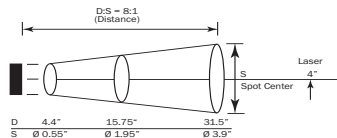


### FRONT PANEL DESCRIPTION

Congratulations on your purchase of the MANNIX Infrared Thermometer, Model IRT4. The compact size lets you get into tight places while its convenient laser targeting and high distance-to-spot ratio give you accurate readings on distant targets.

- Precise non-contact Measurements
- Selectable in °F and °C Temperature Units
- Automatic Data Hold
- Laser Target Pointer



- The meter provides simple one hand operation and time saving temperature measurement. Be sure the measure object fills the "spot" seen by the aperture.
- There will be a delay of approximately one second between the time you initially press the button and the time the display comes on.
- Not recommended for measuring on shiny surfaces. The smaller the target, the closer the unit should be to it. To avoid thermal shock, do not store the meter below freezing.

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- The meter is preset to measure objects with an emissivity of 0.95. This will accommodate the majority of items measured without compensating for higher or lower values. In most cases, there will be little difference in measurements, even if an object's emissivity is higher or lower than this preset value. Compare and confirm with known values, if in doubt.

### CAUTION

- ! Use extreme caution when the laser beam is turned on.
- ! Do not point the laser toward the eyes or face of a person or animal. Lasers potential to cause damage is retained for hundreds of feet.
- ! Be careful not to let the beam on a reflective surface strike your eye.
- ! Do not use near any flammable items or gases.

### FRONT PANEL DESCRIPTION



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Measuring Range: -4° ~788°F (-20~420°C)
Resolution: 1°F (1°C)
Accuracy: ±2% of reading or 4°C
Accuracy Notes: 1) Accuracy stated is for ambient temperature 2) Accuracy stated is for emissivity of 0.95
Emissivity: 0.95 fixed
Distance Factor: D:S = Approx. 8:1
Sampling Rate: 1 second
Display: LCD display with backlight
Power Off: Auto shut off after 4 seconds
Operating Temp.: 32° ~122°F (0° ~50°C)
Operating Humidity: Maximum of 80% RH
Power Supply: 9-Volt Battery
Power Current: Approx. 12mA DC
Weight: 6.4 oz.(200g)
Dimensions: 6.7" x 1.7" x 1.6"

### INDICATOR



1. Laser Icon
2. Digital Readout
3. °C (Celsius)
4. °F (Fahrenheit)
5. BAT (battery indicator)

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### MEASUREMENT OPERATION

#### A. Power ON/OFF

The meter automatically powers up when the MEASURE key is pressed. Press the MEASURE key to read the measured temperature on the LCD. The meter powers off automatically, approximately 4 seconds after the measure key is released.

#### B. Selecting Temperature Units (F/C)

Select temperature units (°F/°C) by first pressing the MEASURE key and then pressing the C/F key. The units will blink on the LCD.

#### C. Data Hold

This meter automatically holds the last temperature reading on the LCD for five seconds after the MEASURE key is released. No extra key presses are necessary to freeze the displayed reading.

#### D. Backlight LCD

Select backlight by first pressing the MEASURE key and then pressing the BACKLIGHT key. Repeat the procedure to turn the backlight off.

#### E. Laser Pointer

To turn the laser pointer on, press the LASER key while pressing the MEASURE key. Repeat the procedure to turn the laser OFF.

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#### F. Measurement Considerations

While holding the meter by its handle, point the IR Sensor toward the object whose temperature is to be measured. The meter automatically compensates for temperature deviations from ambient temperature.

Keep in mind that it will take up to 30 minutes to adjust the wide ambient temperature changes. When low temperature are to be measured followed by high temperature measurements, some time (several minutes) is required after the low (and before the high) temperature measurements are made. This is the result of a cooling process which must take place for the IR Sensor.

### BATTERY REPLACEMENT

A flashing display is the indication the battery voltage has fallen into the critical region (6.5 to 7.5V). Reliable readings can be obtained for several hours after the first appearance of low battery indication.

Open the Battery Compartment and remove the battery, then install a new battery and replace the cover.

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### TROUBLESHOOTING

? **Meter does not turn off** - Check voltage and replace low battery. Or check time delay which is allows 1 second for data to appear on screen.

? **Data flashing or laser comes on but no data appears** - Check battery voltage and then replace low battery.

? **Dashes appear on the screen** - Check extreme temperature, measure surrounding area to see if the target exceeds the limit.

? **No laser appears** - Press the MEASURE and LASER keys at the same time to correct.

### MAINTENANCE

#### Case cleaning:

Clean the exterior housing of the unit with a damp cloth (use caution). Ensure no water or soap is allowed inside the meter or on the infrared lens.

#### Lens cleaning:

WARNING: We recommend cleaning the lens periodically to ensure the reading accuracy. To remove any particles on the lens, use low pressure compressed air. If the contamination cannot be removed with air, use a soft cotton swab. The swab should be slightly damp and very light pressure should be applied. Do not use solvents to clean the lens!

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### MATERIALS SUPPLIED

This standard package contains:

- IRT4 Infrared Thermometer
- Battery (9.0 volt)
- Operation manual
- Carry pouch

### 1 YEAR WARRANTY

The meter is warranted to be free from defects in material and workmanship for a period of one year from the date of purchase. This warranty covers normal operation and does not cover battery, misuse, abuse, alteration, tampering, neglect, improper maintenance or damage resulting from leaking batteries. Proof of purchase is required for warranty repairs. Warranty is void if the meter has been opened.

### RETURNED GOODS AUTHORIZATION

Verbal or written authorization must be obtained from the supplier before returning items for any reason. When requesting an RGA (Return Goods Authorization) number, please include data regarding the reason for the return. The meter must be returned along with original packing (including all accessories). To prevent any damage in shipment, one should insure the parcel against possible damage or loss.

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### CE CERTIFICATION

The meter conforms to the following standards:

- EN 50081-1/1992: EN 55022
- EN 50082-1/1997: EN 55024 (EN 61000-4-2/-3/-8, ENV 50204)

The meter complies with the essential protection requirements of Council Directive 89/336/EEC on the approximation of the laws of Member States relating to electromagnetic compatibility.



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Mannix Testing & Measurement is a leader in the field of temperature, humidity, air flow and digital technology. We offer a wide variety of instruments including:

- Digital Thermometers
- Analog Thermometers
- Temperature & Humidity Monitors
- Digital Anemometers
- Digital Timers
- Stopwatches
- Weather Stations
- Rain Gauges

Please visit our website for additional information or to request a product catalog.

## OPERATION MANUAL MODEL IRT4

### Infrared Thermometer



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