

Handheld Thermal Camera 10 800 Pixel

SEFRAM9831B

A compact, high-performance thermal imager essential for any technician — Automatically identifying the hottest and coldest points in real time.



The SEFRAM9831B 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 120 × 90 pixels (10 800 pixels total), enhanced by an artificial intelligence-based image optimization that delivers an effective resolution of 240 × 180 pixels (43 200 pixels) for greater detail and precision.

In addition to thermal imaging, the SEFRAM9831B includes a built-in camera,

enabling picture-in-picture (PIP) mode for enhanced visual context and more effective diagnostics.

The SEFRAM9831B thermal camera helps technicians make informed decisions by accurately measuring temperature and rapidly detecting hot spots and signs of overheating.

Designed for versatility, it is ideal for a wide range of applications, including industrial maintenance, electrical inspections, building diagnostics, and HVAC system analysis.

MEASURING FUNCTIONS

- **Cold / Hot points:** 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 16 GB internal memory for storing captured images and recording thermal data.
- **6 Color palette:** 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.
- **Real image:** The camera is equipped with a real image sensor enabling access to the picture-in-picture (PIP) mode.

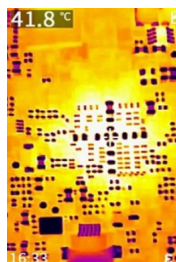
KEY FEATURES

- Automatic search and measurement of coldest and hottest points
- Resolution 120 x 90 (10 800 pixels)
- Artificial Intelligence mode 240 x 180 (43 200 pixels)
- Thermal sensitivity: 60 mK
- Real image
- 2.4-inch LCD screen
- Built-in rechargeable Li-ion battery
- Up to 8 hours continuous operation
- Image recording
- Video recording
- 16 GB built-in memory
- Integrated laser pointer
- USB-C Connector

APPLICATIONS



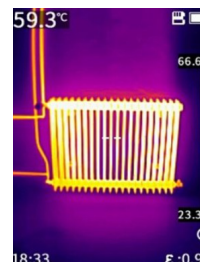
Mechanical



Electronic boards



Electrical installation



HVAC

Specifications

Model	SEFRAM9831B
Thermal sensor	
Thermal sensor	Focal plane arrays (FPA), uncooled
Infrared resolution	120 x 90 (10 800 pixels)
Artificial Intelligence (AI) mode	240 x 180 (43 200 pixels)
Detector size	12 µm
Spectral range	7.5 to 14 µm
NETD	60 mk
Field of view	50° × 38°
Focal length	2.28 mm
IFOV (mrad)	7.46
Ratio between distance and point (D:S)	130:1
Focus mode	Free Focus
Min. focusing distance	0.1 m
Display	
Display	2.4" LCD screen
Image modes	Thermal / Visual / Fusion
Color alarm	Temperature threshold
Digital camera	2 MP
Pallets	Warm White, Warm Black, Rainbow1, Rainbow2, Ironbow, Warm Red
Measurements and analysis	
Temperature range	-20 °C to 550 °C
Precision	±2 °C or ± 2 %
Measurement presets	Central point, Hot point, Cold point
Battery	
Battery type	Rechargeable lithium battery
Autonomy	8 hours continuous operation
Functions	
Laser	Yes, class II
Storage	16 GB internal memory
Functions	Thermal image + Real image
General features	
Power supply	5 V DC / 2A
Interface	USB Type-C
Operating temperature	-10 °C to 50 °C
Protection class	IP54
PC software	Yes
Dimensions	196 mm x 61.5 mm x 76 mm
Weight	355 g

Supplied with : AC adapter, USB cable, user manual



About SEFRAM INSTRUMENTS

Sefram Instruments is a French designer and manufacturer of electronic test and measurement equipment. Founded in 1947 and based in Saint-Étienne, the company provides reliable, user-friendly tools for professionals in telecommunications, electrical engineering, and industrial maintenance. Its product range includes data recorders, multimeters, electrical testers, and thermal cameras. Sefram offers comprehensive after-sales support, including technical assistance, repairs, and in-house calibration. Part of the B&K Precision organization since 2004, Sefram combines international reach with strong local expertise.

With decades of experience and a focus on innovation, Sefram continues to deliver high-performance solutions backed by expert support.



Quality management system

SEFRAM INSTRUMENTS is an ISO9001-certified company using traceable quality management practices for all processes, including product development, service and calibration.

ISO 9001 : 2015
ISO 14001 : 2015



Video library

View product presentations, demonstrations and application videos in English and French
<https://www.youtube.com/@SEFRAMINSTRUMENTS/videos>

Social networks

LinkedIn :

<https://www.linkedin.com/company/sefram-instruments>

YouTube :

<https://www.youtube.com/@SEFRAMINSTRUMENTS>

About B&K Precision

For more than 70 years, **B&K Precision** has provided reliable and value-priced test and measurement instruments worldwide. The company's headquarters in Yorba Linda, California, houses its administrative and executive functions as well as sales and marketing, design, service, and repair. European customers are most familiar with B&K through its French subsidiary, Sefram. Engineers in Asia know the brand through the B&K Precision Taiwan operation. Independent service centers in Singapore and Brazil service customers in Singapore, Malaysia, Vietnam, Indonesia, and South America, respectively.

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