

Part number:

62513-0101

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October 26, 2012, 05:38 AM

Corporate Headquarters

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Website

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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 A65 camera has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient. 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.

Key features:

- Very affordable
- Compact (40 × 43 × 106 mm)
- GigE Vision and GenICam compliant
- GigE Vision lockable connector
- PoE (power over Ethernet)
- 8- and 14-bit 640 × 512 images streamed at 9 Hz, signal linear
- Synchronization between cameras possible
- 1x+1x GPIO
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro

Typical applications:

- Automation, thermal machine vision
- Entry level "high speed" R&D

Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 37°
Focal length	13 mm (0.5 in.)
Spatial resolution (IFOV)	1.31 mrad
F-number	1.25
Image frequency	9 Hz
Focus	Fixed

Detector data

Detector type	Focal Plane Array (FPA), Uncooled VOX microbolometer
Spectral range	7.5–13 µm
Detector pitch	17 µm
Detector time constant	Typical 12 ms

Measurement

Object temperature range	−40 to +160°C (−40 to 320°F)
Accuracy	±5°C (±9°F) or ±5% of reading

Ethernet

Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant



FLIR A65 f=13 mm (9 Hz)

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Ethernet

Ethernet, image streaming	8-bit monochrome @ 9 Hz - Signal linear/ DDE - Automatic/ Manual - Flip H&V 14-bit 640 × 512 pixels @ 9 Hz - Signal linear/ DDE GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigE Vision

Digital input/output

Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" < 2, "1"=2–40 VDC
Digital output, purpose	General purpose Output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital Synchronization and External power)

Power system

External power operation	12/24 VDC, < 2.5 W absolute max
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
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 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)

Physical data

Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information

- Infrared camera with lens
- Cardboard box
- Downloads brochure
- FLIR Tools download card
- FLIR apps card
- Focus adjustment tool
- Getting started guide
- Important information guide
- Optics brochure
- Registration card
- Service & training brochure
- Thank you card
- User documentation CD-ROM



FLIR A65 f=13 mm (9 Hz)

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Optional Accessories

- T951004 Ethernet cable CAT-6, 2m/6.6 ft.
- T198349 Base support
- T198348 Cable kit Mains (UK,EU,US)
- T127605 Cable M12 Pigtail
- T127606 Cable M12 Sync
- T198342 Focus adjustment tool
- T911112 PoE injector
- T198392 Table stand kit

Optional Software

- T197965 FLIR Tools
 - T127648 FLIR Tools+ (license only)
 - DSW-10000 FLIR IR Camera Player
-

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T951004; 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

v1.01

T198349; Base support



General description

Adapter for connecting a tripod.

Technical data

Size (L x W x H)	55 x 34 x 9 mm (2.2 x 1.3 x 0.4 in.)
Color	Black

Shipping information

- Base support
- Four screws (plus six extra)

v1.0

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T198348; Cable kit Mains (UK,EU,US)



General description

Cable kit consisting of three power cables (UK,EU,US).

Technical data

Cable length	1.5 m (4.9 ft.)
Color	Black

Shipping information

- Power cable, UK
- Power cable, EU
- Power cable, US

v1.0

T127605; Cable M12 Pigtail



General description

Cable to access signals in M12 connector, pigtail.

Technical data

Cable length	3 m (9.8 ft.)
Connector	M12 to pigtail
Color	Black

Shipping information

- Cable

v1.0

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T127606; Cable M12 Sync



General description

Cable to synchronize two cameras, M12 connectors in both ends.

Technical data

Cable length	2 m (6.6 ft.)
Connector	M12 to M12
Color	Black

Shipping information

- Cable

v1.0

T198342; Focus adjustment tool



General description

Focus adjustment tool

Technical data

Size (L x D)	12 x 38 mm (0.47 x 1.50 in.)
Color	Blue

Shipping information

- Focus adjustment tool

v1.0

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T911112; PoE injector



General description

Power supply, power over Ethernet (PoE) injector.

Technical data

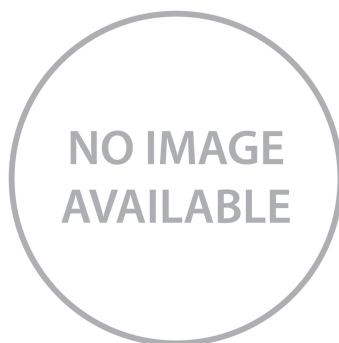
AC operation	Input: 100–240 V, 50–60 Hz
DC operation	Output: 48 VDC
Power	15.4 W
Size (L x W x H)	145 x 61 x 40 mm (5.7 x 2.4 x 1.6 in.)
Color	Black

Shipping information

- Power over Ethernet (PoE) injector

v1.0

T198392; Table stand kit



General description

Table stand kit for the FLIR Ax5 series. The kit consists of a base support and a gooseneck.

Technical data

Color	Black
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Shipping information

- Base support
- Gooseneck

v1.0

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T197965; 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).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search in all texts in images and text annotations.
- Store the five latest search criterias.
- 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 the imagesheets.
- Create PDF reports of any images of your choice.
- Add headers, footers, and logotypes to the report.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by by path and groups sorted by date)
- Browse and purchase infrared cameras, software, and accessories in our webshop.
- Software localized to 21 languages.
- Camera update (applies to FLIR Exx, T4xx 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 2.2
New features	• --- News in 2.2: --- • Support for rotating DC images • Improved camera connection • Various bug fixes • --- News in 2.1: --- • New text comment template tab (Create, edit and transfer templates to and from any FLIR camera. Import and export templates.). • Support for MSX (Multi-Spectral Dynamic Imaging) images. • Support for sketch images in both IR and visual with on/off toggling. • Support for same FOV ("Field of View Match"). • Display of compass information in edit and report mode. • Display of GPS information in edit and in report mode (Direct link to Google Maps for GPS-tagged images from the report). • Support for FLIR A3x5 and A6x5. • Camera tab (Logging feature. Colorized status of camera availability). • An updated toolbar in the edit window. • Support for FLIR T4xx camera models when updating the camera. • Various bug fixes.

