

FLIR A325sc

P/N: 48001-1001

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Website

http://www.flir.com

Customer support

http://support.flir.com

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General description

The FLIR A325sc is an excellent choice for those working in R&D and need high frame rates but for whom 320×240 pixel resolution is sufficient. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.

Key features:

- Affordable.
- 16-bit 320 × 240 pixel images at 60 Hz.
- · Start-and-stop recording in FLIR ResearchIR using digital input.
- Lenses: 25° included, 15° and 45° optional.

Typical applications:

• Entry- or mid-level industrial R&D.

| 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 | 60 Hz |
| Focus | Automatic or manual (built in motor) |

| 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 |



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| Object 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 Atmospheric transmission correction Automatic, based on inputs for distance, atmospheric temperature and relative humidity Optics transmission correction Automatic, based on signals from internal sensors Emissivity correction Variable from 0.01 to 1.0 Reflected apparent temperature correction External optics/windows correction Automatic, based on input of reflected 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 External optics/windows correction Global object parameters Ethernet Ethernet Control and image Ethernet, type Gigabit Ethernet Ethernet, standard IEEE 802.3 Ethernet, connector type RJ-45 Ethernet, communication TCP/IP socket-based FLIR proprietary and GeniCam protocol Ethernet, image streaming 16-bit 320 × 240 pixels @ 60 Hz • Signal linear • Temperature linear • Radiometric GigE Vision and GeniCam compatible 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), Image flow control, (stream on/off), Input ext. device (programmatically read) Digital input, purpose Output to ext. device (programmatically set) Digital output, purpose Digital IVO, isolation voltage Digital IVO, isolation voltage Food VRMS Digital IVO, sonnector type 6-pole jackable screw terminal | Measurement | |
|--|---|---|
| Accuracy #2-20 to +12/20 C(+32 to +662*F) Accuracy #2**C (#3.6*F) or #2% of reading ### Measurement analysis Atmospheric transmission correction Automatic, based on inputs for distance, atmospheric temperature and relative humidity Optics transmission correction Automatic, based on signals from internal sensors Emissivity correction Variable from 0.01 to 1.0 Reflected apparent temperature correction Automatic, based on input of reflected 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 External optics/windows correction Automatic, based on input of optics/window transmission and temperature External optics/windows correction Control and image Ethernet Ethernet Ethernet Ethernet, type Gigabit Ethernet Ethernet, connector type RJ-45 Ethernet, connector type RJ-45 Ethernet, communication Ethernet, image streaming 16-bit 320 × 240 pixels @ 60 Hz Signal linear Temperature linear Radiometric GigE Vision and GenlCam compatible 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), Image flow control, (stream on/off), Input ext. device (programmatically read) Digital input 2 opto-isolated, 0-1.5 V = low, 3-25 V = high Digital linput Digital IvO, siolation voltage Digital IVO, siolation voltage Figure 12-3.6 ft. Signal input Coutput to ext. device (programmatically set) Digital IVO, siolation voltage Figure 2-4 VDC, max. 200 mA | | |
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| Temperature linear Radiometric GigE Vision and GenlCam compatible 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), Image flow control, (stream on/off), Input ext. device (programmatically read) Digital input 2 opto-isolated, 0–1.5 V = low, 3–25 V = high Digital output, purpose 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 | Ethernet, image streaming | 16-bit 320 × 240 pixels @ 60 Hz |
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| control, (stream on/off), Input ext. device (programmatically read) Digital input 2 opto-isolated, 0–1.5 V = low, 3–25 V = high Digital output, purpose 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 input/output | |
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| OFF = open Digital I/O, isolation voltage 500 VRMS Digital I/O, supply voltage 6–24 VDC, max. 200 mA | Digital output, purpose | Output to ext. device (programmatically set) |
| Digital I/O, supply voltage 6–24 VDC, max. 200 mA | Digital output | |
| | Digital I/O, isolation voltage | 500 VRMS |
| Digital I/O, connector type 6-pole jackable screw terminal | Digital I/O, supply voltage | 6-24 VDC, max. 200 mA |
| | Digital I/O, connector type | 6-pole jackable screw terminal |



