








# IR-700 Series Infrared Thermometers

**IR-710, IR-712, IR-720, IR-730 and IR-750**

The Amprobe IR-700 series of infrared thermometers is a complete line of high performance diagnostic tools designed for HVAC/R, electrical, industrial maintenance, automotive as well as quality control and fire prevention applications.

- Extremely accurate and reliable
- Precise measurement with distance to spot ratio from 10:1 to 50:1
- Wide temperatures ranges available up to -58°F to 2822°F (-50°C to 1550°C)
- Rapid response time
- Laser pointer for accurate targeting
- 8 seconds auto display hold for easy read-out
- Adjustable emissivity for measuring a variety of materials
- Dual LCD display with backlight
- Selectable °F and °C
- Stores up to 99 data points (IR-750 only)
- Thermocouple input (IR-750 only)
- USB interface (IR-750 only)

Series Selection Guide	IR-710	IR-712	IR-720	IR-730	IR-750
					
<b>Features</b>					
Distance to Spot (D:S)	10:1	12:1	20:1	30:1	50:1
Temperature Range	0°F to 716°F -18°C to 380°C	0°F to 1022°F -18°C to 550°C	-26°F to 1922°F -32°C to 1050°C	-26°F to 2282°F -32°C to 1250°C	-58°F to 2822°F -50°C to 1550°C
Best Accuracy	±2%	±1.8%			
Emissivity for measuring a variety of materials	0.95	Adjustable from 0.10 to 1.00			
Display Resolution	0.1°C / 0.1°F				0.1°C / 0.1°F of reading < 999.9
MIN/MAX Memory	■	■	■	■	■
DIF/AVG Temperature Display		■	■	■	■
Tripod mount		■	■	■	■
Programmable high and low alarm					■
USB interface					■
Built in memory					99
K-Type thermocouple measurement					■
Warranty	1 year				

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Specifications	IR-710	IR-712	IR-720	IR-730	IR-750
Temperature Range	0°F to 716°F -18°C to 380°C	0°F to 1022°F -18°C to 550°C	-26°F to 1922°F -32°C to 1050°C	-26°F to 2282°F -32°C to 1250°C	-58°F to 2822°F -50°C to 1550°C
Accuracy With ambient operating temperature of 70°F to 77°F (21°C to 25°C)	18°C to 10°C (-0.4°F to 50°F): $\pm 2\% + 1^\circ\text{C}$ (2°F), or $\pm 3^\circ\text{C}$ ( $\pm 6^\circ\text{F}$ ), whichever is greater >10°C to 380°C (>50°F to 716°F): $\pm 2\%$ , or $\pm 2^\circ\text{C}$ ( $\pm 4^\circ\text{F}$ ), whichever is greater	$\pm 1.8\%$ or $\pm 4^\circ\text{F}$ ( $\pm 1.8^\circ\text{C}$ ), whichever is greater	>0°C to 1250°C (>32°F to 2282°F): $\pm 1.8\%$ or $\pm 1.8^\circ\text{C}$ ( $\pm 4^\circ\text{F}$ ), whichever is greater -32°C to 0°C (-26°F to 32°F): $\pm 1.8\% + 1^\circ\text{C}$ (2°F) or $\pm 2.8^\circ\text{C}$ ( $\pm 6^\circ\text{F}$ ), whichever is greater		>0°C to 1550°C (>32°F to 2822°F): $\pm 1.8\%$ or $\pm 1.8^\circ\text{C}$ ( $\pm 4^\circ\text{F}$ ), whichever is greater >-35°C to 0°C (-31°F to 32°F): $\pm 1.8\% + 1^\circ\text{C}$ (2°F) or $\pm 2.8^\circ\text{C}$ ( $\pm 6^\circ\text{F}$ ), whichever is greater -50°C to -35°C (-58°F to -31°F): not specified (for reference only)
Repeatability	$\pm 0.5\%$ of reading or $\pm 1^\circ\text{F}$ ( $\pm 0.5^\circ\text{C}$ ), whichever is greater				
Display Resolution	0.1°F / 0.1°C				0.1°F / 0.1°C of reading < 999.9 0.2°F / 0.2°C of reading below 10°C (50°F) 1°F / 1°C of reading > 999.9
Spectral Response	8μm to 14μm				
Laser Sighting	Single point laser				
Laser Power	Output > 1mW Class 2, wavelength 630 to 670nm				
Response Time (95%)	500ms	250ms			
Distance to Spot (D:S)	10:1	12:1	20:1	30:1	50:1
Minimum Spot Size	20mm	25mm		24mm	19mm
Emissivity	0.95	Digitally adjustable from 0.10 to 1.00 by 0.01. Pre-set emissivity is 0.95			
Ambient Operating Temperature	32°F to 104°F 0°C to 40°C				
Relative Humidity	0% to 75% non-condensing				
Storage Temperature	-4°F to 150°F / -20°C to 65°C				
Temperature Display	°F / °C selectable				
Display Hold	8 seconds				
MAX/MIN Temperature Display	■	■	■	■	■
DIF/AVG Temperature Display	NA	■	■	■	■
Dual LCD Display	■	■	■	■	■
LCD Backlit	■	■	■	■	■
Low Battery Indication	■	■	■	■	■
Tripod mount	NA	■	■	■	■
Power	9V 6F22 alkaline battery or equivalent				9V 6F22 alkaline battery or by power adaptor (output DC 6V/450mA)
Battery Life	10 hours with laser and backlight on 30 hours with laser and backlight off				
Dimension (H x L x W)	Approx. 153 x 108 x 40 mm (6.0 x 4.5 x 1.6 in)	Approx. 169 x 138 x 53 mm (6.7 x 5.4 x 2.1 in)			Approx. 183 x 147 x 57 mm (7.2 x 5.8 x 2.3 in)
Weight	Approx. 180 g (0.4 lb) with battery installed	Approx. 290 g (0.64 lb) with battery installed			Approx. 345 g (0.76 lb) with battery installed
Included Accessories	Battery and Instruction Manual	Carrying Bag, Battery and Instruction Manual (Battery not installed)			Software CD, USB Cable, K-type Thermocouple Probe, Carrying Bag, Hard Carrying Case, Battery and Instruction Manual
Optional/Recommended Accessories (IR-750 only)	NA				Power adaptor EPS-700-US (US plug), EPS-700-EUR (European plug)

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