FLUKE.

# 62 MAX/62 MAX +

Infrared Thermometer

**Users Manual** 

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# Safety Information

A **Warning** identifies conditions and procedures that are dangerous to the user. A **Caution** identifies conditions and procedures that can cause damage to the Product or the equipment under test.

Table 1 tells you about symbols used on the Product and in this manual.

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To prevent eye damage and personal injury:

- Read all safety Information before you use the Product.
- Do not use the Product if it operates incorrectly.
- Use the Product only as specified, or the protection supplied by the Product can be compromised.
- Before you use the Product, inspect the case. Do not use the Product if it appears damaged. Look for cracks or missing plastic.



Infrared Thermometer Safety Information

- See emissivity information for actual temperatures. Reflective objects result in lower than actual temperature measurements. These objects pose a burn hazard.
- Do not look directly into the laser with optical tools (for example, binoculars, telescopes, microscopes). Optical tools can focus the laser and be dangerous to the eye.
- Do not look into the laser. Do not point laser directly at persons or animals or indirectly off reflective surfaces.
- Replace the batteries when the low battery indicator shows to prevent incorrect measurements.
- Do not use the Product around explosive gas, vapor, or in damp or wet
- Use the Product only as specified or hazardous laser radiation exposure can occur.



Table 1. Symbols

Symbol	Meaning	Symbol	Meaning
▲	Risk of danger. Important information. See Manual.	<u>N</u>	This product complies with the WEEE Directive (2002/96/EC) marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Product Category: With reference to the equipment types in the WEEE Directive Annex I, this product is classed as category 9 "Monitoring and Control Instrumentation" product. Do not dispose of this product as unsorted municipal waste. Go to Fluke's website for recycling information.



# Infrared Thermometer Safety Information

# Table 1. Symbols (cont.)

Symbol	Meaning	Symbol	Meaning
<u>*</u>	Warning. Laser.	C€	Conforms to European Union directives.
Ĥ	Battery	N10140	Conforms to relevant Australian standards.
<b>MC</b> 沪制01120009号	Conforms to China Metrology Certification		



62 MAX/62 MAX +

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# Maintenance

# **∆** Caution

To avoid damage to the Product, do not leave the thermometer on or near objects of high temperature.

#### How to Change the Battery

To install or change the AA IEC LR06 battery, open the battery compartment and replace the battery as shown in Figure 16.

# How to Clean the Product

Use soap and water on a damp sponge or soft cloth to clean the Product case. Carefully wipe the surface with a moist cotton swab. The swab may be moistened with water. See Figure 17.



# Infrared Thermometer Specifications

# **Specifications**

	62 MAX	62 MAX +
Temperature Range	-30 °C to 500 °C (-22 °F to 932 °F)	-30 °C to 650 °C (-22 °F to 1202 °F)
Accuracy (Calibration geometry with ambient temperature 23 °C ±2 °C)	$\geq$ 0 °C: $\pm$ 1.5 °C or $\pm$ 1.5 % of reading, whichever is greater ( $\geq$ 32 °F: $\pm$ 3 °F or $\pm$ 1.5 % of reading, whichever is greater) $\geq$ -10 °C to <0 °C: $\pm$ 2 °C ( $\geq$ 14 °F to <32 °F: $\pm$ 4 °F) < -10 °C: $\pm$ 3 °C (<14 °F: $\pm$ 6 °F)	$\geq$ 0 °C: ±1 °C or ±1 % of reading, whichever is greater ( $\geq$ 32 °F: ±2 °F or ±1 % of reading, whichever is greater) $\geq$ -10 °C to <0 °C: ±2 °C ( $\geq$ 14 °F to <32 °F: ±4 °F) < -10 °C: ±3 °C (<14 °F: ±6 °F)
Response Time (95 %)	<500 ms (95 % of reading)	<300 ms (95 % of reading)
Spectral Response	8 to 14 microns	
Emissivity	0.10 to 1.00	
Temperature Coefficient	±0.1 °C/°C or ±0.1 %/°C of reading (whichever is greater)	



