



Technical Data

FLIR A615 25°

Part number:

55001-0102

Copyright

© 2014, 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.

May 27, 2014, 06:41 PM

Corporate Headquarters

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
Telephone: +1-503-498-3547

Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Legal disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply.

Information and equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.



General description

The FLIR A615 camera has features and functions that make it the natural choice for anyone who uses PC software to solve problems and needs 640 × 480 pixel resolution. Among its main features are GigE Vision™ and GenICam™ compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon. The camera is equipped with the standard 25° lens.

Key features:

- Affordable
- GigE compliant
- GenICam compliant
- Trigg/synchronization/GPIO
- 16-bit 640 × 480 images @ 50 Hz, signal, temperature linear, and radiometric
- Windowing mode: 640 × 240 @ 100 Hz or 640 × 120 @ 200 Hz
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox
- Open and well described TCP/IP protocol for control and set-up

Typical applications:

- High-end infrared machine vision that needs temperature measurement
- Slag detection
- Food processing
- Electronics testing
- Power resistor testing
- Automotive

Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19° (31° diagonal)
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

Detector data

Detector type	Focal Plane Array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

Measurement

Object temperature range	–40°C to +150°C (–40°F to +302°F) 100 to +650°C (+212 to +1202°F) 300 to +2000°C (+572 to +3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading



FLIR A615 25°

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

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
Measurement corrections	Global object parameters

USB

USB	Control and image
USB, standard	USB 2 HS
USB, connector type	USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz - Signal linear - Temperature linear - Radiometric
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

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 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz - Signal linear - Temperature linear - Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, 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 ctrl. (Stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	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

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)
-----------------------------	---------------------------------



FLIR A615 25°

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Environmental data

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 30 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)

Physical data

Weight	0.90 kg (1.98 lb.)
Camera size (L x W x H)	216 x 73 x 75 mm (8.5 x 2.9 x 3.0 in.)
Camera size, excl. lens (L x W x H)	203 x 73 x 75 mm (8.0 x 2.9 x 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 x M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at http://support.flir.com

Shipping information

- Infrared camera with lens
- Cardboard box
- Ethernet cable
- FLIR Tools download card
- Mains cable
- Power cable, pig-tailed
- Power supply
- Printed
- Printed documentation
- USB cable
- User documentation CD-ROM
- Utility CD-ROM

Optional Accessories

- T197914 IR lens, f=41.3 mm (15°) with case
- T197922 IR lens, f=24.6 mm (25°) with case
- T197915 IR lens, f=13.1 mm (45°) with case
- T198059 Close-up IR lens, 2.9x (50 µm) with case
- T198060 Close-up IR lens, 5.8x (100 µm) with case
- T198065 IR lens, f=6.5 mm (80°) with case
- T198165 IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T198066 Close-up IR lens, 1.5x (25 µm) with case
- 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
- 1910423 USB cable Std A <-> Mini-B
- T951004ACC Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC Power cable, pigtailed
- T197871ACC Hard transport case for A3xx/A6xx series
- T197870ACC Cardboard box for A3xx/A6xx series
- T126889ACC Filter holder for A6xx lenses

Optional Software

- T198584 FLIR Tools
- T198583 FLIR Tools+ (license only)
- DSW-10000 FLIR IR Camera Player
- T198567 ThermoVision™ System Developers Kit Ver. 2.6
- T198566 ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

T197914; IR lens, f=41.3 mm (15°) with case



General description

The 15° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

Technical data

Field of view (FOV)	15° x 11° (19° diagonally)
Minimum focus distance	500 mm (19.69 in.)
Focal length	41.3 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Weight	0.190 kg (0.419 lb.)
Size (L x D)	47 x 67 mm (1.85 x 2.64 in.)
Front lens diameter	52 mm (2.05 in.)

Shipping information

- Lens
- Lens case
- Front lens cap
- Rear lens cap

v1.03

T197922; IR lens, f=24.6 mm (25°) with case



General description

The standard 25° lens is suitable for the majority of applications.

Technical data

Field of view (FOV)	25° x 19° (31° diagonally)
---------------------	----------------------------

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Technical data

Minimum focus distance	250 mm (9.84 in.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.69 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Weight	0.160 kg (0.353 lb.)
Size (L x D)	41 x 67 mm (1.61 x 2.64 in.)
Front lens diameter	32 mm (1.26 in.)

Shipping information

- Lens
- Lens case
- Front lens cap
- Rear lens cap

v1.03

T197915; IR lens, f=13.1 mm (45°) with case



General description

This wide angle lens has a field of view almost double that of the standard 25° lens. Perfect for wide or tall targets or when working in confined areas.

Technical data

Field of view (FOV)	45° x 34° (55° diagonally)
Minimum focus distance	150 mm (5.91 in.)
Focal length	13.1 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Weight	0.209 kg (0.461 lb.)
Size (L x D)	50 x 67 mm (1.97 x 2.64 in.)
Front lens diameter	30 mm (1.18 in.)

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Shipping information

- Lens
- Lens case
- Front lens cap
- Rear lens cap

v1.04

T198059; Close-up IR lens, 2.9x (50 µm) with case



General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

Technical data

Field of view (FOV)	32 × 24 mm (40 mm diagonally)
Magnifying factor	2.9x
Working distance	84 mm
Depth of field	0.65 mm
Focal length	78 mm
Spatial resolution (IFOV)	50 µm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens
Weight	0.197 kg (0.43 lb.)
Size (L × D)	32 × 67 mm
Front lens diameter	53 mm

Shipping information

- Lens
- Front lens cap
- Rear lens cap
- Case
- Instruction for mounting close-up lenses

v1.02

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

T198060; Close-up IR lens, 5.8× (100 μm) with case



General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

Technical data

Field of view (FOV)	64 × 48 mm (80 mm diagonally)
Magnifying factor	5.8×
Working distance	172 mm
Depth of field	2.8 mm
Focal length	149 mm
Spatial resolution (IFOV)	100 μm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens
Weight	0.176 kg (0.39 lb.)
Size (L × D)	28 × 67 mm
Front lens diameter	53 mm

Shipping information

- Lens
- Front lens cap
- Rear lens cap
- Case
- Instruction for mounting close-up lenses

v1.03

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

T198065; IR lens, f=6.5 mm (80°) with case



General description

This wide angle lens has a field of view approximately three times that of the standard 25° lens. This lens is suitable for extremely cramped situations where the operator can not step farther back from the object.

Technical data

Field of view (FOV)	80° x 64.4° (92.8° diagonal)
Minimum focus distance	65 mm (2.6 in.)
Focal length	6.5 mm (0.26 in.)
Spatial resolution (IFOV)	2.62 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	5 (5 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	5%
Weight	0.428 kg (0.944 lb.)
Size (L x D)	126 x 67 mm (4.96 x 2.64 in.)
Front lens diameter	25 mm 0.98 in.)

Shipping information

- Lens
- Lens case
- Front lens cap
- Rear lens cap

v1.02

T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc



General description

The 7° lens is a popular accessory and provides 3.6× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Technical data

Field of view (FOV)	7° × 5.3° (8.7° diagonally)
Minimum focus distance	2.0 m (6.6 ft.)
Focal length	88.9 mm (3.5 in.)
Spatial resolution (IFOV)	0.19 mrad
Lens identification	Automatic
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Weight	0.88 kg (1.94 lb.)
Weight, lens	0.71 kg (1.57 lb.)
Size (L × D)	96 × 126 mm (3.78 × 4.96 in.), excluding support
Front lens diameter	96 mm (3.78 in.)

Shipping information

- Lens
- Lens case
- Front lens cap
- Rear lens cap
- Mounting support
- Lens mounting instructions

v1.01

T198066; Close-up IR lens, 1.5x (25 µm) with case



General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

Technical data

Field of view (FOV)	16 × 12 mm (20 mm diagonally)
Magnifying factor	1.5x
Working distance	46 mm
Depth of field	0.21 mm
Focal length	62 mm
Spatial resolution (IFOV)	25 µm
Lens identification	Automatic
F-number	1.1
Number of lenses	4 (4 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	< 3%
Weight	0.48 kg (1.1 lb.)

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Technical data

Size (L × D)	86 × 67 mm
Front lens diameter	52 mm

Shipping information

- Lens
- Front lens cap
- Rear lens cap
- Case
- Instruction for mounting close-up lenses

v1.0

1910400; Power cord EU



General description

Power cord (EU) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series. The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).

