

KIRAY 100

Infrared thermometer

New

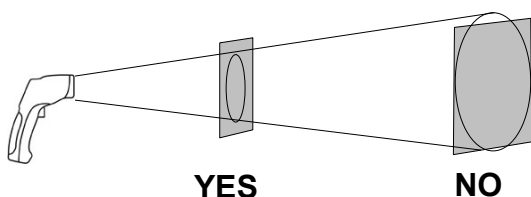
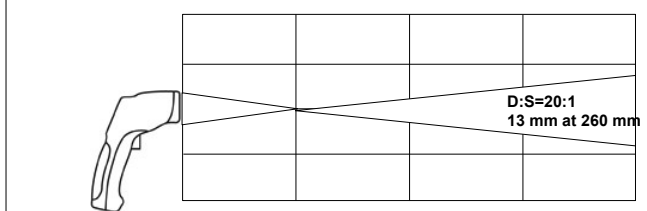
CE



Infrared thermometer **KIRAY 100** with dual laser sighting is a key tool to diagnose, inspect and check any temperature, with the advantage of using “no-contact” technology. You can safely measure surface temperatures of hot objects, dangerous or difficult to access. Perfect tool to take temperature in a house, a garage, a workshop, an office, a car, a kitchen etc...

Distance from the target

Distance	254	260	508	mm
Diameter	12.7	13	25.4	mm



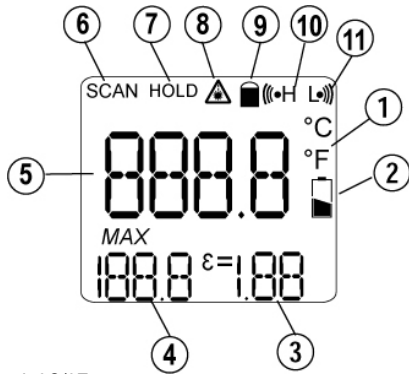
Make sure that the target is larger than the size of the laser sighting.

Technical features

- Spectral response**.....8 - 14 μ m
- Optical**.....D.S : 20:1 (13 mm at 260 mm)
- Temperature range**.....From -50 to +800°C
- Accuracy***.....From -50 à +20°C : $\pm 2.5^\circ\text{C}$
From +20 to +300°C : $\pm 1\%$ of reading $\pm 1^\circ\text{C}$
From +300°C to +800°C : $\pm 1.5\%$
- Infrared repeatability**.....From -50 to +20°C : $\pm 1.3^\circ\text{C}$
From -20 to +800°C : $\pm 0.5\%$ or $\pm 0.5^\circ\text{C}$
- Display resolution**.....0.1°C
- Response time**.....150 ms
- Emissivity**.....Adjustable from 0.10 to 1.0 (pre-set at 0.95)
- Over range indication**.....Display indication : « ---- »
- Dual laser sighting**.....Wave length : from 630 nm to 670 nm
Output < 1mW, Class 2 (II)
- Positive or negative temperature indication**.....Automatic (no indication for a positive temperature)
(-) sign for a negative temperature
- Display**.....4 digits with LCD backlight display
- Auto-extinction**.....Automatic after 7 seconds of inactivity
- High/low alarm**.....Flashing signal on display and beep signal with adjustable thresholds
- Power supply**.....Alkaline 9V battery
- Autonomy**.....105 h (inactive laser and backlight)
20 h (active laser and backlight)
- Use temperature**.....From 0 to +10°C for a short period
From +11 to +50 °C for a long period
- Storage temperature**.....From -10°C to +60°C
- Relative humidity**.....From 10 to 90%RH in operating mode
and > 80%RH in storage
- Dimensions**.....145 x 95 x 40 mm
- Weight**.....180 g (included battery)

*Accuracy for an ambient temperature from 23 to 25°C (with a relative humidity lower than 80% RH)

Display



- 1 – Technical unit °C/°F
- 2 – Low battery indicator
- 3 – Emissivity value = 0.95 (factory setting)
- 4 – Max temperature indicator.
- 5 – Temperature value
- 6 – Current measurement indicator
- 7 – HOLD indicator (fixed measurement)
- 8 – Laser in operation indicator
- 9 – Lock indicator (continuous measurement)
- 10 – High alarm symbol (fixed : activated alarm ; flashing + beep : alarm thresholds exceeded)
- 11 – Low alarm symbol (fixed : activated alarm ; flashing + beep : alarm thresholds exceeded)

KIRAY 100 buttons



- 1 – Up button. It allows to increment emissivity and high/low alarm thresholds. This button also allows in measurement mode to activate or deactivate the laser.
- 2 – Down button. It allows to decrement emissivity and high/low alarm thresholds. This button also allows in measurement mode to activate or deactivate the backlight.
- 3 – Mode button. It allows to navigate through the modes (emissivity, lock, high alarm, low alarm).

Description



LCD backlit display

IR sensor (infrared)

Up button

Down button

Mode button



Output laser sighting

Trigger

Battery compartment

Set technical unit (°C/°F)

Supplied with

- Case with passer-by belt
- User manual

CE Certification

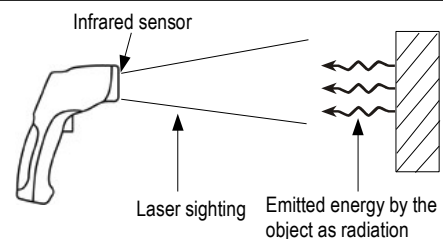


This device meets with following standards' requirements.

- EN 50081-1 : 1992, Electromagnetic compatibility, Part 1
- EN 50082-1 : 1992, Electromagnetic compatibility, Part 2

Infrared thermometer, how does it work ?

Infrared thermometers can measure the surface temperature of an object. Its optic lens catches the energy emitted and reflected by the object. This energy is collected and focused onto a detector. This information is displayed as temperature. The laser pointer is only used to aim at the target.



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