

# FLIR A325sc

# P/N: 48001-1001

#### Copyright

© 2019, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### **Document identity**

Publ. No.: 48001-1001 Commit: 35207 Language: en-US Modified: 2016-04-27 Formatted: 2019-05-02

#### Website

http://www.flir.com

# **Customer support**

http://support.flir.com

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



#### **General description**

The FLIR A325sc is an excellent choice for those working in R&D and need high frame rates but for whom  $320 \times 240$  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



# FLIR A325sc

**P/N: 48001-1001** © 2019, FLIR Systems, Inc. #48001-1001; r. 35207; en-US

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		
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  Reflected apparent temperature correction  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  Measurement corrections  Global object parameters  Ethernet  Ethernet  Control and image  Ethernet, type  Gigabit Ethernet  Ethernet, standard  IEEE 802.3  Ethernet, connector type  RJ-45  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, Itp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP  Digital input/output  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 IVO, isolation voltage  Digital IVO, siolation voltage  Digital IVO, siopply voltage  6-24 VDC, max. 200 mA		20 10 1 120 0 ( 110 12 10 1 )
Automatic, based on inputs for distance, atmospheric transmission correction  Automatic, based on signals from internal sensors  Emissivity correction  Peffected apparent temperature correction  Automatic, based on signals from internal sensors  Emissivity 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  Measurement corrections  Ethernet  Ethernet  Ethernet  Ethernet  Ethernet, type  Gigabit Ethernet  Ethernet, standard  IEEE 802.3  Ethernet, connector type  RJ-45  Ethernet, connector type  Ethernet, image streaming  16-bit 320 x 240 pixels @ 60 Hz  Signal linear  Signal 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/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, purpose  Digital loutput, purpose  Digital loutput, purpose  Digital loutput, purpose  Digital I/O, isolation voltage  Digital I/O, spply voltage  Order atmospharia.	Accuracy	±2°C (±3.6°F) or ±2% of reading
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  Measurement corrections Global object parameters  Ethernet Ethernet Ethernet Ethernet, type Gigabit Ethernet Ethernet, standard IEEE 802.3 Ethernet, connector type RJ-45 Ethernet, communication TCP/IP socket-based FLIR proprietary and GenlCam protocol Ethernet, image streaming 16-bit 320 x 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 output, purpose Output to ext. device (programmatically set) Digital I/O, isolation voltage Digital I/O, sioplyy voltage G-24 VDC, max. 200 mA	Measurement analysis	·
Emissivity correction  Variable from 0.01 to 1.0  Reflected apparent temperature correction  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  Measurement corrections  Global object parameters  Ethernet  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 GenlCam protocol  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 output, purpose  Output to ext. device (programmatically set)  Digital I/O, isolation voltage  Digital I/O, isolation voltage  Digital I/O, supply voltage  G-24 VDC, max. 200 mA	Atmospheric transmission correction	·
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  Measurement corrections  Clobal object parameters  Ethernet  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 x 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 viput, purpose  Digital output, purpose  Digital output, purpose  Digital IVO, isolation voltage  Digital IVO, supply voltage  G-24 VDC, max. 200 mA	Optics transmission correction	_
temperature  External optics/windows correction  Automatic, based on input of optics/window transmission and temperature  Global object parameters  Ethernet  Ethernet  Ethernet, type  Ethernet, standard  Ethernet, connector type  Ethernet, connector type  Ethernet, communication  Ethernet, image streaming  16-bit 320 × 240 pixels @ 60 Hz  Signal linear  Temperature linear  Radiometric  GigE Vision and GeniCam compatible  Ethernet, protocols  TCP/IP socket-based FLIR proprietary and GeniCam protocol  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  2 opto-isolated, 0-1.5 V = low, 3-25 V = high  Digital output, purpose  Output to ext. device (programmatically set)  2 opto-isolated, ON = supply (max. 100 mA), OFF = open  Digital I/O, isolation voltage  Digital I/O, supply voltage  G-24 VDC, max. 200 mA	Emissivity correction	Variable from 0.01 to 1.0
