

CLAMPBOE®



INSPECTION CAMERA

MODEL NO: CIC2410

PART NO: 6470385

OPERATION & SAFETY INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC0920 - Issue3

INTRODUCTION

Thank you for purchasing this CLARKE Inspection Camera.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

ENVIRONMENTAL RECYCLING POLICY



By purchasing this product, the customer is taking on the obligation to deal with its safe disposal in accordance with the Waste Electrical and Electronic Equipment (WEEE).

This product must not be disposed of with general household waste but be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

SAFETY PRECAUTIONS

GENERAL

1. Always read and ensure you fully understand the following precautions and the hazards associated with this type of product. Please keep these instructions in a safe place for future reference.
2. Never carry out any modifications to this product. If experiencing difficulty of any kind consult your local Clarke dealer.

OPERATING ENVIRONMENT

1. Keep the work area clean and well lit. Cluttered benches and dark areas may cause accidents.
2. Always operate the camera in a well ventilated work area.
3. Do not operate the camera in explosive atmospheres, such as in the presence of flammable liquids, gasses or dust particles.
4. Keep bystanders and children away from work areas.

ELECTRICAL SAFETY

1. Before inspecting hollow walls and cavities, shut off the circuit breakers to the entire building.
2. Before inspecting items that may contain an electrical charge, have them inspected by a qualified electrician.
3. Switch off the engine before inspecting automobile parts.
4. Do not use the camera while standing in water.
5. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.
6. Do not expose the hand-held display unit to rain or wet conditions. Water entering the display unit will increase the risk of electric shock.
7. Do not place the camera head and lance into any place that may contain an electrical charge or moving parts which could increase the risk of damage.
8. Make sure your hands are dry before operating the camera or changing the batteries.

CAMERA SAFETY

1. The handheld display unit is not waterproof. The camera head and lance are rated to IP67.

2. Do not continue using the camera if condensation forms in the camera head. Let any condensation evaporate before use.
3. Do not submerge the camera head and camera cable into corrosive substances such as drain cleaner.
4. Do not get petrol or oil on the camera head or camera cable.
5. Do not use excessive force to insert or withdraw the camera head and cable.
6. Do not use where the camera could come into contact with moving machinery.
7. Do not place the camera on unstable surfaces.
8. Handle the camera with care and check for damage if dropped.
9. Store the camera and accessories in their case and out of reach of children.

PREPARATION

COMPONENTS

Open the storage case and check for any damage sustained in transit. Notify your Clarke dealer immediately of any defects.



INSTALLING THE BATTERIES

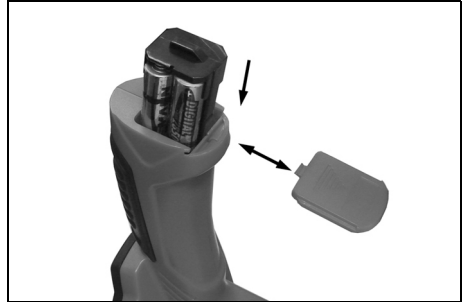


CAUTION: POSITION THE BATTERIES IN THE CORRECT POLARITY AND DO NOT INSTALL BATTERIES OF DIFFERENT TYPES, CHARGE LEVELS OR CAPACITIES TOGETHER.

The battery compartment is located on the bottom of the handle.

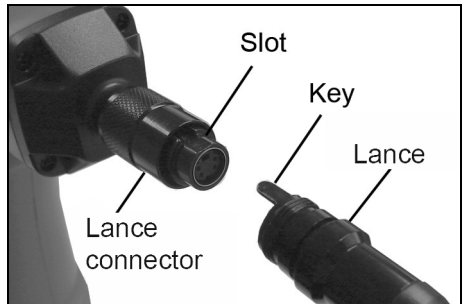
1. Slide the battery cover off, remove the battery case and insert four AA batteries (not supplied).
2. Slide the battery case back in and replace the battery cover.

The battery case can only be inserted in the correct orientation.



