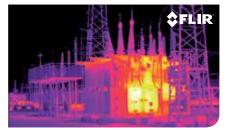


Thermal imaging cameras can detect hot spots on the ladle.



A transformer showing an excessive temperature.

FLIR A310 f

Fixed Mount Thermal Imaging Camera for Condition Monitoring and Fire Prevention

FLIR A310 f thermal cameras can be installed almost anywhere to monitor the condition of your critical equipment and other valuable assets. Designed to help safeguard your plant and measure temperature differences, they allow you to see problems before they become costly failures -- preventing downtime and enhancing worker safety.

FLIR A310 f is ideal for various applications that require temperature measurement capabilities including: substation, transformer, waste bunker, and coal pile monitoring.

EXCELLENT IMAGE QUALITY

FLIR A310 f contains an uncooled Vanadium Oxide (VOx) microbolometer detector, producing crisp, 320 x 240 resolution thermal images and making small temperature differences clearly visible. The camera features a built-in lens with motorized focus, the ability to stream video over Ethernet to view live images on a PC, communication and power over Ethernet cable, and can be controlled remotely over the Web and TCP/IP protocol.

BUILT-IN ANALYSIS AND ALARM FUNCTIONS

FLIR A310 f comes standard with built-in analysis functions like spot, area measurement, and temperature difference. Alarms can be set to go off as function of analysis, internal temperature or digital input. The camera automatically sends analysis results, IR images, and more as an e-mail on schedule or at alarm. Autonomous dispatch of files or e-mails, acting as an FTP- or SMTP-client is possible. Since FLIR A310 f is Ethernet/IP and Modbus TCP compliant, analysis and alarm results can easily be shared to a PLC. Digital inputs/outputs (are available for alarms and control of external equipment. An image masking function allows you to select only the relevant part of the image for your analysis.

DESIGNED FOR USE IN HARSH ENVIRONMENTS

A310 f is an extremely rugged system that meets IP66 requirements, protecting the camera from dust and water.



