

# INFRARED DIGITAL THERMOMETER

MODEL: K-550 08/2014

**KING CANADA TOOLS**  
OFFERS A 2-YEAR LIMITED WARRANTY  
FOR NON COMMERCIAL USE.



### PROOF OF PURCHASE

Please keep your dated proof of purchase for warranty and servicing purposes.

### LIMITED TOOL WARRANTY

King Canada makes every effort to ensure that this product meets high quality and durability standards. King Canada warrants to the original retail consumer a 2-year limited warranty as of the date the product was purchased at retail and that each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, normal wear and tear, negligence or accidents, repairs done by an unauthorized service center, alterations and lack of maintenance. King Canada shall in no event be liable for death, injuries to persons or property or for incidental, special or consequential damages arising from the use of our products.

To take advantage of this limited warranty, return the product at your expense together with your dated proof of purchase to an authorized King Canada service center. Contact your retailer or visit our web site at [www.kingcanada.com](http://www.kingcanada.com) for an updated listing of our authorized service centers. In cooperation with our authorized service center, King Canada will either repair or replace the product if any part or parts covered under this warranty which examination proves to be defective in workmanship or material during the warranty period.

### NOTE TO USER

This instruction manual is meant to serve as a guide only. Specifications and references are subject to change without prior notice.

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### LASER RADIATION!

Class II laser product  
Do not stare into laser beam

### WARNINGS & CAUTIONS

#### Warnings:

To avoid a potential situation that may cause harm or damage to people, pay attention to the following warnings:

1. Before use, check plastic housing carefully. If there is any damage, do not use it.
2. Do not point laser directly at eye or indirectly off reflective surfaces.
3. Do not use this unit in near explosive gas, steam or dusty areas.

#### Cautions:

To avoid damage to the unit, avoid the following situations:

1. EMF (electro-magnetic fields) from arc welders or induction heaters.
2. Thermal shock (caused by large or abrupt ambient temperature changes. Wait 30 minutes for the unit to stabilize before use).
3. Do not leave the unit on or near objects of high temperature.

### DISTANCE TO SPOT SIZE

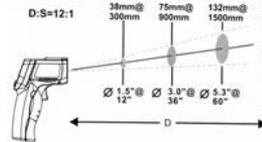


Figure 1

1. When taking measurements, pay attention to the Distance to Spot Size. As the Distance (D) Fig.1 from the target surface increases, the spot size (S) of the area measured by the unit becomes larger.

The Distance to Spot Size: 12:1

**Note:** This unit is equipped with a laser, which is used for aiming.

### Field of view

Make sure the target is larger than the unit's spot size. The smaller the target, the closer you should measure the distance. When accuracy is critical, make sure the target is at least twice as large as the spot size.

### Emissivity

Most organic materials and painted or oxidized surfaces have an emissivity of 0.95 (pre-set in the unit). Inaccurate readings will result from measuring shiny or polished metal surfaces. To compensate, cover the target surface with masking tape or flat black paint. Measure the tape or painted surface when the tape or painted area reach the same temperature as the material underneath.

### OPERATION

#### Operating the unit

1. Open the battery door (A) Fig. 2 and connect then insert the supplied 9V battery (B).
2. Pull the trigger (C) to turn the unit on.
3. Aim at the target surface and pull the trigger; the temperature will then be shown in the LCD screen. This unit is equipped with a laser, which is only to be used for aiming.

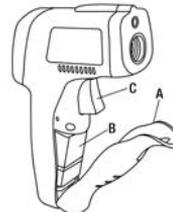


Figure 2

### Locating a Hot Spot

To find a hot spot, aim the thermometer outside the spot of interest, hold down the trigger then scan across with an up and down motion until you locate the hot spot.

### LCD Display & Buttons (Fig.3)

- A. Data hold icon
- B. Scan icon
- C. Laser on icon
- D. Backlight on icon
- E. Low battery icon
- F. Temperature unit
- G. Temperature reading

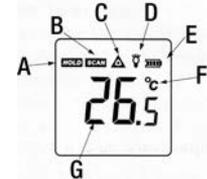


Figure 3

### Control Buttons (Fig.4)

- A. Trigger: When the trigger is pulled, the LCD display will show a SCAN icon. Release the trigger, display reading with HOLD icon for seven seconds (approx). Built-in seven-second auto power off function.
- B. Laser on/off button.
- C. Celsius/fahrenheit switch button.
- D. Backlight on/off button: When backlight is on, any operations will activate the backlight for seven seconds.

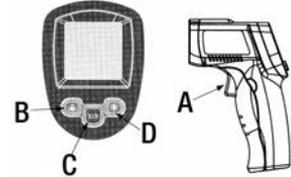


Figure 4

### MAINTENANCE

#### Lens Cleaning:

Blow off loose particles using clean compressed air. Gently brush remaining debris away with a moist cotton swab. The swab may be moistened with water.

#### Case cleaning:

Clean the case with a damp sponge/cloth and mild soap.

#### Caution:

1. Do not use solvent to clean plastic lens.
2. Do not submerge the unit in water.

### SPECIFICATIONS

Temperature range: -50°C~-550°C (-58°F~-1022°F)  
Operating temperature range: 0°C~40°C (32°F~104°F)  
Distance ratio: 12:1  
Accuracy:  $\pm 1.5^\circ\text{C}/\pm 1.5^\circ\text{F}$   
Resolution: 0.1°C  
Emissivity: 0.95  
Response time: 500 mSec, 95% response  
Battery: 9V Alkaline or NiCd battery