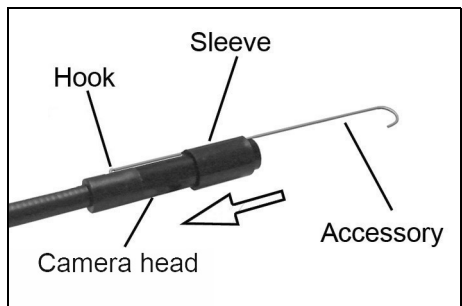
CONNECTING/DISCONNECTING THE CAMERA CABLE

1. Carefully push the lance key into the lance connector slot.
2. Turn the cable connector counterclockwise until the cable and lance connector are securely attached.
3. Turn the camera cable connector the opposite way to detach it from the connector and remove the camera cable.



ATTACHING THE ACCESSORIES

1. Hold the accessory against the imager head, seating the hook into the hole.
2. Match the slot in the sleeve to the accessory, then slide the sleeve down the imager head until it covers the hook.



CONNECTING TO AN EXTERNAL MONITOR WITH THE RCA CABLE

1. Plug one end of the RCA cable into the RCA video connection on the camera, then plug the other end into the RCA video port on the monitor.

OPERATING INSTRUCTIONS



WARNING: ALWAYS READ THE SAFETY INSTRUCTIONS IN THIS MANUAL BEFORE STARTING WORK.

DISPLAY UNIT CONTROLS




The camera has the basic controls shown below.



LIVE VIEWING

Before each use, inspect the condition of the camera, checking for condensation in the camera head, cracked or damaged camera cable or other damage that may affect its operation.

View the available image on the display screen or use the RCA cable to view the image on an external monitor.

1. Press the power button and hold for 2-3 seconds to turn the camera on. The green power lamp will illuminate.
2. Press the left  button to decrease the brightness
3. Press the right  button to increase the brightness.
4. Press the centre button  to flip the image horizontally and vertically.
5. The camera lens must be at least 30 mm away from its subject in order for it to focus and correctly display the image on the screen.
6. Always handle the camera with accessories and camera cable carefully when inserting it into mechanical items.
7. When finished, press the power button briefly to turn the camera off before cleaning and storing as follows.

CLEANING AND MAINTENANCE

PERIODICALLY

1. After use, use a mild detergent on a clean cloth to remove any oil, grease or dirt from the camera, especially around the buttons and ports. Take care that no moisture enters the camera. Do not put excessive pressure on the display screen.
2. Remove the batteries prior to long term storage.
3. Store the camera and its accessories in the storage case out of reach of children.
4. Refer to your Clarke dealer if any components need replacing.

FAULT FINDING

PROBLEM	POSSIBLE CAUSES	SOLUTION
Display is on but does not show image	Camera cable connection is loose. Camera head is dirty.	Check that camera cable is connected. Clean camera head.
Light is dim at maximum brightness. Display turns itself off. Camera will not turn on.	Low batteries.	Replace batteries.

TECHNICAL SPECIFICATION

Dimensions (L x W x H)	150 x 400 x 206 mm
Weight	0.37 kg
Electrical Supply	4 x AA Non-rechargeable Batteries
Rated Voltage	4 - 6.5 VDC
Rated Current	200 mA
Protection Class	III
Camera Cable Length	1000 mm (inc camera)
Camera Cable Diameter	6 mm
Camera Cable and Camera IP Rating	IP 67 (protected against the effect of immersion between 15 cm and 1m)
Operating Temperature	-8° to +80°C
Camera Illumination Levels	1-5
LCD Screen Size	61mm (diagonal) TFT LCD
LCD Screen Resolution	320 x 240
Video output	RCA Cable
Imager Head Diameter	9 mm (0.3")
Imager Head Lights	4 x adjustable LED
Image Sensor	1/9" VGA CMOS

PARTS LIST

ID	DESCRIPTION
1	Hand-held Display Unit
2	Camera cable with 9 mm camera head
3	RCA Cable
4	Mirror Accessory
5	Hook Accessory
6	Magnet Accessory
7	Storage Case

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2014/30/EU *Electromagnetic Compatibility Directive.*

2011/65/EU *Restriction of Hazardous Substances, (amended by 2015/863).*

The following standards have been applied to the product(s):

EN 61000-6-3:2007+A1:2011, EN 61000-6-1:2007.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2014

Product Description: 2.4" LCD Inspection Camera with 9mm Lens
Model number(s): CIC2410
Serial / batch Number: N/A
Date of Issue: 26/08/2020

Signed:

J.A. Clarke
Director

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