

P/N: 48201-1201

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Website

http://www.flir.com

Customer support

http://support.flir.com

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Pyramid Imaging

945 East 11th Avenue Tampa FL 33605 sales@pyramidimaging.com www.pyramidimaging.com 813-984-0125



General description

The FLIR A320 Tempscreen is a camera preconfigured to work well in applications where you want to find temperature deviations in a population of people, utilizing difference temperature alarms with a dynamically updated reference temperature.

In addition, the FLIR A320 Tempscreen offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality and autonomous communication using standard protocols. The FLIR A320 Tempscreen also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

Key features:

- Screening: difference temperature alarm with a dynamic updated reference temperature (visualized by the isotherm).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images semi-real time, signal and temperature linear.
- Lenses: 25° included, 15° and 45° optional.

Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

Imaging and optical data

Imaging and optical data		
IR resolution	320×240 pixels	
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK	
Field of view (FOV)	25° × 18.8°	
Minimum focus distance	0.4 m (1.31 ft.)	
Focal length	18 mm (0.7 in.)	
Spatial resolution (IFOV)	1.36 mrad	
Lens identification	Automatic	
F-number	1.3	
Image frequency	30 Hz	



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Focus Automatic or manual (built in motor) Zoom 1-8x continuous, digital, interpolating zooming images Detector data Focal plane array (FPA), uncooled microbolometer Spectral range 7.5-13 µm Detector time constant Typical 12 ms Measurement Object temperature range • -20 to +120°C (-4 to +248°F) Object temperature range • -20 to +350°C (+32 to +682°F) Accuracy ±2°C (±3.6°F) or ±2% of reading Measurement analysis Spotmeter Spotmeter 4 Area 4 boxes with max./min/average/position Isotherm 1 with above/below/interval Measurement option Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP) Difference temperature Difference temperature Manually set or captured from any measurement functions or reference temperature Atmospheric transmission correction Automatic, based on inputs for distance, atmospheric temperature correction Automatic, based on input of optics/window transmission and temperature External optics/window transmission and temperature External optics/windows correction Automatic, based on input of optics/window transmission and temperature (visualized by ti isofherm) Alarm </th <th>Imaging and optical data</th> <th></th>	Imaging and optical data		
Zoom 1-8x continuous, digital, interpolating zooming images Detector data 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 Object temperature range • -20 to +120°C (-4 to +248°F) Accuracy ±2°C (±3.6°F) or ±2% of reading Measurement analysis Spotmeter Spotmeter 4 Area 4 boxes with max./min/average/position Isotherm 1 with above/below/interval Measurement option Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP) Ofference temperature Difference temperature Manually set or captured from any measurement functions or reference temperature Atmospheric transmission correction Automatic, based on inputs for distance, atmospheric temperature and relative humidity Optics transmission correction Automatic, based on input of optics/window transmission and temperature Emissivity correction Automatic, based on input of optics/window transmission and temperature Keflected apparent temperature correction Automatic, based on input of optics/window transmission and temperature		Automatic or manual (built in motor)	
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 0 bject temperature range 20 to +120°C (-4 to +248°F) • 0 to +350°C (+32 to +662°F) Accuracy ±2°C (±3.6°F) or ±2% of reading Measurement analysis Spotmeter Area 4 boxes with max./min./average/position Isotherm 1 with above/below/interval Measurement option Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP) Delta temperature between measurement functions or reference temperature Difference temperature Manually set or captured from any measurement function Atmospheric transmission correction Automatic, based on inputs for distance, atmospheric temperature and relative humidity Optics transmission correction Automatic, based on input of optics/window transmission and temperature External optics/windows correction Automatic, based on input of optics/window transmission and temperature External optics/windows correction Automatic, based on input of optics/window transmission and temperature Marm Object algoritor (4.9°F) accuracy at 37°C (98.6°F)	Zoom	1–8× continuous, digital, interpolating zooming on images	
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function, Digital In, Camera temperature, timer Screening Difference temperature alarm with dynamic updated reference temperature (visualized by the isotherm) ±0.5°C (±0.9°F) accuracy at 37°C (98.6°F) with reference Alarm output Digital Out, log, store image, file sending (ftp), email (SMTP), notification Set-up Image: set-up	Alarm		
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Alarm output Digital Out, log, store image, file sending (ftp), email (SMTP), notification Set-up Image: Set-up	Screening	updated reference temperature (visualized by the	
email (SMTP), notification		$\pm 0.5^{\circ}\text{C}$ ($\pm 0.9^{\circ}\text{F})$ accuracy at 37°C (98.6°F) with reference	
	Alarm output		
	Set-up		
Color palettes (BW, BW inv, Iron, Rain)	Color palettes	Color palettes (BW, BW inv, Iron, Rain)	
Set-up commands Date/time, Temperature (°C/°F)	Set-up commands	Date/time, Temperature (°C/°F)	



