

Owner's Manual



Video Borescope Inspection Camera

Model 82027



CAUTION: Read, understand and follow Safety Rules and Operating Instructions in this manual before using this product.

- Safety
- Operation
- Maintenance
- Español

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ONE YEAR FULL WARRANTY

CRAFTSMAN ONE YEAR FULL WARRANTY

FOR ONE YEAR from the date of purchase, this product is warranted against defects in material or workmanship. A defective product will be replaced free of charge.

For warranty coverage details to obtain free replacement, visit the web site: www.craftsman.com

This warranty is void if this product is ever used while providing commercial services or if rented to another person.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears Brands Management Corporation, Hoffman Estates, IL 60179

For Customer Assistance Call 9am - 5pm (ET)

Monday through Friday 1-888-326-1006

WARNING: USE EXTREME CAUTION IN THE USE OF THIS DEVICE. Improper use of this device can result in injury or death. Follow all safeguards suggested in this manual in addition to the normal safety precautions used in working with electrical circuits. **DO NOT** service this device if you are not qualified to do so.

SAFETY INSTRUCTIONS

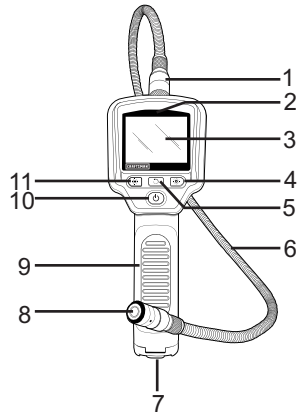
- Do not expose the handle and display to spraying water.
- Only the camera head and the flex tube are water resistant
- Switch off the Camera if the system is not in use.
- Please dispose of the batteries responsibly.
- Remove the batteries when cleaning the unit.
- Remove the batteries before storing the unit for an extended period of time.
- When batteries need replacement, replace all four of the batteries.
- Use only the specified battery size and type.
- Be sure to install the batteries with the correct polarity as indicated in the battery compartment.
- Exposure to high temperatures can cause the batteries to explode, therefore do not dispose of the batteries in fire. Place tape over the terminals to prevent direct contact with other objects. Please follow all applicable regulations.

Warning

Permanent damage to the flex tube and loss of operation will occur if the flex tube is subjected to narrow radius or sharp angle bends.

CONTROLS

- 1 Camera tube connector
- 2 Battery status indicator
- 3 Display monitor
- 4 Camera light intensity (+) button
- 5 Image rotation button
- 6 Flexible camera tube
- 7 Battery compartment (bottom of handle)
- 8 Camera and LED lights
- 9 Handle grip
- 10 Power button
- 11 Camera light intensity (-) button



SPECIFICATIONS

Imaging Sensor	CMOS
LCD Screen Type	2.36" TFT-LCD
Pixels	480 x 234
Horizontal View Angle	50 degrees
Working length	1m (39")
Camera head diameter	17mm (0.67")
Shaft diameter	9mm (0.35")
Focus length	5.1 cm (2")
Auto Power OFF (APO)	OFF /5 min. /10 min. selectable
Waterproof Capacity	IP67 (imager head and tube)
Power Supply	4 x 'AA' 1.5V batteries
Consumption Current (Max.)	150mA
Dimensions	211 x 83 x 76mm (8.3 x 3.3 x 3") meter body only
Weight	0.61 kg (1.35 lbs) (meter & tube)
Operating Temperature	-10°C~+50°C (+14°F~+122°F)
Operating Humidity (Display)	15~85%RH

BATTERY INSTALLATION

1. The battery compartment cover is located on the bottom of the handle.
2. Open the compartment by sliding the door latch forward and flipping the cover open.
3. Insert four new 'AA' 1.5V batteries into the compartment. Proper battery orientation is indicated on the battery compartment.
4. Close and latch the battery compartment door.

WARNING: Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.



OPERATING INSTRUCTIONS

Connect the monitor and flexible tube

Connect the camera tube to the instrument body. Ensure that the keyed ends are properly aligned. Once aligned, tighten the knurled knob to hold the connection firmly in place.


Start-up

1. Press the power button to switch the camera ON; if there is sufficient battery power the power indicator will illuminate and an image will appear on the LCD.
2. Insert the camera head and the flexible tube into the area to be viewed. Pre-shape the tube when inserting into areas with bends and curves.

LED intensity:

Four LEDs mounted on either side of the camera are used to illuminate the inspection area. Use the left (minus) and right (plus) illumination buttons to adjust the intensity. To switch the illumination off, continue to press the left (minus) button until the illumination switches off. There are 100 discrete intensity levels.


Image Flip

Press the  button to flip the image. The figure to the right demonstrates how the image is adjusted for each button press.

FLIP

FLIP

Auto Power OFF (APO)

APO automatically switches the meter off to extend battery life. To change the APO setting, press and hold the flip  button until the 'Clock' icon appears. Use the flip button to step through the selections (OFF, 5 minutes, and 10 minutes). The meter will return to normal operation after 3 seconds. If 5 or 10 minute APO is enabled, the clock icon will appear in the display.

Battery Status Indicator

The rectangular light at the top of the display area is the battery status indicator. When the indicator is red in color, the batteries are weak. When the indicator appears green in color, the batteries are charged.

Accessory tools

The included accessories (mirror, hook and magnet) all attach to the camera head. Snap the tool clip into the recessed area on the camera assembly.

Warning

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MAINTENANCE

This IR thermometer is designed to provide years of dependable service, if the following care instructions are performed:

1. **KEEP THE METER DRY.** If it gets wet, wipe it off.
2. **USE AND STORE THE METER IN NORMAL TEMPERATURES.** Temperature extremes can shorten the life of the electronic parts and distort or melt plastic parts.
3. **HANDLE THE METER GENTLY AND CAREFULLY.** Dropping it can damage the electronic parts or the case.
4. **KEEP THE METER CLEAN.** Wipe the case occasionally with a damp cloth. DO NOT use chemicals, cleaning solvents, or detergents.
5. **USE ONLY FRESH BATTERIES OF THE RECOMMENDED SIZE AND TYPE.** Remove old or weak batteries so they do not leak and damage the unit.
6. **IF THE METER IS TO BE STORED FOR A LONG PERIOD OF TIME,** the batteries should be removed to prevent damage to the unit.

TROUBLESHOOTING

There may be times when your meter does not operate properly. Here are some common problems that you may have and some easy solutions to them.

Meter Does Not Operate:

1. Always read all the instructions in this manual before use.
2. Check to be sure the battery is properly installed.
3. Check to be sure the battery is good.

If You Do Not Understand How the Meter Works:

Call our Customer Service Line **1-888-326-1006**.

SERVICE AND PARTS

For replacement parts shipped directly to your home

Call 9 am – 5 pm Eastern Time, M - F

1-888-326-1006