transmission and temperature  Measurement corrections  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 output, purpose  Digital output, purpose  Digital output, purpose  Digital output  2 opto-isolated, O-1.5 V = low, 3-25 V = high  Digital output  2 opto-isolated, ON = supply (max. 100 mA), OFF = open  Digital I/O, isolation voltage  Digital I/O, supply voltage  6-24 VDC, max. 200 mA	Reflected apparent temperature correction	
Ethernet  Ethernet, type  Gigabit Ethernet  Ethernet, standard  Ethernet, connector type  RJ-45  Ethernet, communication  TCP/IP socket-based FLIR proprietary and GenlCam protocol  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 output, purpose  Output to ext. device (programmatically set)  Digital output  2 opto-isolated, 0-1.5 V = low, 3-25 V = high  Digital output  2 opto-isolated, ON = supply (max. 100 mA), OFF = open  Digital I/O, isolation voltage  500 VRMS  Gigabit Ethernet  Control and image  Gigabit Ethernet  IEEE 802.3  Idea (Start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically set)  2 opto-isolated, O-1.5 V = low, 3-25 V = high  Digital I/O, isolation voltage  500 VRMS	External optics/windows correction	• • • • • • • • • • • • • • • • • • • •
Ethernet, type  Ethernet, type  Gigabit Ethernet  Ethernet, standard  Ethernet, connector type  RJ-45  Ethernet, communication  TCP/IP socket-based FLIR proprietary and GenlCam protocol  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, purpose  Output to ext. device (programmatically set)  Digital output  Digital output  2 opto-isolated, ON = supply (max. 100 mA), OFF = open  Digital I/O, isolation voltage  Digital I/O, supply voltage  6-24 VDC, max. 200 mA	Measurement corrections	Global object parameters
Ethernet, type  Ethernet, standard  Ethernet, connector type  RJ-45  Ethernet, communication  TCP/IP socket-based FLIR proprietary and GenlCam protocol  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 output, purpose  Digital output, purpose  Digital output, purpose  Digital output, purpose  Digital output  2 opto-isolated, O-1.5 V = low, 3-25 V = high  Digital output OFF = open  Digital I/O, isolation voltage  500 VRMS  Digital I/O, supply voltage  6-24 VDC, max. 200 mA	Ethernet	
Ethernet, standard  Ethernet, connector type  RJ-45  Ethernet, communication  TCP/IP socket-based FLIR proprietary and GenlCam protocol  Ethernet, image streaming  16-bit 320 × 240 pixels @ 60 Hz Signal linear Temperature linear Temperature linear 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 output, purpose  Output to ext. device (programmatically set)  Digital output  Digital output  2 opto-isolated, ON = supply (max. 100 mA), OFF = open  Digital I/O, isolation voltage  Digital I/O, supply voltage  6-24 VDC, max. 200 mA	Ethernet	Control and image
Ethernet, connector type  Ethernet, communication  TCP/IP socket-based FLIR proprietary and GenlCam protocol  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 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	Ethernet, type	Gigabit Ethernet
Ethernet, communication  TCP/IP socket-based FLIR proprietary and GenlCam protocol  Ithernet, image streaming  16-bit 320 × 240 pixels @ 60 Hz Signal linear Temperature linear Radiometric GigE Vision and GenlCam compatible  Ithernet, 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 output, purpose  Digital output, purpose  Digital output  2 opto-isolated, ON = supply (max. 100 mA), OFF = open  Digital I/O, isolation voltage  Digital I/O, supply voltage  6-24 VDC, max. 200 mA	Ethernet, standard	IEEE 802.3
Ethernet, image streaming  16-bit 320 × 240 pixels @ 60 Hz  Signal linear 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 output, purpose  Output to ext. device (programmatically set)  Digital output  2 opto-isolated, O-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	Ethernet, connector type	RJ-45
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 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, communication	
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
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 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		Temperature linear
ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP  Digital input/output  Digital input, purpose		GigE Vision and GenICam compatible
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, protocols	ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour),
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	
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, purpose	control, (stream on/off), Input ext. device
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	2 opto-isolated, 0-1.5 V = low, 3-25 V = high
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



# FLIR A325sc

P/N: 48001-1001

© 2019, FLIR Systems, Inc. #48001-1001; r. 35207; en-US

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 × 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
- 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 1x (25  $\mu$ m) 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