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Imaging Specifications

System Overview IR resolution	FLIR A310 f 320 × 240 pixels
Thermal sensitivity/NETD	320 × 240 pixels < 0.05°C @ +30°C (+86°F) / 50 mK
	FLIR A310f 15°: 15° × 11.25°
	FLIR A310f 25°: 25° × 18.8°
Field of view (FOV)	FLIR A310f 45°: 45° × 33.8°
	FLIR A310f 6°: 6° × 4.5°
	FLIR A310f 90°: 90° × 73°
	FLIR A310f 15°: 1.2 m (3.93 ft.)
	FLIR A310f 25°: 0.4 m (1.31 ft.)
Minimum focus distance	FLIR A310f 45°: 0.20 m (0.66 ft.)
	FLIR A310f 6°: 6° × 4.5°
	FLIR A310f 90°: 20 mm (0.79 in.) FLIR A310f 15°: 30.38 mm (1.2 in.)
	FLIR A310f 25°: 18 mm (0.7 in.)
Focal length	FLIR A310f 45°: 9.66 mm (0.38 in.)
- Countering and	FLIR A310f 6°: 76 mm (3.0 in.)
	FLIR A310f 90°: 4 mm (0.157 in.)
	FLIR A310f 15°: 0.82 mrad
	FLIR A310f 25°: 1.36 mrad
Spatial resolution (IFOV)	FLIR A310f 45°: 2.45 mrad
	FLIR A310f 6°: 0.33 mrad
	FLIR A310f 90°: 6.3 mrad
Lens identification F-number	Automatic 1.3
	1.3
Imaging and optical data	30 Hz
Image frequency Focus	Automatic or manual (built in motor)
	1–8× continuous, digital,
Zoom	interpolating zooming on images
Detector data	
Detector type	Focal Plane Array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm
Detector pitch	25 µm
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	-20 to +120°C (-4 to +248°F)
o bjoot torriporataro rango	0 to +350°C (+32 to +662°F)
A	
Accuracy	±4°C (±7.2°F) or ±4% of reading
Measurement analysis	$\pm 4^{\circ}C$ ($\pm 7.2^{\circ}F$) or $\pm 4\%$ of reading
Measurement analysis Spotmeter	±4°C (±7.2°F) or ±4% of reading
Measurement analysis Spotmeter Area	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position
Measurement analysis Spotmeter Area Isotherm	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File
Measurement analysis Spotmeter Area	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File
Measurement analysis Spotmeter Area Isotherm Measurement option	10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement
Measurement analysis Spotmeter Area Isotherm	10 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance,
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows correction	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows correction Measurement corrections	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows correction	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global and individual object parameters
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows correction Measurement corrections	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows corrections Alarm	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global and individual object parameters 6 automatic alarms on any selected measurement
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows corrections Alarm Alarm functions	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of optics/window transmission and temperature Global and individual object parameters 6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows correction Measurement corrections Alarm Alarm functions Alarm output	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of optics/window transmission and temperature Global and individual object parameters 6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows corrections Alarm Alarm functions Alarm output Ethernet	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of optics/window transmission and temperature Global and individual object parameters 6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer Digital Out, log, store image, file sending (ftp), email (SMTP), notification Control, result and image 100 Mbps
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature corrections Alarm Alarm functions Alarm output Ethernet Ethernet, type Ethernet, standard	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of optics/window transmission and temperature Global and individual object parameters 6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer Digital Out, log, store image, file sending (ftp), email (SMTP), notification Control, result and image 100 Mbps IEEE 802.3
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows correction Measurement corrections Alarm Alarm functions Alarm output Ethernet Ethernet, type Ethernet, standard Ethernet, connector type	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of reflected temperature Global and individual object parameters 6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer Digital Out, log, store image, file sending (ftp), email (SMTP), notification Control, result and image 100 Mbps IEEE 802.3 RJ-45
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows corrections Alarm Alarm functions Alarm output Ethernet Ethernet, type Ethernet, connector type Ethernet, communication	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of reflected temperature Global and individual object parameters 6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer Digital Out, log, store image, file sending (ftp), email (SMTP), notification Control, result and image 100 Mbps IEEE 802.3 RJ-45 TCP/IP socket-based FLIR proprietary
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows corrections Alarm Alarm functions Alarm output Ethernet Ethernet, standard Ethernet, connector type Ethernet, ownunication Ethernet, video streaming	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of optics/window transmission and temperature Global and individual object parameters 6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer Digital Out, log, store image, file sending (ftp), email (SMTP), notification Control, result and image 100 Mbps IEEE 802.3 RJ-45 TCP/IP socket-based FLIR proprietary MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows correction Measurement corrections Alarm Alarm functions Alarm output Ethernet Ethernet, type Ethernet, connector type Ethernet, ode streaming Ethernet, image streaming	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of optics/window transmission and temperature Global and individual object parameters 6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer Digital Out, log, store image, file sending (ftp), email (SMTP), notification Control, result and image 100 Mbps IEEE 802.3 RJ-45 TCP/IP socket-based FLIR proprietary MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5 16-bit 320 × 240 pixels @ 7-8 Hz- Radiometric
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows corrections Alarm Alarm functions Alarm output Ethernet Ethernet, standard Ethernet, connector type Ethernet, ownunication Ethernet, video streaming	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of optics/window transmission and temperature Global and individual object parameters 6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer Digital Out, log, store image, file sending (ftp), email (SMTP), notification Control, result and image 100 Mbps IEEE 802.3 RJ-45 TCP/IP socket-based FLIR proprietary MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5 16-bit 320 x 240 pixels @ 7-8 Hz-Radiometric Power over Ethernet, PoE IEEE 802.3af class 0
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows corrections Alarm Alarm functions Alarm output Ethernet Ethernet, type Ethernet, connector type Ethernet, wideo streaming Ethernet, image streaming Ethernet, power	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of reflected temperature Global and individual object parameters 6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer Digital Out, log, store image, file sending (ftp), email (SMTP), notification Control, result and image 100 Mbps IEEE 802.3 RJ-45 TCP/IP socket-based FLIR proprietary MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5 16-bit 320 × 240 pixels @ 7.8 Hz-Radiometric Power over Ethernet, PoE IEEE 802.3af class 0 Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP,
Measurement analysis Spotmeter Area Isotherm Measurement option Difference temperature Reference temperature Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/ windows corrections Alarm Alarm functions Alarm output Ethernet Ethernet, type Ethernet, connector type Ethernet, video streaming Ethernet, video streaming	±4°C (±7.2°F) or ±4% of reading 10 10 boxes with max./min./average/position 1 with above/below/interval Measurement Mask / Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Manually set or captured from any measurement function Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.01 to 1.0 Automatic, based on input of optics/window transmission and temperature Global and individual object parameters 6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer Digital Out, log, store image, file sending (ftp), email (SMTP), notification Control, result and image 100 Mbps IEEE 802.3 RJ-45 TCP/IP socket-based FLIR proprietary MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5 16-bit 320 x 240 pixels @ 7-8 Hz- Radiometric Power over Ethernet, PoE IEEE 802.3ar class 0

0-1	
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature°C/°F
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit
	measurement data included
Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext.
	device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	As function of ALARM, Output to ext. device
Digital output	(programmatically set) 2 opto-isolated, 10–30 VDC, max 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Power system	
Fuwer system	The camera operates on 12/24 VDC, 9 W max.
External power operation	(allowed range: 10-30 VDC) and heaters on 24 VDC,
External power operation	25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	Allowed lange to 50 VDC
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
	IEC 60068-2-30/24 h 95% relative humidity +25°C
Humidity (operating and storage)	to +40°C (+77°F to +104°F)
	• EN 61000-6-2 (Immunity)
EMC	 EN 61000-6-3 (Emission)
	 FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	5 kg (11.0 lb.)
Size (L \times W \times H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	TBA
Housing material	Aluminum
System features	
External power operation (heater)	24 VDC, 25 W max.
External power,	2-pole jackable screw terminal
connector type (heater)	
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice
Shipping information	
	Cardboard box, Infrared camera with lens and
List of contents	environmental, housing, FLIR Sensors Manager
	download card, FLIR Tools & Utilities CD-
	ROM, Lens cap, Printed documentation, Small
	accessories kit, User documentation CD-ROM



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