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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 1/4"-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 FLIR ResearchIR Max 4 (licence only) Hard transport case Mains cable Power cable, pig-tailed Power supply Printed documentation |
| Packaging, weight | 5.0 kg (11.0 lb.) |
| Packaging, size | 495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.) |
| EAN-13 | 7332558004203 |
| UPC-12 | 845188004231 |
| Country of origin | Sweden |

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 μm) incl. case
- T197214; Close-up $2 \times (50 \mu m)$ incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1× (25 $\mu m)$ incl. case and mounting support for A3xx, A3xxsc

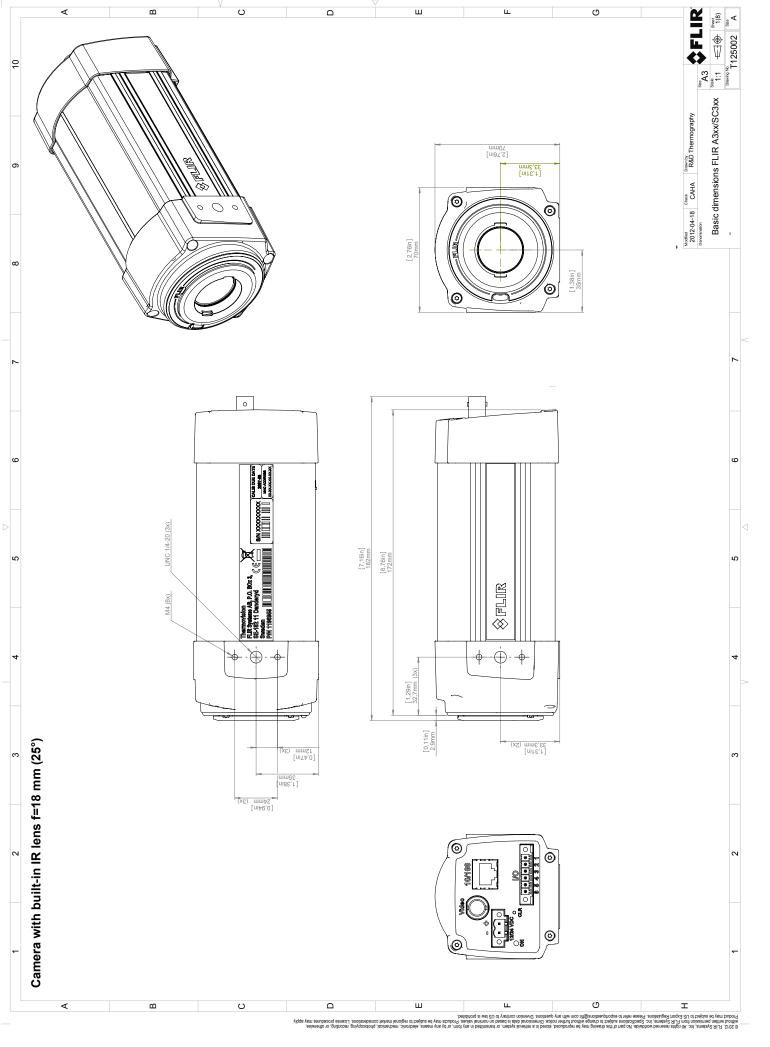
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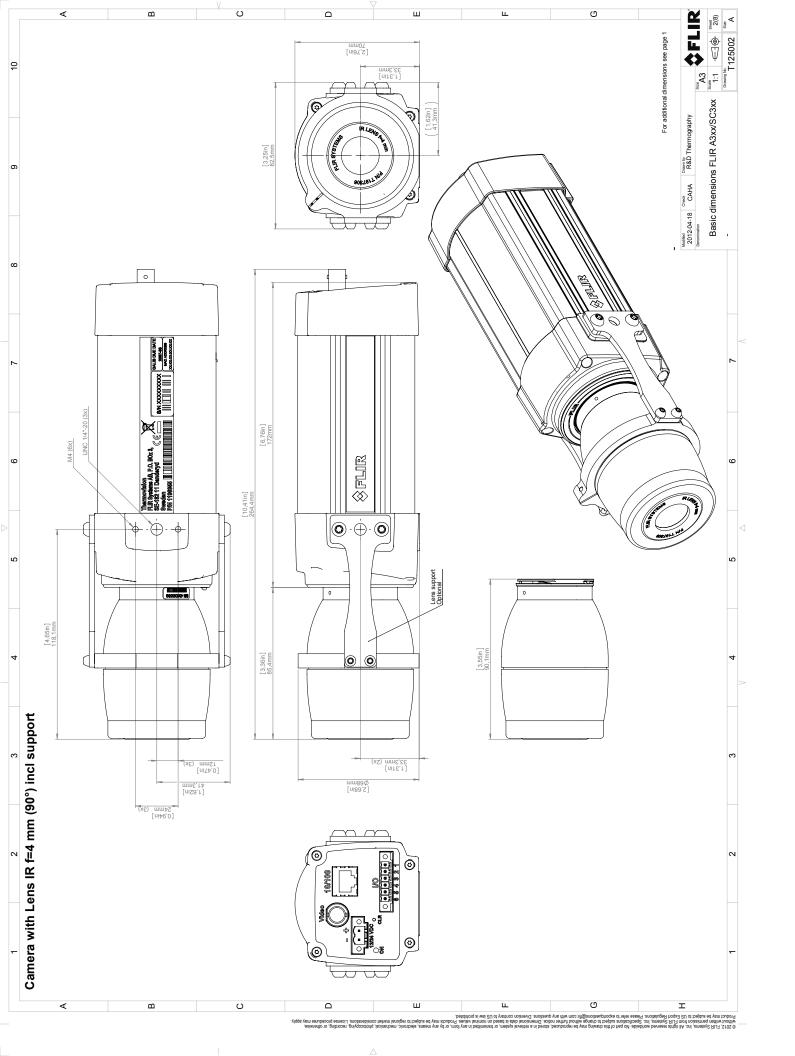
FLIR A325sc

