

DEPSTECH DS520

DEPSTECH Triple Lens Borescope Inspection Camera DS520 User Manual

Model: DS520 | Brand: DEPSTECH

1. INTRODUCTION

The DEPSTECH DS520 Triple Lens Borescope Inspection Camera is a versatile industrial tool designed for detailed visual inspection in hard-to-reach areas. Featuring a 5-inch IPS screen, 1080P resolution, and a flexible 16.5FT cable with three integrated lenses, it provides comprehensive viewing capabilities. This manual provides essential instructions for setting up, operating, and maintaining your borescope to ensure optimal performance and longevity.

2. WHAT'S IN THE BOX

- DEPSTECH DS520 Borescope Unit with 5" IPS Screen
- 16.5FT Triple Lens Camera Cable
- 50FT Fish Tape Wire Puller
- USB-C Charging Cable
- 32GB Micro SD Card (pre-installed)
- Hard Carrying Case
- User Manual
- Accessory Kit (Hooks, Magnets)



Figure 2.1: DEPSTECH DS520 Borescope Inspection Camera and included 50FT Fish Tape.

3. PRODUCT FEATURES

- **Triple Lens Camera:** Features a front camera (1.18-3.93 inches focal length) and two side cameras (0.79-2.36 inches and 0.59-0.98 inches focal lengths) for comprehensive, multi-angle inspection.
- **5-inch IPS Screen:** A full-color HD display with a 179° viewing angle, offering high-quality images and vibrant colors. The glass-laminated screen is anti-scratch and anti-fingerprint.
- **1080P Resolution:** Captures clear and detailed images and videos for precise inspection.
- **Adjustable LED Lights:** The camera probe is equipped with 8+2 brightness-adjustable LED lights to illuminate dark inspection areas effectively.
- **IP67 Waterproof Probe:** The camera probe is designed to be waterproof, suitable for inspecting wet or submerged environments.
- **50FT Fish Tape Wire Puller:** A durable, two-wire twisted PET resin stainless tape for easily pulling and pushing wires through walls, crawl spaces, and conduits.
- **Bluart 3.0 Technology:** Enhances image clarity by 48%, processing speed by 53%, and low light performance by 67%.
- **Rechargeable Battery:** Integrated powerful PLB battery (3000mAh) provides extended operating time.
- **Storage:** Comes with a pre-installed 32GB Micro SD card for storing captured photos and videos.

DS520 Triple-Lens Endoscope

Easily point to accurately what you want to check in the right way.
No need to twist and turn the cables hand over hand.



Figure 3.1: Diagram illustrating the triple lens configuration of the DS520 borescope.

High Quality



Figure 3.2: Close-up of the IP67 waterproof camera probe with adjustable LED lights.



Figure 3.3: The included 50FT fish tape wire puller for cable management.

4. SETUP

1. **Charge the Unit:** Connect the provided USB-C charging cable to the charging port located under the rubber cover on the side of the borescope unit. Charge until the battery indicator shows full.
2. **Insert SD Card:** Ensure the 32GB Micro SD card is securely inserted into the SD card slot, also located under the rubber cover. Press gently until it clicks into place. To remove, press again to eject.
3. **Connect Camera Cable:** Firmly plug the 16.5FT triple lens camera cable into the designated port on the top of the borescope unit.
4. **Power On:** Press and hold the power button (usually a red or orange button) on the unit for a few seconds until the DEPSTECH logo appears on the screen.
5. **Initial Setup:** Upon first use, the unit may prompt you to select a language. Use the navigation buttons to choose your preferred language (e.g., English).

5. OPERATING INSTRUCTIONS

1. **Power On/Off:** Press and hold the power button to turn the unit on or off.
2. **Navigate Menus:** Use the directional buttons (Up, Down, Left, Right) to navigate through menus and settings. Press the 'OK' button to confirm selections.
3. **Switch Camera Views:** The DS520 features multiple lenses. Use the dedicated button (often labeled with a camera icon or arrows) to cycle between the front lens view, side lens views, or a split-screen display showing

multiple views simultaneously.

4. **Adjust LED Brightness:** Use the light adjustment buttons (often labeled with a sun icon or arrows) to increase or decrease the brightness of the LED lights on the camera probe.
5. **Take Photos:** In photo mode, press the photo capture button (usually a camera icon) to take a still image.
6. **Record Videos:** In video mode, press the video record button (usually a video camera icon) to start recording. Press again to stop.
7. **Access Settings:** Press the 'Menu' or 'Settings' button (often a gear icon) to enter the settings menu. Here you can adjust resolution, language, time, screen brightness, auto-off duration, and time watermark.
8. **Review Media:** Navigate to the 'Gallery' or 'Playback' mode to view your captured photos and videos.

Your browser does not support the video tag.

Video 5.1: An overview of the DEPSTECH DS530 (similar to DS520) borescope features and operation.