P/N: 62513-0101

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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

v1.10

T127648; FLIR Tools+ (license only)



General description

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

- Radiometric sequence recording
- Playback of recordings

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:

- 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 in all texts in images and text annotations.
- Store the five latest search criterias.
- 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 the imagesheets.
- Create PDF reports of any images of your choice.
- Add headers, footers, and logotypes to the report.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by by path and groups sorted by date)
- Browse and purchase infrared cameras, software, and accessories in our webshop.
- Software localized to 21 languages.
- Camera update (applies to FLIR Exx, T4xx and T6xx series only).

Download

Download your copy of FLIR Tools+ here:

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

Release notes

Version

FLIR Tools+ 2.2

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Release notes

New features

- --- News in 2.2: ---
- Radiometric sequence recording
- Playback of recordings
- --- News in 2.1: ---
- New text comment template tab (Create, edit and transfer templates to and from any FLIR camera. Import and export templates.).
- Support for MSX (Multi-Spectral Dynamic Imaging) images.
- Support for sketch images in both IR and visual with on/off toggling.
- Support for same FOV ("Field of View Match").
- Display of compass information in edit and report mode.
- Display of GPS information in edit and in report mode (Direct link to Google Maps for GPS-tagged images from the report).
- Support for FLIR A3x5 and A6x5.
- Camera tab (Logging feature. Colorized status of camera availability).
- An updated toolbar in the edit window.
- Support for FLIR T4xx camera models when updating the camera.
- Various bug fixes.

Shipping information

- FLIR Tools+ scratchcard

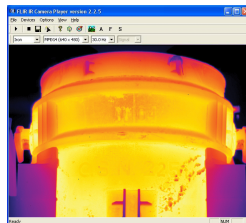
System requirements

Operating system

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

v1.03

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

2.2.7



Optional Software

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Release notes

New features

- --- News in 2.2.7
- Added support for FLIR Ax5 series.
- --- News in 2.2.6
- Various bug fixes.

System requirements

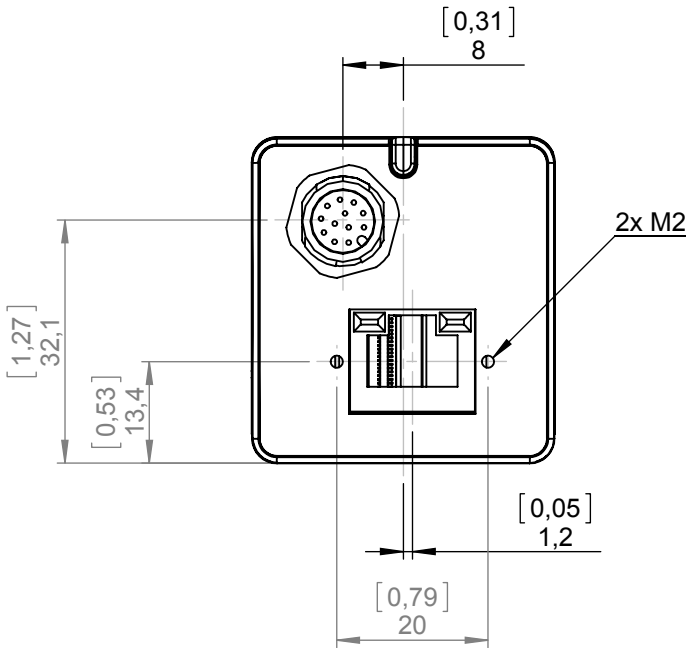
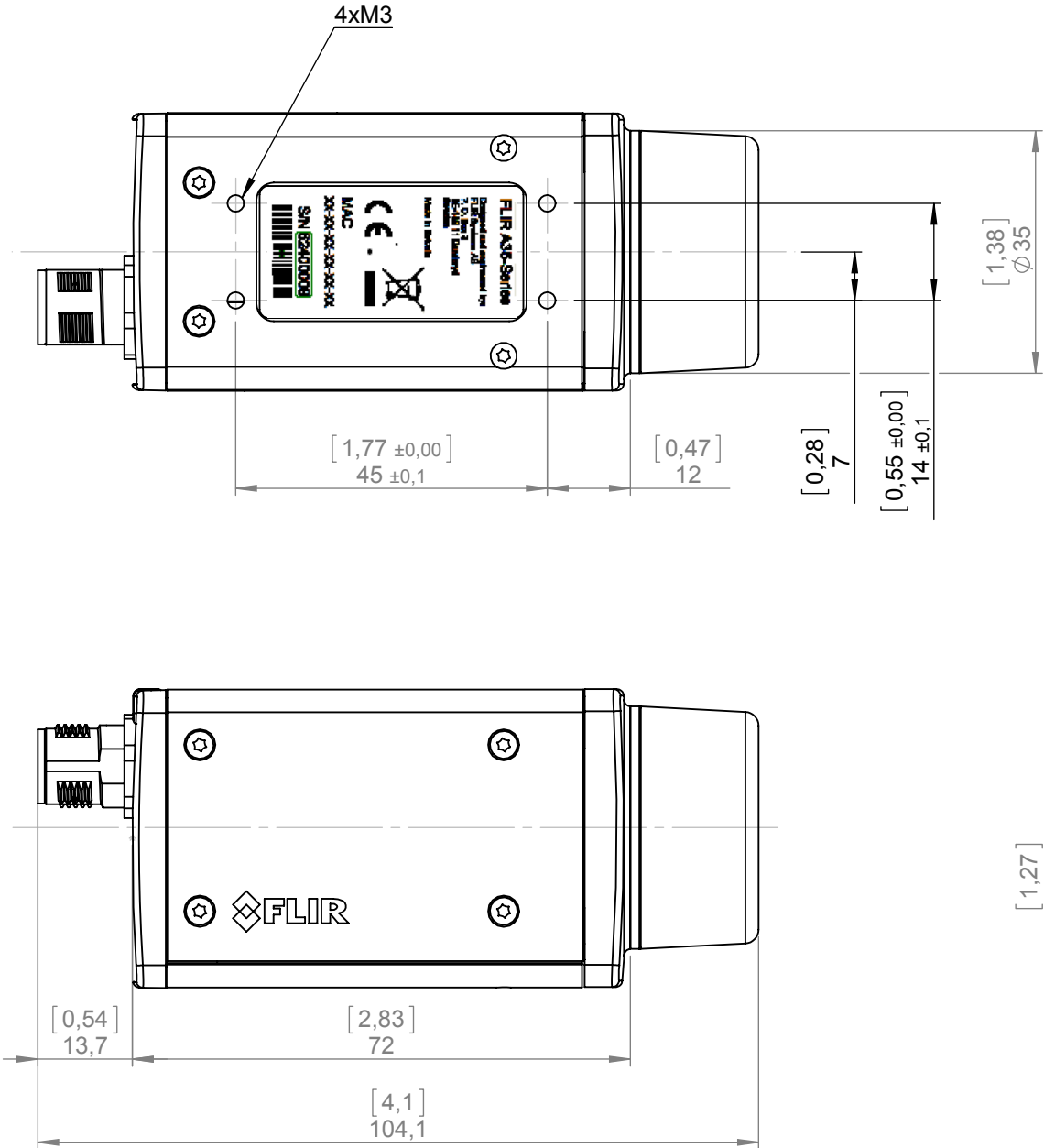
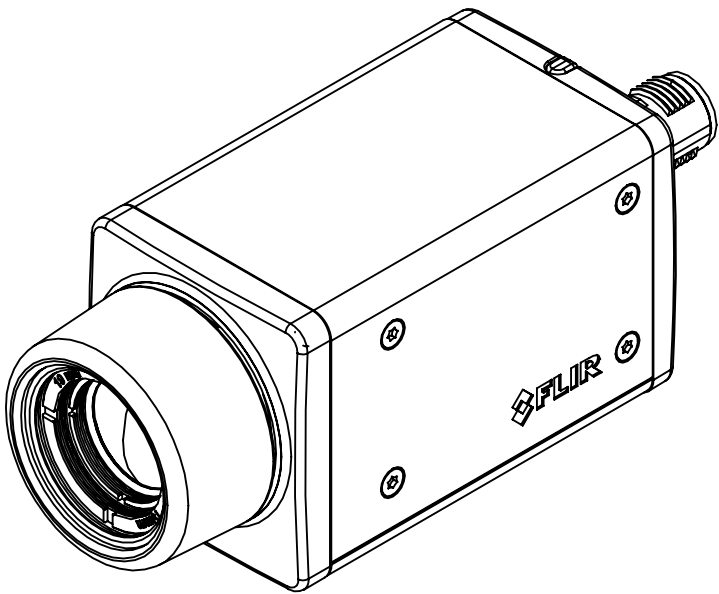
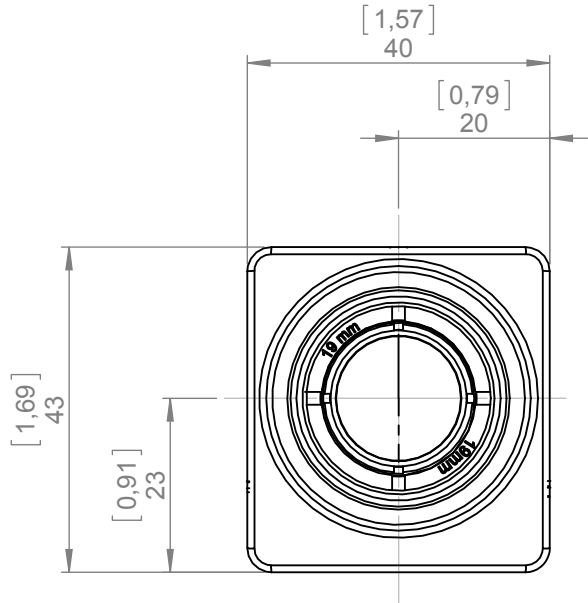
Operating system