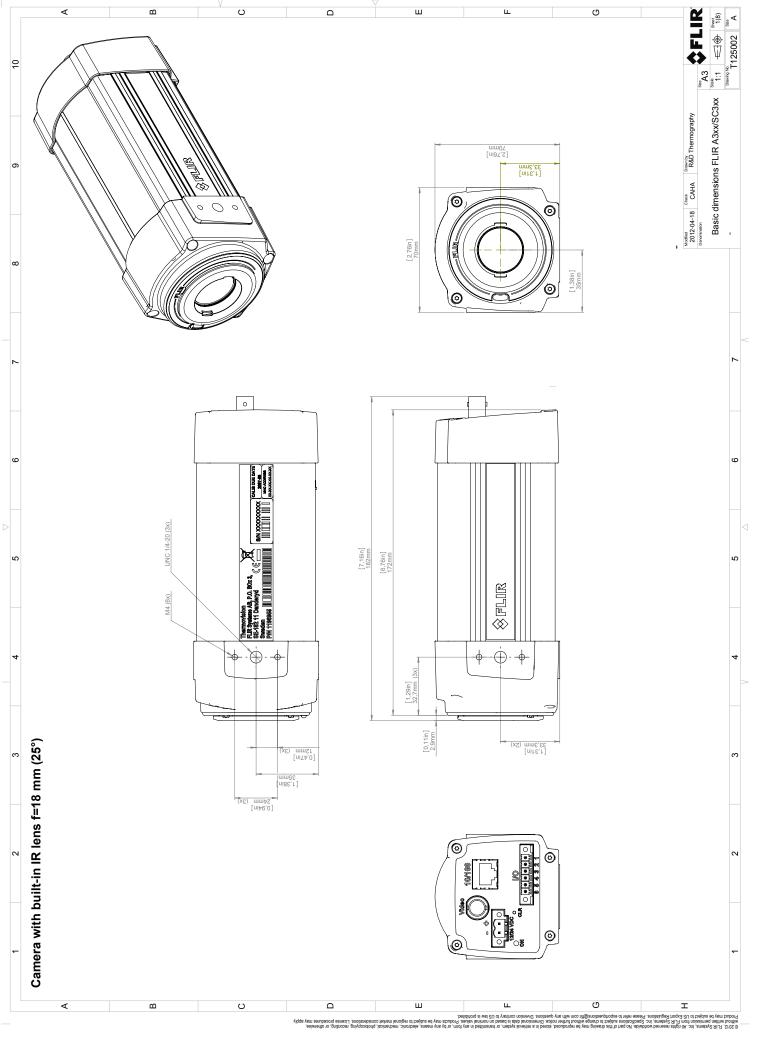
# **\$FLIR**°

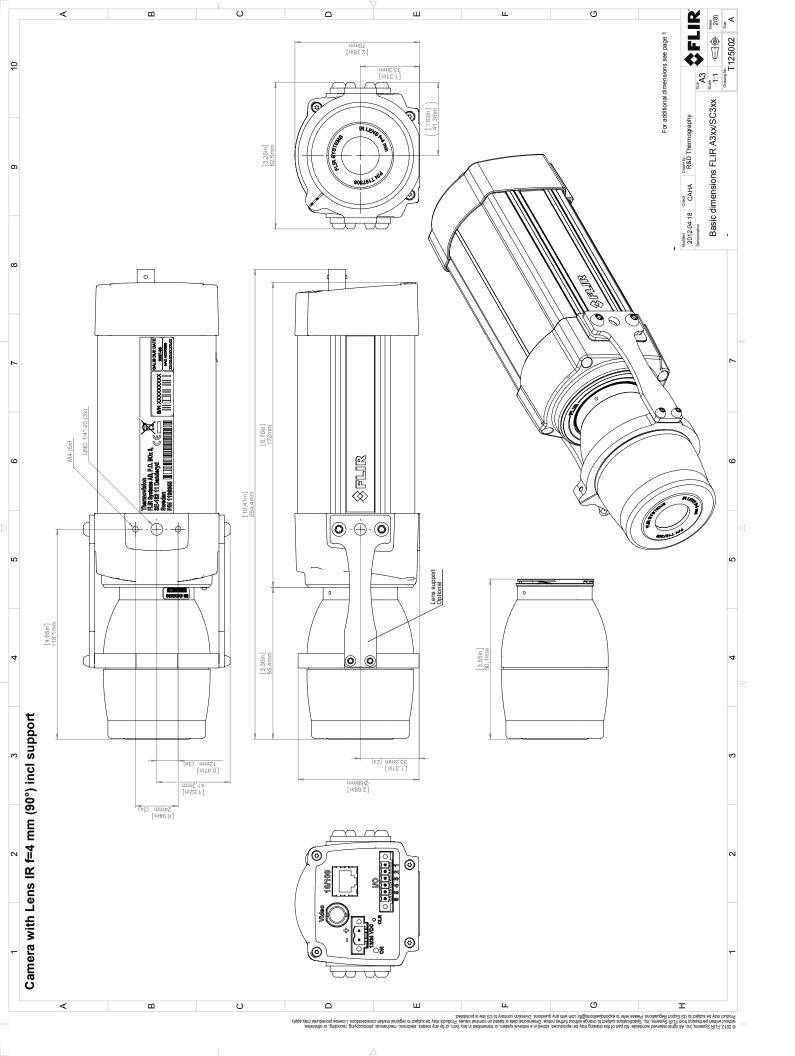