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Storage of images			
Storage media	Built-in memory for image storage		
File formats	Standard JPEG, 16-bit measurement data included		
Ethernet			
Ethernet	Control, result and image		
Ethernet, type	100 Mbps		
Ethernet, standard	IEEE 802.3		
Ethernet, connector type	RJ-45		
Ethernet, communication	TCP/IP socket-based FLIR proprietary		
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5		
Ethernet, image streaming	16-bit 320 × 240 pixels Signal linear Temperature linear Radiometric 		
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0.		
	In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See <u>http://support.flir.com/service</u> for contact details.		
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP		
Digital input/output			
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)		
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high		
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)		
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open		
Digital I/O, isolation voltage	500 VRMS		
Digital I/O, supply voltage	6–24 VDC, max. 200 mA		
Digital I/O, connector type	6-pole jackable screw terminal		
Composite video			
Video out	Composite video output, PAL and NTSC compatible		
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)		
Video, connector type	Standard BNC connector		



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Power system		
External power operation	12/24 VDC, 24 W absolute max.	
External power, connector type	2-pole jackable screw terminal	
Voltage	Allowed range 10-30 VDC	
Environmental data		
Operating temperature range	-15°C to +50°C (+5°F to +122°F)	
Storage temperature range	-40°C to +70°C (-40°F to +158°F)	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25° C to +40°C (+77°F to +104°F)	
EMC	 EN 61000-6-2:2001 (Immunity) EN 61000-6-3:2001 (Emission) FCC 47 CFR Part 15 Class B (Emission) 	
Encapsulation	IP 40 (IEC 60529)	
Shock	25 g (IEC 60068-2-27)	
Vibration	2 g (IEC 60068-2-6)	
Physical data		
Weight	0.7 kg (1.54 lb.)	
Camera size $(L \times W \times H)$	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)	
Tripod mounting	UNC ¼"-20 (on three sides)	
Base mounting	$2 \times M4$ thread mounting holes (on three sides)	
Housing material	Aluminum	
Shipping information		
Packaging, type	Cardboard box	
List of contents	 Infrared camera with lens Ethernet cable Mains cable Power cable, pig-tailed Power supply Printed documentation Utility CD-ROM 	
Packaging, weight		
Packaging, size	$495 \times 370 \times 192 \text{ mm} (19.5 \times 14.6 \times 7.6 \text{ in.})$	
EAN-13	7332558003398	
UPC-12	845188003142	
Country of origin	Sweden	

Supplies & accessories:

- 1196961; IR lens, f=30 mm (15°) with case
- 1196960; IR lens, f=10 mm (45°) with case
- T197407; IR lens, f=76 mm (6°) with case and mounting support (for A3xx, A3xxsc)
- T197411; IR lens, f=4 mm (90°) with case and mounting support (for A3xx, A3xxsc)
- T197415; Close-up 1× (25 μm) incl. case and mounting support for A3xx, A3xxsc
 - T129252; Special temperature range -20 to +700 deg C
 - T129253; Special temperature range -20 to +500 deg C
 - T129254; High temperature measurement option -20 to +2000 deg C
 - T130151; Special temperature range -20 to +2000 deg C
 - T130152; Special temperature range +200 to +1200 deg C
 - 1910400; Power cord EU
 - 1910402; Power cord UK