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

v1.03

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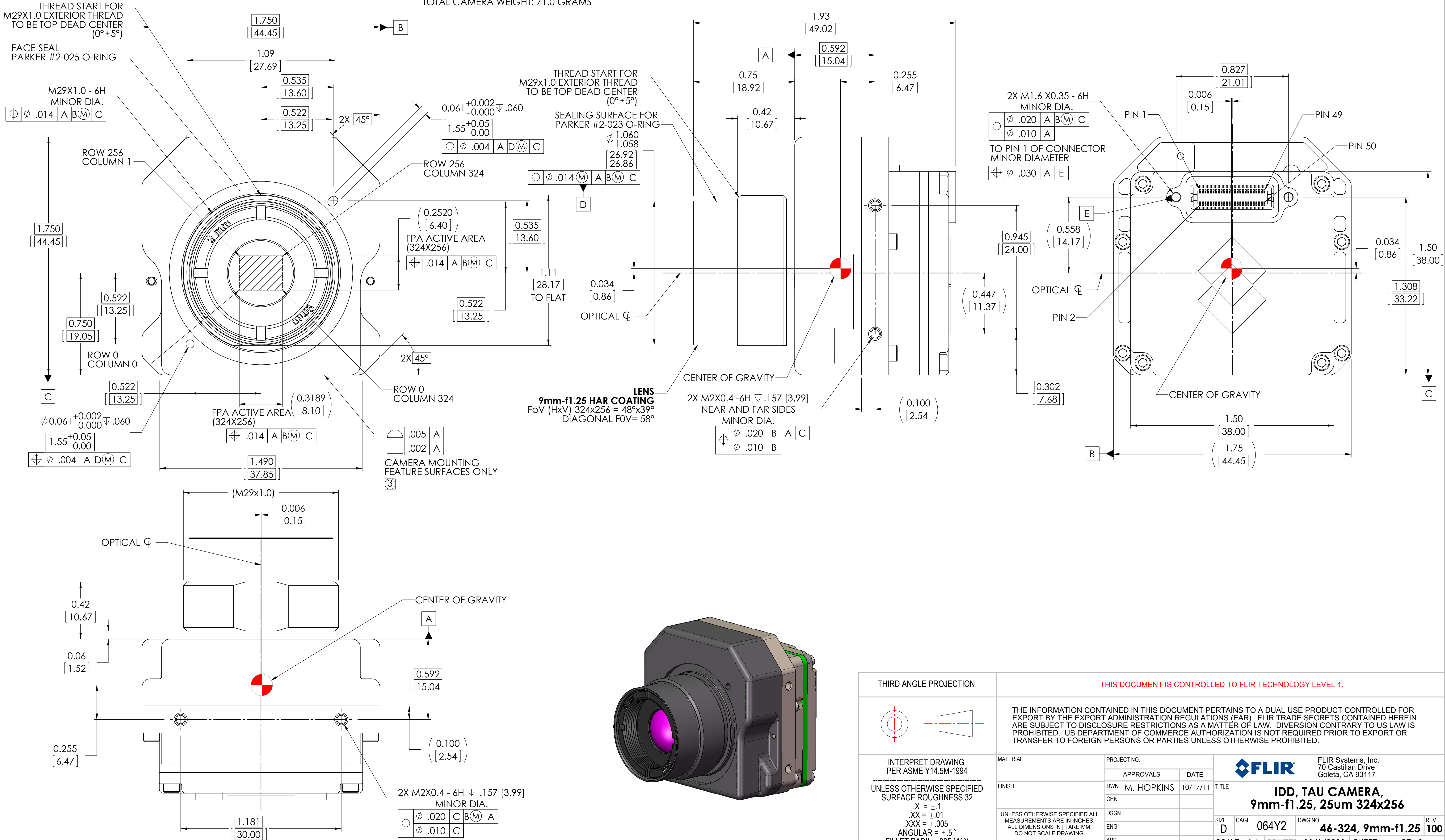
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Ändrad av/Modified by P. MARCUS		Ändrad/Modified 2012-05-07	Ytjämnhet/Roughness Ra µm	Ytbehandling/Surface treatment				
Där ej annat anges/Unless otherwise stated Gen tol ISO 2768-mK Utdrag ur/Excerpt from ISO 2768-m 0,5-6 ±0,1 Hålkålsradier (6)-30 ±0,2 Fillet radii (30)-120 ±0,3 (120)-400 ±0,5 Kanter brutna (400)-1000 ±0,8 Edges broken		Benämning/Denomination Ax5 Assy			Skala/Scale 1:1			Blad/Sheet 1(2)
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					Ritn nr/Drawing No		T198121	Rev A

