

# Laser Marker Infrared Thermometers

## No. 8260-00 Infrared Thermometer W/ Point Laser Marker Model SK-8700

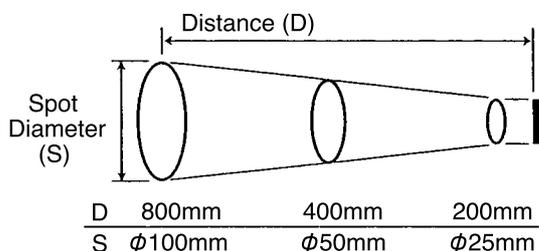


### APPLICATIONS

- Food Preparation
- Food Testing and Measurement
- Automobile
- Chemical and Petroleum
- Electronics
- Heating and Air Conditioning
- Plastics
- Textiles
- Road Construction

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

The infrared thermometer focuses infrared energy from an object onto its detector at the rate. 8:1 distance to spot size ratio (D:S) means that the infrared thermometer will read 4 cm diameter area 32 cm away.



### SPECIFICATIONS

Model	INFRARED THERMOMETER SK-8700
Measuring range	-20 to 420°C/0 to 786°F
Accuracy (at 23°C±5°C)	±2°C (-20 to 100°C) ±2% Reading (101 to 420°C) (calibrated by Black body at 0.95 emissivity)
Resolution	1°C/1°F
Repeatability	±1°C/±1°F
Emissivity	Fixed at 0.95
Distance to spot size (D:S)	8:1
Detector	Thermopile
Spectral response	6 to 14 μm
Response time	0.5 second
Laser sighting	1 point • Class II Laser (use less than 1 mW of power)
Operating ambient	Temperature: 0 to 50°C RH: less than 80% no condensing
Storage ambient	Temperature: -20 to 55°C RH: less than 90% no condensing
Power requirement	9 VDC (one 6F22 battery)
Power consumption	Max. 40 mA (when Laser and Backlight ON)
Battery life	Approx. 5 hours (Laser & Backlight ON) Approx. 10 hours (Laser ON & Backlight OFF) Approx. 12 hours (Laser OFF & Backlight ON) Approx. 50 hours (Laser & Backlight OFF)
Functions	°C/°F selectable Backlight ON/OFF switch Laser marker ON/OFF switch Auto power-off
Dimensions	41.5 (W) x 65 (D) x 160 (H) mm
Weight	Approx. 140 g (including battery)
Standard accessories	Vinyl cover, Lens cap, One 6F22 battery, Soft pouch, Hand strap

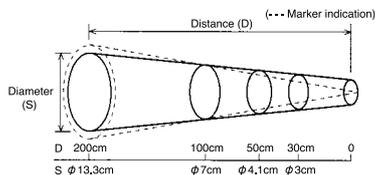
# SK-8100 Series Infrared Thermometers (Model SK-8110/SK-8120/SK-8130/SK-8140)