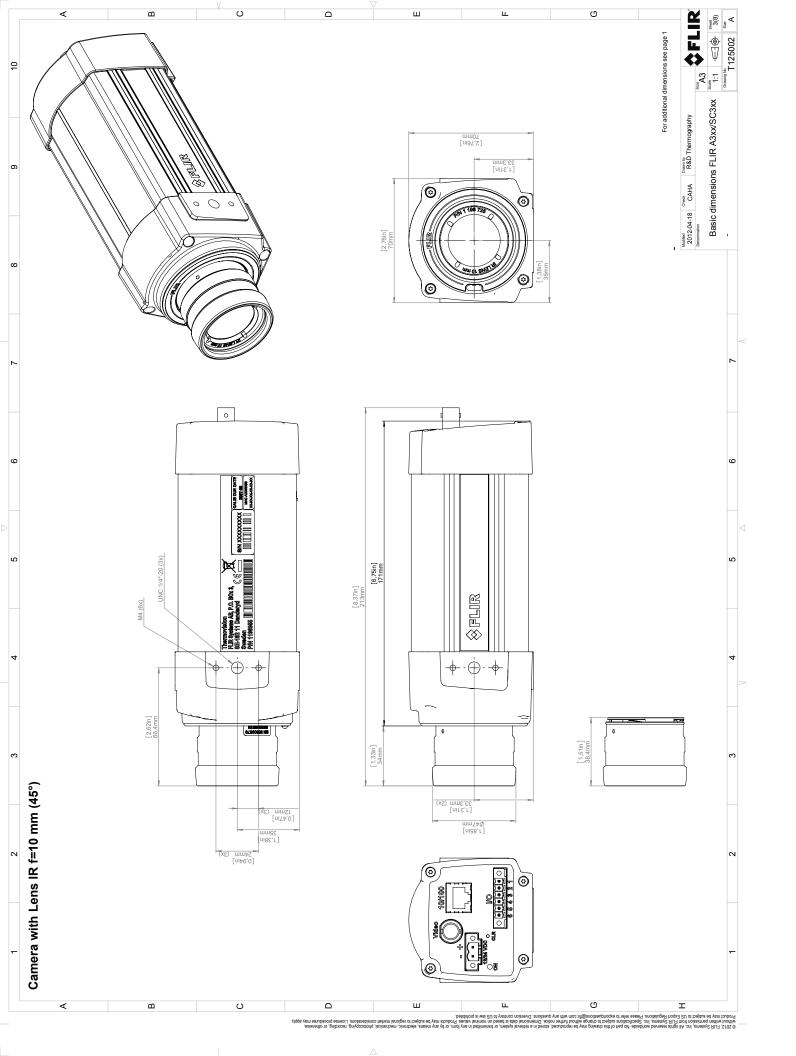
P/N: 48001-1001

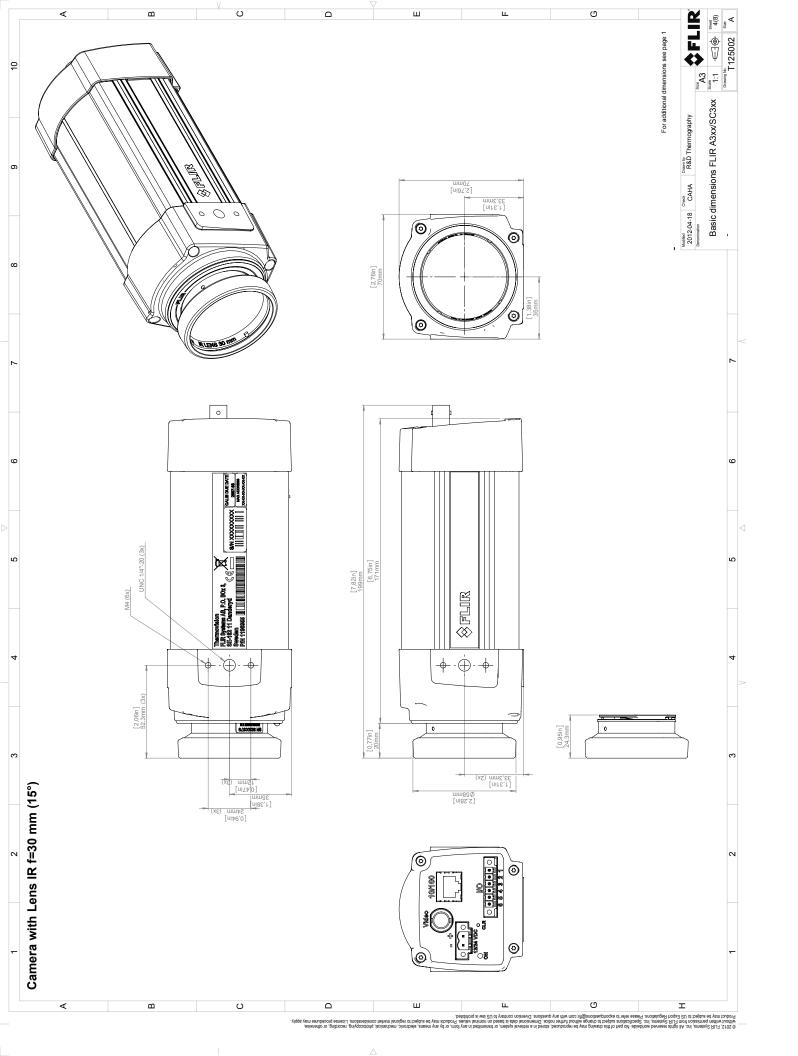
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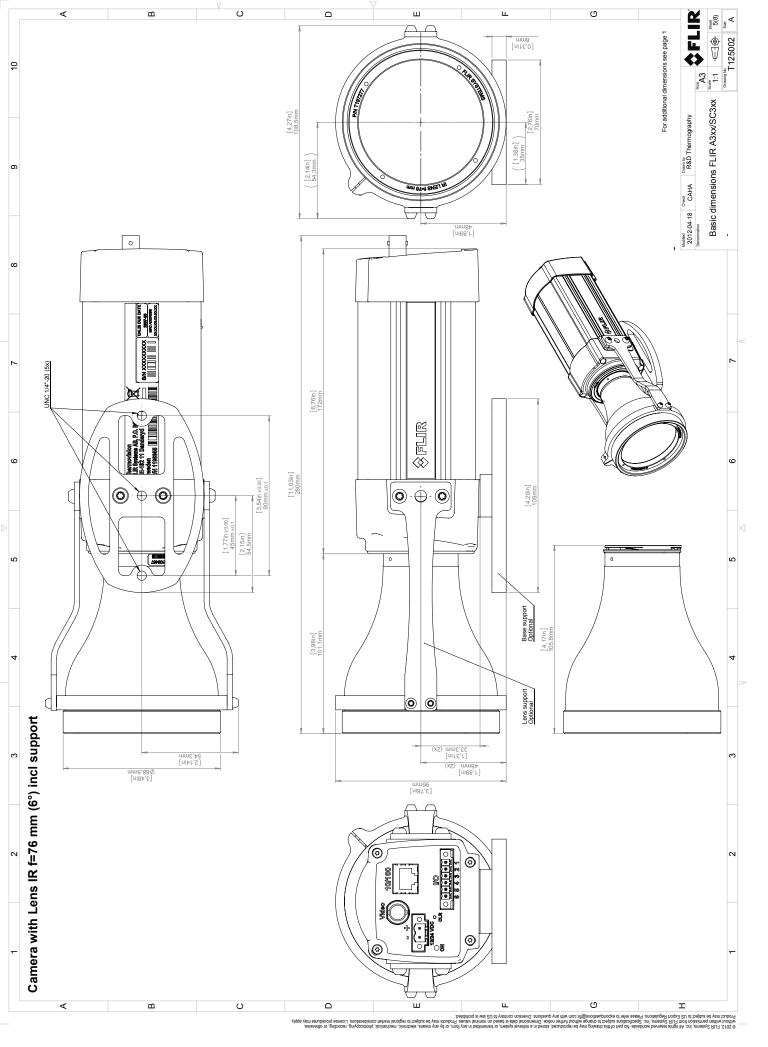
- T197000; High temp. option +1200°C (+2192°F)
- 1910400: Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T911307ACC; Ethernet cable, CAT6, 2 m/6.6 ft, 1 screw connector
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- 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)
- . T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