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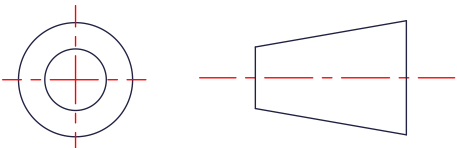
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- CONNECTOR INTERFACE: HIROSE 50 PIN DF12-50DS-0.5V(86). MATING CONNECTOR P/N DF12(5.0)-50DP-0.5V(86). FOR PIN-OUT DESIGNATIONS SEE TAU CAMERA USERS MANUAL.

- INDICATED TOLERANCES APPLY TO CAMERA MOUNTING SURFACES ONLY. OTHER SURFACES ARE CAST AND HAVE DRAFT.
- INDICATED ALLOWABLE TRAVEL FOR FOCUS.
- CAMERA WEIGHT NO LENS: 50.5 GRAMS, LENS WEIGHT, 9mm-f1.25: 20.5 GRAMS
TOTAL CAMERA WEIGHT: 71.0 GRAMS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	100	INITIAL RELEASE ECN 115992	10/17/11	BC



THIRD ANGLE PROJECTION



INTERPRET DRAWING
PER ASME Y14.5M-1994

UNLESS OTHERWISE SPECIFIED
SURFACE ROUGHNESS 32
.X = ±.1
.XX = ±.01
.XXX = ±.005
ANGULAR = ±.5°
FILLET RADII = .005 MAX

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MATERIAL		PROJECT NO.		APPROVALS		DATE	TITLE	
FINISH		DWN	M. HOPKINS			10/17/11	IDD, TAU CAMERA, 9mm-f1.25, 25um 324x256	
UNLESS OTHERWISE SPECIFIED ALL MEASUREMENTS ARE IN INCHES. ALL DIMENSIONS IN [] ARE MM. DO NOT SCALE DRAWING.		CHK		DSGN			SIZE D CAGE 064Y2 DWG NO. 46-324, 9mm-f1.25 100	
CALC WT: 71.00 GRAMS		ENG		APP			SCALE 3:1 PRINTED: 11/1/2011 SHEET 1 OF 2	