Technical data

AC operation	250 V 16 A
Cable length	2.0 m (6.6 ft.)
Color	Black

v1.03

1910401; Power cord US



General description

Power cord (US) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series. The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).

Technical data

AC operation	125 V 15 A
Cable length	2.0 m (6.6 ft.)
Color	Black

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Technical data

v1.02

1910402; Power cord UK



General description

Power cord (UK) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series. The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).

Technical data

AC operation	250 V 13 A
Cable length	2.0 m (6.6 ft.)
Color	Black

v1.02

T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc



General description

Power supply, incl. multi plugs

Technical data

AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	2000 mA at 12 VDC
Size (L x W x H)	81 x 47 x 34 mm (3.2 x 1.9 x 1.3 in.)
Cable length	1.5 m (4.9 ft.)
Color	Black

Shipping information

- Power supply including cable
- EU plug
- UK plug
- US plug
- AU plug

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Shipping information

v1.01

T911182; Power supply for A3xx f, IP66



General description

Power supply for A3xx f cameras with IP 66 classification.

Technical data

AC operation	100–240 V, 50–60 Hz, 0.9–0.2 A
DC operation	Output: 24 VDC 2.0 A
Power	50 W
Operating temperature range	–30°C to +50°C (–22°F to +122°F)
Weight	0.850 kg (1.9 lb.)
Size (L × W × H)	150 x 101 x 47 mm (5.9 x 3.98 x 1.85 in.)

v1.0

1910423; USB cable Std A <-> Mini-B



General description

This cable is used to connect the infrared camera with a computer, using the USB protocol.

Technical data

Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B

v1.02

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.



General description

This cable is used to connect the infrared camera to Ethernet.

Technical data

Weight	80 g (2.8 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-6

Shipping information

EAN-13	7332558006320
UPC-12	845188006679

v1.0

1910586ACC; Power cable, pigtailed



General description

This cable is used, when a separate power supply is used (not the one supplied with the camera)

Technical data

Weight	75 g (2.6 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	Pigtailed
Color	Black

Shipping information

EAN-13	7332558006375
UPC-12	845188006723

v1.0

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

T197871ACC; Hard transport case for A3xx/A6xx series



General description

Rugged, watertight plastic case for FLIR A3xx, A3xxsc, A6xx and A6xxsc series. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

Technical data

Weight	3.1 kg (6.8 lb.)
Size (L x W x H)	463 x 346 x 172 mm (18.2 x 13.6 x 6.8 in.)
Color	Black

Shipping information

- Hard transport case

Packaging, weight	3.45 kg (7.6 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008331
UPC-12	845188008680

v1.03

T197870ACC; Cardboard box for A3xx/A6xx series



General description

Cardboard box with plastic handle for the A3xx, A3xxsc, A6xx and A6xxsc series. Holds all items neatly.

Technical data

Weight	0.86 kg (1.9 lb.)
Size (L x W x H)	455 x 300 x 165 mm (17.9 x 11.8 x 6.5 in.)
Material	Cardboard

Shipping information

- Transport case

Packaging, weight	1.25 kg (2.76 lb.)
-------------------	--------------------

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Shipping information

Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558008324
UPC-12	845188008673

v1.03

T126889ACC; Filter holder for A6xx lenses



General description

The filter holder makes it possible to use filters with FLIR A6xx and FLIR A6xx sc series cameras. A filter is glued into the filter holder, and the filter holder is then mounted on the lens by screwing the holder onto the rear of the lens.

Dimensions for filter:

Diameter: 25.4 mm +0.1/-0.15 mm (1 in. +0.004/-0.006 in.).

Maximum thickness: 1.0 mm (0.04 in.).

Minimum free filter area diameter: 24 mm (0.94 in.)

NOTE: Filter is not included.

Shipping information

- Cardboard box
- Filter holder
- Plastic bag
- Printed instruction

EAN-13	7332558007273
UPC-12	845188007645

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

T198584; FLIR Tools



General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=120>

Release notes

Version	FLIR Tools 4.1
New features	• --- News in 4.1: --- • Previous/next in Edit mode. • Clone in the Library. • Extract visual photo from a multispectral image. • Import *.mp4, *.seq, and *.csq files from the camera. • Playback/edit *.seq and *.csq files. • Scale enhancement for the FLIR GF3xx series. • Auto resize of thumbnails during importing for the FLIR T6xx series. • Grouping/ungrouping now added. • Various bug fixes.

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Shipping information

- Digital download, or
- CD-ROM

System requirements

Operating system

- Windows XP, 32-bit
- Windows Vista, 32-bit
- Windows 7, 32-bit
- Windows 7, 64-bit
- Windows 8, 32-bit
- Windows 8, 64-bit

v1.0

T198583; FLIR Tools+ (license only)



General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download your copy of FLIR Tools+ here:

<http://support.flir.com/toolsplus>

Release notes

Version

FLIR Tools+ 4.1

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Release notes

New features

- --- News in 4.1: ---
- Previous/next in Edit mode.
- Clone in the Library.
- Extract visual photo from a multispectral image.
- Import *.mp4, *.seq, and *.csq files from the camera.
- Playback/edit *.seq and *.csq files.
- Scale enhancement for the FLIR GF3xx series.
- Auto resize of thumbnails during importing for the FLIR T6xx series.
- Grouping/ungrouping now added.
- Various bug fixes.

Shipping information

- FLIR Tools+ scratchcard

System requirements

Operating system

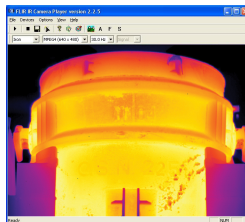
- Windows XP, 32-bit
- Windows Vista, 32-bit
- Windows 7, 32-bit
- Windows 7, 64-bit
- Windows 8, 32-bit
- Windows 8, 64-bit

Software requirements

- Office 2007, 32-bit
- Office 2010, 32-bit
- Office 2013, 32-bit

v1.0

DSW-10000; FLIR IR Camera Player



General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

Release notes

Version

2.3.3

P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Release notes

New features	--- News in 2.3.3 - Added latest device drivers (1.9.1.0). - Various bugfixes --- News in 2.2.7 - Added support for FLIR Ax5 series.
--------------	--

System requirements

Operating system	- Windows XP, 32-bit - Windows Vista, 32-bit/64-bit - Windows 7, 32-bit/64-bit
------------------	--

v1.04

T198567; ThermoVision™ System Developers Kit Ver. 2.6



General description

ThermoVision™ System Developers Kit

Key features:

- Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces.
- Gives the user full control of the camera.
- Allows the user to set alarm conditions and measurement functions in the camera
- Allows the user to define I/O functionality (FLIR A series).
- Based on ActiveX technology.
- Supports acquisition of images through FireWire™, Ethernet, and USB interfaces.
- Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpt).
- Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities.
- Allows 16-bit temperature linear outputs from FLIR A series cameras.
- Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc.
- Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces.

Users with licenses for the previous version can download a free upgrade via the following link:
<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62>

Release notes

Version	ThermoVision 2.6 SP2
New features	--- News in SP2: - Support for FLIR GF3XX series - Support for windowing in FLIR A615 and FLIR SC6x5 - Support for windowing in FLIR SC6x0 - Various bug fixes

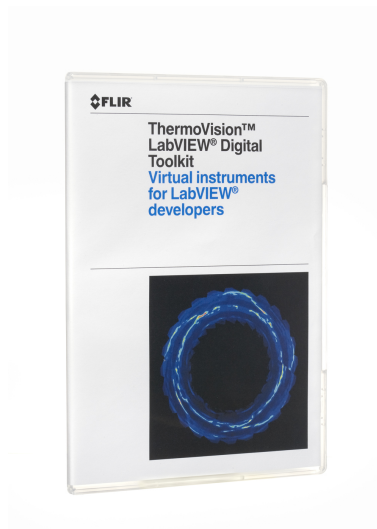
P/N: 55001-0102

© 2014, FLIR Systems, Inc.
All rights reserved worldwide.

Release notes

v1.0

T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3



General description

The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality. Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode. You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.

