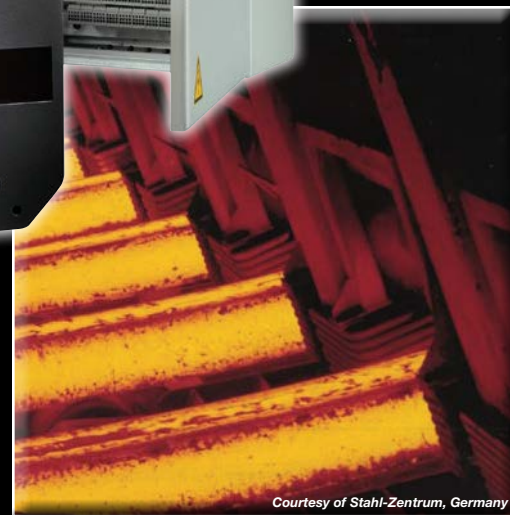

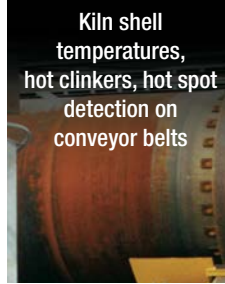
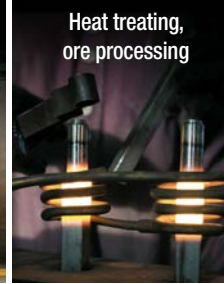


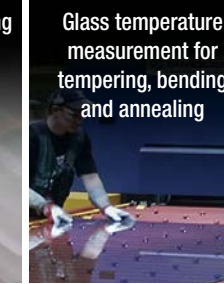


ScanIR[®]3

Linescanning Infrared Thermometer and Thermal Imaging System



S330	S335	S339	S343	S344	S350
20 to 350 °C (68 to 662 °F) 3-5 µm	100 to 650 °C (212 to 1202 °F) 3.5-4.0 µm	100 to 800 °C (212 to 1472 °F) 3.9 µm	30 to 250 °C (86 to 482 °F) 3.43 µm	100 to 350 °C (212 to 662 °F) 3.43 µm	100 to 950 °C (212 to 1742 °F) 5 µm
Printing, coating, laminating, food, drying/curing, thermoforming, textiles, plaster board, paint curing, carpeting, and flooring	Kiln shell temperatures, hot clinkers, hot spot detection on conveyor belts	Heat treating, ore processing	Extrusion and converting of polyethylene, polypropylene and polystyrene thin films	Extrusion and converting of polyethylene, polypropylene and polystyrene thin films	Glass temperature measurement for tempering, bending and annealing
					

ScanIR[®]3 Linescanner with ScanView[™] Pro Software

The ScanIR3 Linescanner Series is a family of advanced infrared linescanners that provides accurate, real-time, thermal imaging for a wide variety of industrial applications, including continuous sheet and web-based processes, as well as discrete manufacturing processes. The ScanIR3 series is designed for reliability and continuous operation in harsh industrial environments.

The ScanIR3 robust housing includes built-in provisions for water-cooling and air-purge, and features built-in laser sighting. A rugged processor box provides universal input and output capabilities in the field without the need for an external computer.

The ScanIR3 linescanner is surprisingly easy-to-install and manage. One bundled sensing head cable allows for fast and easy installation.

Versatile ScanView Pro software allows custom configuration of ScanIR3 operating parameters, and display of thermal images and temperature profiles on a standard PC.

Features

- Fast scan speed up to 150 lines per second
- Up to 1024 measurement points per line
- High optical resolution up to 200:1
- PC independent input/output capabilities
- Reliable Ethernet Communication (optional fiber optics)
- Rugged, waterproof housing with built-in laser
- Reliable brushless scanning motor
- Field-replaceable window
- Built-in air purge and water cooling as standard
- One bundled sensing head cable with one-click connector to the scanner

