WAHL HSI3000 THERMAL IMAGERS

Building Inspections, Maintenance, Energy Savings, Affordable and Easy!

The most powerful and affordable, full specification thermal imaging cameras on the market today!

- Proprietary reporting software (included) documents all of your work effortlessly
- Fully Radiometric capture detailed, high quality images for LIVE analysis of any of 19,200 pixels in the entire image
- Dual cursors, moveable anywhere on the image, can be selected to automatically identify hot & cold spots
- Advanced high resolution 160 x 120 detector shows image details clearly and precisely on the large, bright, 3-½" screen
- Adjustable Emissivity for maximum accuracy
- · Dual Temperature + Differential Measurement
- Store up to 20,000 images on supplied 2 GB SD Card
- Easily download images directly to PC
- Rugged, lightweight, and comfortable to use for any application
- · Comes complete in rugged waterproof carrying case

Why buy a Wahl HSI3000 thermal imager?

Thermal imaging is the best non-invasive, non-destructive method for diagnostics of potential problems without damage to property, danger to person, or shut down of process.

Wahl Heat Spy® HSI3000 thermal imaging cameras give you the most accurate, clear, high resolution pictures, with the ability to modify and analyze images in a complete detailed report, at an affordable price.

Backed by Palmer Wahl's Service, Warranty, Training, and Guarantee!

▶ Trigger activated laser pointer

▶ One hand operation with intuitive, suretouch keys always in reach

TWO YEAR





205 Westwood Ave Long Branch, NJ 07740 1-877-742-TEST (8378) Fax: (732) 222-7088 salesteam@Tequipment.NET



INSTRUMENTATION GROUP

Wahl Thermal Imager HSI3000 Series High Performance Portable Thermal Imaging Cameras

The most powerful and affordable, full specification thermal imaging cameras on the market today!

Fully Radiometric - capture detailed, high quality images for LIVE on screen analysis. Dual cursors allow you to select and measure two temperatures of any of 19,200 pixels in the entire image live on the screen!

• Multi-Purpose HSI3000 - Operates in the temperature range of 14° to 482°F (-10° to 250°C)

- Mid-Temperature HSI3001 with the addition or removal of a lens filter, and a simple change of a menu setting, switch between temperature range of 392° to 932°F (200° to 500°C) or 14° to 482°F (-10° to 250°C)
- High-Temperature HSI3002 with the addition or removal of a lens filter, and a simple change of a menu setting, switch between temperature range of 392° to 1652°F (200° to 900°C) or 14° to 482°F (-10° to 250°C)
- Long Distance HSI3003 Locate and detect temperature measurements of small objects over long distances, with a narrow angle 9.1° x 6.8° lens, in the range of 32° to 482°F (0° to 250°C)

Signo shown with

HSI3000 shown with
OPTIONAL Magnifying
Eye Piece/Sun Shield
improves visibility of the
screen, and protects
against glare in bright
sunlight.
Also prevents display
from illuminating users

Buy it, you'll like it; GUARANTEED!

face for law enforcement

USA only

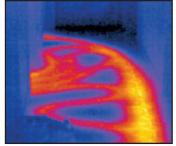
applications.

Applications for all Industries

Asphalt
Automation & Control
Automotive
Building Envelope
Condition Monitoring
Electrical
Energy Audits
Law Enforcement

Manufacturing
Marine Surveying
Mechanical
Medical / Veterinary
Metal & Glass
Petro Chemical
Predictive Maintenance
Product Development

Process Monitoring
Pulp & Paper
Quality Control
R & D Testing
Roofing
Steel
Utilities
Weatherization



