

DURATOOL



INFRARED THERMOMETER

Model: D03055

IMPORTANT SAFETY INFORMATION

Please read these instructions carefully before use and retain for future reference.

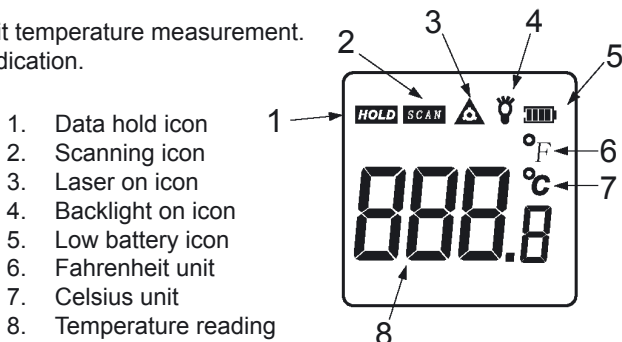
- Please operate according to this manual, otherwise the protection provided by the device will be impaired or fail.
- Do not point laser directly in your eyes or indirectly off reflective surfaces.
- Check the condition before using. If you find any cracking, breakage, damage or abnormality, or you consider the device broken, stop using the device immediately
- Do not use the thermometer if it operates abnormally. Protection may be impaired. When in doubt, have the thermometer serviced.
- Do not operate the thermometer around explosive gas, vapour, or dust.
- To avoid a burn hazard, remember that highly reflective objects will often result in lower than actual temperature measurements.
- To avoid damaging the thermometer or the equipment under test protect them from the following:
 - EMF (electro-magnetic fields) from arc welders, induction heaters, etc.
 - Static electricity.
 - Thermal shock (caused by large or abrupt ambient temperature changes – allow 30 minutes for the thermometer to stabilize before use).
- Do not leave the thermometer on or near objects of high temperature.
- Replace the batteries as soon as the low battery indicator appears on the display.
- Remove dead batteries from the thermometer or if it is not going to be used for a long time.
- Never mix old and new batteries together, or different types of batteries.
- Never dispose of batteries in a fire, or attempt to recharge ordinary batteries.
- Before replacing the battery, turn off the thermometer and disconnect all the test probes.
- To prolong battery life turn off the thermometer after use.

WHAT'S INCLUDED

- Infrared thermometer with laser sighting.
- Instruction manual

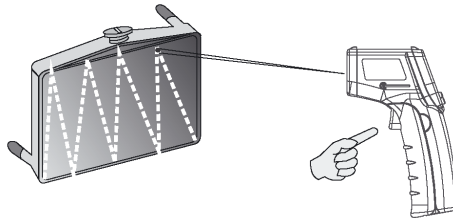
FEATURES

- Single-spot laser sighting.
- White backlight.
- Celsius and Fahrenheit temperature measurement.
- Low battery voltage indication.
- LCD screen.



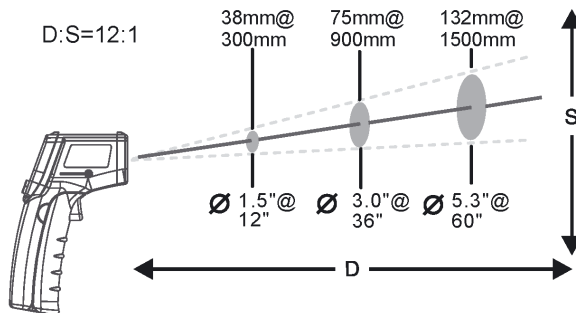
OPERATION FUNCTION

- Infrared thermometers measure the surface temperature of an opaque object. The thermometer's optics sense infrared energy, which is collected and focused onto a detector. The thermometer's electronics then translate the information into a displayed temperature reading which appears on the display. The laser is used for aiming purposes only.
- The thermometer turns on when you press the trigger. The thermometer turns off when no activity is detected for 7 seconds.
- To measure temperature, aim the thermometer at the target, pull and hold the trigger. Release the trigger to hold a temperature reading.
- To find a hot or cold spot, aim the thermometer outside the target area. Then, slowly scan across the area with an up and down motion until you locate the hot or cold spot.

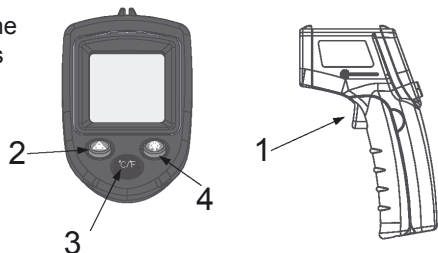


Distance and target spot size

- As the distance (D) from the target being measured increases, the spot size (S) of the area measured by the unit becomes larger.
- The Distance to Spot size of the unit is 12:1



- Make sure the target is larger than the unit's spot size. The smaller the target the closer measure distance. When accuracy is critical, make sure the target is at least twice as large as the spot size.
- Pull the trigger (1) and aim the laser at the object to be measured and the reading is displayed on the LCD for 7 seconds.
- (2) Turns the laser on or off.
- (3) Switches between oC or oF
- (4) Selects the backlight function. While switched on any operation will activate it for 7 seconds.



MAINTENANCE

Changing the battery

- To install or change the AAA batteries, open the black grip battery compartment. Replace only with the same type of battery observing the correct polarity.

Cleaning the lens

Blow off loose particles using clean compressed air. Carefully wipe the surface with a moist cotton swab. The swab may be moistened with water.

Cleaning the casing

- Wipe using a damp cloth or sponge. Do not use solvents as these may damage the casing. Do not immerse in water.

SPECIFICATIONS

Measurement Range	-50° to 550°C (-58° to 1022°F)
Resolution	0.1°C/F
Accuracy	0°C~550°C (32°F~1022°F): ± 1.5°C (± 2.7°C) -50°C~0°C (-58°F~32°F): ± 3°C (± 5°F) or ± 1.5% whichever is greater
Repeatability	±1% of reading or ±1°C
Response time (95%)	500ms, 95% response
Distance to spot	12:1
Emissivity	0.95 pre-set
Laser	
Sighting	Single point laser
Power	Class 1 Output <1mW, wavelength 630 to 670nm
Power Supply	1 x 9V PP3 Alkaline Battery
Battery Life	Laser off: 22hrs / Laser on: 12hrs
Weight	147.5g



INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT

These symbols indicate that separate collection of Waste Electrical and Electronic Equipment (WEEE) or waste batteries is required. Do not dispose of these items with general household waste. Separate for the treatment, recovery and recycling of the materials used. Waste batteries can be returned to any waste battery recycling point which are provided by most battery retailers. Contact your local authority for details of the battery and WEEE recycling schemes available in your area.



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Man Rev 1.0