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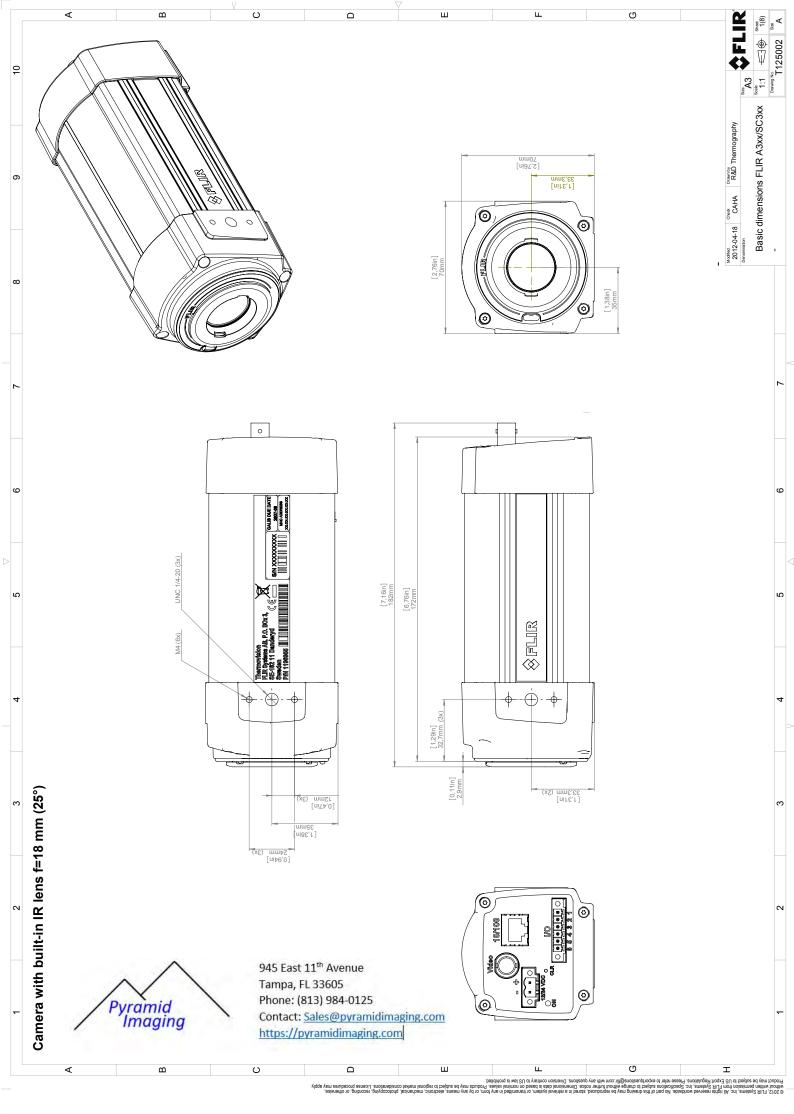


