

## SP Thermoview 8400 S

# Sensor Partners

*Sensors for the future*



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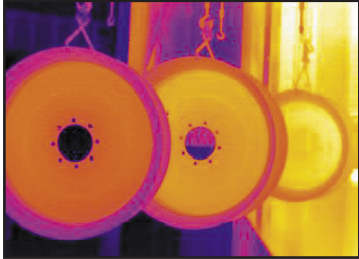
**Sensor  
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**Thermoview  
8400 S**

# SP Thermoview 8400 S

## The new standard for professional infrared cameras

Improved on the most advanced IR package available now, integrating multiple technologies never used in the industry, SP Thermoview 8400 S is another ingenious solution Sensor Partners provides for professional IR thermographers around the world. In a rugged, compact and durable magnalium casing, SP Thermoview 8400 S 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

### New-generation high-performance IR detector (384 x 288 pixels, 35 μm)

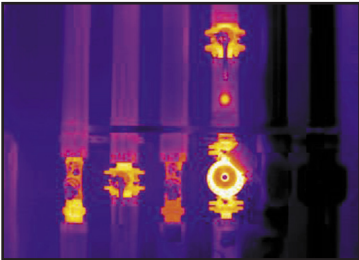
Utilizing the latest generation high-performance IR detector with over 110000 pixels (35 μm x 35 μm each), the camera offers extraordinary high resolution, high sensitivity and high accuracy presented by real-time, noise-free 16-bit thermal images. With option to blend visual and IR image.

### Crisp thermal and visual imaging and more

With a 384 x 288 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 0.04°C and high temperature measurement accuracy of ±1°C or ±1%, the camera enables operators to pinpoint the smallest temperature difference quickly and clearly. Even a short accidental view to the sun is no problem.



### Intelligent onboard analysis

#### Auto indication of hot spot and the image center

One cursor automatically indicates the position and temperature of the hottest 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- x10 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.

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## Technical specifications

### Thermal

Detector type:	Uncooled FPA microbolometer (384 x 288 pixels, 35 μm)
Spectral Range:	8-14 μm
Thermal Sensitivity:	0.04°C at 30°C (frame averaging)
Field of View/ Focus:	22° x 16°/ 35 mm, IFOV: 1.00 mrad
Minimum Focus:	15 cm
Focus:	Manual/ Automatic
Electronic Zoom:	x1 to x10 continuous zoom

### Visual

Built-in Digital Video:	CMOS Sensor, 1280 x 1024 pixels, 215 colors
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External Display:	3.5" high resolution color LCD (TFT), 640 x 480 pixels
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Viewfinder:	0.6" built-in high resolution color OLED, 640 x 480 pixels
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Video Output:	VGA/PAL/ NTSC
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Temperature Range:	-20°C- +600°C (up to +2000°C optional)
Accuracy:	±1°C or ±1% of reading
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 / Auto- and manual Level-Span option.
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Emissivity Correction:	Variable from 0.01 to 1.00 (area selectable)
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 SD card, at least 4GB
File Format:	JPEG (an individual file consists of infrared image, visual image and voice annotation if any) Voice Annotation: Up to 30 seconds per file (more than 30 seconds optional).

Optional lenses:	Tele lens : 7.7° x 5.8°/ 100mm Wide angle lens : 45.6° x 35°/ 16mm
Classification Type:	Class 2 semiconductor laser

Battery Type:	Rechargeable Li-ion Camcorder battery, field-replaceable
Charging System:	In camera or in battery charger
Battery Operating Time:	Over 2.5 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

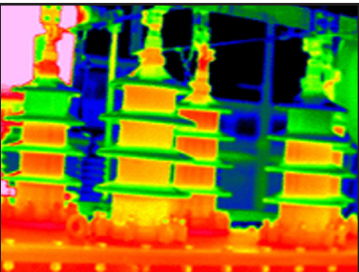
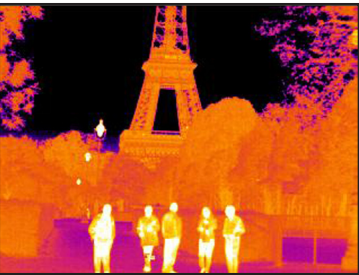
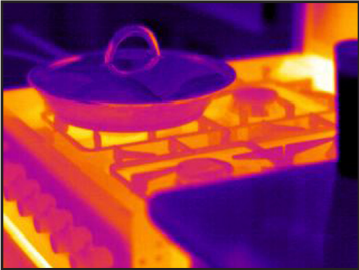
USB 2.0/ RS232:	Image (thermal and visual), measurement and voice transfer to PC
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USB OTG:	Connect and control multiple USB peripherals
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Touch Screen:	Present and receive operators commands given by touch
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Auto Speech Recognition:	Automatically recognize and react to operators voice commands
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Casing:	Magnalium
Weight:	1.1 kg (including battery)
Size:	186 mm x 106mm x 83mm (standard model)
Tripod Mounting:	1/4"- 20



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