Underfloor heating system



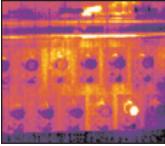
model to fit

your needs

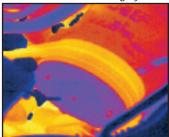
Overheat in process monitoring



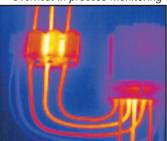
Heat loss caused by poor insulation



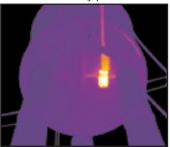
Overheat in process machinery



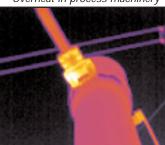
Improper tension in drive belt



Overheat in electrical box



Overheat in power transformer



Overheat in transmission lines



Calibration Services Available

Model Number MISSIO00 MISSIO01 MISSIO02 MISSIO02 MISSIO03 MISSIO03 MISSIO03 MISSIO03 MISSIO04 MISSIO04 MISSIO06 MISSIO07 MISSIO06 MISSIO07 MISSION		WAHL Heat Sp	y [®] HSI3000 SERIES S	SPECIFICATIONS	
Measurement Range Measurement Range Measurement Range Measurement Range Measurement Range With Filter Fled of View 20° x 15° 20° x 15° 20° x 15° 20° x 15° 9.1° x 6.8° foot 150 cm 20° foot 15	Model Number	HSI3000	HSI3001	HSI3002	HSI3003
Measurement Range (10" to 250°C) (MULTI-PURPOSE	MID TEMPERATURE	HIGH TEMPERATURE	LONG DISTANCE
### Filed of View 20" x 15" 20" x 15" 20" x 15" 9.1" x 6.8" Field of View 20" x 15" 20" x 15" 9.1" x 6.8" Focus	Measurement Range		1	1	
Minimum Focus Minimum Focus 11.81* (30cm) 19.68* (50cm) (100cm for Raddometry) Thermal Sensitivity 0.10°C @ 23°C ambient and 25°C Scene Temperature 25°C Scene Temperature 0.70°C @ 23°C ambient and 25°C Scene Temperature 0.70°C @ 23°C ambient and 25°C Scene Temperature 10°C @ 23°C ambient and 50°C Scene Temperature		(No Filter)			(No Filter)
Minimum Focus 11.81" (30cm) 19.68" (50cm) 19.68" (50cm) 19.68" (50cm) (120cm for Radiometry)	Field of View	20° x 15°	20° x 15°	20° x 15°	9.1° x 6.8°
Spectral Response Sum to 14 µm (120cm for Radiometry)	Focus	Manual Focus with 2X Digital Zoom			
Thermal Sensitivity Thermal Sensitivity Thermal Sensitivity With Filter (No Filter) (No Filter	Minimum Focus	11.81" (30cm)	19.68" (50cm)	19.68" (50cm)	
Thermal Sensitivity with Filter Thermal Sensitivity with Filter Rapid 9 Hz Frame Rate Rapid 9 Hz Frame Rate Advanced high resolution 160 x 120 detector with 19,200 pixels Up to 20,000 images on supplied 2 GB SD Card (or MMC) Accuracy The greater of + 2°C or + 2% of reading in °C	Spectral Response	8 µm to 14 µm			
Intermal Sensitivity with Filter Ambient and 50°C Scene Temperature Scene Temperature	Thermal Sensitivity	1			0.10°C @ 23°C ambient and 25°C Scene Temperature
Detector Advanced high resolution 160 x 120 detector with 19,200 pixels		(No Filter)	ambient and 50°C	ambient and 50°C	(No Filter)
Image Storage Accuracy The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or The 20°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 2% of reading in °C The greater of ± 2°C or ± 5% of reading in °C The greater of ± 2°C or ± 5% of reading in °C The greater of ± 2°C or ± 5% of reading in °C The greater of ± 2°C or ± 5% of reading in °C The greater of ± 2°C or The person of the text of the person of the	Frame Rate	Rapid 9 Hz Frame Rate			
Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy With Filter (No Filter) The greater of ± 2°C or ± 2% of reading in °C Accuracy With Filter (No Filter) The greater of ± 15°C or ± 2% of reading in °C Accuracy With Filter (No Filter) The greater of ± 15°C or ± 5% of reading in °C Display 3-%* Color LCD and LED Backlight with high resolution images, show images clearly and precisely Color Palettes 4 Color Palettes: Rainbow, Ironbow, High Contrast, and Grayscale Laser Pointer Radiometry Dual temperature measurement cursors, moveable anywhere in the image, with delta temperature measurement