 Image Rotation

For optimal viewing, the image on the screen can be rotated 180° with a single button press. This is useful when the probe is oriented in an inverted position.

### 4.6 Focal Range and Cable Handling

The camera's optimal focal range is approximately 1.96 to 3.93 inches (5 to 10 cm). Position the camera within this range for the clearest visuals. The 16.5-foot semi-rigid cable can be bent and held in shape to navigate around obstacles and reach desired inspection points.



**Figure 4.3:** The IP67 waterproof camera probe being rinsed under water, demonstrating its water resistance, along with illustrations of the six adjustable LED light settings.





**Figure 4.4:** Examples of the endoscope in use, inspecting a sink drain, a car engine, and a wall cavity, highlighting its versatility.

## 5. MAINTENANCE

### 5.1 Cleaning the Device

After each use, especially in dirty or wet environments, clean the camera probe. The IP67 waterproof rating allows for rinsing the probe with water. Use a soft, damp cloth to wipe the probe and lens. For the main unit, use a dry, soft cloth. Do not use abrasive cleaners or solvents.

### 5.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Recharge the device when the battery level is low. If storing the device for an extended period, ensure it is charged to approximately 50% and recharge every few months.

### 5.3 Storage

Store the endoscope in a cool, dry place, away from direct sunlight and extreme temperatures. Keep the protective cap on the camera lens when not in use to prevent scratches and dust accumulation.

## 6. TROUBLESHOOTING

### 6.1 No Signal on Screen

- Ensure the camera cable is securely connected to the main unit.
- Restart the device.
- Check if the camera lens is obstructed or damaged.

### 6.2 Picture Delay or Freezing

- Ensure the TF card has sufficient free space.
- The device utilizes an advanced CMOS chip to minimize picture delay; if issues persist, try restarting.
- Ensure the battery is adequately charged.

### 6.3 Unable to Save Photos/Videos

- Verify that the TF card is correctly inserted.
- Check if the TF card is full; delete unnecessary files or replace the card.
- Ensure the TF card is not write-protected.

### 6.4 Device Not Turning On

- Ensure the battery is charged. Connect to a power source and attempt to power on.
- If the device has been stored for a long time, it may require a longer charging period before it can power on.

## 7. SPECIFICATIONS

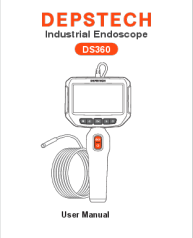

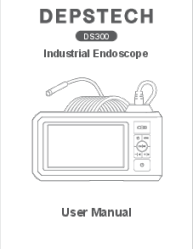
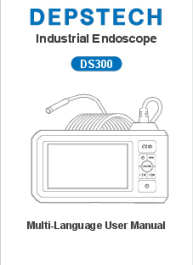


Model Number	DS300
Probe Diameter	5.5mm
Screen Size	4.3-inch LCD
Video Capture Resolution	1080p
Cable Length	16.5 feet (approx. 5 meters)
Waterproof Rating	IP67 (for camera probe)
LED Lights	6 adjustable LED lights
Focal Range	1.96 - 3.93 inches (5 - 10 cm)
Battery Type	Lithium Ion (included)
Battery Life	Up to 4 hours continuous operation
Storage	32GB TF Card (included)
Exposure Control Type	Automatic

## 8. WARRANTY AND SUPPORT

The DEPSTECH DS300 Industrial Endoscope comes with a 2-year warranty. For any inquiries, technical assistance, or warranty claims, please contact DEPSTECH customer support. Our support team is available 24/7 to provide assistance.

Please refer to the official DEPSTECH website or your purchase documentation for specific contact details.

## Related Documents - DS300

 The cover of the DEPSTECH DS360 Industrial Endoscope User Manual. It features the DEPSTECH logo at the top, followed by 'Industrial Endoscope' and 'DS360'. Below this is a line drawing of the endoscope device with a coiled cable and a handle. At the bottom, it says 'User Manual'.	<p><a href="#">DEPSTECH DS360 Industrial Endoscope User Manual</a></p> <p>User manual for the DEPSTECH DS360 Industrial Endoscope, detailing product features, introduction, UI, language settings, photo/video operations, lens switching, TF card formatting, data transfer, charging, and specifications.</p>
 The cover of the DEPSTECH DS300 Dual Lens Endoscope Operation Guidance. It features the DEPSTECH logo at the top, followed by 'Industrial Endoscope' and 'DS300'. Below this is a line drawing of the endoscope device with a coiled cable and a handle. At the bottom, it says 'User Manual'.	<p><a href="#">DEPSTECH DS300 Dual Lens Endoscope Operation Guidance</a></p> <p>User guide for the DEPSTECH DS300 Dual Lens Industrial Endoscope, covering UI introduction, photo/video operations, file management, screen rotation, lens switching, TF card formatting, and accessory installation.</p>
 The cover of the DEPSTECH DS300 Industrial Endoscope User Manual. It features the DEPSTECH logo at the top, followed by 'Industrial Endoscope' and 'DS300'. Below this is a line drawing of the endoscope device with a coiled cable and a handle. At the bottom, it says 'User Manual'.	<p><a href="#">DEPSTECH DS300 Industrial Endoscope User Manual</a></p> <p>User manual for the DEPSTECH DS300 Industrial Endoscope, detailing its features, operation, specifications, and troubleshooting. Learn how to use this cost-efficient 4.3" digital screen endoscope for car maintenance, pipeline repair, and exploring miniature worlds.</p>
 The cover of the DEPSTECH DS300 Industrial Endoscope User Manual. It features the DEPSTECH logo at the top, followed by 'Industrial Endoscope' and 'DS300'. Below this is a line drawing of the endoscope device with a coiled cable and a handle. At the bottom, it says 'User Manual'.	<p><a href="#">DEPSTECH DS300 Industrial Endoscope User Manual</a></p> <p>Comprehensive user manual for the DEPSTECH DS300 Industrial Endoscope, covering its features, operation, specifications, and troubleshooting. This guide is designed for industrial inspection tasks such as car maintenance and pipeline repair.</p>
 The cover of the DEPSTECH WF010 FHD Inspection Camera User Manual. It features the DEPSTECH logo at the top, followed by 'FHD Inspection Camera' and 'WF010'. Below this is a line drawing of the inspection camera with a coiled cable. At the bottom, it says 'Multi-Language User Manual'.	<p><a href="#">DEPSTECH WF010 FHD Inspection Camera User Manual</a></p> <p>Comprehensive user manual for the DEPSTECH WF010 FHD Inspection Camera, covering product structure, app downloading and connection, device operation, app features, charging guide, accessory installation, technical parameters, frequently asked questions, and safety information.</p>
 The cover of the DEPSTECH DS350DL Dual Lens Endoscope Operation Guide. It features the DEPSTECH logo at the top, followed by 'Industrial Endoscope' and 'DS350DL'. Below this is a line drawing of the endoscope device with a coiled cable and a handle. At the bottom, it says 'User Manual'.	<p><a href="#">DEPSTECH DS350DL Dual Lens Endoscope Operation Guide</a></p> <p>Comprehensive guide to operating the DEPSTECH DS350DL Dual Lens Endoscope, covering photo/video capture, viewing, deletion, screen rotation, lens switching, TF card formatting, and file transfer.</p>



