KIRAY 200
Infrared thermometer
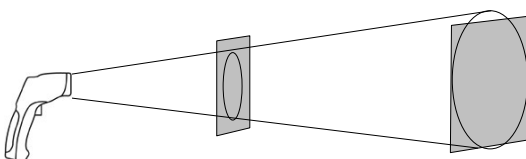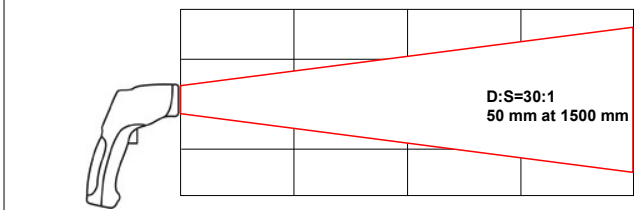
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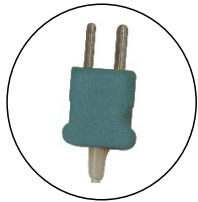
Supplied with thermocouple K probe

Infrared thermometer **KIRAY 200** is an infrared thermometer used to diagnose, inspect and check any temperature. Thanks to its elaborated optical system, it allows an easy and accurate measurement of little distant targets. **KIRAY 200** instrument has an internal memory which can save up to 20 measurements.

■ *Technical features*

• *Instrument features*

Spectral response.......................8 -14 mm
Optical..D.S : 30:1 (50 mm at 1500 mm)
Response time...........................Less than 1 second
Temperature range.....................From -50 to +850°C
Accuracy*...................................From -50 to -20°C : ±5°C
                                      From -20 to +200°C : ±1.5% of reading ±2°C
                                      From +200 to +538 °C : ±2% of reading ±2°C
                                      From +538 to +850°C : ±3.5% of reading ±5°C
Display resolution.......................0.1 C°
Emissivity...................................Adjustable from 0.10 to 1.00
                                      (pre-set at 0.95)
Over range indication.................Display indication : « -0L » for a negative
                                      over range, « 0L » for a positive over range.
Laser sighting............................Wavelength : 630-670 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 ½ 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...................................38 h (inactive laser and backlight)
                                      15 h (active laser and backlight)
Use temperature.........................From 0 to +50°C
Storage temperature...................From -20°C to +60°C
Relative humidity........................From 10% to 90%RH in operating mode and
                                      >80%RH in storage
Dimensions.................................175 x 110 x 45 mm
Weight..230 g (included battery)
Memory......................................20 temperature values with unit of measurement
                                      (°C or °F)

*Accuracy for an ambient temperature from 18 to 28°C (with a relative humidity lower than 80% RH)

■ *Distance from the target*

Distance	150	300	900	mm
Diameter	5	10	30	mm

D:S=30:1
50 mm at 1500 mm

YES   **NO**

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

• *Thermocouple K probe features*

Temperature range.....................From -40 to +400°C
Display range..............................From -50 to +1370°C
Resolution...................................0.1°C
Accuracy.....................................±1.5% of reading ±3°C
Cable length...............................1 m

■ *Display*
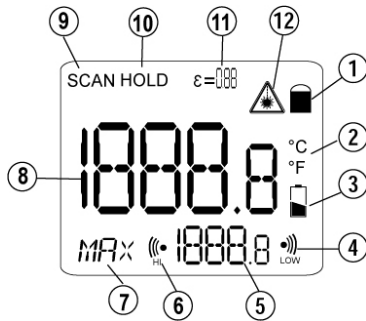
1 – Continuous measurement indicator
2 – Technical unit (°C / °F)
3 – Low battery indicator
4 – Low alarm symbol
5 – MAX, MIN, DIF (difference between MAX and MIN values), AVG (average), HAL (high alarm), LAL (low alarm), TK (TK temperature) and LOG (recorded value)
6 – High alarm symbol
7 – EMS, MAX, MIN, DIF, AVG, HAL, LAL, TK and LOG indicator
8 – Temperature value
9 – Current measurement indicator
10 – HOLD indicator (fixed measurement)
11 – Emissivity value
12 – Laser in operation indicator

■ *KIRAY 200 buttons*

1 – Up button. It allows to increment emissivity and high/low alarm thresholds and to move to the next recorded value.

2 – Set button. It allows to activate or deactivate laser and display backlight. It allows also to record a temperature.

3 – Mode button. It allows to navigate through the modes (emissivity, max value, min value, difference, average, high alarm, low alarm, TK value and recorded values).

4 – Down button. It allows to decrement emissivity and high/low alarm thresholds and to move to the previous recorded value.

■ *Description*

LCD backlighted display
Up button
Laser and backlight button
Mode button
Down button

Laser sighting output
IR sensor (infrared)
Trigger
Compartment battery
Set technical Unit (°C/°F)
Set continuous measurement (On/Off)
Set alarm (On/Off)
Input external probe

■ *Supplied with*

• Case with passer-by belt
• User manual
• K thermocouple probe

■ *CE Certification* CE

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 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.

Infrared sensor
Laser sighting
Emitted energy by the object as radiation
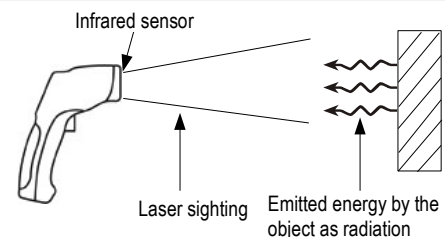
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