Optical Resolution	10:1	12:1
Optical Nesolution	(calculated at 90 % energy)	(calculated at 90 % energy)
Display Resolution	0.1 °C (0.2 °F)	
Repeatability (% of reading)	±0.8 % of reading or ±1.0 °C (2 °F), whichever is greater	±0.5 % of reading or ±0.5 °C (1 °F), whichever is greater
Power	1 AA IEC LR06 Battery	( ),
Battery Life	10 hours with laser and	8 hours with laser and
Battery Life	backlight on	backlight on
Weight	255 g (8.99 oz)	
Size	(175 x 85 x 75) mm (6.88 x 3.34 x 2.95) inches	
Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)	
Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F), (without battery)	
Operating Humidity	10 % to 90 % RH non-condensing @ 30 °C (86 °F)	
Operating Altitude	2000 meters above mean sea level	
Storage Altitude	12,000 meters above mean sea level	



#### Infrared Thermometer Standards and Agency Approval

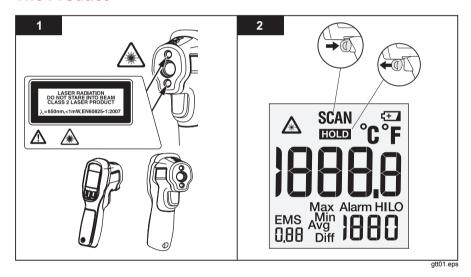
Ingress Protection Rating	IP 54 per IEC 60529
Drop Test	3 meters
Vibration and Shock	IEC 60068-2-6 2.5 g, 10 to 200 Hz, IEC 60068-2-27, 50 g, 11 ms
EMC	EN 61326-1:2006 EN 61326-2:2006

# Standards and Agency Approval

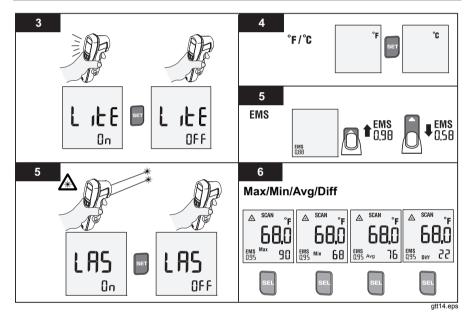
Compliance	EN/IEC 61010-1
Laser Safety	EN 60825-1 Class 2
Implement Standard	Q/SXAV37

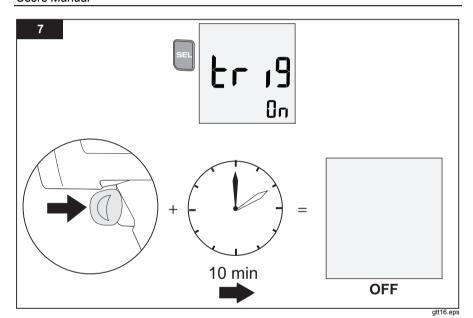


# The Product



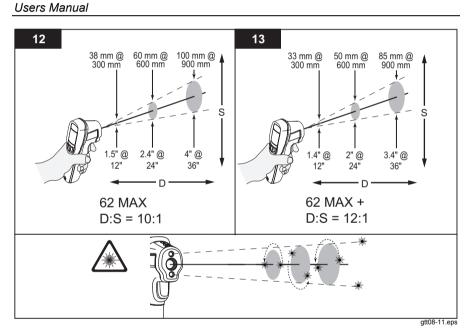
# Infrared Thermometer The Product



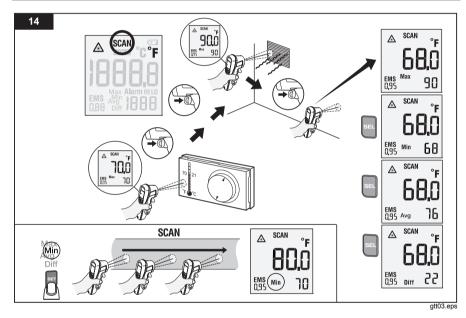


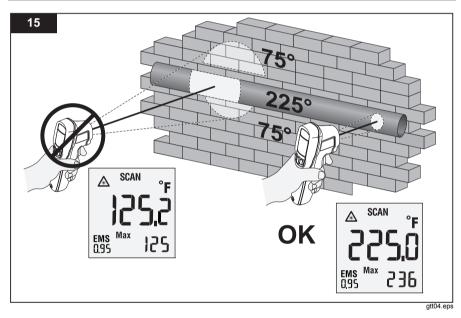
# Alarm LD Ala

# 62 MAX/62 MAX +



# Infrared Thermometer The Product





# Infrared Thermometer The Product