Key features:

- Set up communications between LabVIEW VI and a FLIR IR camera
- Capture and collect images via FireWire or Ethernet interfaces
- Adjust the camera configuration parameters and focus as you view a live image
- Control the camera calibration
- Send any other camera command to the camera
- Generate a true temperature image from a 16-bit image acquired using the camera's
- FireWire or Ethernet interfaces
- Close communications to the IR camera

Users with licenses for the previous version can download a free upgrade via the following link:
<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63>

Note: Only supports National Instrument 32-bit Labview

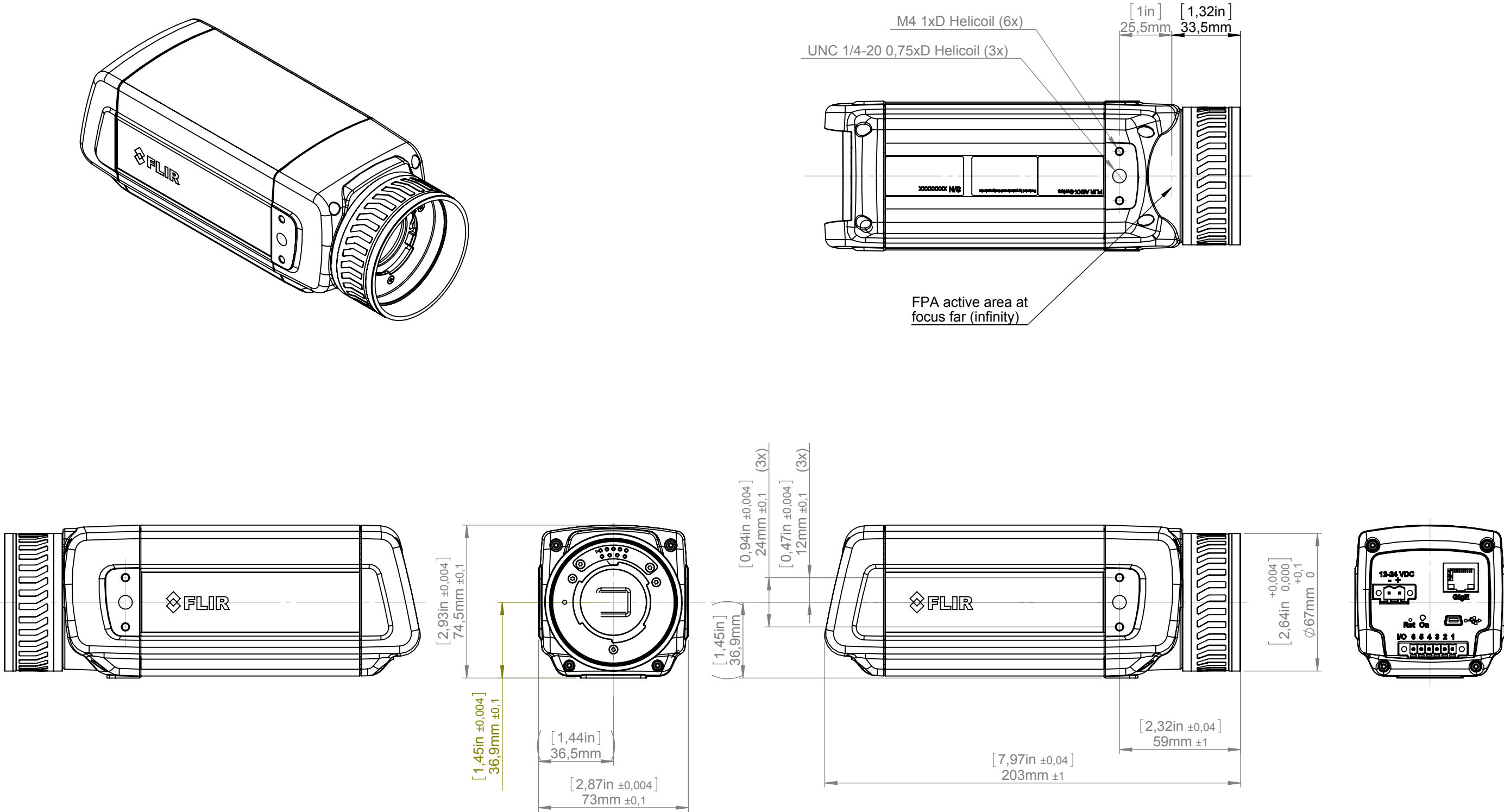
Release notes

Version	3.3
New features	• Windows 7 32- and 64-bit support • Support for FLIR A615 and FLIR SC6X5 (including windowing) • Support for windowing in FLIR SC660 • Various bug fixes • New example VIs

v1.0

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

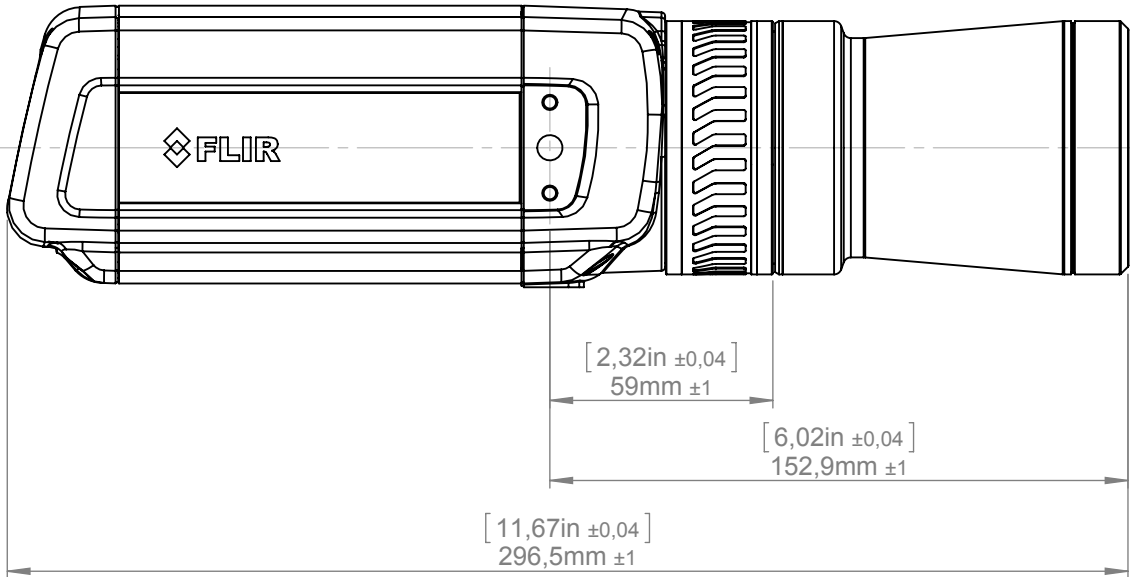
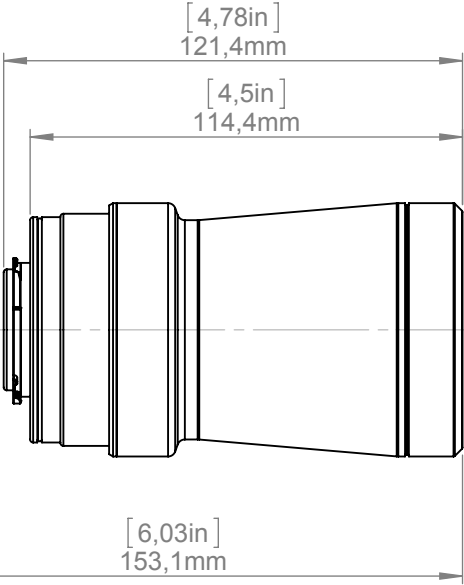
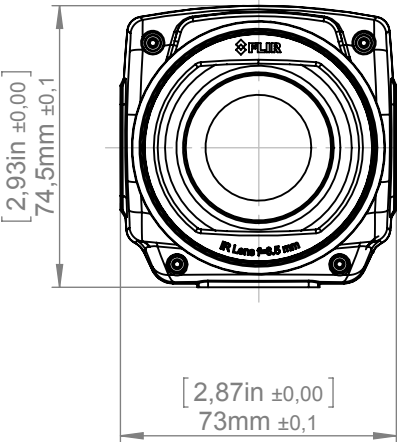
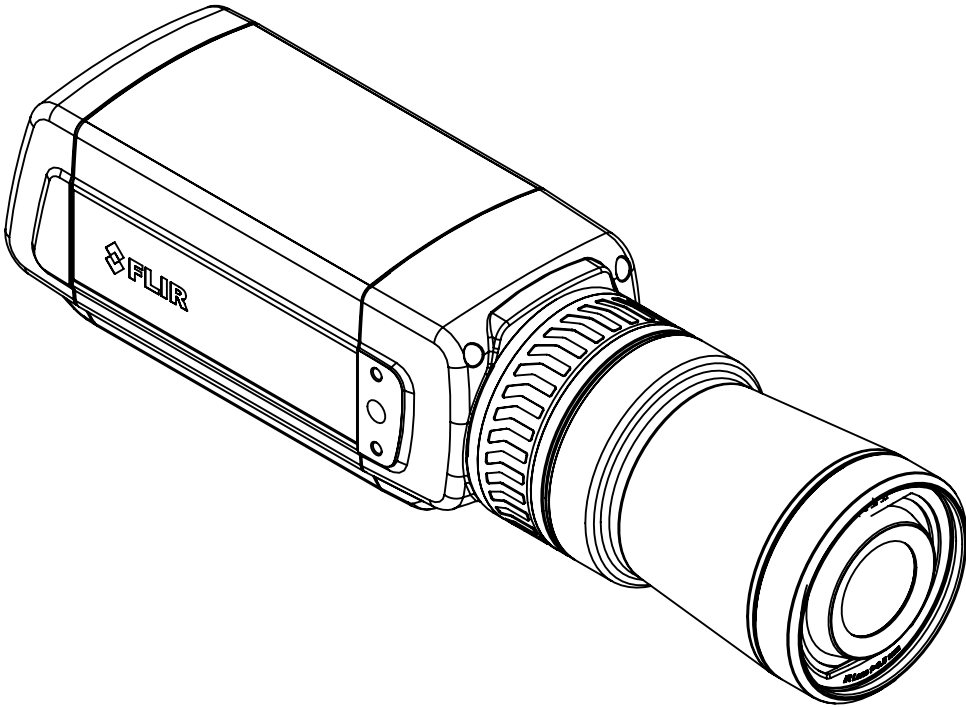
Camera housing



