

SEFRAM 9833

Thermography Camera Pocket Format

**High Performance Compact Thermography Camera for Professionals
Pocket format**

The Pocket Series is equipped with a high-resolution 256 x 192 (49,152 pixels) detector, a high-resolution 8 MP optical lens, and a 3.5" LCD touch screen. It helps you locate faults faster and more efficiently, and measure temperatures more accurately. The wide temperature range of -20 °C to 400 °C is ideal for Building Inspections, HVAC, Electrical, and Mechanical Equipment Maintenance. The 25 Hz frame rate allows for smooth operation and the Wi-Fi function allows the Pocket to share images in realtime. The Pocket Series puts a powerful thermography tool in your pocket so it's always there when you need it.

Key features :

- **Thermography** : Device detects the real-time temperature, and display it on the screen
- **Storage** : Device is equipped with memory card of 16 GB to store recorded captured snapshots, and important data.
- **Palette** : Device supports 7 palettes.
- **Fusion** : The camera can display both thermal image and real image at the same time
- **Vidéo** : The camera is able to make videos with a storage capacity of 10 hours
- **Pocket format** : The camera is compact enough to fit in your pocket

Specifications :

- Thermal resolution: 256 x 192 (49, 152 pixels),
- NETD : < 40 mK (@ 25°C, F# = 1.0)
- Accurately measure temperature from -20°C to 400 °C (-4°F to 752°F)
- Accuracy: Max. ($\pm 2^{\circ}\text{C}/3.6^{\circ}\text{F}$, $\pm 2\%$)
- Thermal, fusion, PIP, and optical modes, 8 MP optical camera
- 25 Hz image frequency
- Manual, automatic, and 1-Tap level and span
- Up to 4 hours continuous running
- High temperature alarm
- LED work light
- 1.0x to 4.0x continuous digital zoom
- Built-in 16 GB memory



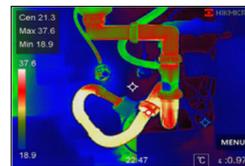
Applications :



HVAC



PCB Circuit Boards

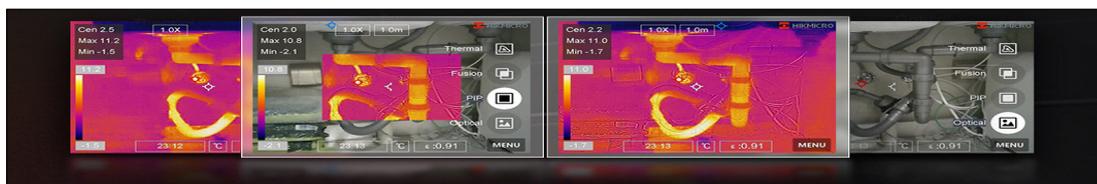


Hot water pipes verification



Electrical inspections

Image modes :



Thermal

PIP

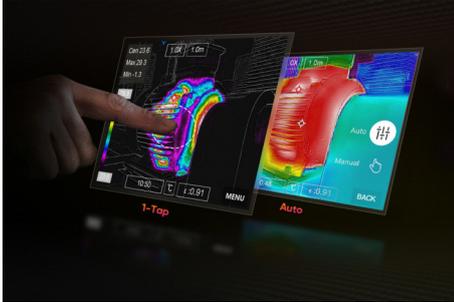
Fusion

Optical

SEFRAM9833

Sefram

Thermography Camera Pocket Format



Multiple Level & Span modes

Three level & Span modes (manual, automatic, and 1-Tap) help you instantly to improve image contrast and highlight potential problems.



Faster Troubleshooting

Built-in speaker and flash light give the operator audio and visual alerts to high temperatures. Full-screen measurement using different user presets allows to check everywhere instantly.



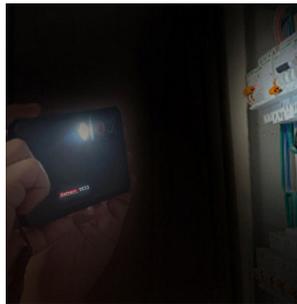
Portable pocket-sized Design

Easy to carry and hold. It fits perfectly in your pocket and tool bag.



Rugged & Durable Design

IP54 rated for protection against water and dust. Featuring 2-meter drop protection, suitable for industrial use.



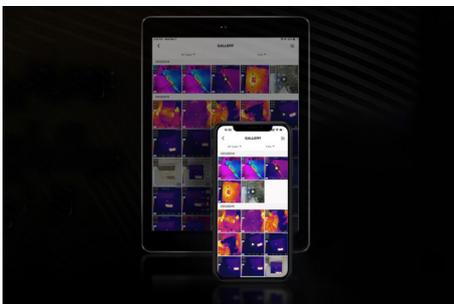
LED flashlight

The LED flashlight allows you to work safely in or dark environments.



On-Camera Recording

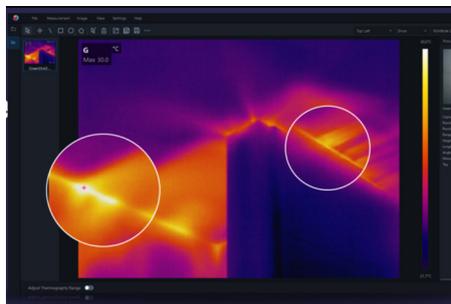
Built-in 16 GB internal memory provides onboard recording and playback features.



Mobile application

(available end of september 2022)

Connect (Wi-Fi or Hotspot) to the Sefram Viewer App to transmit pictures from the camera to a mobile phone. Analyze, share images and generate simple reports in real-time on-site.