Emissivity Correction User selectable 0.2 to 1.0 in steps of 0.01 with reflected ambient temperature compensation. Ambient Operating Range 4" to 158" (-15" to +45"C) 1P Rating IP42 MIL SPECS Vibration: MIL-PRF-28800F Class 2 Section 4.5.5.3.1 Shock: MIL-PRF-28800F Class 2 Section 4.5.5.4.1 Humidity 10% to 90% non-condensing Field Replaceable, High Capacity, Rechargeable Lithium Batteries with up to 7 hrs continuous operation, AC Adapter included Interfaces USB Type B Housing Impact Resistant Plastic with Protective Rubber Boot and Wrist Strap Dimensions Weight (with Battery) Approx. 1.65 lbs (0.75kg) Hand Held & Tripod Mounting Included Accessories Optional Accessories Optional Accessories Optional Accessories Optional Accessories Optional Folding Sun Shade for the HSI3000, HSI3001 and HSI3002, (included on the HSI3003)	Detector	Advanced high resolution 160 x 120 detector with 19,200 pixels			
# 2% of reading in "C	Image Storage	Up to 20,000 images on supplied 2 GB SD Card (or MMC)			
Display 3-½" Color LCD and LED Backlight with high resolution images, show images clearly and precisely Color Palettes 4 Color Palettes: A Color Palettes: Rainbow, Ironbow, High Contrast, and Grayscale Laser Pointer Trigger activated Class II Laser aligned with center of display aiming circle Radiometry Dual temperature measurement cursors, moveable anywhere in the image, with delta temperature measurement Emissivity Correction User selectable 0.2 to 1.0 in steps of 0.01 with reflected ambient temperature compensation. Ambient Operating Range 5° to 113°F (-15° to +45°C) Storage Range -4° to 158°F (-20° to +70°C) IP Rating IP42 MIL SPECS Vibration: MIL-PRF-28800F Class 2 Section 4.5.5.3.1 Shock: MIL-PRF-28800F Class 2 Section 4.5.5.4.1 Humidity 10% to 90% non-condensing Power Field Replaceable, High Capacity, Rechargeable Lithium Batteries with up to 7 hrs continuous operation, AC Adapter included Interfaces USB Type B Housing Impact Resistant Plastic with Protective Rubber Boot and Wrist Strap Dimensions 9.05 x 4.72 x 4.33 inches (230mm x 120mm x 110mm) Weight (with Battery) Approx. 1.65 lbs (0.75kg) approx. 1.76 lbs (0.8kg) Mounting Hand Held & Tripod Mounting Located Accessories Desktop Charger, Car Charger, Magnifying Eye Piece/Sun Shade and additional Battery. Optional Folding Sun Shade for the HSI3000, HSI3001 and HSI3002 (included on the HSI3003)	Accuracy				
Color Palettes 4 Color Palettes: Rainbow, Ironbow, High Contrast, and Grayscale Laser Pointer Radiometry Dual temperature measurement cursors, moveable anywhere in the image, with delta temperature measurement Emissivity Correction User selectable 0.2 to 1.0 in steps of 0.01 with reflected ambient temperature compensation. Ambient Operating Range 5° to 113°F (-15° to +45°C) Storage Range -4° to 158°F (-20° to +70°C) IP Rating IP42 MIL SPECS Vibration: MIL-PRF-28800F Class 2 Section 4.5.5.3.1 Shock: MIL-PRF-28800F Class 2 Section 4.5.5.4.1 Humidity 10% to 90% non-condensing Power Field Replaceable, High Capacity, Rechargeable Lithium Batteries with up to 7 hrs continuous operation, AC Adapter included Interfaces USB Type B Housing Impact Resistant Plastic with Protective Rubber Boot and Wrist Strap Dimensions 9.05 x 4.72 x 4.33 inches (230mm x 120mm x 110mm) (230mm x 120mm x 130mm) Weight (with Battery) Accessories Optional Accessories Accessories 4 Color Palettes: Rainbow, Ironbow, High Contrast, and Grayscale Trigger activated Class II Laser aligned with center of display aiming circle 10.0 To 11.0 the image, with delta temperature measurement with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with delta temperature compensation. 10.0 To 11.0 in the image, with d		(No Filter)			(No Filter)
