

ST640 Series

Low Cost Handheld Infrared Thermometer



Model ST642 with Type K Thermocouple input (probe not included)

- Wide temperature range
- Built-in laser pointer to improve aim
- Narrow field of view
- Input for type K thermocouple (ST642)
- Adjustable emissivity (ST642)
- Adjustable high and low alarms, audible and visual
- Backlit display with Data Hold
- °C/°F switchable
- Fast sampling time
- Auto-hold and power off
- High quality construction

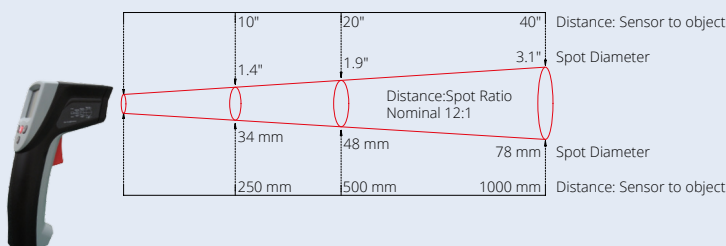
GENERAL SPECIFICATIONS

Temperature Range	-32°C to 535°C (-25°F to 999°F)
Accuracy*	±3°C (±5°F) from -32°C to -20°C (-25°F to -4°F) ±2°C (±3°F) from -20°C to 100°C (-4°F to 212°F) ±2% above 100°C (212°F)
Optics	12:1 divergent (see below)
Spectral Range	5 to 14µm
Repeatability	±1°C (±2°F)
Resolution	0.1°C (0.1°F)
Response Time	500ms
Ambient Range	0°C to 50°C (32°F to 122°F), 10% to 90%RH
Power OFF	Automatic after approx. 7s
Display	LCD with backlighting
Battery Type	9V, PP3
Dimensions	180mm x 130mm x 40mm
Weight	195g

*Accuracy is given at ambient temperature of 25°C (77°F)

	ST640	ST642
Emissivity Setting	Fixed at 0.95	Adjustable 0.1 to 1.0
Type K Thermocouple Input	NO	YES
eSmart Emissivity Correction	NO	YES
Audible Alarm	YES	YES
CIS Visual Alarm	YES	YES
°C/°F Switchable	YES	YES
Backlight	YES	YES
Laser Sight Switchable On/Off	YES	YES
Max/Min/Avg/ΔT	YES	YES
Carrying case included	YES	YES

OPTICS



The ST640 Series is a range of low cost, handheld infrared thermometers with laser sighting and large backlit LCD displays.

Each unit measures from -32°C to 535°C with 0.1°C resolution. They also offer a superior 12:1 field of view, which helps to minimise errors by producing a small diameter measurement area.

The emissivity setting on the ST640 is fixed at 0.95, making it ideal for most organic materials and non-reflective (painted, oxidised or anodised) metals. The emissivity setting on the ST642 is adjustable from 0.1 to 1.0 and can be set automatically by using the thermocouple input and eSmart feature.

Both models provide adjustable audible and visual alarms in which the colour of the display changes when the target temperature exceeds the alarm set point.

Readings can be taken in °C or °F, and when the trigger is released the last measurement is held for approximately 7 seconds before the unit automatically turns off.

ST640 series thermometers will operate in ambient temperatures from 0°C to 50°C and are powered by a standard PP3, 9V battery.

Each unit is supplied with a soft carrying case.