# FLIR A325sc

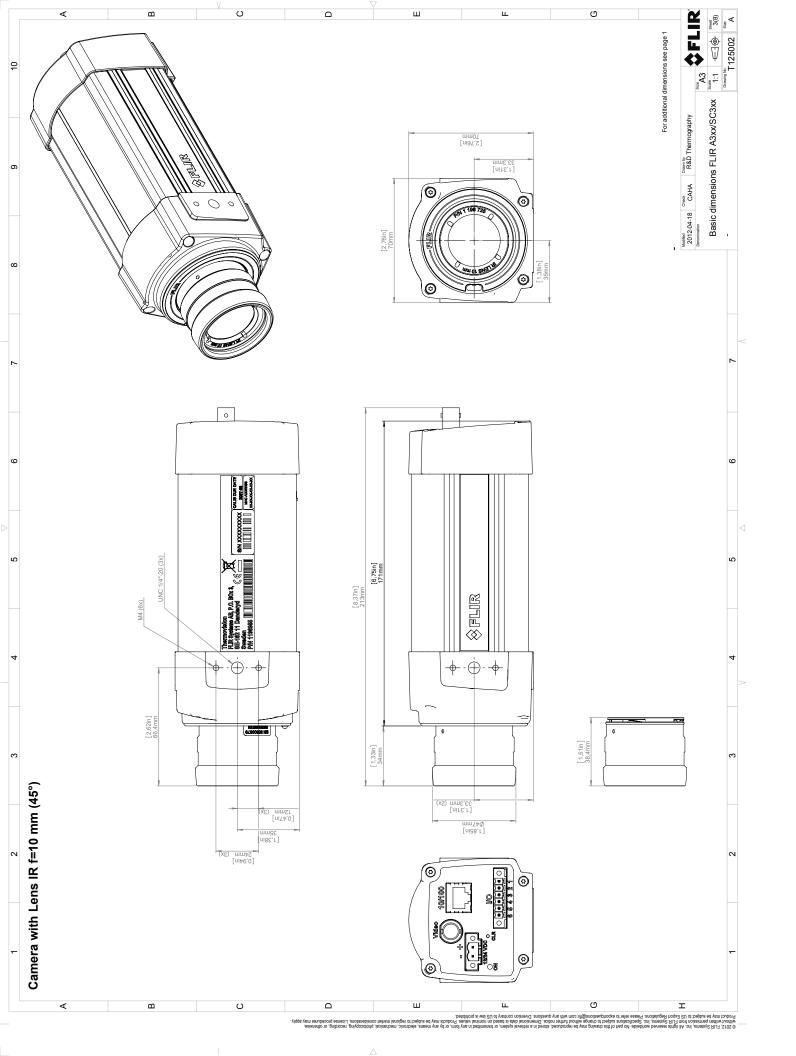
P/N: 48001-1001