Modified 2012-04-18	Check CAHA	Drawn by R&D Thermography			
Denomination					
Basic dimensions FLIR A/SC 6xx			Size A3		Sheet 1(9)
			Scale 1:2		Size A
			Drawing No. T126925		

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

Camera with Lens IR f=6,5 mm (80°)

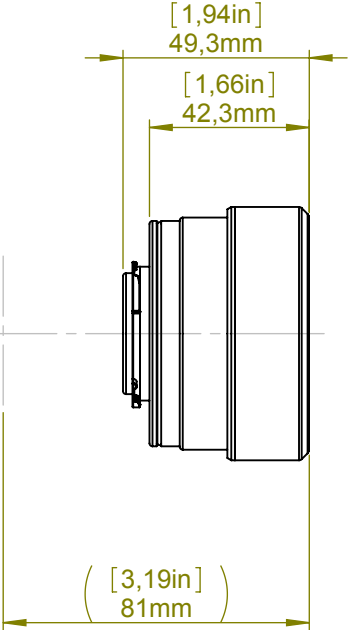
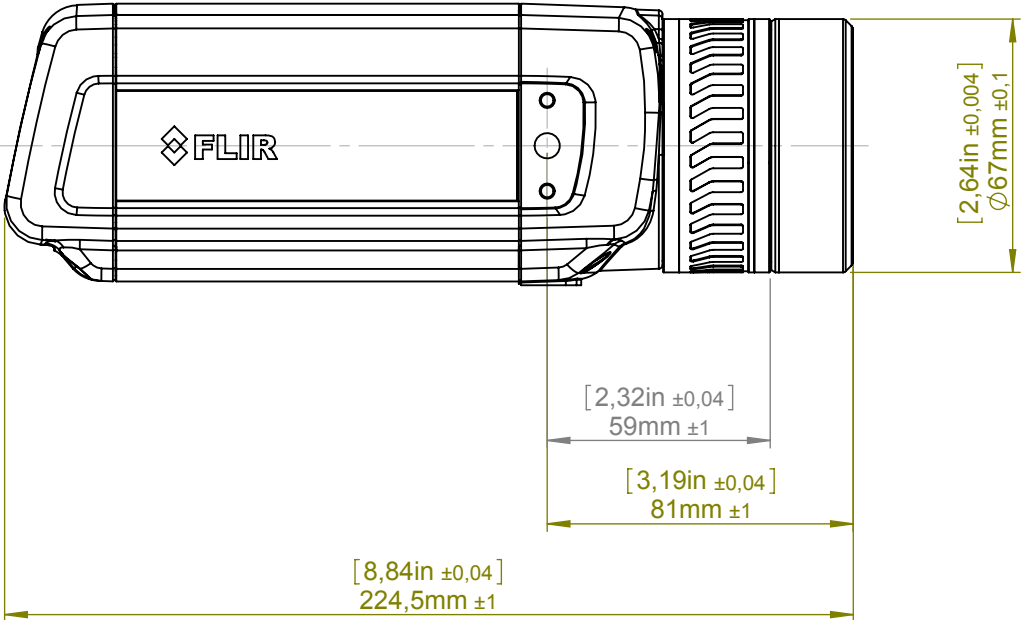
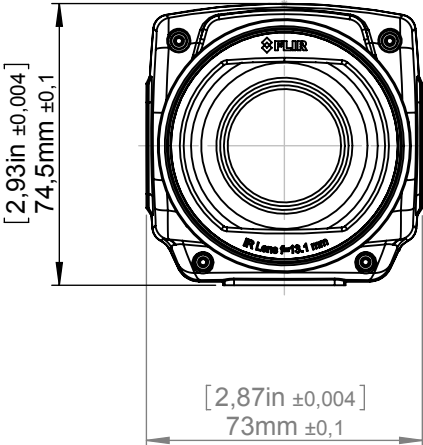
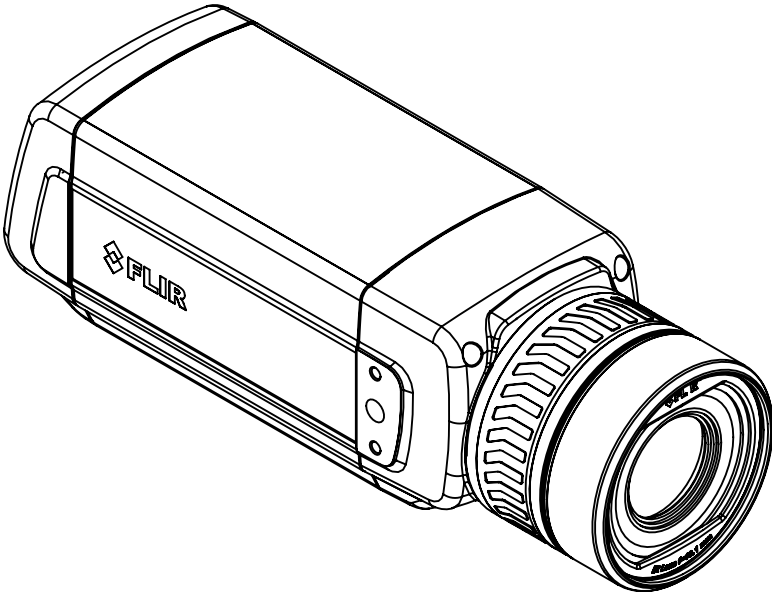


For additional dimensions see page 1

Modified 2012-04-18	Check CAHA	Drawn by R&D Thermography		
Denomination				
Basic dimensions FLIR A/SC 6xx			Size A3	
			Scale 1:2	 Sheet 2(9)
			Drawing No. T126925	
			Size A	

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

Camera with Lens IR f=13,1 mm (45°)

