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DEPSTECH DS650, DS300

DEPSTECH DS650 & DS300 Borescope Systems User Manual

Comprehensive Guide for Operation, Maintenance, and Troubleshooting

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your DEPSTECH DS650 Two-Way Articulating Borescope and DS300 Industrial Endoscope Camera. Please read this manual thoroughly before operating the devices.



Image: The DEPSTECH DS650 articulating borescope (right) and the DS300 industrial endoscope (left), showcasing both devices included in the system.

SAFETY PRECAUTIONS

- Do not use the device in environments with flammable or explosive gases.
- Keep the device away from strong electromagnetic fields.
- Ensure the probe is clean before and after each use.
- Do not attempt to disassemble or modify the device.
- Store the device in a dry, cool place when not in use.

PACKAGE CONTENTS

Verify that all items are present in your package:

- DEPSTECH DS650 Articulating Borescope Unit
- DEPSTECH DS300 Industrial Endoscope Unit

- USB Charging Cable(s)
- User Manual
- Carrying Case (for DS650)

SETUP AND FIRST USE

Charging the Device

Before first use, fully charge both borescope units using the provided USB charging cables. The charging indicator will typically change color or turn off when fully charged.

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 display will illuminate upon successful power-on.

Inserting the Probe (DS300)

The DS300 features a semi-rigid cable. Carefully uncoil the cable and ensure the probe head is securely connected to the main unit. The 5.5mm ultra-thin lens is designed for narrow spaces.

5.5MM ULTRA THIN LENS



Image: Comparison illustrating the 5.5mm ultra-thin lens of the DS300, highlighting its ability to access confined areas compared to larger lenses.

Articulating Probe (DS650)

The DS650 features a 210° two-way articulating probe. This allows for precise control of the camera angle using the joystick or control wheel on the handle. The 6.2mm (0.24in) slim probe is ideal for detailed inspections in challenging areas. Practice articulating the probe before inserting it into an inspection area.

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210° 2-Way Articulating

Seamless detection that leaves
no blind spots

Image: The 210° two-way articulating probe of the DS650, demonstrating its flexibility for seamless detection without blind spots.

Articulating Borescope

Not just turn, also capable of full turn-back



Image: The DEPSTECH DS650 articulating borescope being used to inspect an engine component, showcasing its articulating capability.

OPERATING INSTRUCTIONS

Display and Controls

Both models feature an integrated display (4.3" for DS300, 4.5" IPS for DS650) for real-time viewing. Familiarize yourself with the buttons:

- **Power Button:** On/Off.
- **Menu Button:** Access settings and options.
- **OK/Confirm Button:** Select options or confirm actions.
- **Navigation Buttons:** Up/Down/Left/Right for menu navigation, digital zoom, or 180° image rotation (DS300).
- **Photo/Video Button:** Capture images or start/stop video recording.
- **LED Brightness Adjustment:** Control the intensity of the LED lights on the probe tip.



Image: The DEPSTECH DS300 industrial endoscope unit, showing its 4.3-inch screen and control buttons for operation.



Image: The DEPSTECH DS650 articulating borescope unit, displaying its 4.5-inch IPS screen and ergonomic controls for articulation and image capture.

Adjusting LED Lights

Both models feature adjustable LED lights on the probe tip to illuminate dark inspection areas. Use the dedicated button to cycle through brightness levels. The DS300 has 3 adjustable brightness levels, while the DS650 also has adjustable LED lighting for optimal clarity.

IP67 WATERPROOF



6 Adjustable Led Lights



Image: The IP67 waterproof probe of the DS300, demonstrating its resistance to water and the functionality of its 6 adjustable LED lights.

Image and Video Capture

Press the photo/video button to capture still images or start/stop video recording. Captured media is saved to the internal memory or an inserted SD card (if applicable). The DS650 utilizes Bluart 3.0 technology for enhanced image clarity and 2.0MP resolution.



Image: Graphic illustrating Bluart 3.0 technology, highlighting improvements in image clarity, processing speed, and low light performance.

Focal Range and Depth of Field

The DS300 camera focal range is 1.96~3.93 inches (5 - 10cm). For optimal image clarity, ensure the object being inspected is within this range.

MAINTENANCE

- **Cleaning the Probe:** After each use, gently wipe the probe and lens with a soft, damp cloth. For the DS300, the probe is IP67 waterproof, allowing for cleaning with water if necessary. Ensure it is dry before storage.
- **Battery Care:** Recharge the battery regularly, even if the device is not used frequently, to maintain battery health.
- **Storage:** Store the devices in their original packaging or a protective case in a cool, dry place, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery; Power button not held long enough.	Charge the device fully; Press and hold the power button for 3-5 seconds.
Image is blurry or unclear.	Object out of focal range; Lens is dirty; Insufficient lighting.	Adjust distance to object (DS300 focal range: 1.96~3.93 in); Clean the lens; Increase LED brightness.
Probe articulation is stiff (DS650).	Debris in articulation mechanism; Cable kinked.	Gently manipulate the articulation to clear minor obstructions; Ensure cable is not severely bent. If problem persists, contact support.
Cannot capture photos/videos.	Memory full; SD card not inserted or faulty.	Delete old files; Insert a compatible SD card or replace existing one.

SPECIFICATIONS

Feature	DS650 Articulating Borescope	DS300 Industrial Endoscope
Probe Diameter	6.2mm (0.24in)	5.5mm (0.21in)
Articulation	210° Two-Way	N/A (180° image rotation)
Display Size	4.5-inch IPS	4.3-inch LCD
Camera Resolution	2.0MP (1080P HD Video)	1080P HD Video
Focal Range	Not specified (optimized by Bluart 3.0)	1.96~3.93 in (5 - 10cm)
Cable Length	5ft (approx. 1.5m)	16.5ft (5m)
Waterproof Rating	Not explicitly stated for DS650 probe, but typically high.	IP67
Connectivity	Direct display	Direct display (No Wi-Fi/Bluetooth)
Shooting Modes	Automatic, Manual	
Exposure Control	Automatic	
Zoom Type	Digital Zoom	

WARRANTY INFORMATION

DEPSTECH products typically come with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official DEPSTECH website for detailed warranty terms and conditions. Keep your purchase receipt as proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact DEPSTECH customer support:

- **Website:** www.depstech.com (Check for support contact details)
- **Email:** Refer to your product packaging or website for specific support email.

When contacting support, please have your product model (DS650, DS300) and ASIN (B0DMSMBJFR) ready.

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