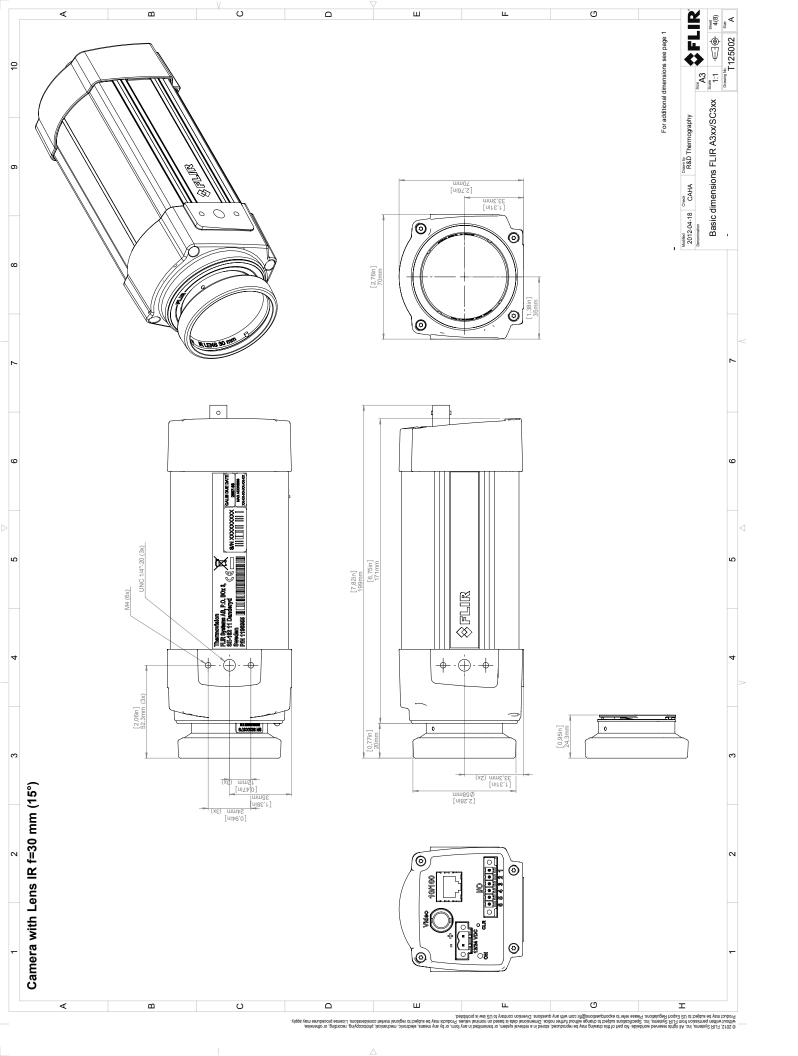
© 2019, FLIR Systems, Inc. #48001-1001; r. 35207; en-US