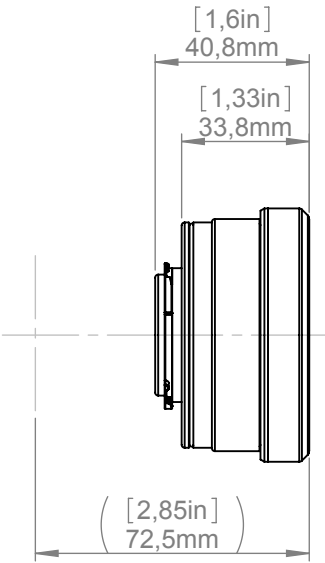
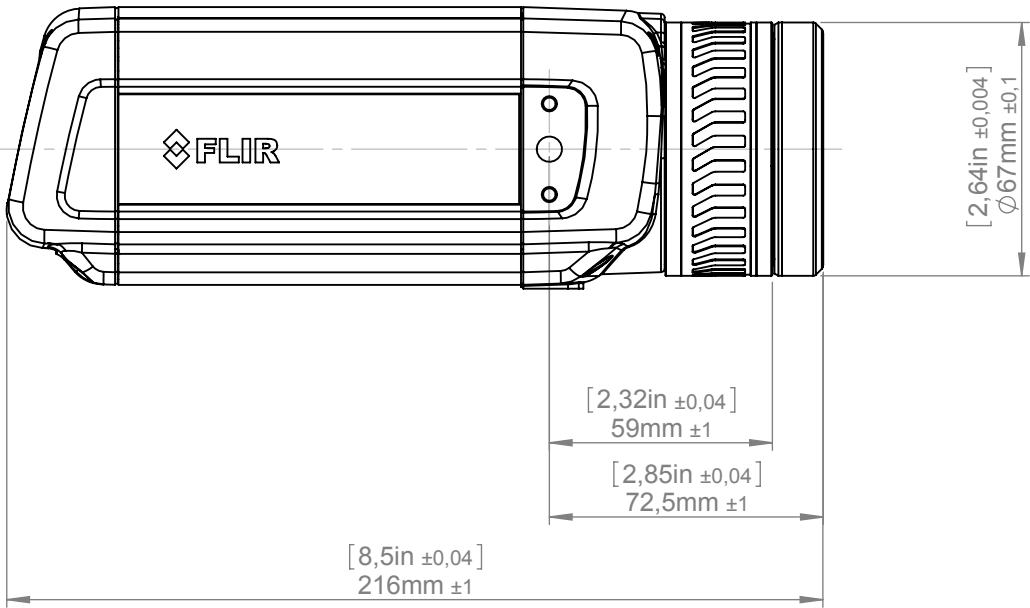
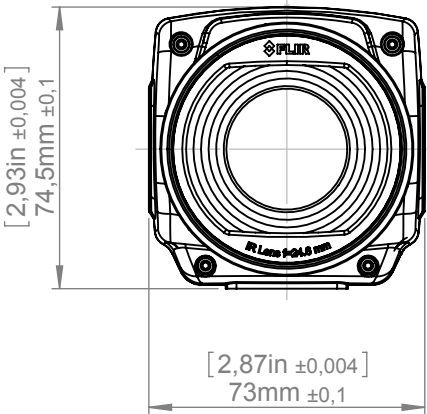
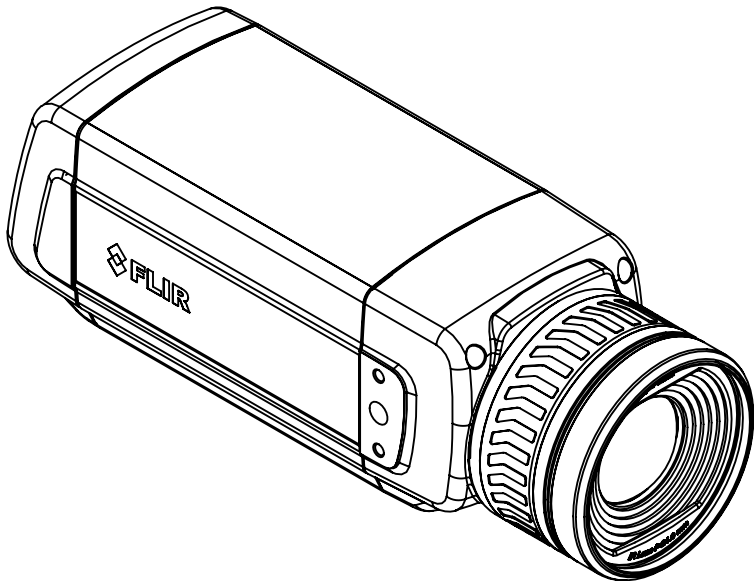


For additional dimensions see page 1

Modified 2012-04-18	Check CAHA	Drawn by R&D Thermography			
Denomination					
Basic dimensions FLIR A/SC 6xx			Size A3		Sheet 3(9)
			Scale 1:2		
			Drawing No. T126925		

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

Camera with Lens IR f=24,6 mm (25°)

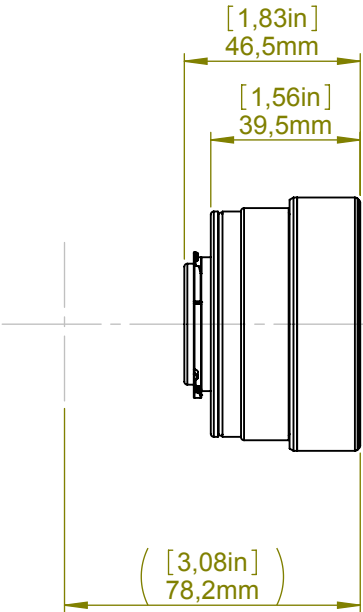
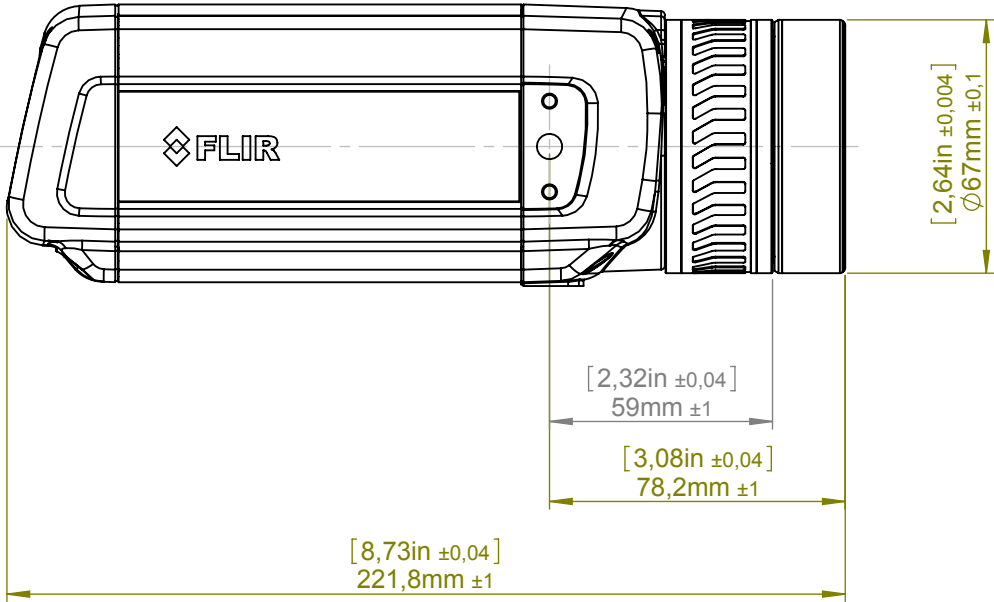
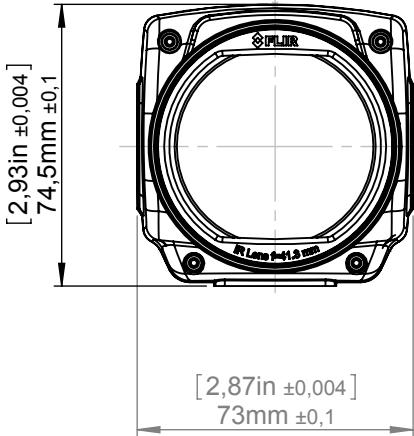
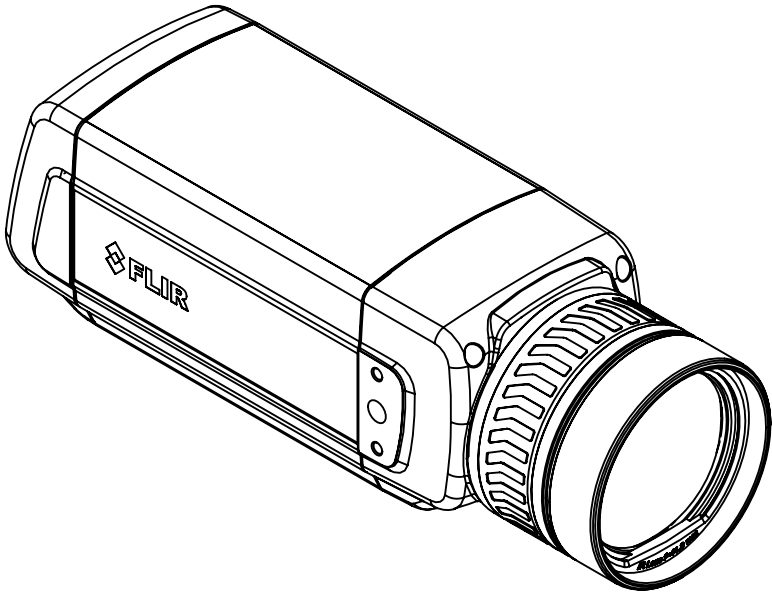


