

FEATURES

- IR resolution: 80X80
- 3.5" 640x480 touch screen
- Field of View: 21° X 21°
- Spatial resolution: 4.53mrad
- Thermal sensitivity/NETD: <math>< 0.05^{\circ}\text{C}</math> @ +30°C (+87°F) / 50mK
- Image frequency: 50HZ
- Auto Fusion mode
- Wi-Fi connectivity
- IP54 rating
- 2M visible digital camera

RS PRO Thermal Imager

RS Stock No.:

2309293,2309412,2309413,2309414,2309415,2309417



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

The Thermal Imager is handheld imaging camera used for predictive maintenance, equipment troubleshooting and verification
Focus the len to the object, then the thermal and visual images are displayed on the LCD and can be saved to a Micro SD memory card
Transferring images to a PC is accomplished by removing the SD memory card and connecting it to a PC through the included card reader, or transfer the images and video stream to the smart device with “ThermoView” apps installed
In addition to the features mentioned above, the thermal imager provide video recording and play back

General Specifications

Model Number	RS-983
Temperature Measurement Range	Low range:-20°C to +150°C(-4°F to +302°F) High range:0°C to +650°C(+32 to
Accuracy	± 2.0 (±5)6°F)
Detector Resolution	80x80
Display Resolution	640x480
Display Type	LCD,
Display Size	3.5 in
Minimum Focus Distance	0.5m (1.6 ft.)
Colour Alarms	
Best Temperature Measurement Accuracy	±2.0°C
Data Interfaces	USB-Type C / WiFi
Video File Format	JPEG, HIR
Software Details	PC & APP software
Memory Storage	8Gbytes Micro SD card or 3.4GB internal EMMC
Colour palettes	Iron, Rainbow,Grey, Grey Inverted, Brown, Blue-red, Hot-cold, Feather, Above alarm, Below alarm, Zone alarm, vision zone
Automatic shutdown	Yes
Calibration Available	
Applications	

Supported Languages	English, Chinese, French, German, Spanish, Japanese, Korean, Portuguese, Italian
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Image and Optical Specifications

Field of view (FOV) / Minimum Focus Distance	21° X 21° / 0.5m
Spatial Resolution (IFOV)	4.53mrad
IR Resolution	80X80 pixels
Thermal Sensitivity /NETD	<50.0mK
Image Frequency / Frame Rate	50Hz
Image Mode	IR / Visual
Distance to Spot Ratio	220:1
Focus Type	Manual
Zoom	Yes
Focal Length	9MM
Focal Plane Array (FPA)	8–14 µm Spectral range

Electrical Specifications

Power Source	Adapter
Battery Type	Li-ion
Battery Life	
Battery Charging Time	4 hours

Mechanical Specifications

Dimensions	228mm x 100mm x 90mm
Width	90mm
Length	228mm
Height	100mm
Weight	520g
Housing Material	PC – ABS

Operation Environment Specifications

Operating Temperature Range -15~50°C (5°F~122°F)

Storage Temperature Range 40°C~70°C (-40°F~158°F)

Drop Test 2m

Shock Resistance 25g (IEC60068-2-29)

Vibration Resistance 2g,(IEC60068-2-6)

Humidity (Operating and Storage)

Protection Category

IP Rating IP54

Approvals

Compliance/Certifications CE

Declarations

Hazardous Area Certification