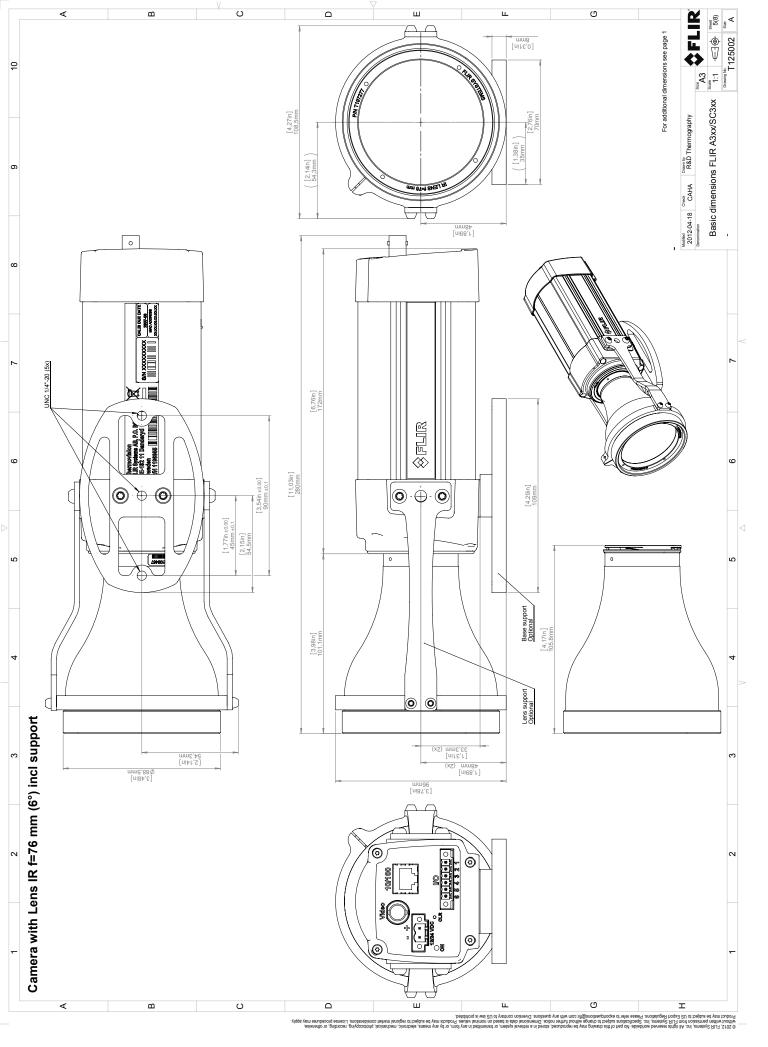
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- 1910400; Power cord EU
- 1910402: Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; 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
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T197214; Close-up 2× (50 μm) incl. case
- T197215; Close-up 4× (100 μm) incl. case
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T300083; FLIR Thermal Studio (incl. license key/QR code)
- 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
- 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

