

## SP Thermoview 8500

# Sensor Partners

*Sensors for the future*



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Distributor:

**Sensor  
Partners**

**Thermoview  
8500**

## SP Thermoview 8500

### The new standard for professional infrared cameras

High performance thermal camera provided with the latest technology some of them never used in industry before, SP Thermoview 8500 is another ingenious solution Sensor Partners provides for professional IR thermographers around the world. In a rugged, compact and durable magnesium casing, SP Thermoview 8500 offers a wide assortment of unexpected features that enable thermographers to work with unprecedented efficiency and productivity. Exceeding all the existing IR radiometric cameras, it sets another new standard of the first-class products for the whole industry.



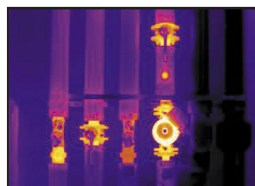
### Features and advantages

#### Latest-generation high-performance IR detector (640 x 480 pixels, 25 µm)

Utilizing the latest generation high-performance IR detector with over 307200 pixels (25 µm x 25 µm each), the camera offers extraordinary high resolution, high sensitivity and high accuracy presented by real-time, noise-free 16-bit thermal images. This camera has 230400 more pixels compared to a 320x240 pixels camera!

#### Crisp thermal and visual imaging and more

With a 640 x 480 IR camera and a color 1280 x 1024 visual camera incorporated in the same unit, operators can simply locate the scene to be inspected, snap the shutter and then have both high-resolution thermal and visual images taken and saved together in a single file with one name. The integrated laser locator also helps operators accurately associate a hot spot shown in thermal images with the real physical target. Documenting infrared inspections gets much faster and more certain.



#### High thermal sensitivity and precise temperature measurement

Offering an unmatched high thermal sensitivity of 0.06°C and high temperature measurement accuracy of ±1°C or ±1%, the camera enables operators to pinpoint the smallest temperature difference quickly and clearly.

#### Intelligent onboard analysis

Auto indication of hot spot and the image center  
One cursor automatically indicates the position and temperature of the hottest or coldest spot within the image.  
Another cursor always stays at the image center to show its temperature and provides a reference for inspection analysis.

#### Audible and visible alarms

Audio alarm will automatically trigger for a spot with temperature exceeding the value preset by operators. For power insufficiency, both audio and video alarm will activate.

#### Multiple measurement modes

Simultaneous ten-spot & ten-area analysis, line profile, isotherm analysis and x1- x8 continuous electronic zoom function expedite comprehensive probe for and pinpointing of potential problems.

#### Auto memory of customized setting & Easy resumption of default setting

Your preferred camera settings will remain after re-switching on. Pressing only one button will resume all the default settings of the camera.

### Technical specifications

#### Thermal

Detector type:	Uncooled FPA microbolometer (640 x 480 pixels, 25 µm)
Spectral Range:	8-14 µm
Thermal Sensitivity:	0.06°C at 30°C (frame averaging)
Field of View/ Focus:	22° x 16° / 35 mm
Minimum Focus:	15 cm
Focus:	Manual and automatic
Electronic Zoom:	x1 to x8 continuous zoom

#### Visual

Built-in Digital Video:	CMOS Sensor, 1280 x 1024 pixels, True colors
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External Display:	5.7" high resolution color LCD (TFT), 640 x 480 pixels touch screen
Viewfinder:	0.6" built-in high resolution color OLED, 640 x 480 pixels
Video Output:	PAL/ NTSC

Temperature Range:	-20°C ~ +800°C (up to +2000°C optional)
Accuracy:	±2°C or ±1°C/±1% @ first range
Measurement Modes:	Spot / manual (up to 10 moveable), spot / automatic placement at max, area (up to 10 moveable) displaying either: max, min, or average, isotherm, line profile, auto hot spot, auto alarm

Emissivity Correction:	Variable from 0.01 to 1.00 (in 0.01 increment)
Measurement Features:	Automatic correction based on distance, relative humidity, atmospheric transmission and external optics

Optics Transmission Correction:	Auto, based on signals from sensors
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Storage type:	Removable 4 GB (8, 16, and 32GB optional)
File Format:	SD card and internal memory JPEG (an individual file consists of infrared image, visual image and voice annotation if any) Voice Annotation: Up to 60 seconds per file

Field of View/ Focus:	19.5° x 35.8° / 35mm default lens Optional: 11.5° x 8.6° / 80mm Wide-angle lens 45.7° x 35.1° 19mm
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Classification Type:	Class 2 semiconductor laser
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Battery Type:	Rechargeable Li-ion battery, field-replaceable
Charging System:	In camera or in battery charger
Battery Operating Time:	Over 2 hours continuous operation
External Power Operation:	AC adapter 110/ 220 VAC, 50/60Hz

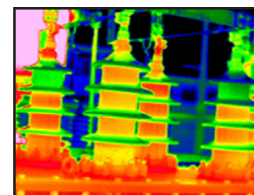
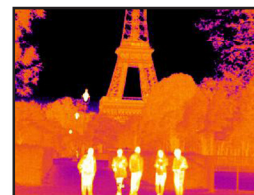
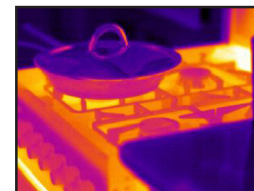
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-20°C ~ +60°C
Humidity:	Operating and storing 10% to 95%, non-condensing
Encapsulation:	IP54 IEC 529 housing
Shock:	Operational: 25G, IEC 68-2-29
Vibration:	Operational: 2G, IEC 68-2-6

USB 2.0/ RS232:	Image (thermal and visual), measurement and voice transfer to PC
USB OTG:	Connect and control multiple USB peripherals

WiFi	802.11 a/b/g
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Touch Screen:	Present and receive operators commands given by touch
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Casing:	Magnesium
Weight:	1.3 kg (including battery)
Size:	186 mm x 106mm x 83mm (standard model)
Tripod Mounting:	1/4"- 20



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