PC software

Use the Sefram Analyzer PC software to provide customers with professional reports with images documenting problems and repairs.



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Specifications		SEFRAM9833
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
	IR Resolution	256 × 162 (49 152 pixels)
	Detector Pitch	12 μm
	Spectral Range	8 to 14 μm
	NETD	<0,04 °C (40 mK) at 25°C (77°F) ambient temperature, F#=1.0
	Field of View	50.0 °H × 37.2 °V
	Focal length	3,5 mm
	Image Frequency	25 Hz
	Focus	Fixed
	IFOV (mrad)	3,43 mrad
	Minimum Focus Distance	30 cm
Optical Module	Aperture	F 1.1
	Built-in Visual Camera	3264 × 2448 (8MP)
	Focus	Fixed
	FOV	64,6°H × 51,5 °V
Measurement and Analysis	Picture Resolution	Configurable: 2 MP, 5 MP, 8 MP
	Video Resolution	640 x 480
	Object Temperature Range	-20 °C to 400 °C (-4°F to 752°F)
	Measurement Presets	Center Spot, Hot Spot, Cold Spot, Off
	Accuracy	Max. (± 2°C/3.6°F, ± 2%), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)
	On-camera Emissivity Correction	Variable from 0.01 to 1.0 or selected from the materials list
Image display	On-Camera Reflected Temperature Compensation	Automatic, based on the inputs of the reflected temperature
	On-Camera Transmission Correction	Automatic, based on the inputs for distance and humidity
Storage	Display	640 x 480 Resolution, 3,5" LCD Touch screen
	Screen Brightness	Manuel adjustment
	Digital Zoom	1.0x to 4x continuous
	Color Palettes	7: White hot, Black hot, Rainbow, Ironbow, Red Hot, Fusion, Rain
	Images Modes	Thermal/Optical/Fusion/PIP
	PIP	Resizable and movable indrared area on the visual image
	Fusion	Thermal image with visual camera details
	Level/Span	Auto/ Manual/ 1-Tap Touch-Screen
Power System	Minimum Temp Span (Manual)	2°C (3.6°F)
	Storage Media	Built-in EMMC (16 GB)
	Image Storage Capacity	Approx 60, 000 images
	Image File Format	Radiometric.JPEG with measurement data included Thermal.THM.JPEG without measurement data included
	Text Note	Max. 200 characters
	Video Storage Capacity	Approx. 10 h
General	Video File Format	Standard MP4 non-radiometric video
	PC software	Sefram Thermal Analyzer
General	APP	Sefram Thermal viewer App
	Castscreem	UVC
	Power Supply	3.7 VDC / 2 A (via USB), charge rapide
	Power Consumption	1.92 W
	Battery type	Rechargeable Li-ion Battery
	Battery Operating Time	4 hours continuous running
	Battery Charging Time	1.5h to 94%, 2.5h to full charge
	Battery Charging System	In-imager charging, fast charging
General	AC Operation	AC operation with included power supply (100 VAC to 240 VAC, 50/60 Hz)
	Menu Languages	English, German, French, Spanish (Spain), Portuguese (Portugal), Italian, Czech, Slovak, Polish, Hungarian, Romanian, Dutch, Danish, Norwegian, Finnish, Swedish, Russian, Turkish, Japanese, Korean, Chinese (Traditional)

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Specifications	SEFRAM9833	
General	Working Temperature Range	-10°C to 50°C (14°F to 122°F)
	Storage Temperature Range	-20°C to 60°C (-4°F to 140°F)
	Wi-Fi	802.11 b/g/n (2.4 GHz)
	Bluetooth	Bluetooth 4.2
	USB interface	USB 2.0, Type-C
	LED Light (torch)	Yes
	Microphone	Yes
	Buzzer	Yes, audible alarm of above temperature threshold
	Carrying pouch	Yes
	Drop Test Height	2 m
	Protection Level	IP54 (protected against dust, limited ingress, protection against water spray from all directions)
	Warranty	3 years
	Safety	IEC 61010-1 : Overvoltage Category II, Pollution Degree 2
	Electromagnetic Compatibility	EN55032:2015 + A11:2020 EN50130-4: 2011+ A1:2014 EN61000-3-3:2013
	RoHS compliant	Yes
	Vibration	0.03 g2/Hz (3.8g), 2.5g IEC 60068-2-6
	Shock	25g, IEC 68-2-29
	Relative Humidity	< 95 % non-condensing
	Dimensions	138.5 mm x 85.2 mm x 23.6 mm
	Weight	Approx. 218 g
Tripod Mounting	1/4"-20 UNC	

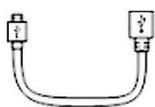
Supplied with :



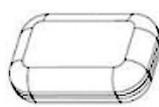
Quick Start Guide (x1)



Power Supply (x1)



USB Cable (x1)

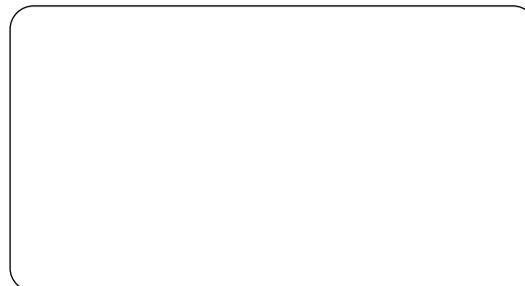


Carrying Pouch (x1)



Wrist Strap (x1)

For assistance and ordering



SEFRAM9833 A 00 - Specifications can be updated without notice



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