# 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
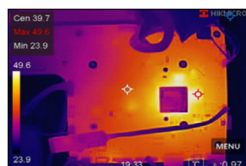
## ■ Specifications :

- 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. (± 2°C/3.6°F, ± 2%)
- Thermal, fusion, PIP, and opticale 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 :
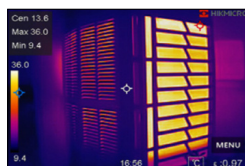


HVAC



PCB Circuit Boards



Hot water pipes verification



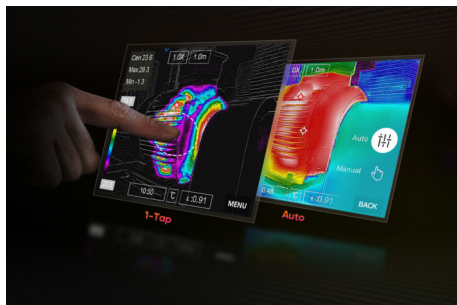Electrical inspections

## ■ Image modes :



Thermal            PIP            Fusion            Optical

**Sefram**

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### Multiple Level & Span modes
Three level & Span modes (manual, automatic, and 1-Tap) help you instantly 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 checks everywhere instantly.
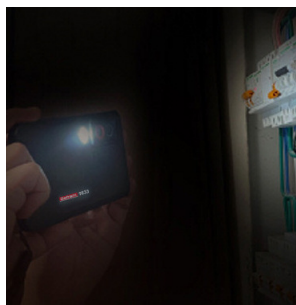


### Portable pocket-sized Design
Easy to carry and hold. It fits perfectly in your pocket and tool bag.



### Rugged & Durable Design
IP54 rated for protection against water and dust. Featuring 2-meter drop protection, suitable for industrial use.
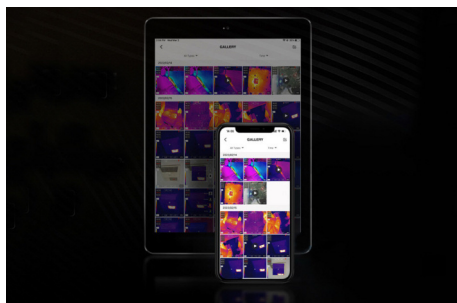


### LED flashlight
The LED flashlight allows you to work safely in dim or dark environments



### On-Camera Recording
Built-in 16 GB internal memory provides onboard recording and playback.



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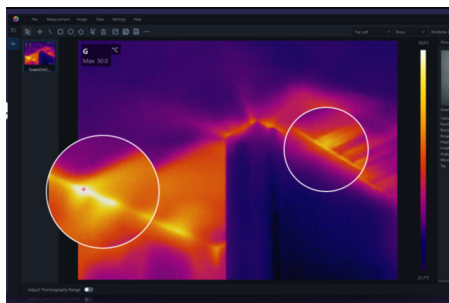


### PC software
Use the Sefram Analyzer PC software to provide customers with professional reports with images documenting problems and repairs.

CE

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| Specifications | | SEFRAM9832 |
|---|---|---|
| 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 |
| | Aperture | F 1.1 |
| Optical Module | Built-in Visual Camera | 3264 × 2448 ( 8MP) |
| | Focus | Fixed |
| | FOV | 64,6°H x 51,5 °V |
| | Picture Resolution | Configurable: 2 MP, 5 MP, 8 MP |
| | Video Resolution | 640 x 480 |
| Measurement and Analysis | 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 |
| | 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 humidiity |
| Image display | 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 |
| | Minimum Temp Span (Manual) | 2°C (3.6°F) |
| Storage | Storage Media | Built-in EMMC (16 GB) |
| | Image Storage Capacity | Approx 60, 000 images |
| | Image File Format | Radiometeric.JEPG with measurement data included Thermal.THM.JPEG without measurement data included |
| | Text Note | Max. 200 characters |
| | Video Storage Capacity | Approx. 10 h |
| | Video Filte Format | Standard MP4 non-radiometric video |
| Power System | PC software | Sefram Thermal Analyzer |
| | 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 |
| | AC Operation | AC operation with included power supply (100 VAC to 240 VAC, 50/60 Hz) |
| General | Menu Language | 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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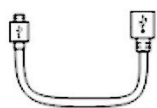| Spécifications techniques | | SEFRAM9832 |
|---|---|---|
| General | Working Temperature Range | -10°C to 50°C (14°F to 122°F) |
| | Storage Temperature Range | -20°C to 60°C (-4°F to 140°F) |
| | Wi-Fi | 802.11 b/g/n (2.4 GHz) |
| | Bluetooth | Bluetooth 4.2 |
| | USB interface | USB 2.0, Type-C |
| | 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, portection against water spray from 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) | Calibration certificate (x1) |
|---|---|---|---|---|---|

**For assistance and ordering**

SEFRAM9833 A 00 - Specifications can be updated without notice

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