

# ST640 Series

## Low Cost Handheld Infrared Thermometer



- 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

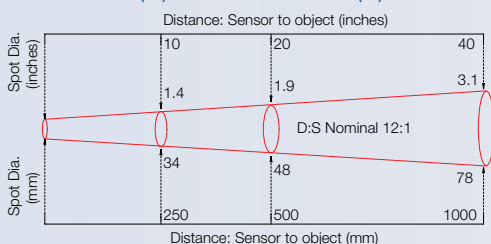
### GENERAL SPECIFICATIONS

<b>Field-of-view</b>	12:1
<b>Temperature Range</b>	-32°C to 535°C (-25°F to 999°F)
<b>Accuracy*</b>	±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)
<b>Spectral Range</b>	5 to 14µm
<b>Repeatability</b>	±1°C (±2°F)
<b>Resolution</b>	0.1°C (0.1°F)
<b>Response Time</b>	500ms
<b>Ambient Range</b>	0°C to 50°C (32°F to 122°F), 10% to 90%RH
<b>Power OFF</b>	Automatic after approx. 7s
<b>Display</b>	LCD with backlighting
<b>Battery Type</b>	9V, PP3
<b>Dimensions</b>	180mm x 130mm x 40mm
<b>Weight</b>	195g

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

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

### DISTANCE (D) TO SPOT SIZE (S)



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-shiny (painted, corroded 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 complete with a soft carrying case.