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DEPSTECH DS650DJ

DEPSTECH DS650-DL Dual-Lens Articulating Industrial Endoscope User Manual

Model: DS650DJ

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1. INTRODUCTION

Thank you for choosing the DEPSTECH DS650-DL Dual-Lens Articulating Industrial Endoscope. This device is designed for detailed visual inspection in hard-to-reach areas, featuring a dual-lens system with 210° bidirectional rotation, a 4.5-inch IPS monitor, and 1080P high-definition imaging. It is an essential tool for home maintenance, vehicle inspection, and machinery checks.

Please read this manual thoroughly before use to ensure proper operation and to maximize the product's lifespan.

2. SAFETY INFORMATION

- Do not use the endoscope in environments with flammable or explosive gases.
- The probe is IP67 waterproof, but the main unit is not. Avoid exposing the main unit to water or excessive moisture.
- Do not attempt to disassemble or modify the device. This will void the warranty and may cause damage.
- Keep the device out of reach of children.
- Avoid direct eye exposure to the LED lights.
- The device features overheat protection. If the temperature exceeds 70°C, a warning will display. If it exceeds 80°C, the device will automatically shut down to prevent damage. Allow the device to cool down before resuming operation.

3. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package.

- DEPSTECH DS650-DL Endoscope Unit
- Storage Case
- User Manual
- Type-C Charging Cable
- 32GB Memory Card (pre-installed or included separately)



Image: Contents of the DEPSTECH DS650-DL package.

4. SETUP

4.1 Charging the Device

Before first use, fully charge the endoscope unit. Connect the provided Type-C charging cable to the charging port on the device and to a suitable USB power adapter (not included).

4.2 Inserting the Memory Card

If the 32GB memory card is not pre-installed, locate the TF card slot on the side of the monitor unit. Insert the memory card with the contacts facing down until it clicks into place.

4.3 Powering On/Off

Press and hold the power button (usually located near the monitor) for a few seconds to turn the device on or off. The IPS monitor will display the startup screen.

5. OPERATION

5.1 Understanding the Controls

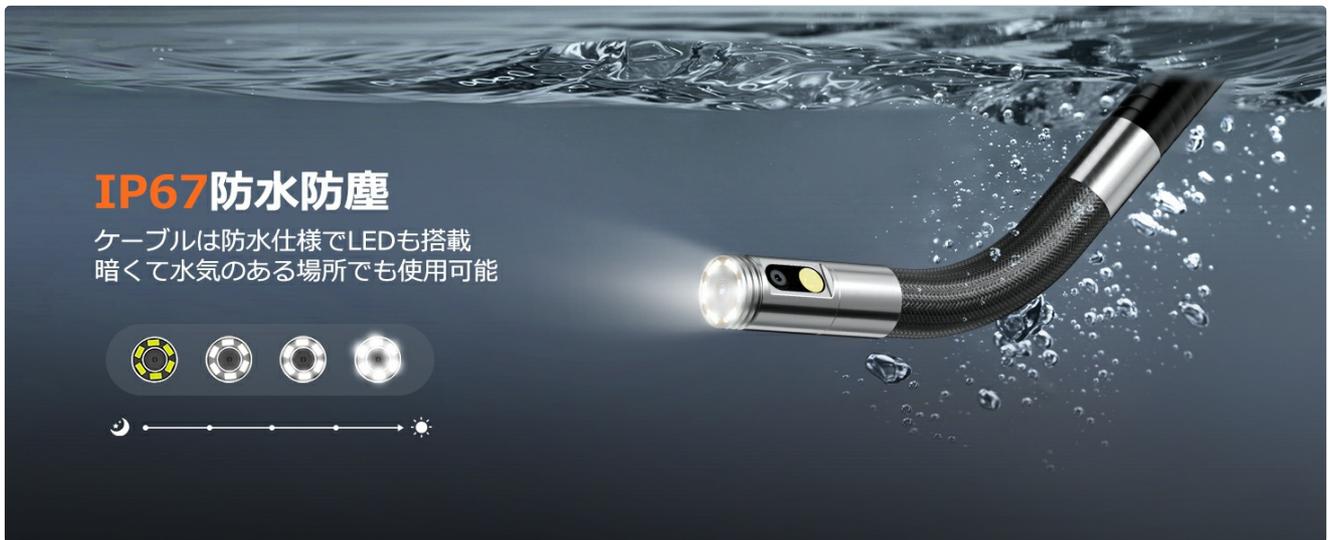


Image: Overview of the endoscope controls and ports.