FLIR Systems, Inc.
70 Castilian Drive
Goleta, CA 93117

SOLIDWORKS MODEL: 46-Tau Camera Core
MODEL REVISION: B-WC

D

C

B

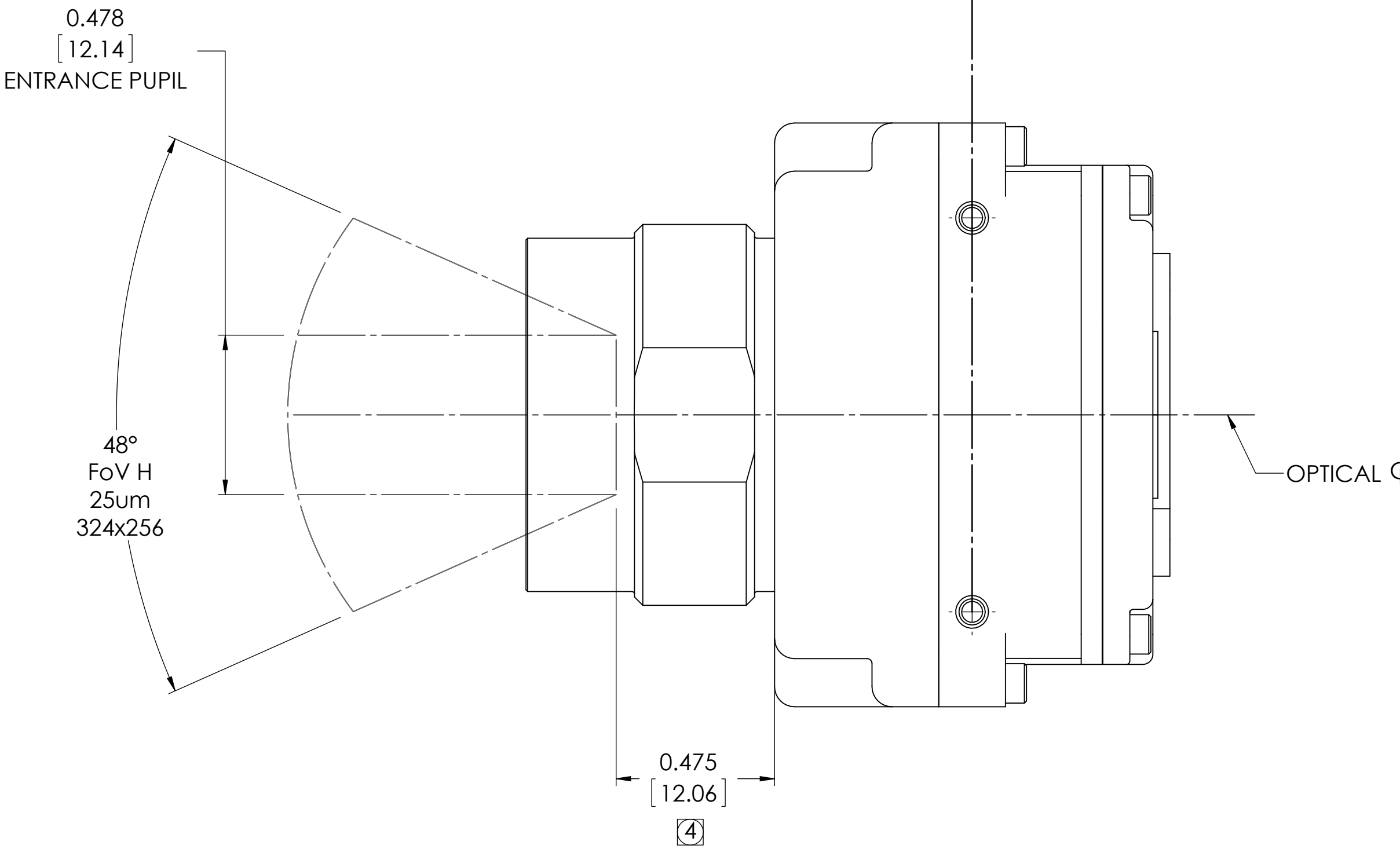
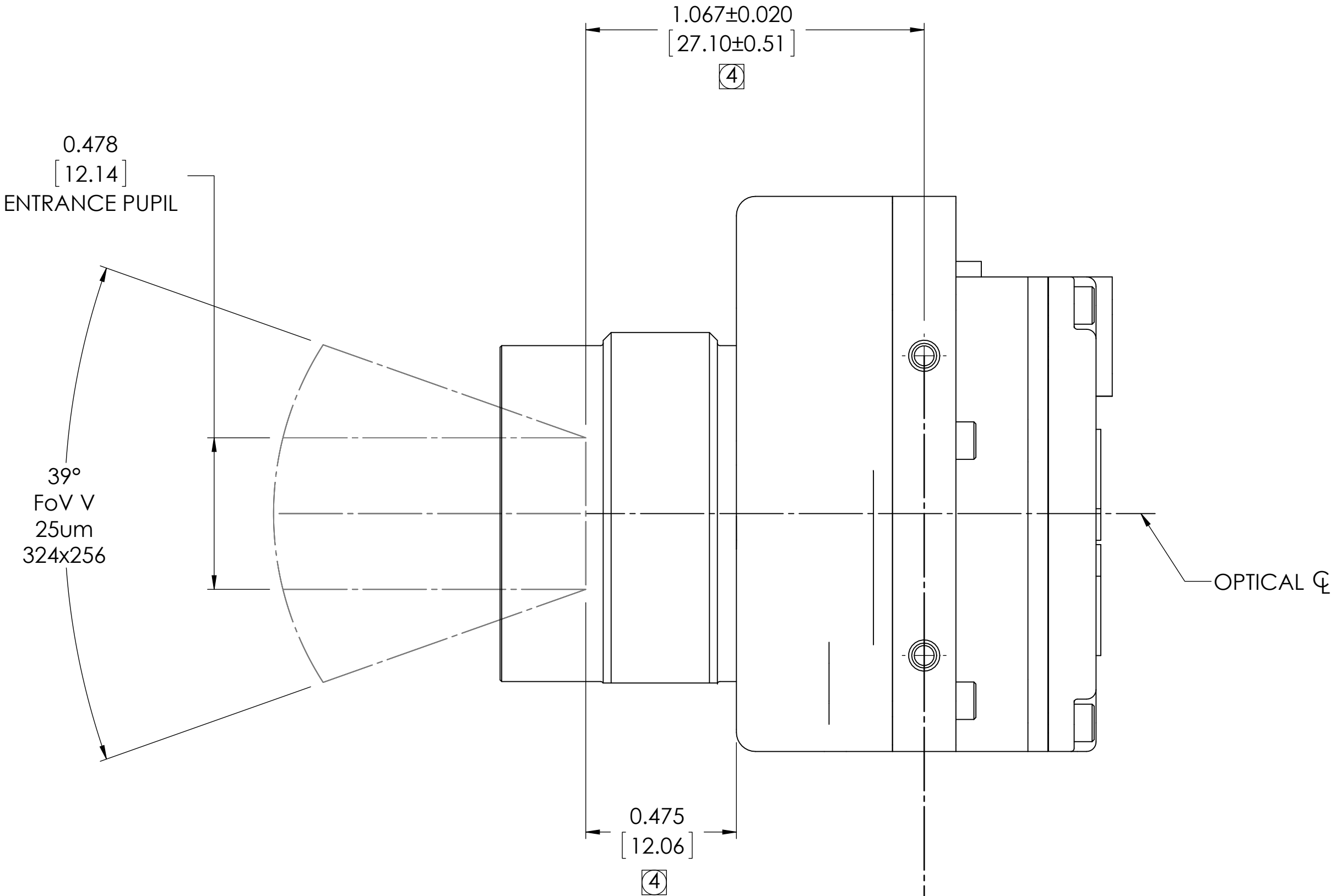
A