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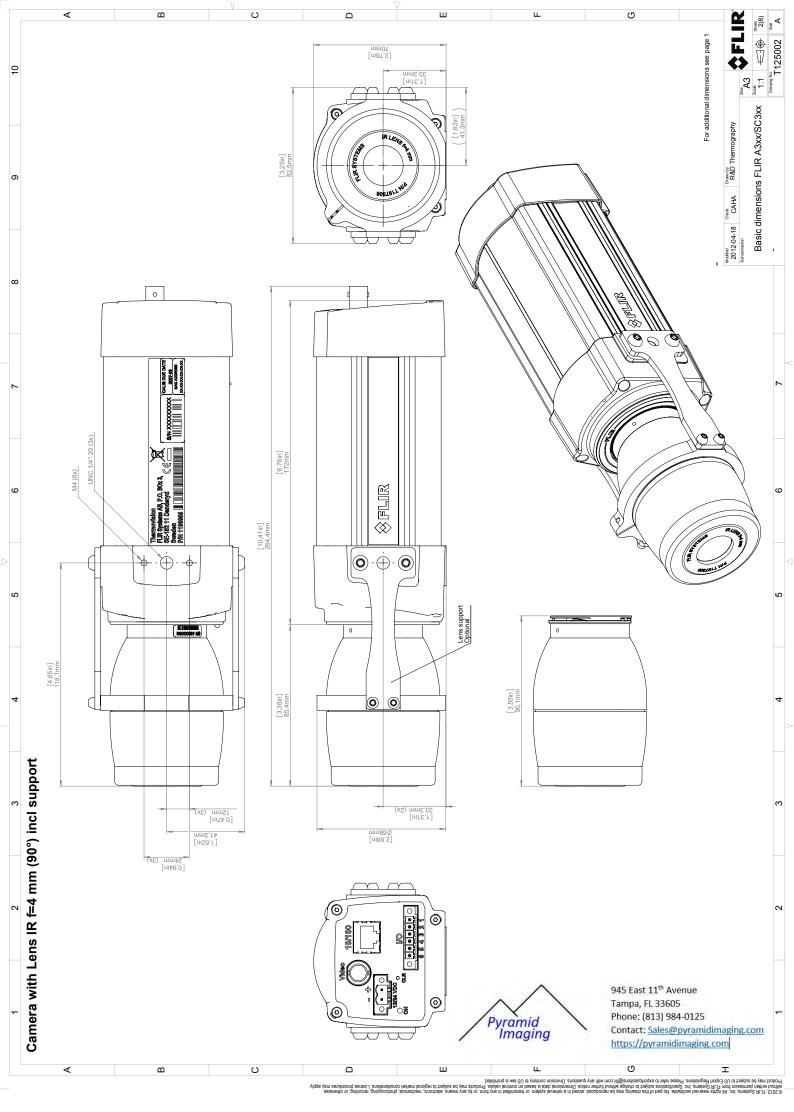
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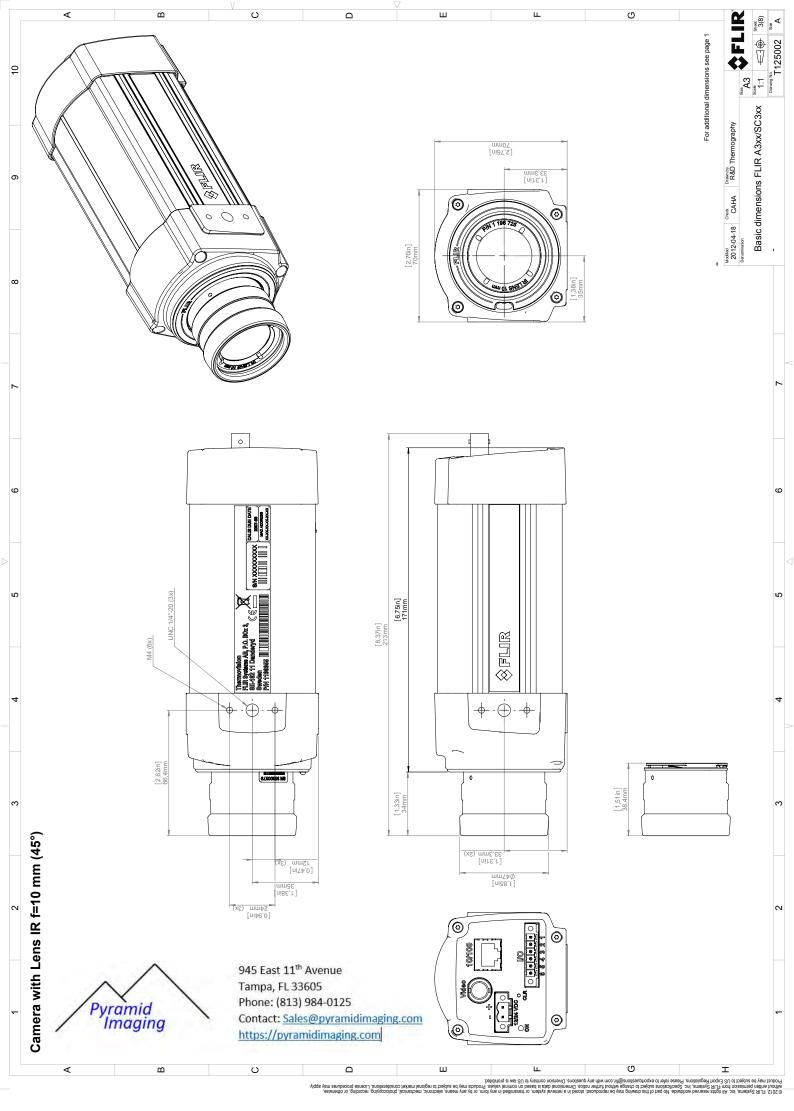
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T911307ACC; Ethernet cable, CAT6, 2 m/6.6 ft, 1 screw connector
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T197870ACC; Cardboard box for FLIR A3xx/A6xx series
- T197871ACC; Hard transport case for FLIR A3xx/A6xx series
- T197214; Close-up 2× (50 μm) incl. case
- T197215; Close-up 4× (100 μm) incl. case
- T300243; FLIR Thermal Studio Pro, 1 Year Subscription
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300258; FLIR Thermal Studio, Perpetual license
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- 4220499; FLIR Research Studio 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio Perpetual License (online activation)
- 4220646; FLIR Research Studio Perpetual License (USB dongle)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- INST-EW-0150; Extended Warranty 1 Year for A3xx, T4xx mkll
- INST-EWGM-0155; Premium Service Package for A3xx, T4xx mkll, T530
- INST-GM-0145; General Maintenance Package for A3xx, T3/4xx