General Specifications

Environmental Rating	IP65 (IEC 60529)
Ambient Operation Temperature	
without water-cooling	0 to 50 °C (32 to 122 °F)
with water-cooling (integrated)	180 °C (356 °F) maximum
with internal heater (optional)	-40 °C (-40 °F) minimum
Internal Operating Temperature	0 to 60 °C (32 to 140 °F)
Laser	automatic switch OFF at < 5 °C or > 50 °C (< 41 °F or > 122 °F)
Storage Temperature	-25 to 65 °C (-13 to 149 °F)
Relative Humidity	10 to 90%, non-condensing
Shock	IEC 60068-2-27, 3 axes, operating 5 g @11 ms, 15 g at 6 ms
Vibration	IEC 60068-2-6, 3 axes, 10 to 150 Hz, operating 2 g above 20 Hz
Scan Motor	MTBF: 40.000 hours
Water Cooling/Air Purge	standard feature
maximum water pressure	15 bar
maximum air pressure	3 bar
CE Conformance	EN61010-1: 1993/A2: 1995 EN61326-1, EN60825-1

Measurement Specifications

Optical Scan Rate	20 to 150 Hz
Response Time	20 ms
Field of View	90°
Focus	1.52 m standard, custom focuses available
Emissivity	0.1 to 1.0 digitally adjustable
Samples	256 per scan line up to 150 Hz 512 per scan line up to 80 Hz 1024 per scan line up to 40 Hz
Signal Processing	Max, Min, AVG, Peak/Valley Hold, Alarm set points

Electrical Specifications

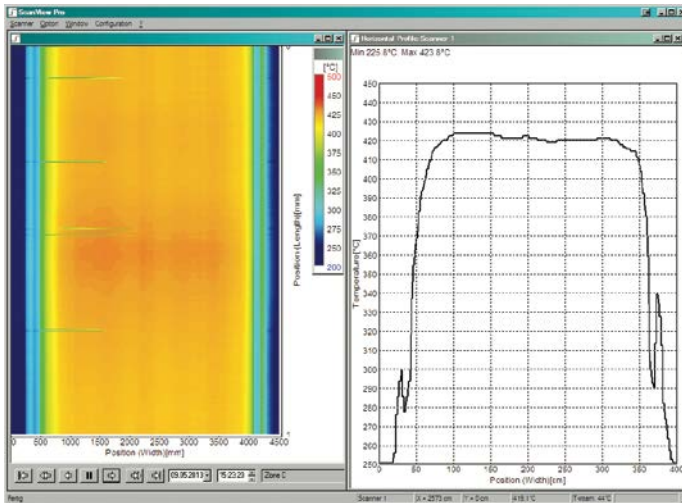
Processor Box Outputs (11 module max. per box)	
Analog	0-20 mA, 4-20 mA or 0-10 V 16 bit resolution, 2 channels per module
Digital	24 VDC switching, 16 channels per module
Relay	Potential free, closing contacts 2 channels per module
Inputs	Trigger, laser switching, system functions
Ethernet Communication	TCP/IP protocol 10/100 Mbit/s
Power	100-240 VAC, 44/66 Hz
Warm-up Time	30 minutes
Environmental rating	IP65 (IEC 60529)
Ambient Operation Temperature	0 - 50 °C (32 - 122 °F)

Imaging

Real-time thermal imaging is provided by ScanView™ Pro software for temperature monitoring, display and analysis. With ScanView Pro software, you can quickly detect a hot spot or non-uniformity before it becomes a problem.

The ScanView Pro software provides features to subdivide thermal images from the ScanIR3 linescanner into portions of specific interest. Temperatures in each portion can be processed for certain math functions, like average, maximum or minimum temperatures. In case of a thermal defect, the software triggers an alarm.

For interfacing with other control systems, temperatures are available as current or voltage analog outputs by virtue of the analog output modules provided as an option with the processor box. No PC is necessary to provide these outputs.

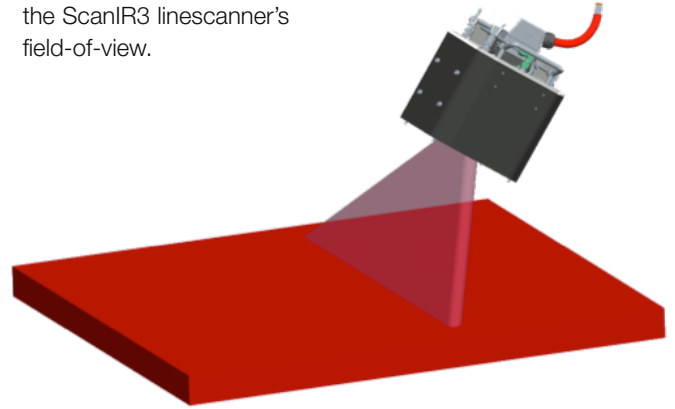


ScanView Pro Features

- View two-dimensional thermal images, temperature profiles and differential images
- Define product-specific configurations
- Analyze temperatures automatically (Minimum, Maximum and Average)
- Fail-safe alarm logging
- Define a reference image display
- Playback stored thermal images as a movie
- System interfaces include analog/digital output modules, OPC or DDE server, or a serial COM port
- Supports multiple ScanIR3 linescanners
- Specify security passwords and access levels
- Multiple language support