For additional dimensions see page 1

Modified 2012-04-18	Check CAHA	Drawn by R&D Thermography			
Denomination					
Basic dimensions FLIR A/SC 6xx			Size A3		Sheet 4(9)
			Scale 1:2		
			Drawing No. T126925		Size A

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

Camera with Lens IR f=41,3 mm (15°)

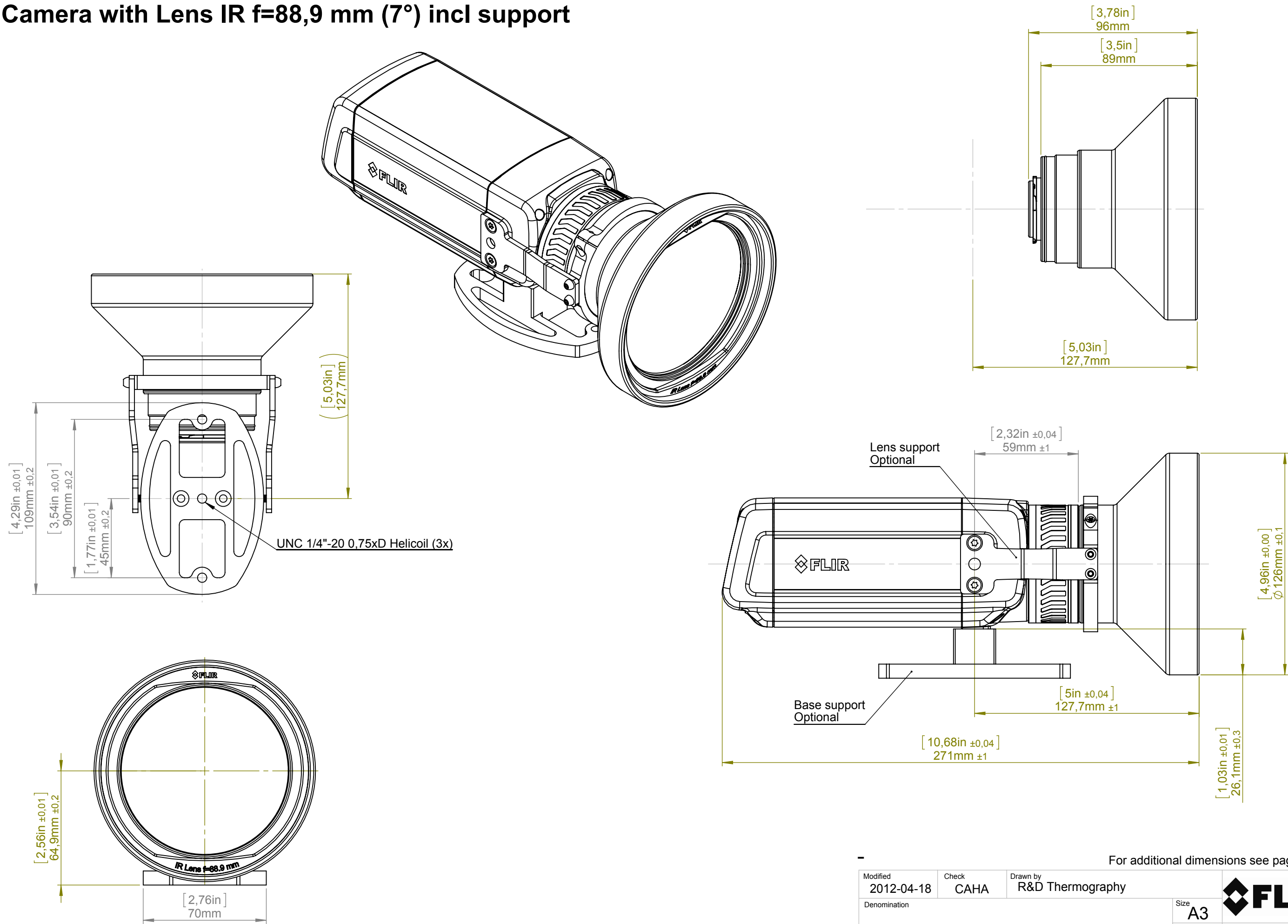


For additional dimensions see page 1

Modified 2012-04-18	Check CAHA	Drawn by R&D Thermography			
Denomination					
Basic dimensions FLIR A/SC 6xx			Size A3		Sheet 5(9)
			Scale 1:2		
			Drawing No. T126925		

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

Camera with Lens IR f=88,9 mm (7°) incl support



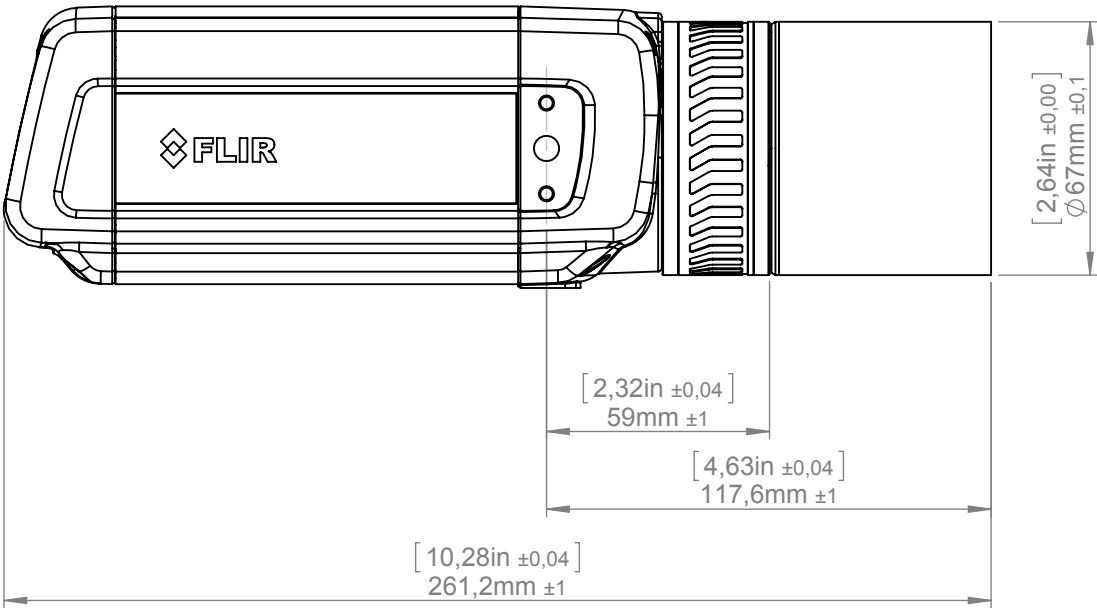
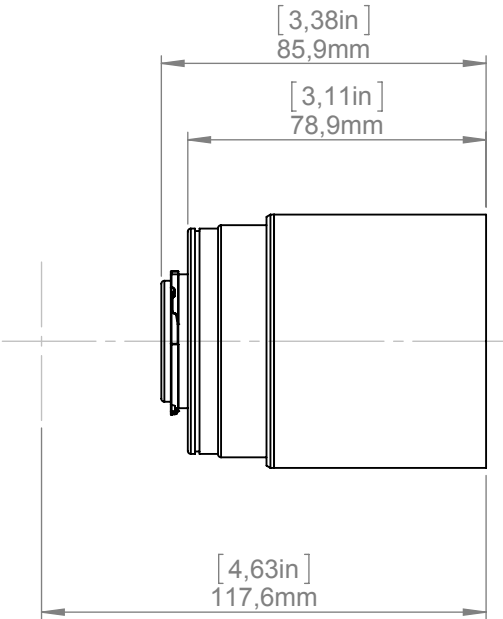
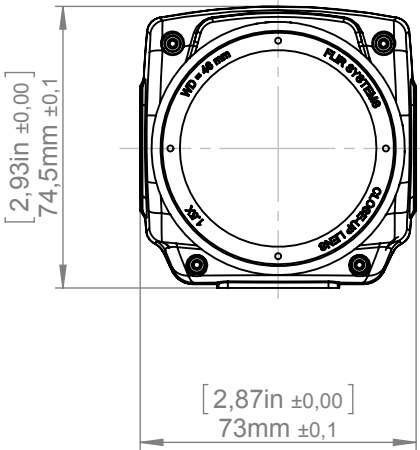
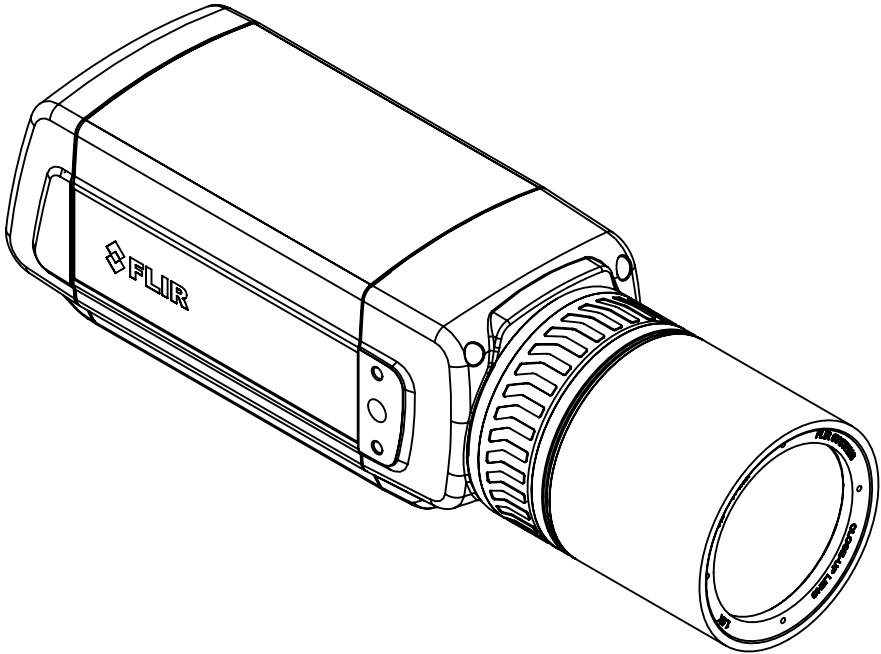
For additional dimensions see page 1