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A



9 mm-f1.25
324x 256 ARRAY

IDD, TAU CAMERA,
9mm-f1.25, 25um 324x256

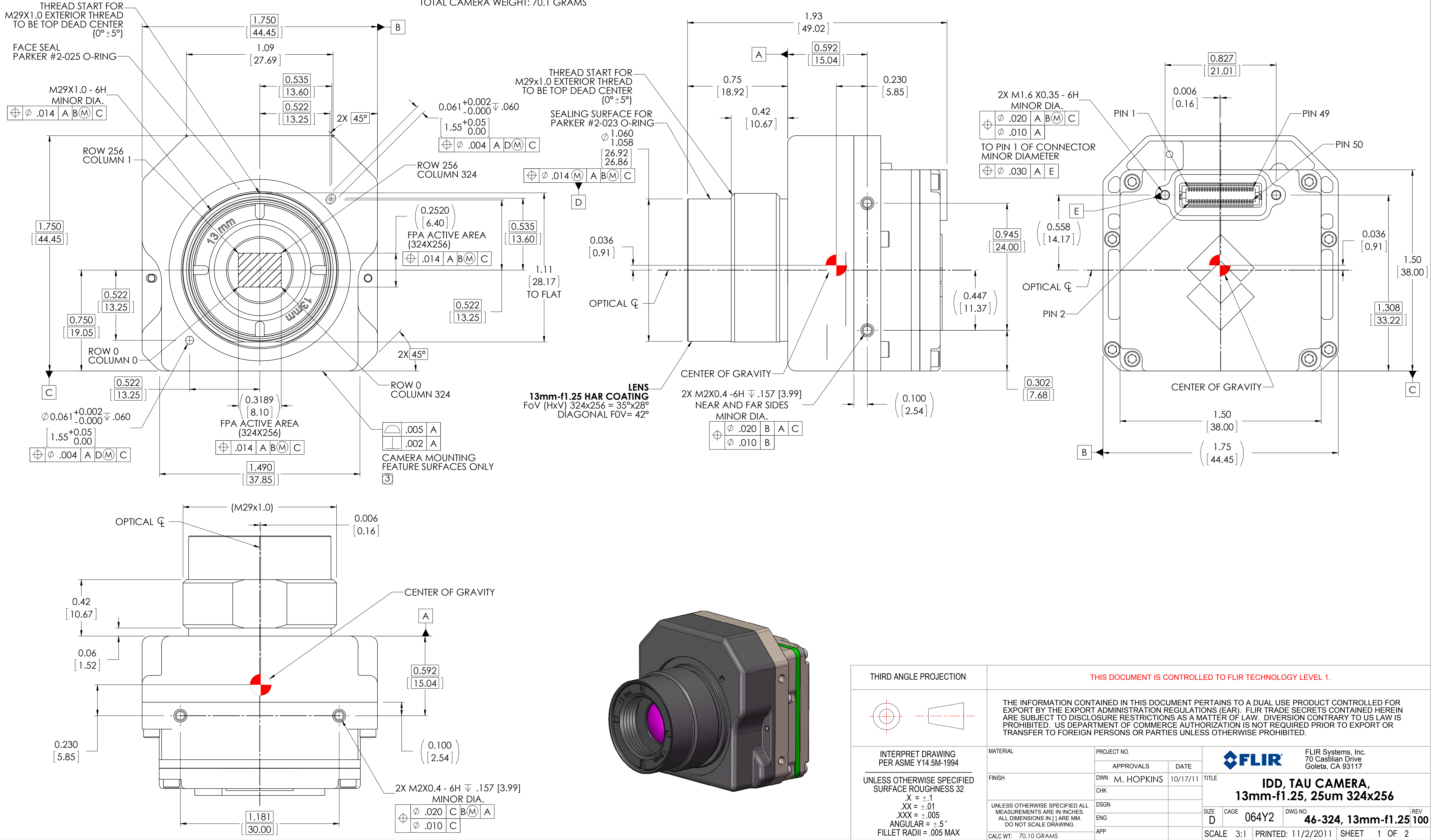
SIZE D	CAGE 064Y2	DWG NO. 46-324, 9mm-f1.25	REV 100
SCALE 3:1	PRINTED: 11/1/2011	SHEET 2 OF 2	
SOLIDWORKS MODEL: 46-Tau Camera Core MODEL REVISIONB-WC			

NOTES: UNLESS OTHERWISE SPECIFIED

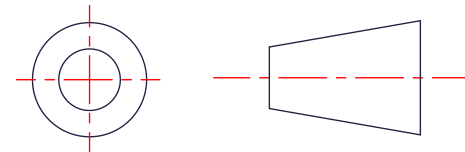
- INDICATED DIMENSIONS ARE FOR AN ARRAY SIZE OF 324x256.
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- INDICATED TOLERANCES APPLY TO CAMERA MOUNTING SURFACES ONLY. OTHER SURFACES ARE CAST AND HAVE DRAFT.
- INDICATED ALLOWABLE TRAVEL FOR FOCUS.
- CAMERA WEIGHT NO LENS: 50.5 GRAMS, LENS WEIGHT, 13mm-f1.25: 19.6 GRAMS
TOTAL CAMERA WEIGHT: 70.1 GRAMS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	100	INITIAL RELEASE ECN 115992	10/17/11	BC



THIRD ANGLE PROJECTION



INTERPRET DRAWING
PER ASME Y14.5M-1994

UNLESS OTHERWISE SPECIFIED
SURFACE ROUGHNESS 32
.X = ±.1
.XX = ±.01
.XXX = ±.005
ANGULAR = ±.5°
FILLET RADII = .005 MAX

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MATERIAL		PROJECT NO.		TITLE	SIZE	CAGE	DWG NO.	REV
FINISH	UNLESS OTHERWISE SPECIFIED ALL MEASUREMENTS ARE IN INCHES. ALL DIMENSIONS IN [] ARE MM. DO NOT SCALE DRAWING.	APPROVALS	DATE					
ENG		DWN	M. HOPKINS	10/17/11	D	064Y2	46-324, 13mm-f1.25	100
APP		CHK						
CALC WT:	70.10 GRAMS	DSGN						
SCALE 3:1 PRINTED: 11/2/2011 SHEET 1 OF 2					SOLIDWORKS MODEL: 46-Tau Camera Core MODEL REVISION: B-WC			