Edge-to-edge Temperature Measurement

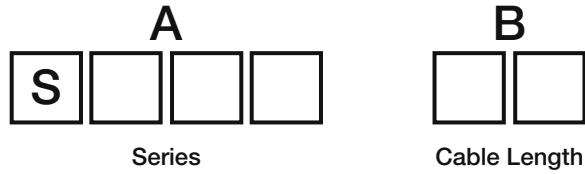
Unlike point sensors that measure a single point, the ScanIR3 scanner measures multiple temperature points across a scan line. The ScanIR3 motorized mirror scans at rates up to 150 lines per second. The faster scan rate allows rapid detection of temperature non-uniformities and hot spots. Rotating optics collect infrared radiation at 1024 points within a 90° field of view. A two-dimensional image is formed as the material moves across the ScanIR3 linescanner's field-of-view.



ScanIR3 High Temperature Enclosure

- High temperature enclosure for the ScanIR3 linescanner withstands process temperatures up to 1090 °C (1994 °F)
- Modular system with choice of cooling options allows users to configure to suit their application
- Rugged stainless steel construction
- Integrated shutter for fail-safe operation





Block A	Temperature Range	Spectral Range	Optical Resolution (measured at focal point)	Primary Applications
S330	20-350 °C (68-662 °F)	3-5 µm	D/170	Printing, coating, laminating, food, drying/curing, thermoforming textiles, plaster board, paint curing, carpeting and flooring
S335	100-650 °C (212-1202 °F)	3.5-4.0 µm	D/170	Kiln shell temperatures, hot clinkers, hot spot detection on conveyor belts
S339	100-800 °C (212-1472 °F)	3.9 µm	D/170	Heat treating, ore processing
S343	30-250 °C (86-482 °F)	3.43 µm	D/33	Extrusion and converting of polyethylene, polypropylene and polystyrene thin films
S344	100-350 °C (212-662 °F)	3.43 µm	D/75	Extrusion and converting of polyethylene, polypropylene and polystyrene thin films
S350	100-950° C (212-1742 °F)	5 µm	D/170	Glass temperature measurement for tempering, bending and annealing

Block B	Cable Length
10	10 m (32 ft)
15	15 m (49 ft)
20	20 m (65 ft)
25	25 m (82 ft)
30	30 m (98 ft)

Accessories

<p>S3X-Basic Kit Basic Kit to mount one or more selected outputs to the Processor Box <i>Please Note: The Basic Kit accessory must be ordered with the ScanIR3 linescanner.</i></p> <p>S3X-16DI-I Digital In (16 each)</p> <p>S3X-16DO-I Digital Out (16 each)</p> <p>S3X-2AOC0-I Analog Out Current (2 each), 0–20mA</p> <p>S3X-2AOC4-I Analog Out Current (2 each), 4–20mA</p> <p>S3X-2AOV-I Analog Out Voltage 0-10V (2 each)</p> <p>S3X-2R-I Relay (2 each)</p> <p>S3X-2A-ISO-I Passive current isolation</p> <p>S3X-LWL-I Fiber Optic/RJ45 Converter</p> <p>S3X-FSISO Fitting Set Cooling (ISO)</p> <p>S3X-FSNPT Fitting Set Cooling (NPT)</p>	<p>S3X-RMB Adjustable Rugged Mounting Base scanner mounting plate included</p> <p>S3X-ENC Enclosure and Base Stainless steel enclosure with mounting base and integrated fail safe shutter (Includes internal cold plates, grommet plates for cooling water.)</p> <p>S3X-ENCIS Insulating Shield Stainless steel envelope with a high performance refractory core.</p> <p>S3X-ENCWCS Water-Cooled Shield Stainless steel high performance water shield. A 25 mm (1") water inlet and outlet permit high flow rates and extremely high heat removal capability.</p>
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