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Radiometry Dual temperature measurement cursors, moveable anywhere in the image, with delta temperature measurement Emissivity Correction User selectable 0.2 to 1.0 in steps of 0.01 with reflected ambient temperature compensation. Ambient Operating Range 5° to 113°F (-15° to +45°C) Storage Range -4° to 158°F (-20° to +70°C) IP Rating IP42 MIL SPECS Vibration: MIL-PRF-28800F Class 2 Section 4.5.5.3.1 Shock: MIL-PRF-28800F Class 2 Section 4.5.5.4.1 Humidity 10% to 90% non-condensing Field Replaceable, High Capacity, Rechargeable Lithium Batteries with up to 7 hrs continuous operation, AC Adapter included Interfaces USB Type B Housing Impact Resistant Plastic with Protective Rubber Boot and Wrist Strap Dimensions 9.05 x 4.72 x 4.33 inches (230mm x 120mm x 110mm) (230mm x 120mm x 135mm) Weight (with Battery) Approx. 1.65 lbs (0.75kg) ### Mounting Hand Held & Tripod Mounting Easy Report & Report Writer Software, Rubber Boot, Carrying Case, Wrist Strap, Rechargeable Battery, AC Adapter, User Manuand Image Analysis Software CD, USB Cable, SD Card, and SD Card Reader. HSI3003 includes Folding Sun Shade. Optional Accessories Desktop Charger, Car Charger, Magnifying Eye Piece/Sun Shade and additional Battery. Optional Folding Sun Shade for the HSI3000, HSI3001 and HSI3002. (included on the HSI3003)	Color Palettes	4 Color Palettes: Rainbow, Ironbow, High Contrast, and Grayscale			
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Storage Range IP Rating IP Rati	Emissivity Correction	User selectable 0.2 to 1.0 in steps of 0.01 with reflected ambient temperature compensation.			
IP Rating MIL SPECS Vibration: MIL-PRF-28800F Class 2 Section 4.5.5.3.1 Shock: MIL-PRF-28800F Class 2 Section 4.5.5.4.1 Humidity 10% to 90% non-condensing Power Field Replaceable, High Capacity, Rechargeable Lithium Batteries with up to 7 hrs continuous operation, AC Adapter included Interfaces USB Type B Housing Impact Resistant Plastic with Protective Rubber Boot and Wrist Strap Dimensions 9.05 x 4.72 x 4.33 inches (230mm x 120mm x 110mm) (230mm x 120mm x 110mm) Weight (with Battery) Approx. 1.65 lbs (0.75kg) Phand Held & Tripod Mounting Included Accessories Optional Accessories Optional Accessories Desktop Charger, Car Charger, Magnifying Eye Piece/Sun Shade and additional Battery, Optional Folding Sun Shade for the HSI3000, HSI3001 and HSI3002. (included on the HSI3003)	Ambient Operating Range	5° to 113°F (-15° to +45°C)			
MIL SPECS Vibration: MIL-PRF-28800F Class 2 Section 4.5.5.3.1 Shock: MIL-PRF-28800F Class 2 Section 4.5.5.4.1 Humidity 10% to 90% non-condensing Power Field Replaceable, High Capacity, Rechargeable Lithium Batteries with up to 7 hrs continuous operation, AC Adapter included Interfaces USB Type B Housing Impact Resistant Plastic with Protective Rubber Boot and Wrist Strap 9.05 x 4.72 x 4.33 inches (230mm x 120mm x 110mm) (230mm x 120mm x 135mm) Weight (with Battery) Approx. 1.65 lbs (0.75kg) Included Accessories Accessories Optional Optional Optional Accessories Vibration: MIL-PRF-28800F Class 2 Section 4.5.5.4.1 10% to 90% non-condensing USB Type B 9.05 x 4.72 x 5.31 inches (230mm x 120mm x 135mm) 9.05 x 4.72 x 5.31 inches (230mm x 120mm x 135mm) 9.05 x 4.72 x 5.31 inches (230mm x 120mm x 135mm) 4.05 lbs (0.75kg) Approx. 1.76 lbs (0.8kg) Accessories Desktop Charger, & Report Writer Software, Rubber Boot, Carrying Case, Wrist Strap, Rechargeable Battery, AC Adapter, User Manual Accessories Desktop Charger, Car Charger, Magnifying Eye Piece/Sun Shade and additional Battery. Optional Folding Sun Shade for the HSI3000, HSI3001 and HSI3002. (included on the HSI3003)	Storage Range	-4° to 158°F (-20° to +70°C)			