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Goleta, CA 93117

IDD, TAU CAMERA,
13mm-f1.25, 25um 324x256

D

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B

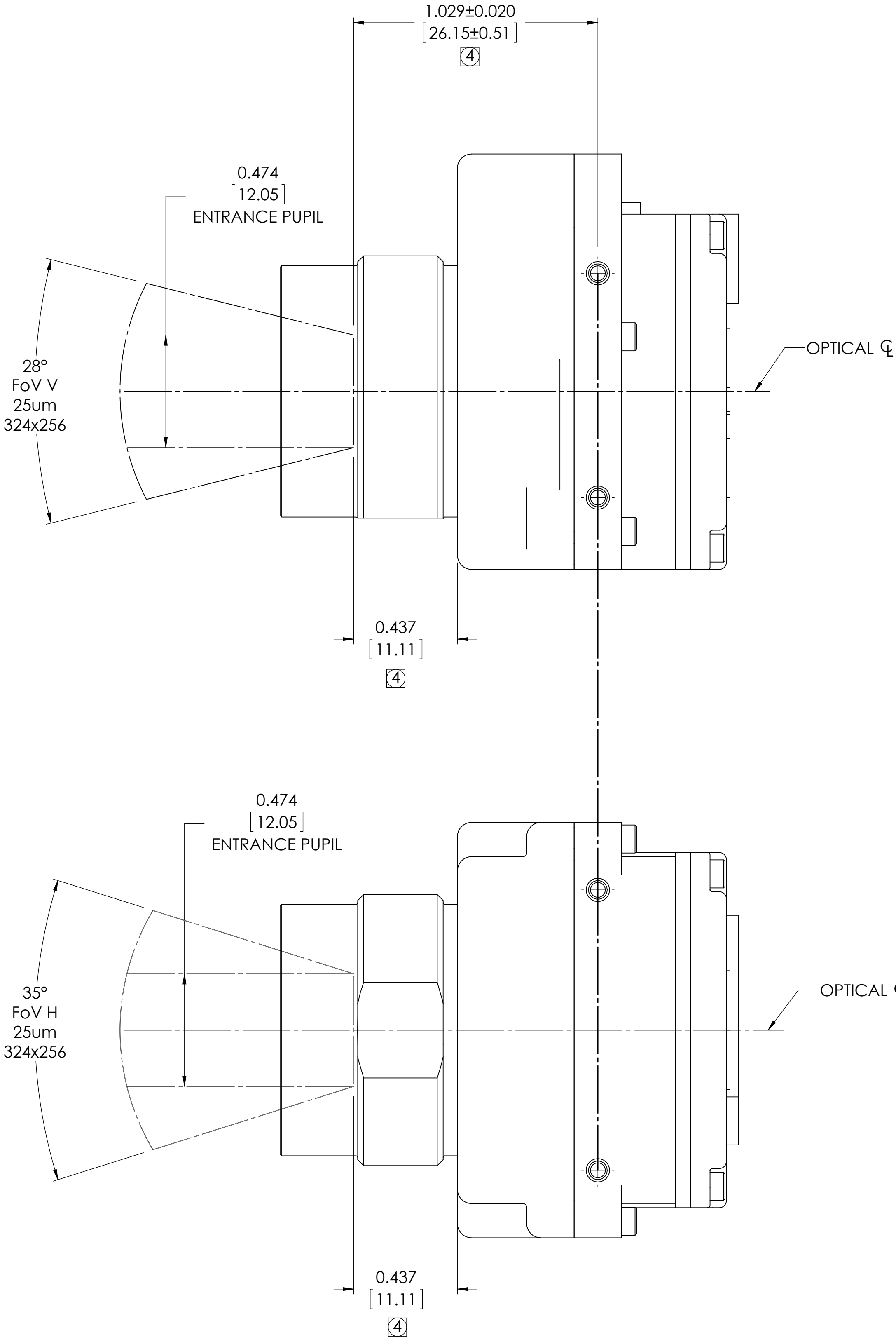
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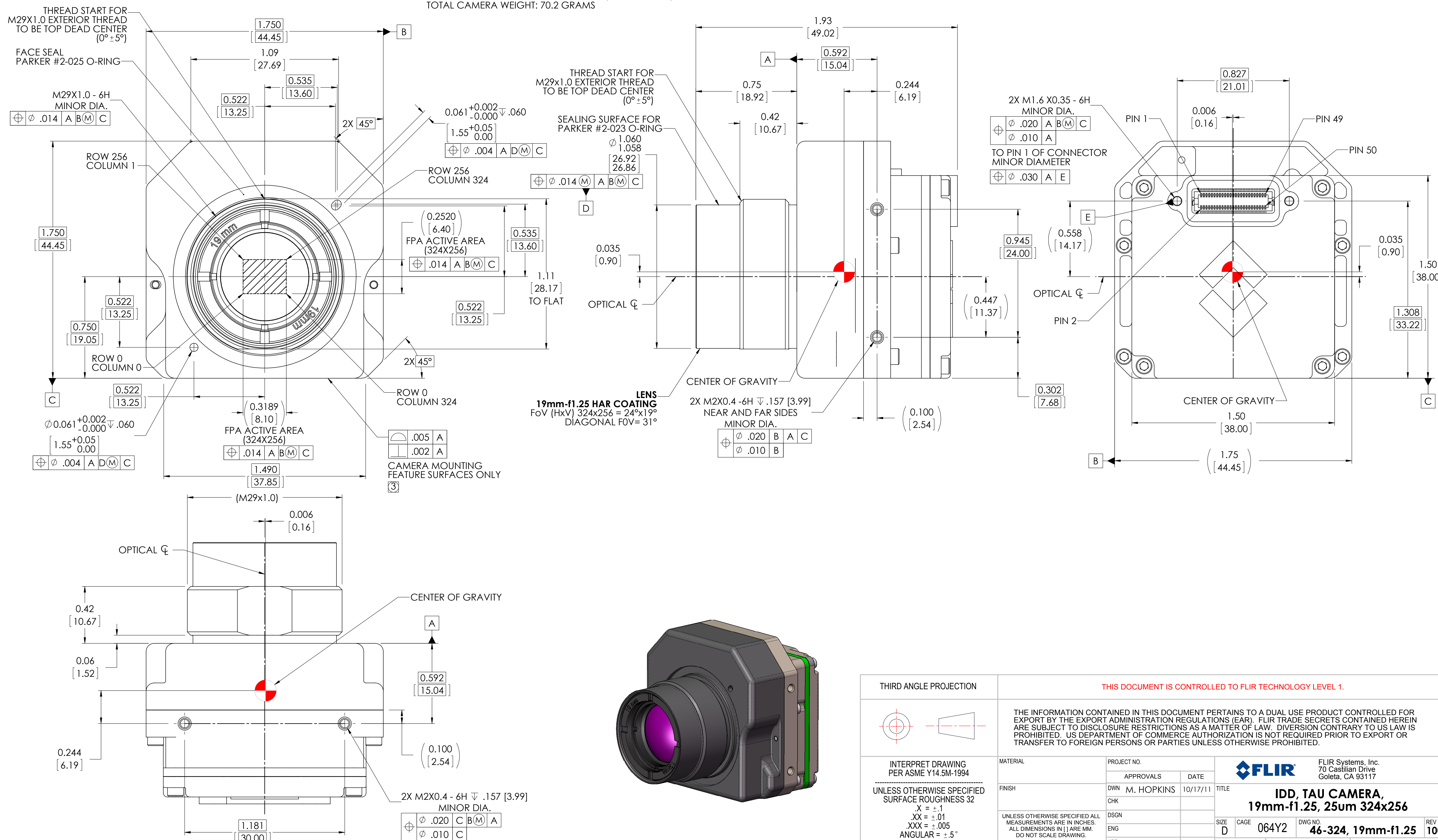
IDD, TAU CAMERA,
13mm-f1.25, 25um 324x256

