

Product Datasheet - Technical Specifications



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Handheld Thermal Camera — 49 152 Pixels

SEFRAM9832B

A compact handheld thermal camera designed for industrial and electrical temperature diagnostics.



The SEFRAM9832B is a compact and robust handheld thermal camera, specifically designed for accurate temperature measurement in electrical and industrial environments.

It features a high-performance thermal sensor with a resolution of 256×192 pixels (49 152 pixels total), enhanced by an artificial intelligence-based image optimization that delivers an effective resolution of 512×384 pixels (196 608 pixels) for greater detail and precision.

The integrated visible-light camera enables picture-in-picture (PIP) mode, providing improved visual context and faster fault identification.

The SEFRAM9832B helps technicians quickly detect overheating components and make informed maintenance decisions across a wide range of applications.

Designed for versatility, it is ideal for applications including industrial maintenance, electrical inspections, building diagnostics, HVAC system analysis, and many others.

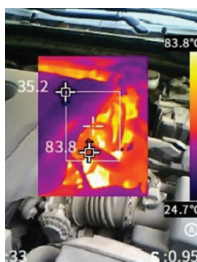
KEY FEATURES

- **Hot and cold spot detection:** The device automatically detects the coldest and hottest points. Temperature measurements are taken in real time and displayed on screen.
- **Storage:** The camera is equipped with a 32 GB internal memory for storing captured images and recording thermal data.
- **6 Color palettes:** The camera features 6 color palettes to highlight desired elements.
- **Laser pointer:** The camera is equipped with a long-distance laser pointer for precise target aiming.
- **Visible-light camera:** Integrated camera enabling picture-in-picture (PIP) thermal/visual overlay.
- **Multiple recordings:** Capture images and videos during thermal inspections.

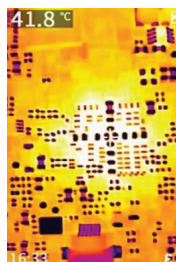
TECHNICAL HIGHLIGHTS

- Resolution 256×192 (49 152 pixels)
- AI-enhanced image processing increases effective resolution to 512×384 (196 608 pixels).
- Thermal sensitivity: 30 mK
- 3.5-inch LCD screen
- Built-in rechargeable Li-ion battery
- Up to 12 hours of continuous operation
- 32 GB built-in memory
- Integrated laser pointer
- USB Type-C connector
- Optional Wi-Fi connectivity for smart-phone connection (iOS / Android)
- 3-year warranty

APPLICATIONS



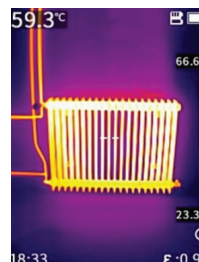
Mechanical maintenance



Electronic circuit boards



Electrical installations



HVAC systems

Specifications

Model	SEFRAM9832B
Thermal sensor	
Thermal sensor	Focal plane arrays (FPA), uncooled
Infrared resolution	256 × 192 (49 152 pixels)
Artificial Intelligence (AI) mode	512 × 384 (196 608 pixels)
Detector size	12 μm
Spectral range	7.5 to 14 μm
Frame rate	9 Hz
Emissivity adjustment	Yes
NETD	30 mK
Field of view	56° × 42°
Focal length	3.2 mm
IFOV	3.75 mrad
Distance-to-spot ratio (D:S)	266:1
Focus mode	Fixed focus
Min. focusing distance	0.3 m
Display	
Display	3.5-inch LCD screen
Image modes	Thermal / Visual / Fusion
Color alarm	Temperature threshold
Digital camera	2 MP
Palettes	Warm White, Warm Black, Rainbow 1, Rainbow 2, Ironbow, Warm Red
Measurements and analysis	
Temperature range	-20 °C to 550 °C
Accuracy	±2 °C or ±2%
Measurement presets	Central point, Hot point, Cold point
Battery	
Battery type	Rechargeable lithium battery
Battery life	Up to 12 hours
Functions	
Laser	Yes, class II
Storage	32 GB internal memory
Functions	Thermal image + visual image
General features	
Warranty	3 years
Power supply	5 V DC / 2 A
Interface	USB Type-C
Operating temperature	-10 °C to 50 °C
Protection class	IP54
PC software	Yes
Dimensions	228 mm × 81 mm × 77.5 mm
Weight	440 g

Supplied with: AC adapter, USB cable, quick start guide

