

# KIRAY 100

## Infrared thermometer

**New**

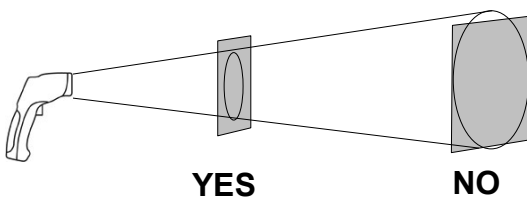
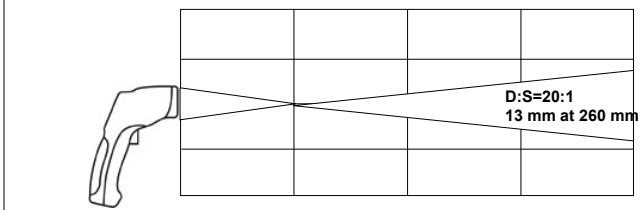
**CE**



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

<b>Distance</b>	254	260	508	mm
<b>Diameter</b>	12.7	13	25.4	mm



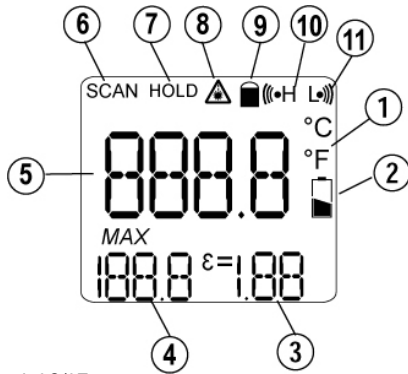
Make sure that the target is larger than the size of the laser sighting.

### Technical features

- Spectral response**.....8 - 14  $\mu$ 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 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 +50°C
- 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



## Supplied with

- Case with passer-by belt
- User manual

## CE Certification

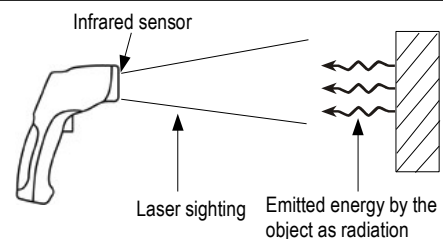


This device meets with following standards' requirements.

- 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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