BEHA·AMPROBE®

IR-700-EUR Series
Infrared Thermometers
IR-710-EUR, IR-720-EUR, IR-730-EUR and IR-750-EUR

The Beha-Amprobe IR-700-EUR 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. From simple spot checking to advanced data recording, the IR-700-EUR series offers the right tool for the job.

Additional Features

- **Extremely accurate and reliable**
- **Precise measurement** with distance to spot ratio from 10:1 to 50:1
- **Wide temperature ranges** available up to -50°C to 1550°C (-58°F to 2822°F)
- **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 (IR-720-EUR, IR-730-EUR, IR-750-EUR)
- **Selectable °C and °F**
- **Stores up to 99 data points** (IR-750-EUR only)
- **Thermocouple input** (IR-750-EUR only)
- **USB interface** (IR-750-EUR only)

Laser Aperture (front)

Dual LCD Display with Backlight

- **USB Connector**
- **K-type Thermocouple Connector**
- **Power Adaptor Connector** (for optional accessory)

Trigger

Battery Cover

IR-750-EUR
Infrared Thermometer

Safety Certification

All Beha-Amprobe tools, including the Beha-Amprobe IR-700-EUR Series, are rigorously tested for safety, accuracy, reliability, and ruggedness in our state-of-the-art test lab. In addition, Beha-Amprobe products that measure electricity are listed by a 3rd party safety lab, either UL or CSA. This system assures that Beha-Amprobe products meet or exceed safety regulations and will perform in a tough, professional environment for many years to come.

BEHA·AMPROBE®

IR-700-EUR Series
Key Applications

Safely and easily verify temperature of major appliances, indoors and outdoors. Check the temperature of stoves, ovens and grills with a simple pull of the trigger.

The bright LCD display and red laser pointer make it easy to verify the temperature of fuses, insulation, light bulb housings, and more, even in dimly lit areas.

For precision measurements requiring the highest accuracy, emissivity can be adjusted for a wide range of material types (IR-720-EUR, IR-730-EUR and IR-750-EUR).

The advanced IR-750-EUR records up to 99 data points for minimum, maximum, average, and hold, and has a USB port to export data for extensive analysis.

Fast and Accurate from a Distance The IR-700-EUR series measures temperature up to four times a second (250ms) allowing the units to precisely pinpoint hot and cold spots. With a distance to spot ratio of up to 50:1, the series is designed to measure temperature quickly and accurately without having to touch an object.

Easy to Read Display The bright, high-contrast backlit LCD screen has an eight-second hold for reading temperature, and a low battery indicator to help prevent false readings. All models display maximum and minimum temperature, while advanced models also offer average and difference measurements (IR-720-EUR, IR-730-EUR, IR-750-EUR).

Adjustable Emissivity for Precision Measurements The IR-700-EUR series determines temperature by measuring emitted, reflected and transmitted energy. For enhanced accuracy, the emissivity can be adjusted to fit specific material types. Emissivity is digitally adjustable from 0.10 to 1.00 on the , IR-720-EUR, IR-730-EUR and IR-750-EUR.

Series Selection Guide	IR-710-EUR	IR-720-EUR	IR-730-EUR	IR-750-EUR
Features				
Distance to Spot (D:S)	10:1	20:1	30:1	50:1
Temperature Range	-18°C to 380°C 0°F to 716°F	-32°C to 1050°C -26°F to 1922°F	-32°C to 1250°C -26°F to 2282°F	-50°C to 1550°C -58°F to 2822°F
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			

BEHA·AMPROBE®

IR-700-EUR Series
Specifications

	IR-710-EUR	IR-720-EUR	IR-730-EUR	IR-750-EUR
Temperature Range	-18°C to 380°C 0°F to 716°F	-32°C to 1050°C -26°F to 1922°F	-32°C to 1250°C -26°F to 2282°F	-50°C to 1550°C -58°F to 2822°F
Accuracy with Ambient Operating Temperature of **21°C to 25°C (70°F to 77°F)** (IR-708-EUR, 710-EUR, 720-EUR, 730-EUR) **23°C to 25°C (72°F to 77°F)** (IR-750-EUR)	-18°C to 10°C (-0.4°F to 50°F): ±2%+1°C (2°F), or ±3°C (±6°F), whichever is greater (Typical) >10°C to 380°C (>50°F to 716°F): ±2%, or ±2°C (±4°F), whichever is greater (Typical)	>0°C to 1250°C (>32°F to 2282°F): ±1.8% or ±1.8°C (±4°F), whichever is greater (Typical) -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 (Typical)		>0°C to 1250°C (>32°F to 2282°F): ±1.8% or ±1.8°C (±4°F), whichever is greater (Typical) -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 (Typical) -50°C to -35°C (-58°F to -31°F): not specified (for reference only)
Repeatability	±0.5% of reading or ±0.5°C (±1°F), whichever is greater			
Display Resolution	0.1°C / 0.1°F			0.1°C / 0.1°F of reading < 999.9 0.2°C / 0.2°F of reading below 10°C (50°F) 1°C / 1°F of reading > 999.9
Spectral Response	8µm to14µm			
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	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	0°C to 50°C 32°F to 122°F			
Relative Humidity	0% to 75% non-condensing			
Storage Temperature	-20°C to 65°C / -4°F to 150°F			
Temperature Display	°C / °F selectable			
Display Hold	8 seconds			
MAX/MIN Temperature Display	●	●	●	●
DIF/AVG Temperature Display	–	●	●	●
Dual LCD Display	●	●	●	●
LCD Backlit	●	●	●	●
Low Battery Indication	●	●	●	●
Tripod mount	–	●	●	●
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-EUR only)	–			Power adaptor EPS-700-EUR (European plug) EPS-700-US (US plug)