Humidity Power Field Replaceable, High Capacity, Rechargeable Lithium Batteries with up to 7 hrs continuous operation, AC Adapter included USB Type B Housing Impact Resistant Plastic with Protective Rubber Boot and Wrist Strap Dimensions (230mm x 120mm x 110mm) (9.05 x 4.72 x 4.33 inches (230mm x 120mm x 135mm) Weight (with Battery) approx. 1.65 lbs (0.75kg) approx. 1.76 lbs (0.8kg) Mounting Hand Held & Tripod Mounting Included Accessories and Image Analysis Software CD, USB Cable, SD Card, and SD Card Reader. HSI3003 includes Folding Sun Shade. Optional Accessories Optional Folding Sun Shade for the HSI3000, HSI3001 and HSI3002. (included on the HSI3003)	IP Rating	IP42			
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Interfaces USB Type B	Humidity	10% to 90% non-condensing			
Housing Impact Resistant Plastic with Protective Rubber Boot and Wrist Strap 9.05 x 4.72 x 4.33 inches (230mm x 120mm x 110mm) 9.05 x 4.72 x 5.31 inches (230mm x 120mm x 110mm) 4.05 lbs (0.75kg) Weight (with Battery) approx. 1.65 lbs (0.75kg) approx. 1.76 lbs (0.8kg) Mounting Hand Held & Tripod Mounting Included Accessories Easy Report & Report Writer Software, Rubber Boot, Carrying Case, Wrist Strap, Rechargeable Battery, AC Adapter, User Manu and Image Analysis Software CD, USB Cable, SD Card, and SD Card Reader. HSI3003 includes Folding Sun Shade. Optional Accessories Optional Folding Sun Shade for the HSI3000, HSI3001 and HSI3002. (included on the HSI3003)	Power	Field Replaceable, High Capacity, Rechargeable Lithium Batteries with up to 7 hrs continuous operation, AC Adapter included			
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Mounting Hand Held & Tripod Mounting Included Accessories Easy Report & Report Writer Software, Rubber Boot, Carrying Case, Wrist Strap, Rechargeable Battery, AC Adapter, User Manu and Image Analysis Software CD, USB Cable, SD Card, and SD Card Reader. HSI3003 includes Folding Sun Shade. Optional Accessories Desktop Charger, Car Charger, Magnifying Eye Piece/Sun Shade and additional Battery. Optional Folding Sun Shade for the HSI3000, HSI3001 and HSI3002. (included on the HSI3003)	Dimensions				
Included Accessories Easy Report & Report Writer Software, Rubber Boot, Carrying Case, Wrist Strap, Rechargeable Battery, AC Adapter, User Manu and Image Analysis Software CD, USB Cable, SD Card, and SD Card Reader. HSI3003 includes Folding Sun Shade. Optional Accessories Desktop Charger, Car Charger, Magnifying Eye Piece/Sun Shade and additional Battery. Optional Folding Sun Shade for the HSI3000, HSI3001 and HSI3002. (included on the HSI3003)	Weight (with Battery)		approx. 1.65 lbs (0.75kg)		approx. 1.76 lbs (0.8kg)
Accessories and Image Analysis Software CD, USB Cable, SD Card, and SD Card Reader. HSI3003 includes Folding Sun Shade. Optional Accessories Desktop Charger, Car Charger, Magnifying Eye Piece/Sun Shade and additional Battery. Optional Folding Sun Shade for the HSI3000, HSI3001 and HSI3002. (included on the HSI3003)	Mounting		Hand Held & Ti	ripod Mounting	
Accessories Optional Folding Sun Shade for the HSI3000, HSI3001 and HSI3002. (included on the HSI3003)					
Optional Frame Rate Optional 30Hz Frame Rate - add "Z" to end of part number: HSI3001Z (USA only)	•				
	Optional Frame Rate	Optional 30Hz Frame Rate - a	dd "Z" to end of part number: HS	I3001Z (USA only)	

