

62 MAX/62 MAX +

Infrared Thermometer

Users Manual

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TestEquipmentDepot.com

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Introduction

The Fluke 62 MAX and 62 MAX + Infrared Thermometers (the Product) can determine the surface temperature by measuring the amount of infrared energy radiated by the target's surface. Note that the Japanese models indicate Celsius only.

▲Warning

Read all safety information before you use the Product.

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.

<u>∧</u>Marning

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.

- 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 environments.
- Use the Product only as specified or hazardous laser radiation exposure can occur.

Symbol	Meaning	Symbol	Meaning
▲	Risk of danger. Important information. See Manual.	Â	Do not dispose of this product as unsorted municipal waste. Go to Fluke's website for recycling information.
	Warning. Laser.	CE	Conforms to European Union directives.
Ê	Battery	C N10140	Conforms to relevant Australian standards.

Table 1. Symbols

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.

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	$ \begin{array}{l} \geq 0 \ ^{\circ}\text{C}: \pm 1.5 \ ^{\circ}\text{C} \ \text{or} \pm 1.5 \ ^{\circ}\text{of} \\ \text{reading, whichever is} \\ \text{greater} \\ (\geq 32 \ ^{\circ}\text{F}: \pm 3 \ ^{\circ}\text{F} \ \text{or} \pm 1.5 \ ^{\circ}\text{of} \\ \text{reading, whichever is} \\ \text{greater} \\ \geq -10 \ ^{\circ}\text{C} \ \text{to} < 0 \ ^{\circ}\text{C}: \pm 2 \ ^{\circ}\text{C} \\ (\geq 14 \ ^{\circ}\text{F} \ \text{to} < 32 \ ^{\circ}\text{F}: \pm 4 \ ^{\circ}\text{F}) \\ < -10 \ ^{\circ}\text{C}: \pm 3 \ ^{\circ}\text{C} \\ (< 14 \ ^{\circ}\text{F}: \pm 6 \ ^{\circ}\text{F}) \end{array} $	$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$	
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		

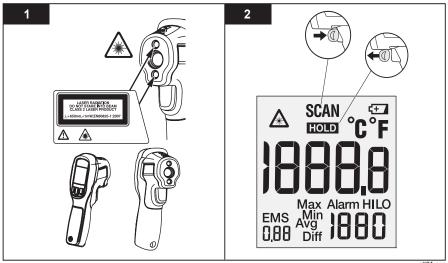
Optical Resolution	10:1	12:1	
option recolution	(calculated at 90 % energy)	(calculated at 90 % energy)	
Display Resolution	0.1 °C (0.2 °F)		
Repeatability (% of reading)	± 0.8 % of reading or ± 1.0 °C	± 0.5 % of reading or ± 0.5 °C	
(ve er reduing)	(2 °F), whichever is greater	(1 °F), whichever is greater	
Power	1 AA IEC LR06 Battery		
Battery Life	10 hours with laser and	8 hours with laser and	
Battery Elic	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		

IP Rating	IP 54 per IEC 60529
Drop Test	3 meters
Vibration and Shock	IEC 68-2-6 2.5 g, 10 to 200 Hz, IEC 68-2-27, 50 g, 11 ms
EMC	EN 61326-1:2006 EN 61326-2:2006

Standards and Agency Approval

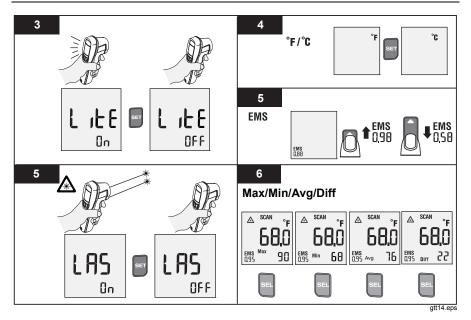
Compliance	EN/IEC 61010-1: 2001
Laser Safety	FDA and EN 60825-1 Class II

The Product

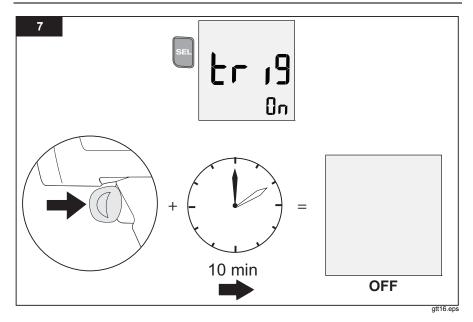


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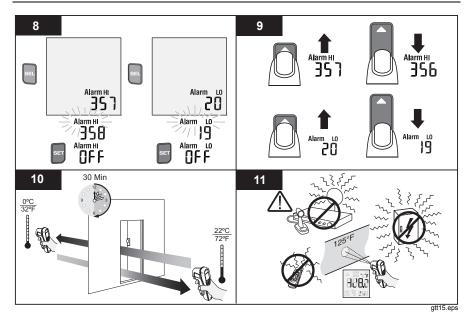
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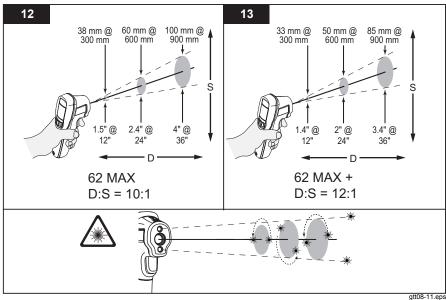
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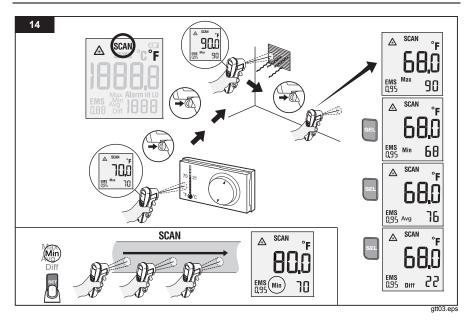
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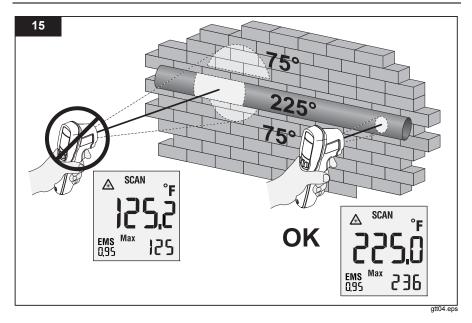
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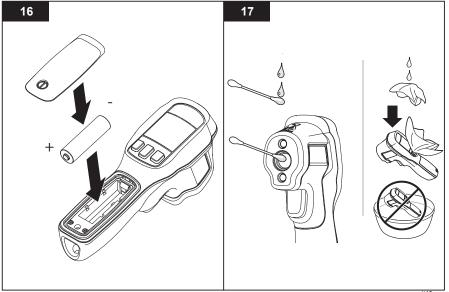


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