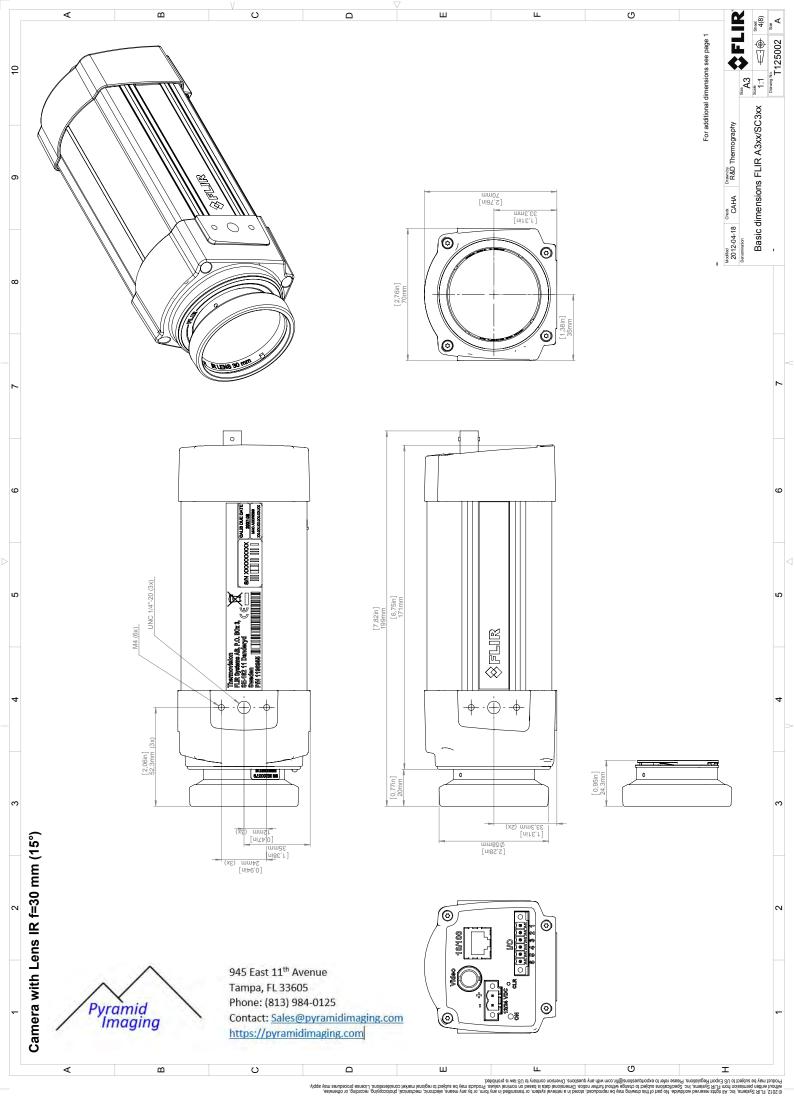


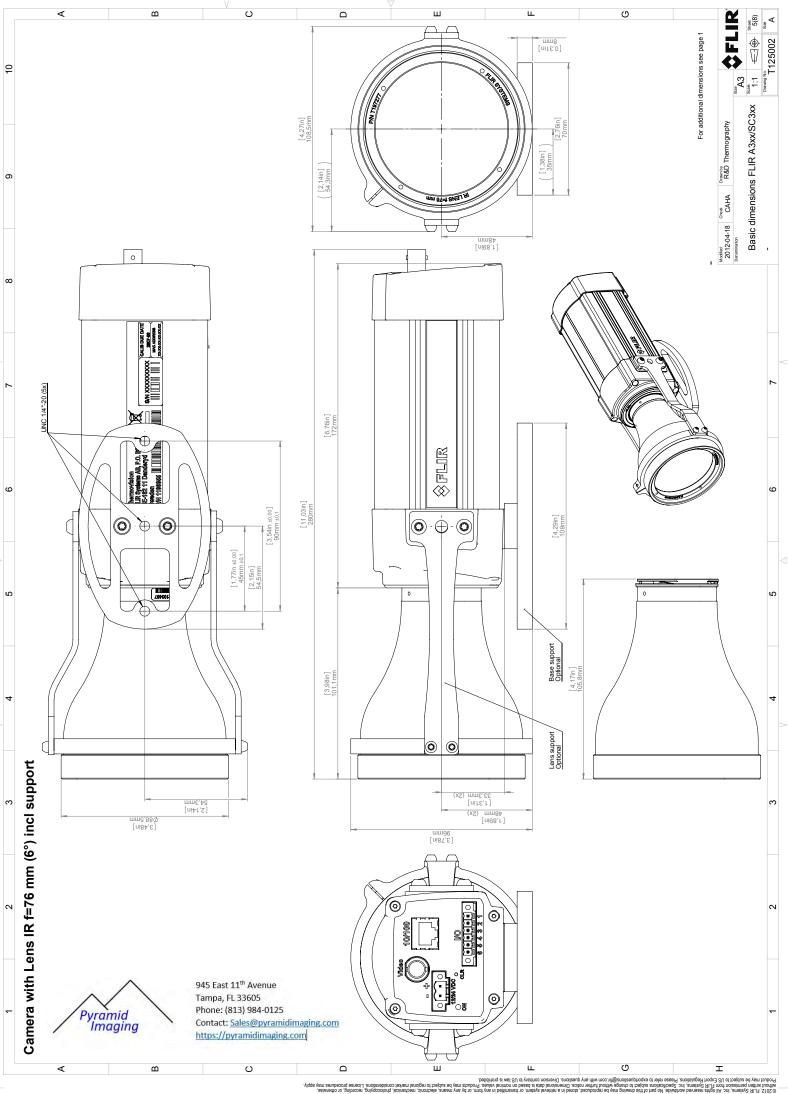


