








# 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<br>-18°C to 380°C  | 0°F to 1022°F<br>-18°C to 550°C   | -26°F to 1922°F<br>-32°C to 1050°C  | -26°F to 2282°F<br>-32°C to 1250°C  | -58°F to 2822°F<br>-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<br>-18°C to 380°C   | 0°F to 1022°F<br>-18°C to 550°C   | -26°F to 1922°F<br>-32°C to 1050°C   | -26°F to 2282°F<br>-32°C to 1250°C   | -58°F to 2822°F<br>-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): ±2%+1°C (2°F), or ±3°C (±6°F), whichever is greater<br>>10°C to 380°C (>50°F to 716°F): ±2%, or ±2°C (±4°F), whichever is greater | ±1.8% or ±4°F (±1.8°C), whichever is greater                                  | >0°C to 1250°C (>32°F to 2282°F): ±1.8% or ±1.8°C (±4°F), whichever is greater<br>-32°C to 0°C (-26°F to 32°F): ±1.8%+1°C (2°F) or ±2.8°C (±6°F), whichever is greater | >0°C to 1550°C (>32°F to 2822°F): ±1.8% or ±1.8°C (±4°F), whichever is greater<br>>-35°C to 0°C (-31°F to 32°F): ±1.8%+1°C (2°F) or ±2.8°C (±6°F), whichever is greater<br>-50°C to -35°C (-58°F to -31°F): not specified (for reference only) |   |
| Repeatability  | ±0.5% of reading or ±1°F (±0.5°C), whichever is greater  |   |  |  |   |
| Display Resolution   | 0.1°F / 0.1°C  |   |  |  | 0.1°F / 0.1°C of reading < 999.9<br>0.2°F / 0.2°C of reading below 10°C (50°F)<br>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.<br>Pre-set emissivity is 0.95 |  |  |   |
| Ambient Operating Temperature  | 32°F to 104°F<br>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<br>30 hours with laser and backlight off  |   |  |  |   |
| Dimension (H x L x W)  | Approx. 153 x 108 x 40 mm<br>(6.0 x 4.5 x 1.6 in)  | Approx. 169 x 138 x 53 mm<br>(6.7 x 5.4 x 2.1 in)                             |  |  | Approx. 183 x 147 x 57 mm<br>(7.2 x 5.8 x 2.3 in)   |
| Weight   | Approx. 180 g (0.4 lb)<br>with battery installed   | Approx. 290 g (0.64 lb)<br>with battery installed                             |  |  | Approx. 345 g (0.76 lb)<br>with battery installed   |
| Included Accessories   | Battery and Instruction Manual   | Carrying Bag, Battery and Instruction Manual<br>(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),<br>EPS-700-EUR (European plug)  |