

# ST680 Series

## Handheld Infrared Thermometer

**CALEX**  
ELECTRONICS LIMITED



- Wide temperature range, -50°C to 1000°C
- Narrow 50:1 field of view
- USB Data Output (ST689)
- Input for type K thermocouple (ST689)
- Built-in laser pointer to improve aim
- Adjustable emissivity
- Adjustable high and low alarms
- Backlit LCD display
- °C/°F switchable
- Fast sampling time
- Auto-hold and power off
- High quality construction

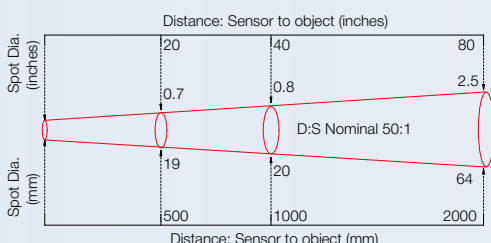
### GENERAL SPECIFICATIONS

<b>Field-of-view</b>	50:1
<b>Temperature Range</b>	-50°C to 1000°C (-58°F to 1832°F)
<b>Accuracy*</b>	±3°C (±5°F) from -50°C to -20°C (-58°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>	8 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. 6s
<b>Display</b>	4-digit LCD with backlighting
<b>Battery Type</b>	9V, PP3
<b>Dimensions</b>	200mm x 127mm x 47mm
<b>Weight</b>	330g

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

	ST688	ST689
Emissivity	Adjustable 0.1 to 1.0	Adjustable 0.1 to 1.0
Type K Thermocouple Input	NO	YES
USB Data Output	NO	YES
10 point memory	YES	YES
Audible Alarm	YES	YES
°C/°F Switchable	YES	YES
Backlight	YES	YES
Laser Sight Switchable	YES	YES
Max/Min/Avg/ΔT	YES	YES
Carrying case	YES	YES

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



The ST680 Series is a range of high quality, handheld infrared thermometers with laser sighting and large backlit LCD displays.

Each unit measures from -50°C to 1000°C with 0.1°C resolution. They also offer a superior 50:1 field of view, which helps to minimise errors by producing a small diameter measurement area.

Model ST689 has a USB data output.

The emissivity setting is adjustable from 0.1 to 1.0 and both models provide adjustable audible alarms.

Readings can be taken in °C or °F, and when the trigger is released the last measurement is held for approximately 6 seconds before the unit automatically turns off.

ST680 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.