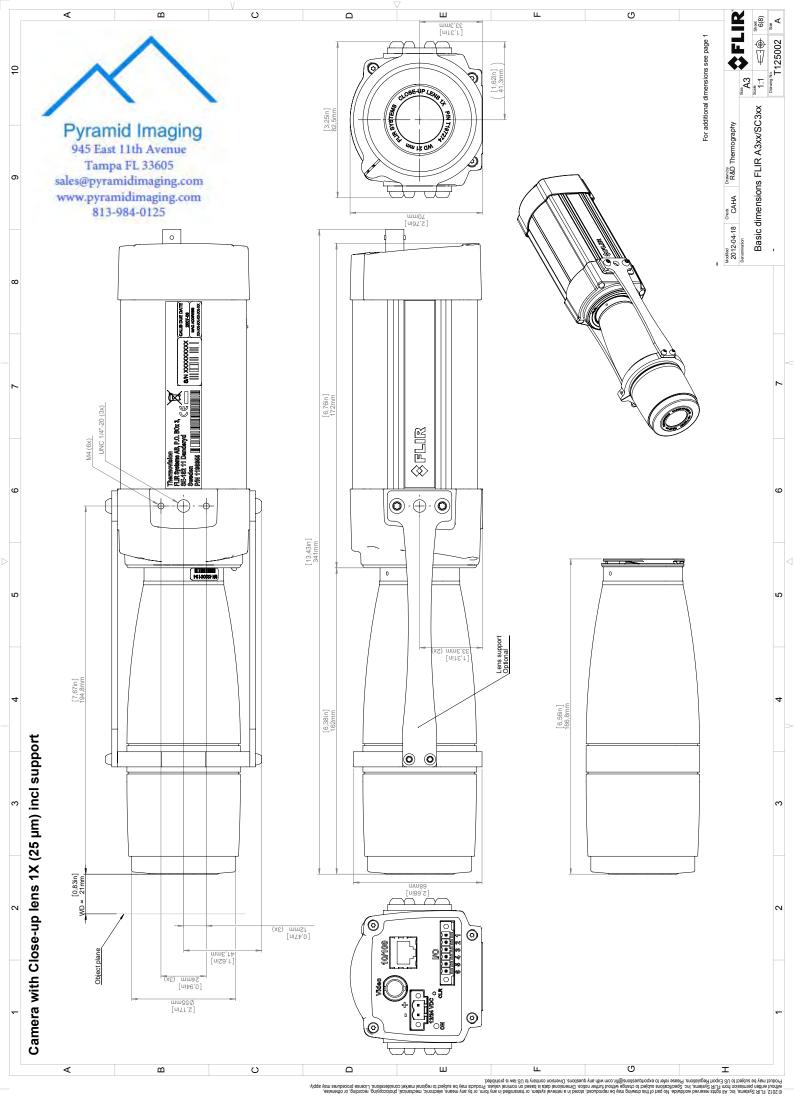
