

KIRAY 100
Infrared thermometer

New

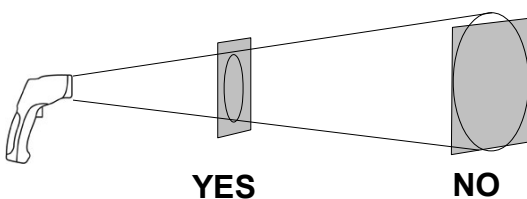
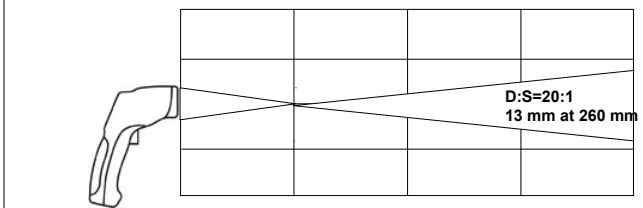
CE



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



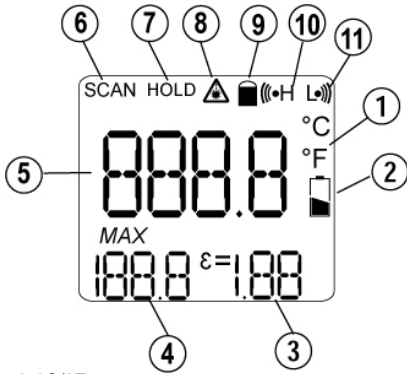
Make sure that the target is larger than the size of the laser sighting.

■ **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 : $\pm 2\%$ of reading $\pm 2^\circ\text{C}$
From +300°C to +800°C : $\pm 2\%$ of reading
- 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 backlighted 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 – Mode button. It allows to navigate through the modes (emissivity, lock, high alarm, low alarm).
- 3 – 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.

Description



Supplied with

- Case with passer-by belt
- User manual

CE Certification

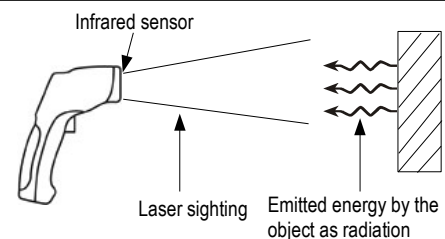


This device meets with following standards' requirements.

- 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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