

# KIRAY 100

## Infrared thermometer



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...

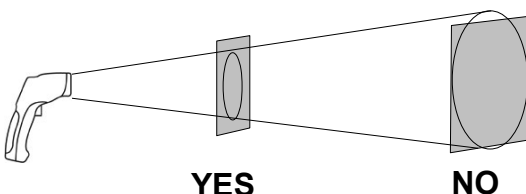


### TECHNICAL FEATURES

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

### DISTANCE FROM THE TARGET

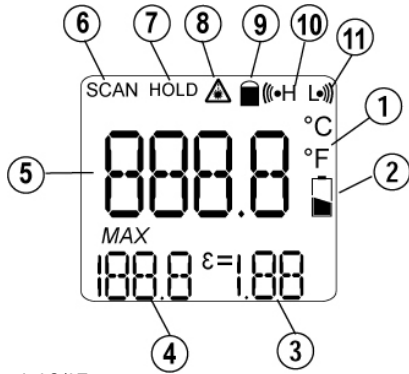
<b>Distance</b>	254	260	508	mm
<b>Diameter</b>	12.7	13	25.4	mm



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

\*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)

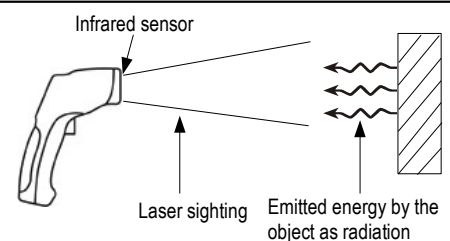
## KIRAY 100 BUTTONS



- 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.

### **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.



## DESCRIPTION



## SUPPLIED WITH

- Case with passer-by belt
- User manual

## CE CERTIFICATION

**This device meets with following standards' requirements.**

EN 61326-1 : 2013 and EN 61326-2 : 2013



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