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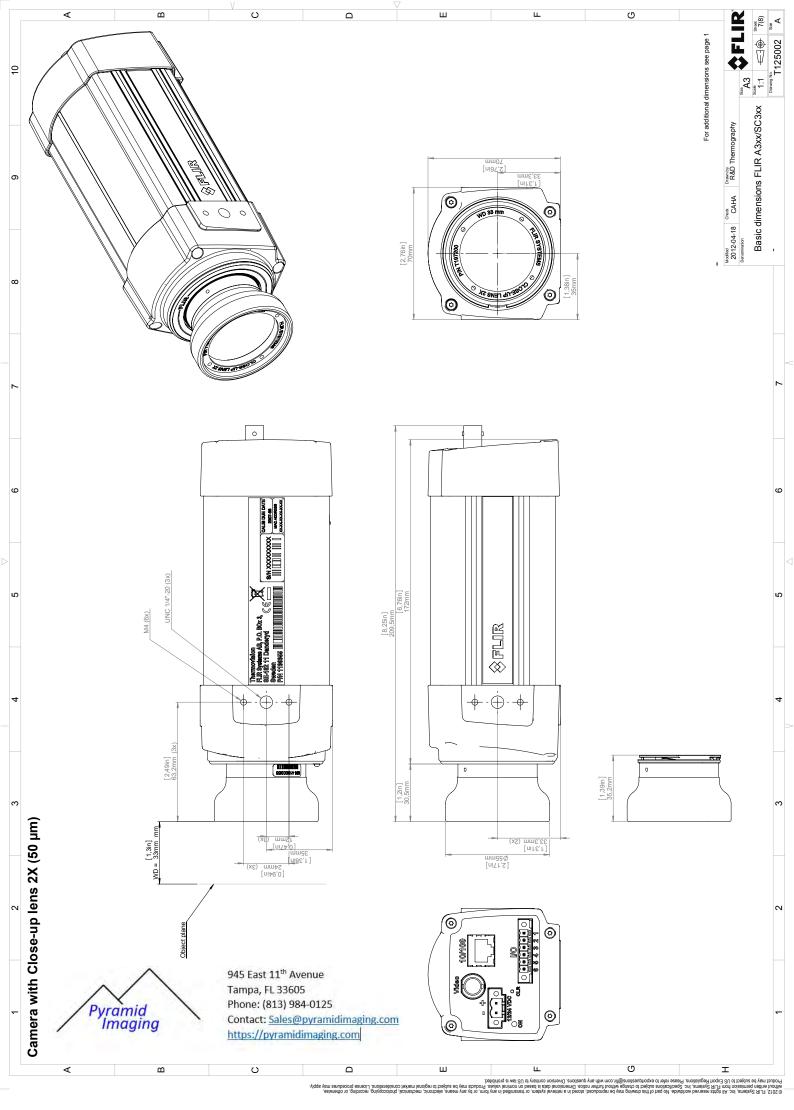




