

DEPSTECH FR-DS320DL

DEPSTECH Dual Lens Endoscope User Manual

Model: FR-DS320DL

1. INTRODUCTION

Thank you for choosing the DEPSTECH Dual Lens Endoscope. This high-definition borescope inspection camera is designed for versatile use in various environments, including automotive, plumbing, construction, and HVAC inspections. Featuring a dual-lens system, a 4.3-inch IPS screen, and IP67 waterproof rating, it provides clear, real-time visuals of hard-to-reach areas. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not immerse the main unit in water. The camera probe is IP67 waterproof, but the main display unit is not.
- Do not use the device in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep the camera lens clean to ensure clear images.
- Avoid extreme temperatures. Store the device in a cool, dry place.
- Do not attempt to disassemble or modify the device. Repairs should only be performed by qualified personnel.
- Keep out of reach of children.
- Ensure the device is fully charged before extended use to avoid interruptions.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- DEPSTECH Dual Lens Endoscope (Main Unit with integrated cable)
- USB-C Charging Cable
- User Manual
- Accessories (Hook, Magnet)



Image: The complete package contents of the DEPSTECH Dual Lens Endoscope, showing the main display unit, the coiled semi-rigid cable with camera, the user manual, a USB-C charging cable, and small accessory attachments (hook and magnet).

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your DEPSTECH endoscope:



Image: A detailed view of the DEPSTECH Dual Lens Endoscope's main unit, highlighting the 4.3-inch IPS display and the control panel with buttons for power, settings, OK, navigation, and photo/video capture.

4.1 Main Unit

- **4.3-inch IPS Display:** For real-time viewing of inspection footage.
- **Control Buttons:** Power, OK, Navigation (Up/Down/Left/Right), Photo/Video, Settings, Image Rotation.
- **USB-C Port:** For charging the device.
- **TF Card Slot:** For inserting a Micro SD card (not included) to save photos and videos.

4.2 Camera Probe

- **Dual Lenses:** Front camera and side camera for versatile viewing angles.
- **Adjustable LED Lights:** Integrated lights around the camera for illumination in dark environments.
- **Semi-Rigid Cable:** 16.5ft (5m) flexible yet firm cable for navigating tight spaces.
- **IP67 Waterproof:** The camera probe is designed to withstand wet and dusty conditions.

Dual Lens for Tricky Angles



► **Front Camera A**
1.18 - 3.93 in



► **Side Camera B**
0.79 - 2.36 in

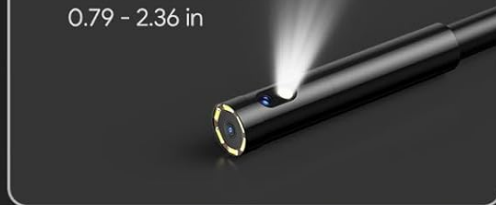


Image: A detailed illustration of the dual lens system on the endoscope probe, showing both the front-facing camera (Camera A) and the side-facing camera (Camera B), each with its own set of LED lights for optimal illumination.

4.3 Accessories

- **Hook:** Attaches to the camera tip for retrieving small objects.
- **Magnet:** Attaches to the camera tip for picking up metallic items.

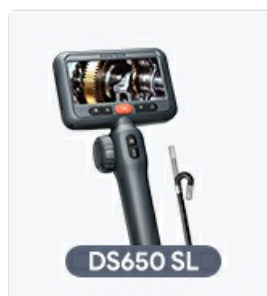


Image: The endoscope camera tip shown with the hook attachment (left) and the magnet attachment (right), demonstrating how these

accessories can be used to retrieve objects during inspection.

5. SETUP

5.1 Charging the Device

Before first use, fully charge the endoscope. Connect the provided USB-C cable to the charging port on the main unit and plug the other end into a standard USB power adapter (not included). The charging indicator will show the charging status. A full charge typically takes approximately 3 hours.



Image: An X-ray style diagram illustrating the internal battery of the endoscope, indicating a typical battery life of 3 hours on a full charge.

5.2 Inserting a Micro SD Card (Optional)

To save photos and videos, you will need a Micro SD card (TF card, not included). Locate the TF card slot on the side of the main unit. Gently insert the Micro SD card with the gold contacts facing down until it clicks into place. To remove, push the card in again until it springs out.

Note: The device supports up to 128GB Micro SD cards. Format the card in the device's settings menu before first use for optimal compatibility.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

Press and hold the **Power button** (usually marked with a power symbol) for a few seconds to turn the device on or off. The screen will illuminate upon startup.

6.2 Switching Between Lenses

The endoscope features both a front and a side camera. To switch between the views, press the **Lens Switch button** (often indicated by a camera icon with arrows or a circular arrow). This allows you to inspect areas from different perspectives without repositioning the probe.