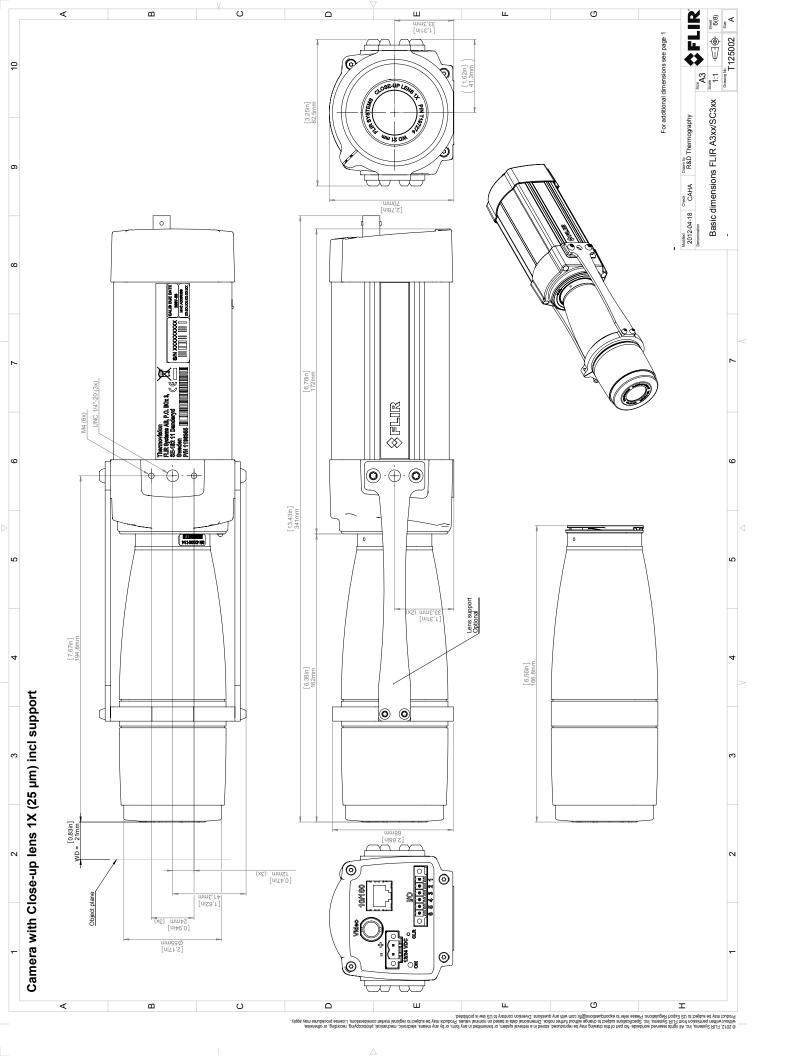


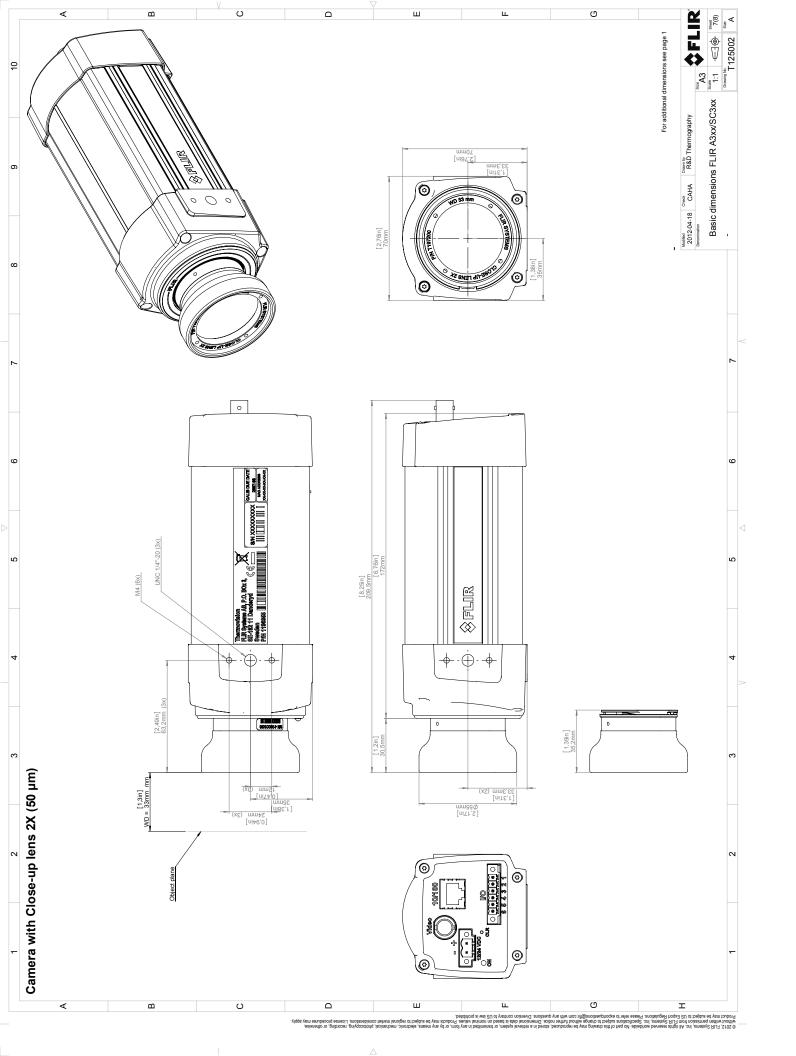


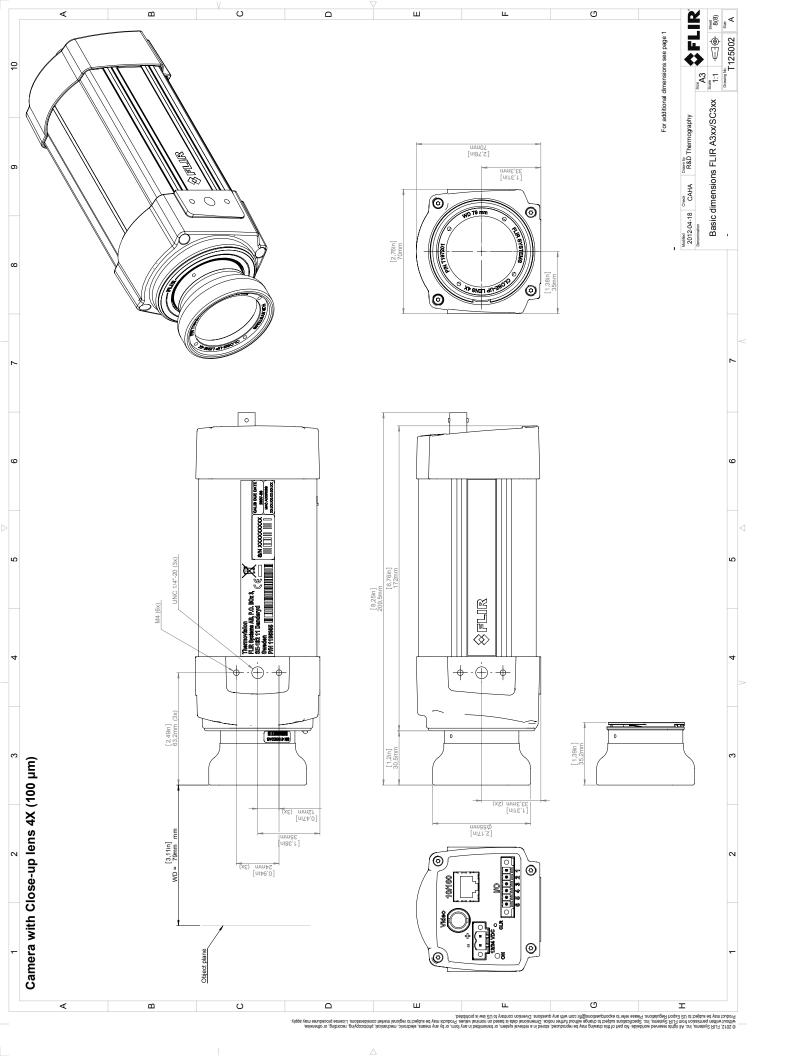




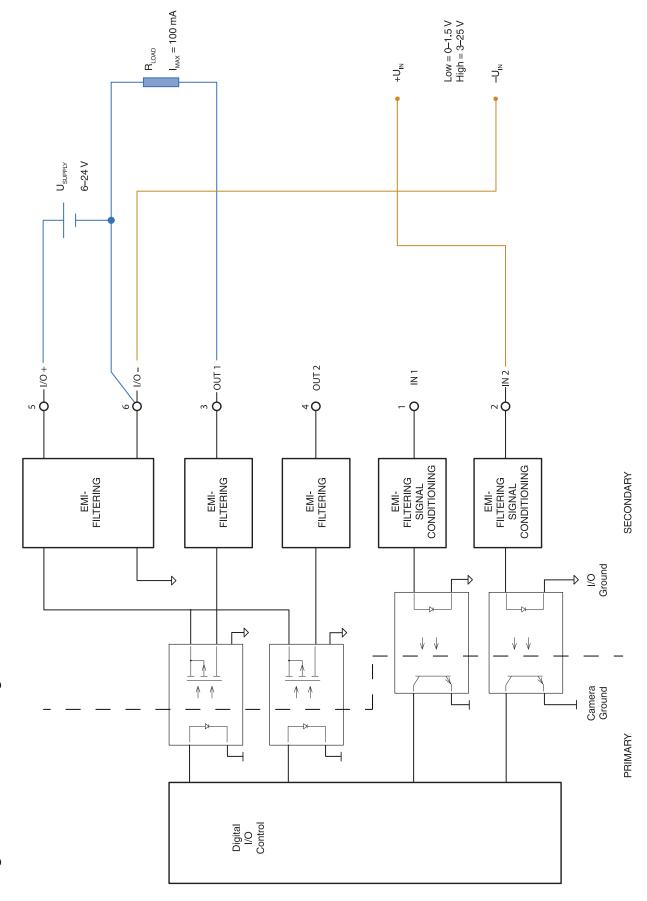








Digital I/O connection diagrams for FLIR A3xx/A6xx series





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

Immunity:

EN 61000-6-2:2005

Generic standards – Emission Electromagnetic Compability

Generic standards - Immunity

Safety (Power supply):

EN 60950-1

Information technology equipment

**FLIR Systems AB**Quality Assurance

Lea Dabiri

**Quality Manager**