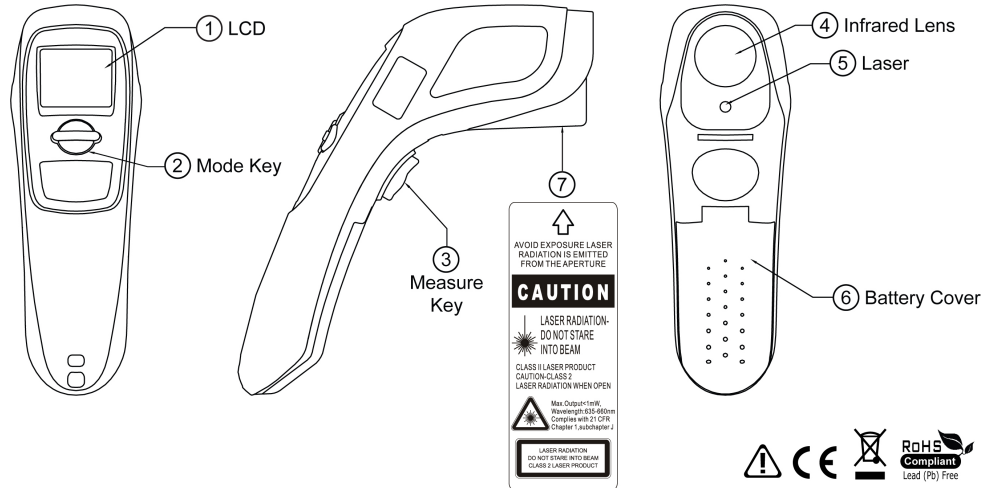


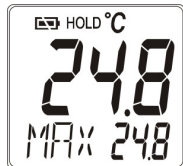
IRT0421 Digital Infrared Thermometer

Operating Instructions

The thermometer is a non-contact infrared thermometer with Real-Time Maximum (MAX) data. Please remember to keep away from children and don't use it for safety or health related applications.



(Default Screen)



- Simply aim the thermometer at the measure target with the Infrared Lens (4) and press Measure Key (3) to display the surface temperature.
- During the measurement, the maximum reading will be displayed beside the MAX icon.
- The Distance to Spot Ratio is 12:1. Please make sure the target area is within the field of view.

°F or °C	Press Mode key (2) to select the Fahrenheit (°F) or Celsius (°C) temperature scale.
Backlight	LCD Backlight is always on.
Laser	Class II Laser is always enabled while measuring.

EMC/RFI

Readings may be affected if the unit is operated within radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.

* Note: Under the electromagnetic field of 3V/m from 350 to 550MHZ, the maximum error is 14.4°F (8°C).



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CAUTION

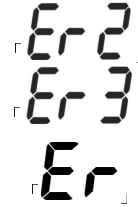
- WHEN DEVICE IS IN USE, DO NOT LOOK DIRECTLY INTO THE LASER BEAM—PERMANENT EYE DAMAGE MAY RESULT.
- USE EXTREME CAUTION WHEN OPERATING THE LASER. LASER IS ALWAYS ENABLED WHILE MEASURING.
- NEVER POINT THE DEVICE TOWARDS ANYONE'S EYES.
- KEEP OUT OF REACH OF CHILDREN.
- THIS DEVICE IS NOT INTENDED FOR HEALTH OR SAFETY RELATED APPLICATIONS.

STORAGE & CLEANING

The sensor lens is delicate. The lens should be kept clean at all times. Care should be taken when cleaning the lens using only a soft cloth or cotton swab with water or ethyl alcohol. Allow the lens to fully dry before using the thermometer. Do not submerge any part of the thermometer. The thermometer should be stored at room temperature between -4 and 149°F (-20 and 65°C).

LCD ERROR MESSAGES

The thermometer incorporates visual diagnostic messages as follows:



'Er2' is displayed when the thermometer is exposed to rapid changes in the ambient temperature.

'Er3' is displayed when the ambient temperature exceeds 32°F(0°C) or 122°F(50°C). The thermometer should be allowed plenty of time (minimum 30 minutes) to stabilize to the working/room temperature.

Error 5-9, for all other error messages it is necessary to reset the thermometer. To reset it, turn the instrument off, remove the battery and wait for a minimum of one minute, reinsert the battery and turn on. If the error message remains please contact the Service Department for further assistance.



'Hi' or 'Lo' is displayed when the temperature being measured is outside of the measurement range.

BATTERIES

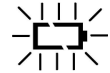
The thermometer incorporates visual low battery indication as follows:



'Battery OK': measurements are possible



'Battery Low': battery needs to be replaced, measurements are still possible



'Battery Exhausted': measurements are not possible



When the 'Low Battery' icon indicates the battery is low, the battery should be replaced immediately with AAA, 1.5V batteries. Please note: It is important to turn the instrument off before replacing the battery otherwise the thermometer may malfunction. Dispose of used battery promptly and keep away from children.

SPECIFICATION

Measurement Range	-76 to 932°F (-60 to 500 °C)
Operating Range	32 to 122°F (0 to 50 °C)
Accuracy, (Tobj=59-95°F, Tamb=77°F)	+/- 1.8°F (1.0°C)
Accuracy (Tamb=73 +/- 5°F)	Tobj=32 to 932°F: +/-2% of reading or 4°F (2°C) whichever is greater Tobj= -76 to 32 °F: +/- (4°F+0.09/degree)
Emissivity	0.95 fixed
Resolution (-9.9 to 199.9°F or °C)	0.1°F/0.1°C
Response Time (90%)	1sec
Distance to Spot Ratio	12:1
Battery Life	Typ. 18, min 14 hours continuous use
Dimensions	1.92x5.22x5.75 inch (48.8 x 132.6 x 146.1mm)
Weight	7.8 oz (221.8 grams) including batteries (AAA*2pcs)
Laser Specifications	Class II Laser Product. Maximum Output < 1mW. Wavelength: 635-660nm

** The thermometer will automatically shut off if left idle for more than 15 seconds.

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