Image: The endoscope display showing an inspection view of an engine component, with an overlay indicating the dual lens advantage and the ability to switch between front and side views for comprehensive inspection.

6.3 Adjusting LED Brightness

To adjust the brightness of the LED lights on the camera probe, use the **Up/Down navigation buttons**. There are multiple levels of brightness to suit different lighting conditions during inspection.

IP67 Waterproof



Image: A visual representation of the endoscope camera tip demonstrating different levels of LED light intensity, from off to maximum brightness, highlighting its adaptability to various dark environments.

6.4 Taking Photos and Recording Videos

- **To take a photo:** Press the **Photo/Video button** (often marked with a camera icon) once. The image will be saved to the Micro SD card.
- **To record a video:** Press and hold the **Photo/Video button** for a few seconds. Press it again to stop recording. The video will be saved to the Micro SD card.



Image: The endoscope display showing the interface for capturing photos and recording videos, with a reminder that a TF (Micro SD) card is required and not included.

6.5 Image Rotation

If the image on the screen is upside down or at an awkward angle, press the **Image Rotation button** (often a circular arrow icon) to rotate the image 180 degrees. This feature allows for easier viewing without physically rotating the main unit.



Image: A split image demonstrating the 180-degree image rotation feature, showing how the view of an engine component can be flipped for easier inspection without physically moving the endoscope.

6.6 Using Accessories

The hook and magnet accessories can be screwed onto the tip of the camera probe. Ensure they are securely fastened before use. These are useful for retrieving small items that may have fallen into inaccessible areas.



Image: A close-up view of the endoscope camera tip, illustrating the hook and magnet accessories that can be attached for retrieving objects during inspections.

7. MAINTENANCE

7.1 Cleaning

- **Camera Lens:** After each use, especially in dirty or wet environments, gently wipe the camera lens with a soft, lint-free cloth. For stubborn dirt, a small amount of lens cleaner can be used.
- **Probe Cable:** Wipe the semi-rigid cable with a damp cloth to remove any debris. Ensure it is dry before coiling for storage.
- **Main Unit:** Clean the display and main unit with a dry, soft cloth. Do not use abrasive cleaners or immerse the unit in water.

7.2 Storage

Store the endoscope in a cool, dry place, away from direct sunlight and extreme temperatures. Coil the cable neatly to prevent kinks or damage. Keep the device and accessories in their original packaging or a protective case when not in use.

8. TROUBLESHOOTING

If you encounter issues with your DEPSTECH endoscope, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on.	Low battery; Device malfunction.	Charge the device fully. If still unresponsive, contact support.
No image on screen.	Camera cable not properly connected; Camera lens obstructed.	Ensure the cable is securely connected. Clean the camera lens.
Image is blurry or unclear.	Dirty lens; Insufficient lighting; Object too close/far.	Clean the camera lens. Adjust LED brightness. Move the probe closer or further from the object.
Cannot save photos/videos.	No Micro SD card inserted; SD card full or corrupted; SD card not formatted.	Insert a Micro SD card. Delete old files or use a new card. Format the SD card via device settings.
LED lights are not working.	Brightness set to minimum; Device malfunction.	Increase LED brightness using the Up button. If still not working, contact support.

9. SPECIFICATIONS

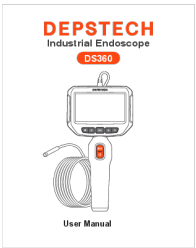

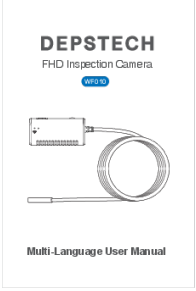

Feature	Detail
Model Name	CA DS320DL
Item Model Number	FR-DS320DL
Display	4.3-inch IPS Screen
Camera Type	Dual Lens (Front & Side)
Cable Length	16.5ft (5m) Semi-Rigid
Water Resistance Level	IP67 (Probe only)
Video Capture Resolution	1080p
Media Type	Micro SD Card (Not included)
Batteries	1 A battery (included)
Manufacturer	DEPSTECH
Country of Origin	China



10. WARRANTY AND SUPPORT

DEPSTECH products come with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included in your package or visit the official DEPSTECH website. If you require technical assistance, troubleshooting, or have any questions regarding your product, please contact DEPSTECH customer support through their official channels. Details can typically be found on the product packaging or the DEPSTECH brand store online.

DEPSTECH Authorized Store: [Link to Seller Information](#)

Related Documents - FR-DS320DL

	<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 DS350DL Dual Lens Endoscope Operation Guide</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>
	<p>DEPSTECH WF010 FHD Inspection Camera User Manual</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>
	<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>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>
	<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>