Modified 2012-04-18	Check CAHA	Drawn by R&D Thermography			
Denomination					
Basic dimensions FLIR A/SC 6xx			Size A3		Sheet 6(9)
			Scale 1:2		
			Drawing No. T126925		



© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

Camera with Close-up lens 1,5X (25 µm)

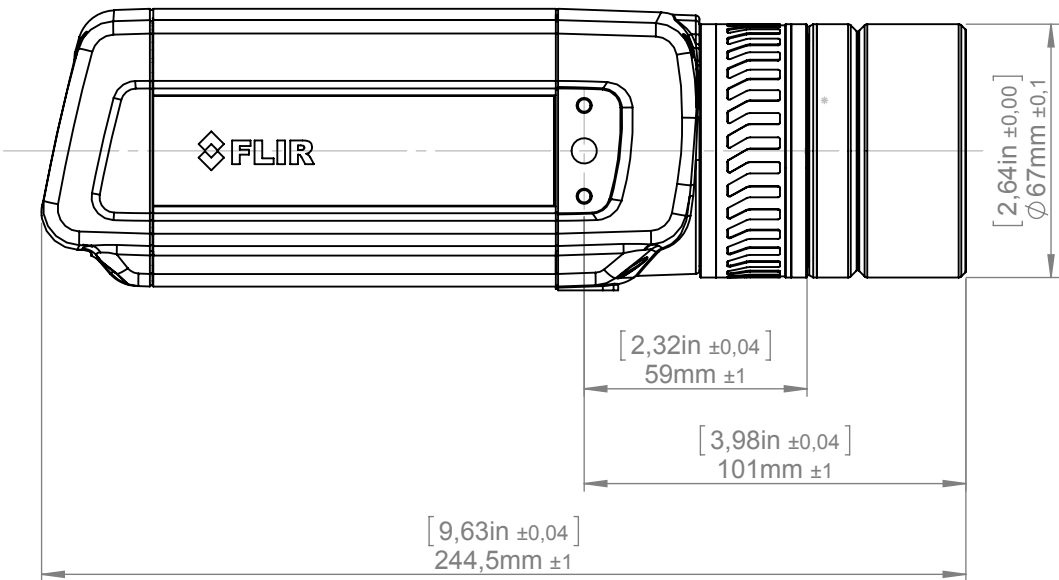
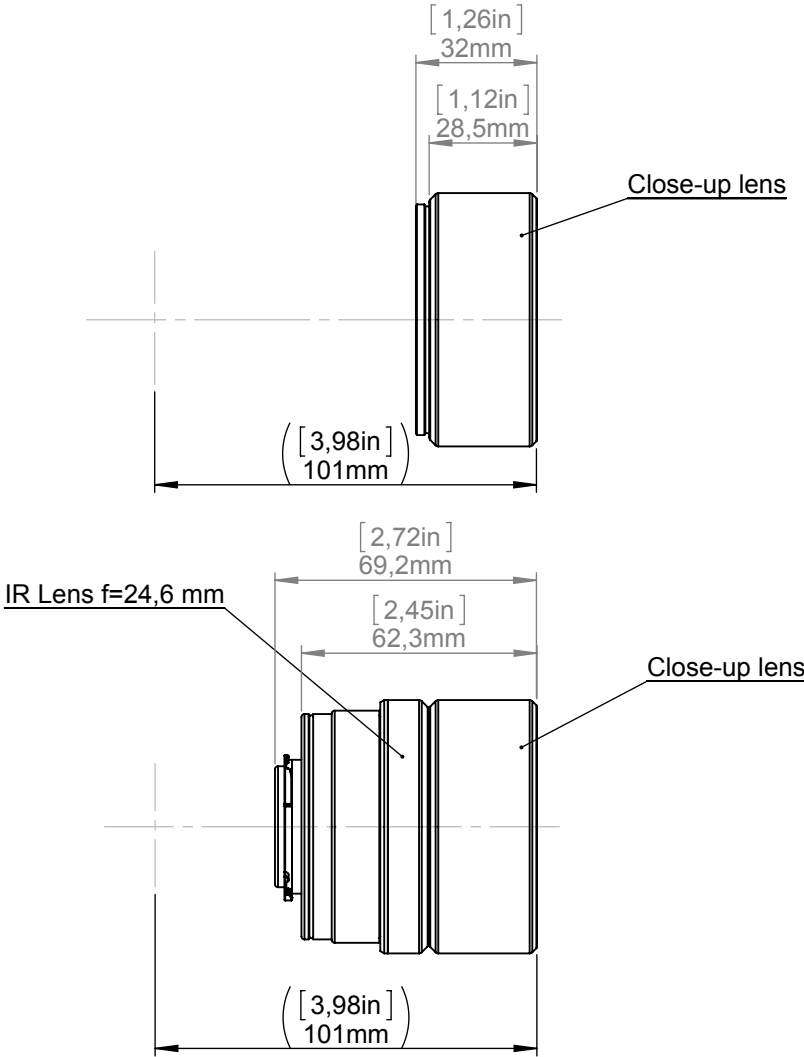
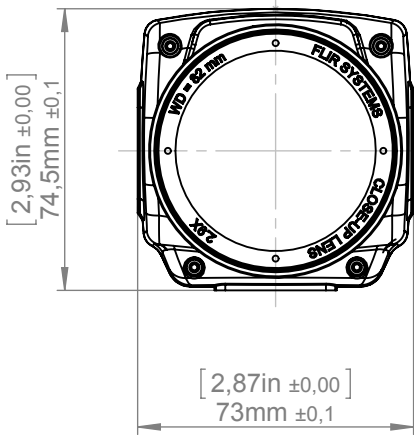
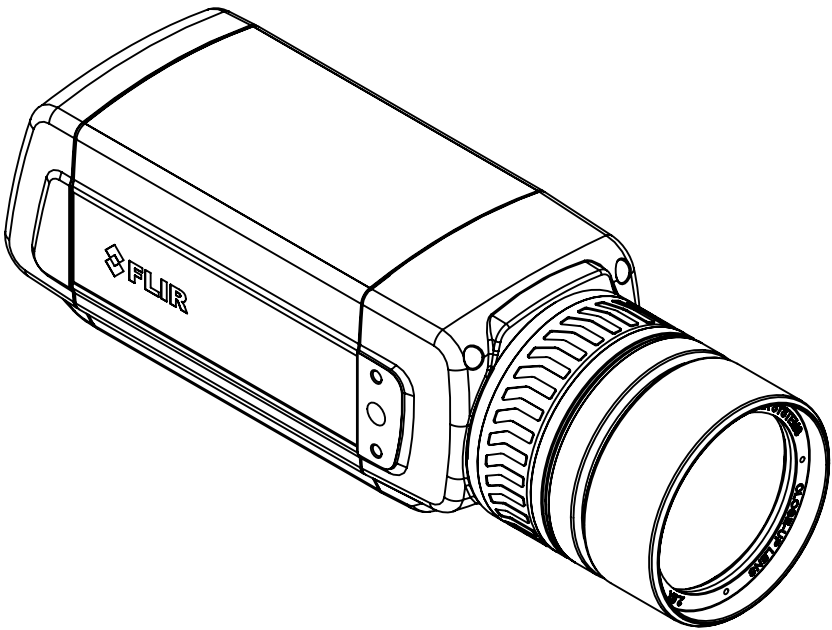