## MUTUAL FEATURES

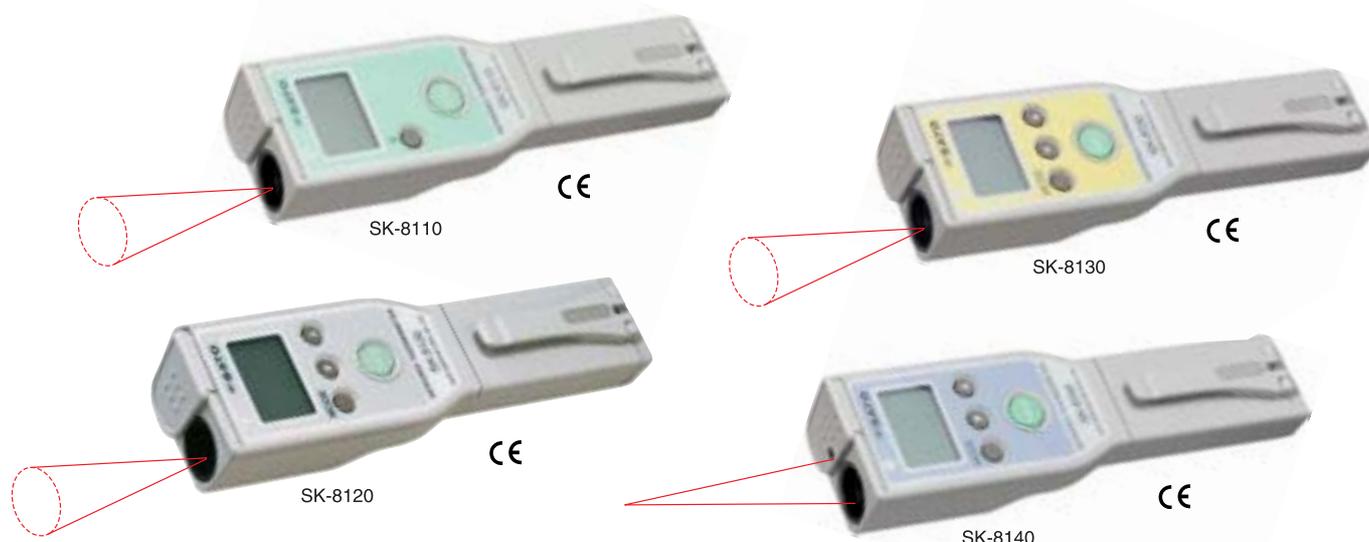
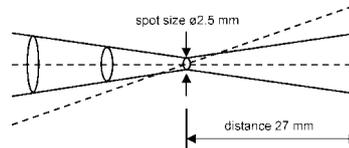
- Non-contact and clear laser marker for easy and accurate measurement
- Waterproof property of IPX4: No adverse effects of water splashes
- Auto power-off function for conserving battery power
- Auto backlight function when used in the dark
- Selectable °C and °F

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

(Applicable for SK-8110, SK-8120 and SK-8130)



Dual Point Laser (Applicable for SK-8140)



## SPECIFICATIONS

Name	Circle Laser Marker Infrared Thermometer			Dual Point Laser Infrared Thermometer
	8211-00	8212-00	8213-00	8214-00
Cat. No.	SK-8110	SK-8120	SK-8130	SK-8140
Model				
Measuring range	- 40 to 400°C			- 50 to 500°C
Accuracy (emissivity at 0.95 in 18 to 28°C state)	$\pm 1\%$ rdg. at above 200°C $\pm 2^\circ\text{C}$ at 1 to 199°C $\pm 5^\circ\text{C}$ at below 0°C			
Temperature drift (emissivity at 0.95)	$\pm 0.1\%$ / °C rdg. at above 200°C $\pm 0.2^\circ\text{C}$ / °C at below 200°C			
Repeatability	less than 1°C at above 30°C (emissivity at 0.95 in 18 to 28°C state)			
Response time	approx. 1.5 second (90% response)			
Emissivity	Selectable among 0.95, 0.90 and 0.85		Adjustable from 0.10 to 1.00 in 0.01 steps	
Distance coefficient	D : S = approx. 15 : 1 (D: distance, S: spot size)			Measuring distance: 27 mm Spot size (diameter): $\phi$ 2.5 mm
Detector	Thermopile			
Wavelength	8 to 14 $\mu\text{m}$			
Targeting system	Circle Laser Marker		Dual Point Laser Marker	
Function	Wavelength: 650 nm			
	Laser output: less than 1 mW (Class II Laser)			
	Auto power-off, Auto backlight			
Operating ambient	High and low temperature alarm			
	PEAK / VALLEY selectable			
Waterproof property	0 to 50°C for temperature			
	Less than 85% RH for humidity (no condensing)			
Power requirement	JIS C 0920 equivalent to IPX4			
	3VDC ("AA" (LR6) size Alkaline battery x 2) Consumption current: 120 mA			
Battery life	approx. 16 hours with use of laser and new Alkaline batteries			
Dimensions	44(W) x 152(H) x 27.5(D) mm			
Weight	approx. 140g (including batteries)			
Materials	Main body: Polycarbonate, Lens: Silicon			
Accessories	Neck strap, "AA" (LR6) size Alkaline battery x 2			

Specifications subject to change without notice. 11.06