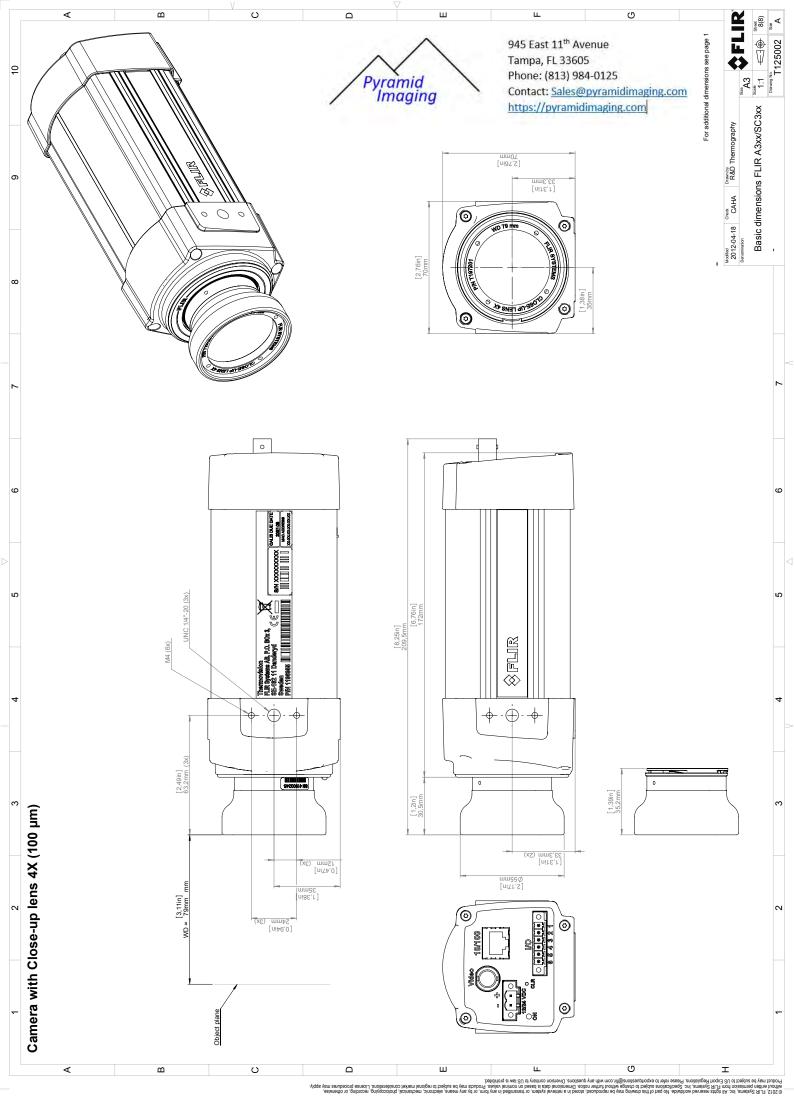


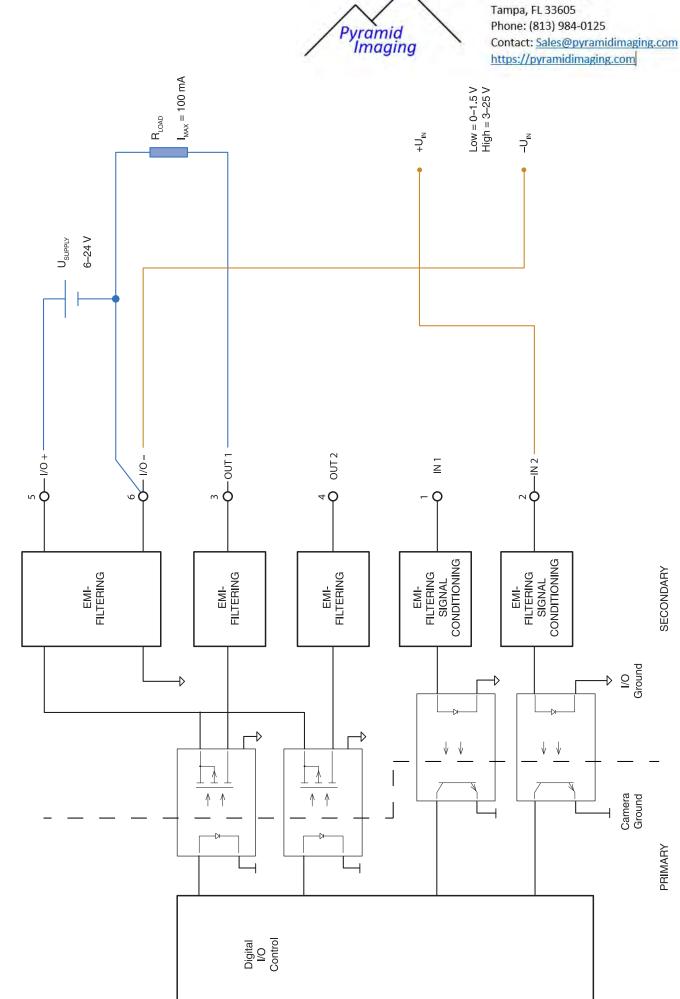






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945 East 11th Avenue

Digital I/O connection diagrams for FLIR A3xx/A6xx series



The World's Sixth Sense"

April 24, 2017 Täby, Sweden

AQ320234

CE Declaration of Conformity – EU Declaration of Conformity

Product: FLIR A3XX -series including A3XXSC

Name and address of the manufacturer: FLIR Systems AB PO Box 7376 SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration: FLIR A3XX -series including A3XXSC. The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Directives:

Directive	2014/30/EU	Electromagnetic Compability
Directive	2014/35/EU	Low Voltage Directive (Power Supply)
Directive	2012/19/EU	Waste electrical and electric equipment

Standards:		
Emission:	EN 61000-6-3:2006	Electromagnetic Compability
		Generic standards – Emission
Immunity:	EN 61000-6-2:2005	Electromagnetic Compability
		Generic standards – Immunity
Safety (Power supply):	EN 60950-1	Information technology equipment

FLIR Systems AB Quality Assurance

ter polon

Lea Dabiri Quality Manager

Pyramid Imaging

945 East 11th Avenue Tampa, FL 33605 Phone: (813) 984-0125 Contact: <u>Sales@pyramidimaging.com</u> https://pyramidimaging.com

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