



ZI-9679

User manual

Description

Thank you for purchase of the IR Thermometer. This is capable of non-contact (infrared) temperature measurements at the touch of a button. The built-in laser pointer increases target accuracy while handy push-buttons combine for convenient, ergonomic operation.

The Non-contact Infrared Thermometers can be used to measure the temperature of objects surface that is improper to be measured by traditional (contact) thermometer (such as moving object, the surface with electricity current or the objects which are uneasy to be touched.)

Proper use and care of this meter will provide years of reliable service.

FEATURES:

- Rapid detection function
- Precise non-contact measurements
- Single laser sighting
- Unique flat surface, modern housing design
- Automatic Data Hold
- "MAX/MIN" function

Wide range application

Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen printing, measure ink and Dryer temperature, HVAC/R and more.

SAFETY

- Use extreme caution when the laser beam is turned on.
- Do not let the beam enter your eye, another person's eye or the eye of an animal.
- Be careful not to let the beam on a reflective surface strike your eye.
- Do not allow the laser light beam impinge on any gas which can explode.



Distance & Spot size

As the distance (D) from the object increases, the spot size (S) of the area measured by the unit becomes larger. The relationship between distance and spot size for each unit is listed below.

The distance to target / size of IR focal spot ratio is 12:1. With a distance of 12 cm to the target,
•the size of the IR focal spot is thus 1 cm.

Note:

Field of View: Make sure that the target is larger than the unit's spot size. The smaller the target, the closer you should be to it. When accuracy is critical, make sure the target is at least twice as large as the spot size.

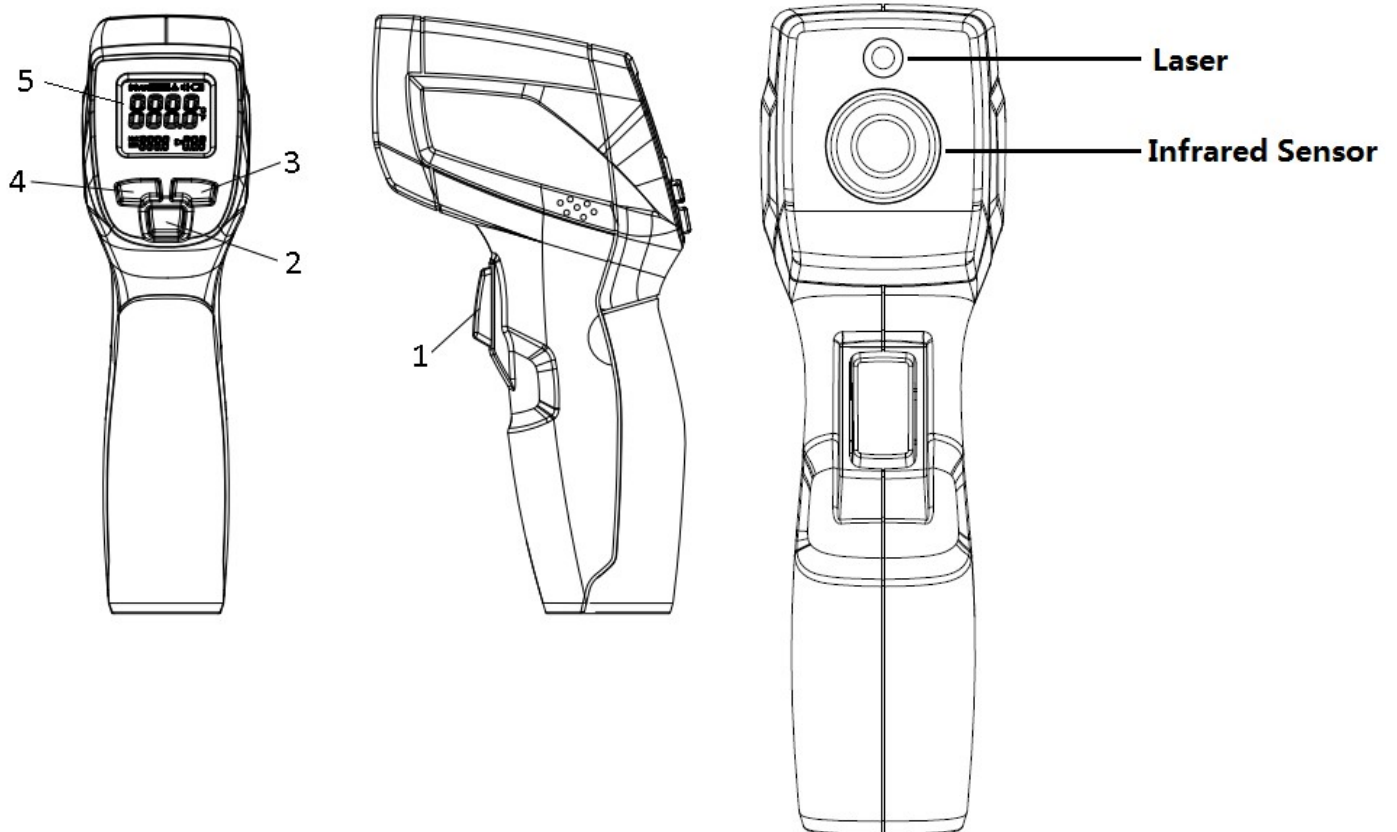
SPECIFICATIONS

Temperature range	-50 to 500 °C (-58°F ~ 932°F)
D: S	12: 1
Display resolution	0.1 °C (0.1°F)
Emissivity	Fixed at 0.95
Accuracy -50 ~ 20°C(-58°F ~ 68°F) 20°C ~500°C(68°F ~932°F)	for targets: ±3°C(5.4°F) ±2.0% ±2°C(±3.6°F)
Repeatability	±1°C(1.8°F)
Response time	500ms
Spectral response	8~14um
Over range indication	LCD will show "----"
Diode laser	output <1mW, Wavelength 630~670nm, Class 2 laser product
Operating temp.	0 to 50°C(32 to 122°F)
Storage temp.	-10 to 60°C (14 to 140°F)
Relative humidity	10%~90%RH operating, <80%RH storage
Power supply	9V battery, NEDA 1604A or IEC 6LR61, or equivalent