- **OK/Confirm Button:** Confirms selections in menus.
- **Up/Zoom In Button:** Navigates up in menus or zooms in on the image.
- **Down/Zoom Out Button:** Navigates down in menus or zooms out on the image.
- **180° Rotation Button:** Rotates the real-time image on the screen by 180 degrees.
- **Lens Switch Button:** Toggles between front camera, side camera, and dual-view mode.
- **Photo/Video Button:** Short press to take a photo, long press to start/stop video recording.
- **Power Button/LED Adjustment:** Short press to adjust LED brightness (3 levels), long press to power on/off.
- **Articulating Angle Dial:** Controls the 210° bidirectional rotation of the probe tip.
- **TF Card Slot:** For inserting the memory card.
- **Type-C Port:** For charging and data transfer.
- **Reset Button:** Resets the device (use a pin to press).

5.2 Using the Dual-Lens and Articulation

The DS650-DL features both a front camera and a side camera, allowing for a wider inspection range. The probe tip can be articulated up to 210° in two directions for comprehensive viewing.



Image: Endoscope probe demonstrating 210° bidirectional articulation.

- Use the **Lens Switch Button** to cycle between the front camera, side camera, or a split-screen dual-view mode.
- Rotate the **Articulating Angle Dial** to precisely adjust the direction of the probe tip. This allows you to navigate around obstacles and view areas from multiple angles without repositioning the entire cable.

5.3 Capturing Images and Videos

The device supports capturing both still images and video recordings directly to the inserted 32GB memory card.

写真・動画撮影機能



32GB
TFカード



180°
画面回転



タイム
スタンプ



動画
ガイド



Image: Monitor display showing photo and video capture features.

- **To take a photo:** Short press the **Photo/Video Button**.
- **To record video:** Long press the **Photo/Video Button** to start recording. Long press again to stop recording.
- Captured files are saved to the 32GB memory card. You can store approximately 10,000 images or 50 videos.

5.4 Adjusting LED Brightness

The probe is equipped with high-brightness LED lights to illuminate dark inspection areas. Short press the **Power Button/LED Adjustment** button to cycle through 3 levels of LED brightness.



Image: IP67 waterproof probe with adjustable LED illumination.

5.5 Data Transfer

You can transfer captured images and videos to a computer via the Type-C cable or by directly accessing the memory card.



Image: High-speed data transfer from endoscope to PC.

6. MAINTENANCE

- **Cleaning the Probe:** After use, especially in dirty or wet environments, gently wipe the probe with a soft, damp cloth. Ensure no debris remains on the camera lenses.
- **Cleaning the Monitor:** Use a soft, dry cloth to clean the IPS monitor. Avoid abrasive cleaners or solvents.
- **Storage:** Store the endoscope in its provided storage case in a cool, dry place, away from direct sunlight and extreme temperatures. This prevents damage from improper storage and moisture.
- **Battery Care:** To prolong battery life, avoid fully discharging the device frequently. Charge it regularly, even if not in use for extended periods.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery; device malfunction.	Charge the device fully. If problem persists, contact support.
No image on screen.	Cable not connected properly; camera lens obstructed.	Ensure the probe cable is securely connected. Check for obstructions on the lens.
Image is blurry or unclear.	Lens is dirty; focus distance incorrect.	Clean the camera lens. Ensure the object is within the optimal focal range (3-10cm).
Cannot record photos/videos.	Memory card full or not inserted correctly.	Check if the 32GB memory card is inserted correctly. Delete old files or replace the card if full.
Device shuts down automatically.	Overheat protection activated.	Allow the device to cool down. Avoid using in excessively hot environments.

8. SPECIFICATIONS

Feature	Detail
Brand	DEPSTECH
Model Number	DS650DJ
Display	4.5-inch IPS LCD Monitor
Camera Resolution	1080P
Probe Diameter	8.5mm
Articulation Angle	210° Bidirectional
Cable Type	1.5M Semi-rigid
Waterproof Rating	IP67 (Probe only)
Lighting	Adjustable LED Lights
Storage	32GB Micro SD Card (included)
Battery Included	Yes
Package Dimensions	43.1 x 21.4 x 7.4 cm
Package Weight	1.33 kg

9. WARRANTY & SUPPORT

9.1 Manufacturer's Warranty

This DEPSTECH product comes with a **24-month manufacturer's warranty**. Your order number serves as your proof of purchase for warranty claims. Please retain it.

9.2 Customer Support

For any questions, technical assistance, or warranty inquiries, please contact our professional support team:

Email: support.jp@depstech.com

We aim to respond to all inquiries within 24 hours (excluding weekends and public holidays, where responses will be provided on the next business day).



Image: DEPSTECH customer support and warranty information.