Specifications subject to change without notice

HeatSpy® is a registered trademark of Wahl Instruments, Inc.





Download and View previously stored thermal images. Images are date and time stamped, contain imager settings, and the temperature of each individual pixel (160 x 120) composing the thermal scene. View individual pixels by moving your mouse anywhere in the scene.

Powerful Features of the Wahl HSI3000 Series Image Processing Software

Modify, Analyze, and Store Thermal Images

Wahl HeatSpy® HSI3000 Series Thermal Imagers include easy to use, Heat Spy® image processing software allowing the user to manipulate, analyze, and store thermal images. Utilize included software to change every image setting on your PC if corrections are needed. No other software package can do this!

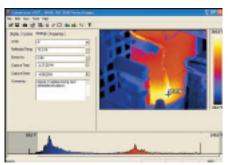
Enhance Image Details by manually or automatically adjusting temperature level and span. Change emissivity and reflected temperature settings if necessary. Select from four-color palettes and a zoom capability up to 4X. Interpolate the image to 320 x 240 or 640 x 480.

Perform Accurate Detailed Temperature Measurement Analysis with histograms, 2D profiles, dual isotherms, and optional multiple temperature points anywhere in the scene. Or select the "hot and cold spot cursors" feature to direct cursors to the hottest

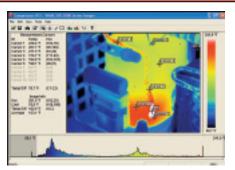
and coldest measurements in the scene. The values of these (and their difference) are shown in a measurement cursors list. In addition, output all individual pixel temperatures in the image to a Microsoft Excel .csv file for further analysis and trending.

Add Comments to each image. Copy a screen capture of the application window, or copy to Bitmap (BMP) and paste into a picture editor or Microsoft Office applications.

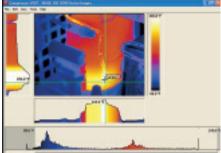
ENHANCE IMAGE DETAILS



Add comments to the image: select either °F, °C or °K: adjust the target object emissivity: adjust the reflected temperature correction: adjust span and range temperature scale settings.



Placing measurement cursors anywhere in the image creates a list that includes the spot measurement, pixel position, and the difference between measurement cursors 1 and 2. Also displays the hottest and coldest measurements in the scene, their difference, and the average.



2D profile displays a graphical representation of the temperature values along the selectable vertical and horizontal lines. Thermal intensity plots correspond to the vertical and horizontal cross-sections through the image.

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