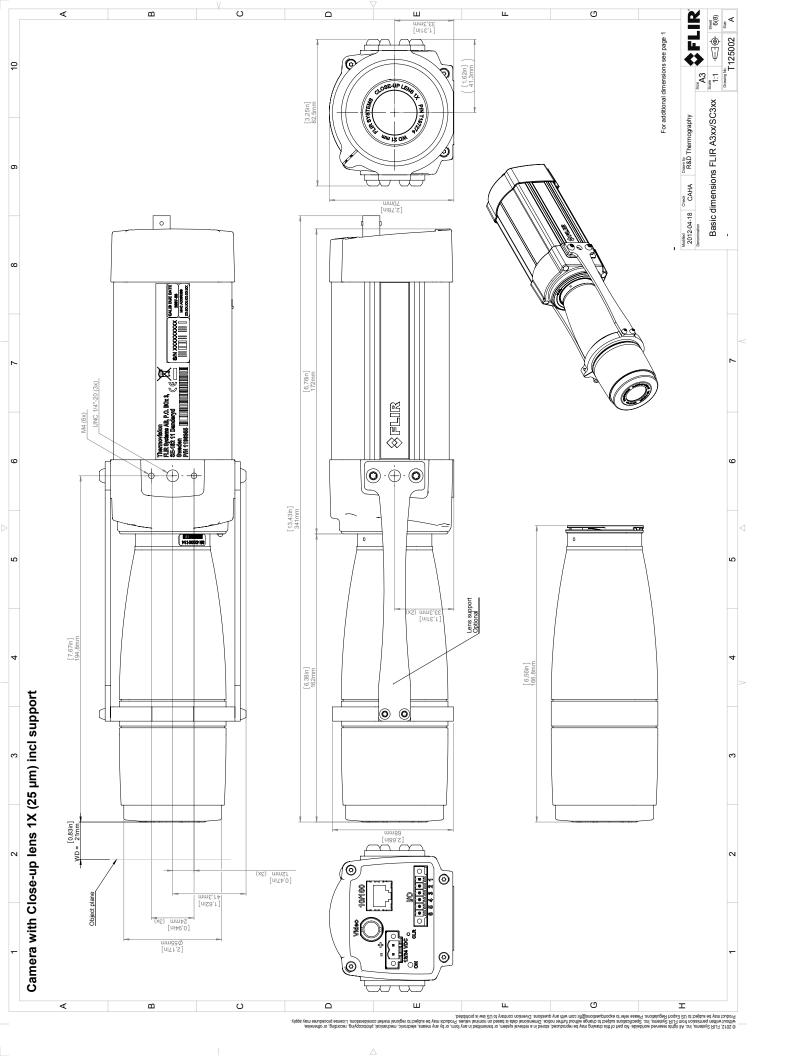


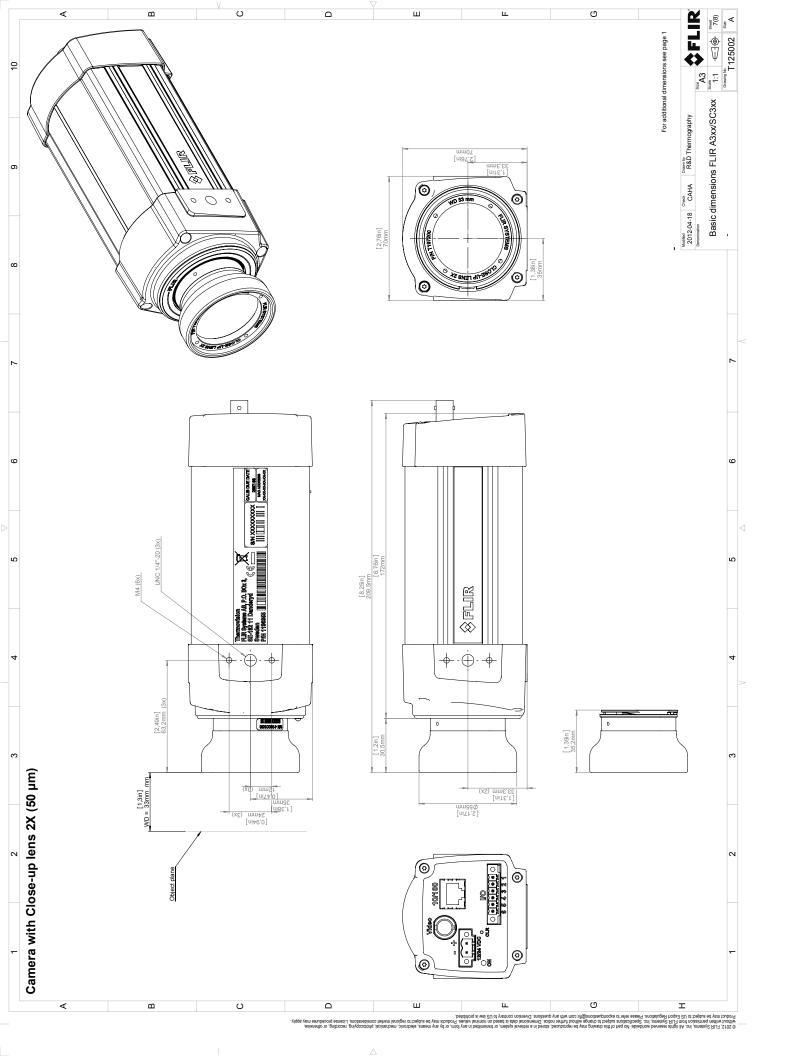


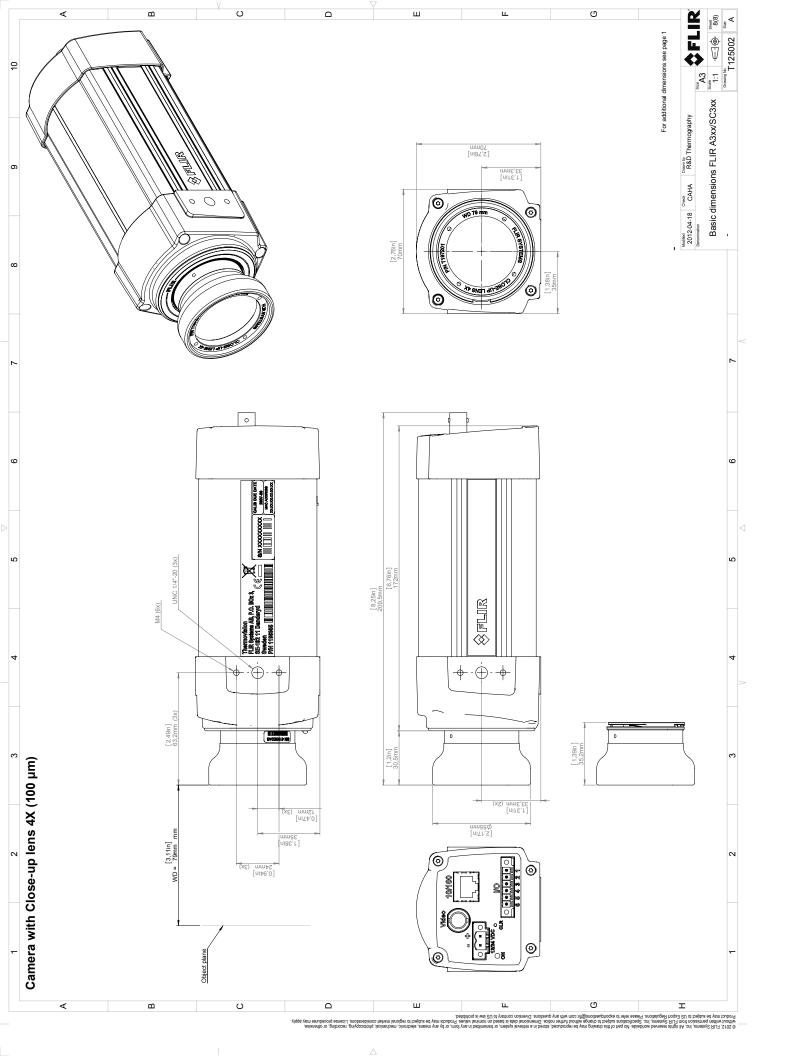




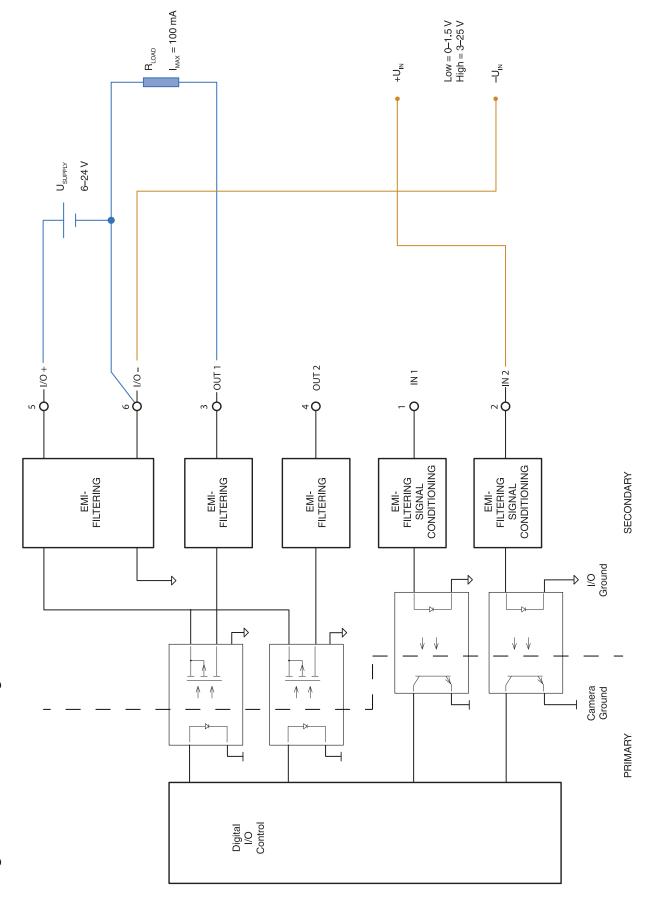








Digital I/O connection diagrams for FLIR A3xx/A6xx series





October 28, 2011

AQ115813

Certificate of Conformity

This is to certify that the System listed below has been designed and manufactured to meet the requirements, as applicable, of the following EU-Directives and corresponding harmonising standards. The systems consequently meet the requirements for the CEmark.

Directives:

Directive 2004/108/EC;

Electromagnetic Compatibility

Directive 2006/95/EC;

"Low voltage Directive" (Power Supply)

Directive 2002/96/EC

Waste electrical and electronic equipment; WEEE

(As applicable)

Standards:

Emission:

EN 61000-6-3; Electromagnetic Compatibility

Generic standards - Emission

Immunity:

EN 61000-6-2; Electromagnetic Compatibility;

Generic standards - Immunity

Safety (Power Supply):

EN 60950

(or other)

Safety of information technology

equipment

System:

FLIR A3xx Series

FLIR Systems AB Quality Assurance

Olof Gawell Director