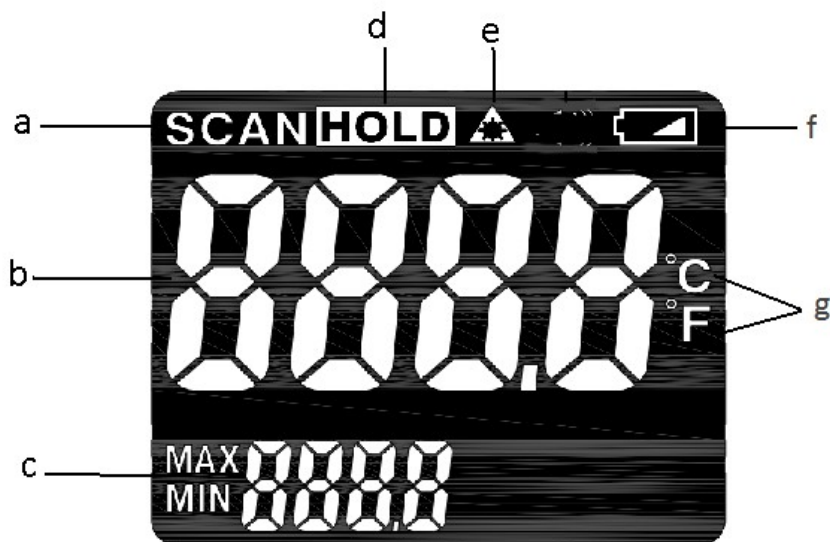
Panel description

Button instruction

1. Power on/Measure button (automotive switch off about 10 seconds)
2. Laser/ Backlight button
3. C/F
4. Max/Min button
5. Display screen



LCD interface instruction



- a. Scan symbol
- b. Measure data
- c. Temperature value for Max/Min
- d. Data hold symbol
- e. Laser on symbol
- f. Lower power symbol
- g. C/F symbol

Measurement operation

- ① Hold the meter by its **Handle Grip** and point it toward the surface to be measured.
- ② Pull and hold the **Trigger** to turn the meter on and begin testing.
- ③ Release the Trigger and the HOLD display icon will appear on the LCD indicating that the reading is being held. In HOLD status, press the MAX/MIN button to display maximum and minimum measurement points in the last measure.
- ④ The meter will automatically power down after approximately 10 seconds without use.

Switching C/F

Short press the C/F button

Switching Max/Min

Press the Max/Min button.

Switch on/off laser and backlight

Short press the **Laser/ Backlight** button to turn on/turn off the backlighting.

Long press the **Laser/ Backlight** button to turn on/ turn off the laser.

When the laser is on the laser icon will appear on the LCD over the temperature.

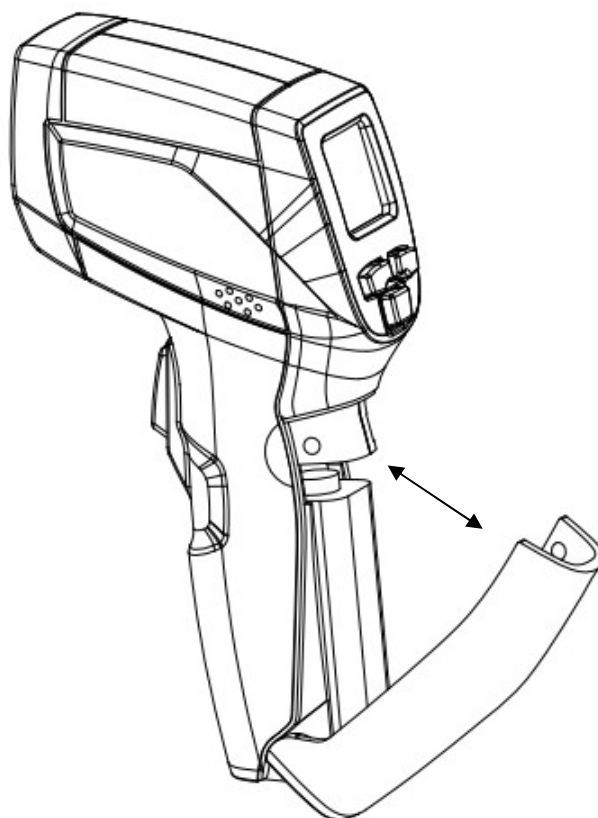


Battery replacement

1. As battery power is not sufficient, LCD will display the lower power symbol (symbol f on LCD interface instruction), replacement with one new battery type 9V is required.
2. Open battery cover (as shown on the illustration below), then take out the battery from instrument and replace with a new 9-Volt battery and place the battery cover back.

Note:

- In case of long term storage is recommended to remove the battery.
- Last date to use mention on the battery.
- Battery provided with the instrument is Non-rechargeable battery.
- Keep all batteries away from children and animals, swallowing a battery can be fatal, in which case you should seek immediate medical attention.
- Keep batteries away from direct sunlight, high- temperature and high humidity.
- Use the battery according to the battery manufacturer's instructions.
- Dispose of safely according to local environmental regulations.



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