

ENDOSCOPE INSPECTION CAMERA

31758



Read this manual in full before using this product and retain it for future use. Always use the latest version of the manual. Please visit drapertools.com/manuals for the latest version.

1. Intended Use

This camera is fitted with a semi-rigid cable and is designed for viewing inside wall cavities, pipes, other narrow spaces and for close inspection of engines and other obscured machine parts. Suitable for use in dusty and wet environments.

Important:

- The focal length of this device is 20–100mm. This product is suitable for examining small objects and recesses only and cannot be used for surveillance or to monitor large areas.
- Suitable for live view observation only. No photo or video storage option.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

2. Specification

Stock No.	31758
Part No.	ENDO-D/1
Camera diameter/length	8mm/27mm
Screen size	4.3" Colour (IPS 1080P)
Resolution	2MP (1920 X 1080)
Focal length	20 – 100mm
IP rating	IP67
Light	8 adjustable LEDs
Mirror angle (accessory)	70°
Cable length	5m
Built in battery type	Rechargeable 2000mAh
Charging cable	USB C-Type (5V/1A)
Charging time	3 hours
Battery life (fully charged)	5 hours
Operating temperature	1 - 45°C



3. Health and Safety Information

Important: Read all the Health and Safety instructions before attempting to operate, maintain or repair this product. Failure to follow these instructions may result in injury or damage to the user or the product.

- **Important:** Strictly not for medical use.
- **DO NOT** use this device if the screen, camera head or cable are damaged in any way.
- **DO NOT** pull or carry the device by the cable.
- The camera cable is not made of heat resistant or high temperature materials. **DO NOT** use near hot engine parts.
- **DO NOT** use near moving machinery.
- If condensation has formed inside the camera lens, **DO NOT** use the camera until the moisture has fully evaporated.
- **DO NOT** direct the LED light at your own or another person's eyes.
- **DO NOT** allow children to touch or use the device.
- Store the product in a cool, clean and dry environment, out of direct sunlight and out of reach of children.

4. Identification

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment. If any part is damaged or missing, do not attempt to use the product. Please contact the Draper Helpline; contact details can be found at the back of this manual.

- (1) Display screen
- (2) Camera head
- (3) Semi-rigid cable
- (4) Screen colour button
- (5) Camera rotation (180°) button
- (6) (+) LED brightness button
- (7) (-) LED brightness button
- (8) Contrast button
- (9) Zoom out button
- (10) Zoom in button
- (11) Power button
- (12) USB charging port
- (13) Reset button
- (14) USB-C charging cable

Accessories

- (15) Magnet
- (16) Hook
- (17) Mirror
- (18) 3 X Spare fixing collars

Please visit drapertools.com for our full range of accessories and consumables.



5. Charging the Endoscope

1. Fully charge the device before first use and when the battery icon on the screen is showing 1 bar.
2. Use the USB-C charging cable supplied and connect to a computer or phone adaptor. **DO NOT use an adaptor rated above 12V or a fast charger.**
3. The red indicator light will be on during charging. Once fully charged the indicator light will turn green.



Fig. 1

6. Operation

1. Press and hold the **POWER** button (11) for 3 seconds to switch on or off.
 2. Adjust the camera lens as required during use.
- **NOTE:** The object must be within 20–100mm of the camera lens to appear in focus; if the subject is blurry, the camera may be too close or too far from the object.

Adjustment Buttons		Adjustment
(4)	Screen colour	Switch between colour or black & white
(5)	Camera rotation	Rotate picture 180°
(6) & (7)	LED (+) & (-) brightness	The brightness of the LED light can be increased (+) or decreased (-) between 0-60-80-100%
(8)	Contrast	Adjust from normal, reduced or intensified
(9) & (10)	Zoom (+) or (-)	Adjust magnification between X1.0, X 1.5 or X 2.0
(13)	Reset	If the screen freezes during use, press in the button to reset the screen

7. Using the Accessories

- Fit one of the accessories (15), (16) or (17) over the camera head if required.
- Slide the fixing collar over the camera head and locate into the grooved area.

7.1 Mirror Accessory

- For operations where a front-facing camera is not appropriate, the mirror (17) can be attached to the end of the camera head to change the viewing angle.

- **Important:**

- **DO NOT** force the mirror onto the camera head and take care not to damage the fixing collar.
- Remove the protective film from the mirror before use.

7.2 Hook and Magnet Accessories

- The magnet (15) and hook (16) can be attached to the camera head to move or retrieve damaged or obstructive objects in the way of the camera.

8. Maintenance and Storage

- Store the product in a cool, clean and dry environment, out of direct sunlight and out of reach of children.
- When storing the device for prolonged periods, charge at least once every 3 months to maintain the performance.

9. Disposal & Warranty

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

- DO NOT dispose of this product with domestic waste; most local authorities provide appropriate recycling facilities.
- DO NOT burn or mutilate batteries; this may release toxic or corrosive substances.



Warranty period is 12 months from the date of purchase.

Visit [drapertools.com/warranty](https://www.drapertools.com/warranty) for full details.

10. Symbols



Read the instruction manual



Warning!



Do not incinerate or throw onto fire



Keep out of reach of children



WEEE – Waste Electrical & Electronic Equipment
Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish



European conformity



UK Conformity Assessed