For additional dimensions see page 1

Modified 2012-04-18	Check CAHA	Drawn by R&D Thermography			
Denomination					
Basic dimensions FLIR A/SC 6xx			Size A3		Sheet 7(9)
			Scale 1:2		
			Drawing No. T126925		

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

Camera with Close-up lens 2,9X (50 µm)

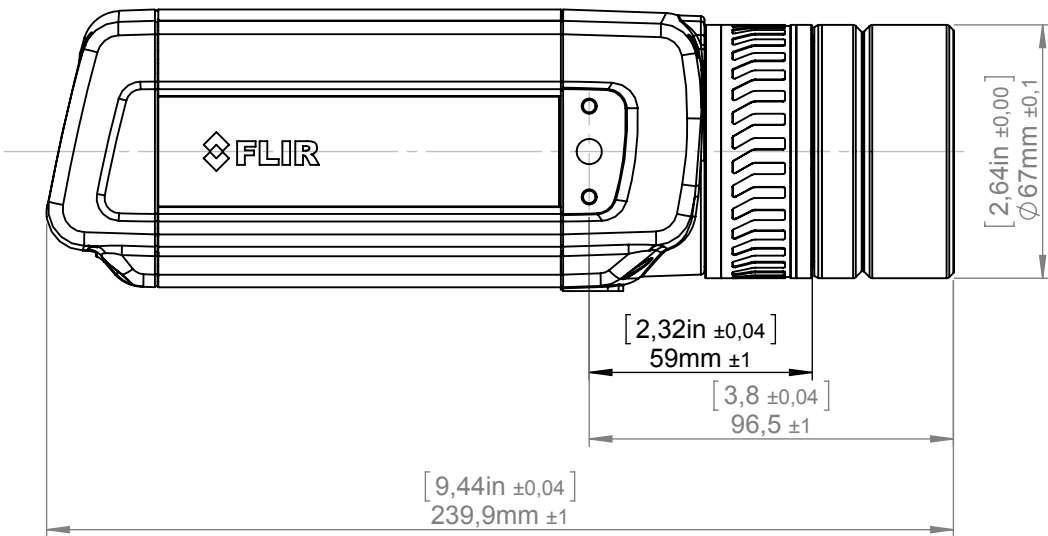
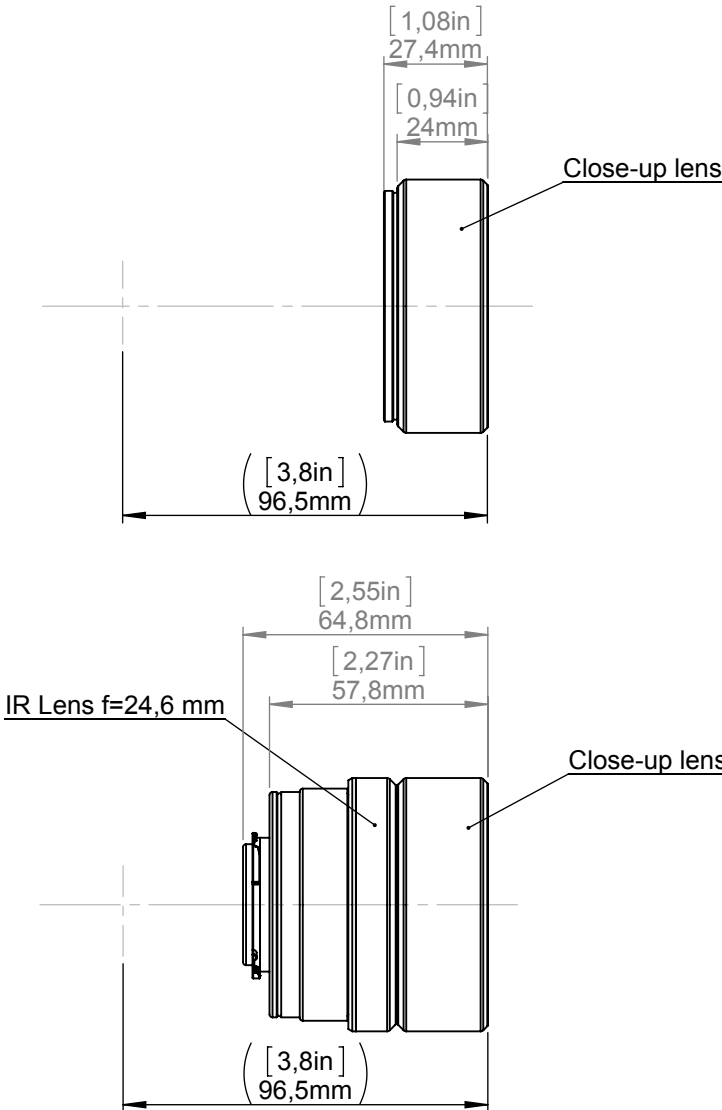
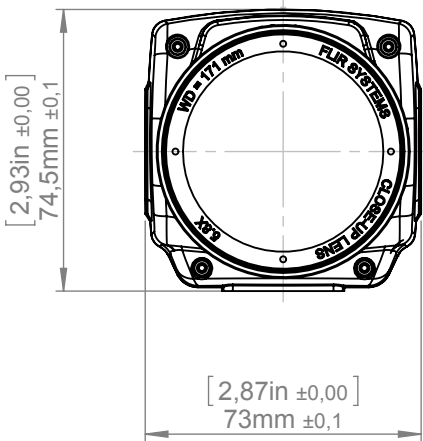
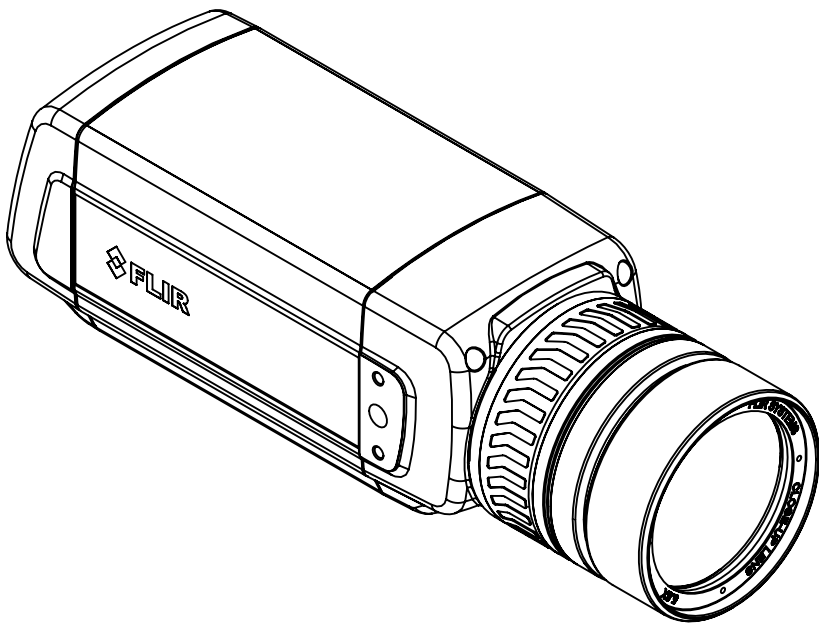


For additional dimensions see page 1

Modified 2012-04-18	Check CAHA	Drawn by R&D Thermography		
Denomination				
Basic dimensions FLIR A/SC 6xx			Size A3	
			Scale 1:2	 Sheet 8(9)
			Drawing No. T126925	
			Size A	

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

Camera with Close-up lens 5,8X (100 µm)



For additional dimensions see page 1

Modified 2012-04-18	Check CAHA	Drawn by R&D Thermography			
Denomination					
Basic dimensions FLIR A/SC 6xx			Size A3		Sheet 9(9)
			Scale 1:2		Size A
			Drawing No. T126925		