6. MAINTENANCE

- **Cleaning:** Regularly wipe the camera lens and the borescope unit with a soft, dry cloth. For stubborn dirt on the lens, use a lens cleaning solution and a microfiber cloth.
- **Waterproofing:** Always ensure the rubber covers for the charging port and SD card slot are securely sealed before using the camera probe in wet or submerged environments to maintain its IP67 rating.
- **Storage:** When not in use, store the borescope unit, camera cable, and accessories in the provided hard carrying case to protect them from dust, impact, and moisture.
- **Battery Care:** To prolong battery life, avoid fully discharging the unit frequently. Charge the battery regularly, even if the unit is not in active use for extended periods.

7. TROUBLESHOOTING

- **No Image on Screen:**
 - Ensure the camera cable is securely connected to the borescope unit.
 - Check if the unit is powered on and has sufficient battery charge.
 - Verify that the correct camera view is selected (front, side, or split-screen).
- **Poor Image Quality:**
 - Clean the camera lens for any dirt or debris.
 - Adjust the LED brightness to suit the inspection environment.
 - Ensure the object being inspected is within the optimal focal range of the selected lens.
- **Unit Not Charging:**
 - Check if the USB-C charging cable is properly connected to both the unit and the power source.
 - Try using a different USB-C cable or power adapter.
 - Ensure the charging port is free of obstructions.
- **SD Card Error:**
 - Re-insert the SD card to ensure it is properly seated.
 - Try formatting the SD card via the unit's settings menu (note: this will erase all data).
 - If the issue persists, try a different compatible Micro SD card.


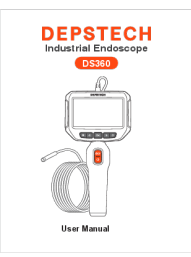
8. SPECIFICATIONS





Model Name	Triple Lens Borescope Inspection Camera
Brand	DEPSTECH
Video Capture Resolution	1080p
Screen	5-inch IPS Full Color HD Screen (179° viewing angle)
Lenses	Triple Lens (Front, Side B, Side C)
LED Lights	8+2 Adjustable LEDs
Water Resistance Level	IP67 Waterproof (probe only)
Borescope Cable Length	16.5FT
Fish Tape Length	50FT
Battery	3000mAh Rechargeable PLB Battery
Storage	32GB Micro SD Card (pre-installed)
Exposure Control Type	Automatic

9. WARRANTY AND SUPPORT

DEPSTECH products are designed for reliability and performance. For warranty information, technical support, or any inquiries regarding your DS520 borescope, please refer to the official DEPSTECH website or contact their customer service directly. Keep your purchase receipt for warranty claims.

Related Documents - DS520

 <p>The image shows the cover of the DEPSTECH DS520 Industrial Endoscope User Manual. It features the DEPSTECH logo at the top, followed by 'Industrial Endoscope' and 'DS520' in a red box. Below this is a line drawing of the endoscope device. At the bottom, it says 'Multi-Language User Manual'.</p>	<p>DEPSTECH DS520 Industrial Endoscope User Manual</p> <p>Comprehensive user manual for the DEPSTECH DS520 industrial endoscope, detailing features, operation, specifications, and troubleshooting for effective visual inspection in industrial and mechanical applications.</p>
 <p>The image shows the cover of the DEPSTECH DS360 Industrial Endoscope User Manual. It features the DEPSTECH logo at the top, followed by 'Industrial Endoscope' and 'DS360' in a red box. Below this is a line drawing of the endoscope device. At the bottom, it says 'User Manual'.</p>	<p>DEPSTECH DS360 Industrial Endoscope User Manual</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>

	<p>DEPSTECH DS300 Dual Lens Endoscope Operation Guidance</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>
	<p>DEPSTECH DS520 Industrial Endoscope User Manual</p> <p>Comprehensive user manual for the DEPSTECH DS520 Industrial Endoscope, detailing product features, operation, safety guidelines, specifications, and troubleshooting. Available in multiple languages.</p>
	<p>DEPSTECH Dual Lens Inspection Camera User Manual - Features & Operation</p> <p>Detailed user manual for the DEPSTECH Dual Lens Inspection Camera, featuring a 5-inch IPS screen, 7.9mm HD borescope, LED lights, 32GB storage, and a 5000mAh battery. Learn about its operation, features, and specifications for various inspection tasks.</p>
	<p>DEPSTECH DS550 Industrial Endoscope User Manual</p> <p>Comprehensive user manual for the DEPSTECH DS550 Industrial Endoscope. This guide covers product features, operation, button functions, port descriptions, UI elements, language settings, photo/video management, data transfer, charging, installation, detailed specifications, packing list, and compliance information for this 5.0MP, 5-inch IPS screen, waterproof dual-lens inspection camera.</p>