SIZE	CAGE	DWG NO.	REV
D	064Y2	46-324, 13mm-f1.25	100
SCALE	3:1	PRINTED: 11/2/2011	SHEET 2 OF 2
SOLIDWORKS MODEL: 46-Tau Camera Core MODEL REVISIONB-WC			

NOTES: UNLESS OTHERWISE SPECIFIED

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3. INDICATED TOLERANCES APPLY TO CAMERA MOUNTING SURFACES ONLY. OTHER SURFACES ARE CAST AND HAVE DRAFT.
4. INDICATED ALLOWABLE TRAVEL FOR FOCUS.
5. CAMERA WEIGHT NO LENS: 50.5 GRAMS, LENS WEIGHT, 19mm-f1.25: 19.7 GRAMS
TOTAL CAMERA WEIGHT: 70.2 GRAMS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	100	INITIAL RELEASE ECN 115992	10/17/11	BC



D

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B

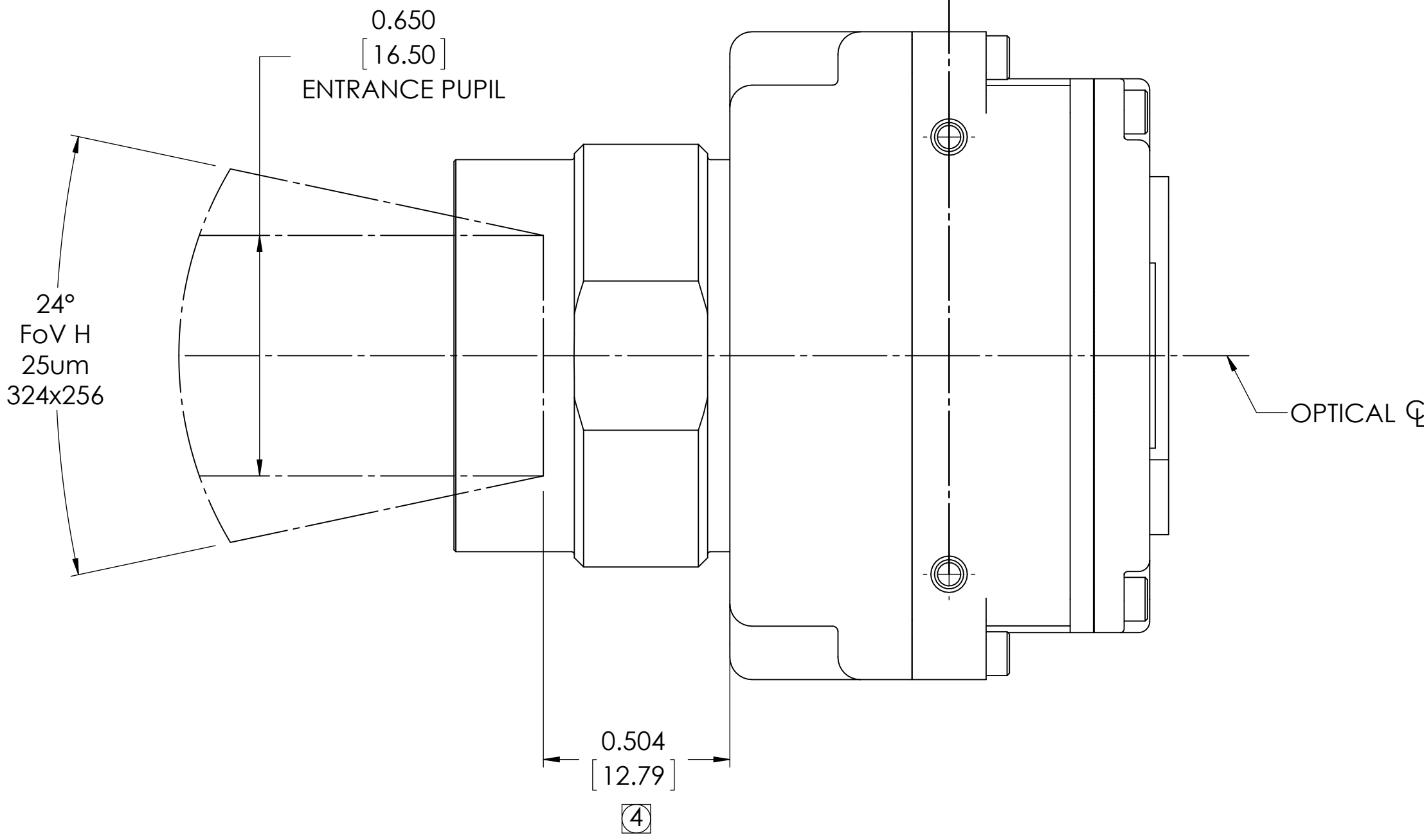
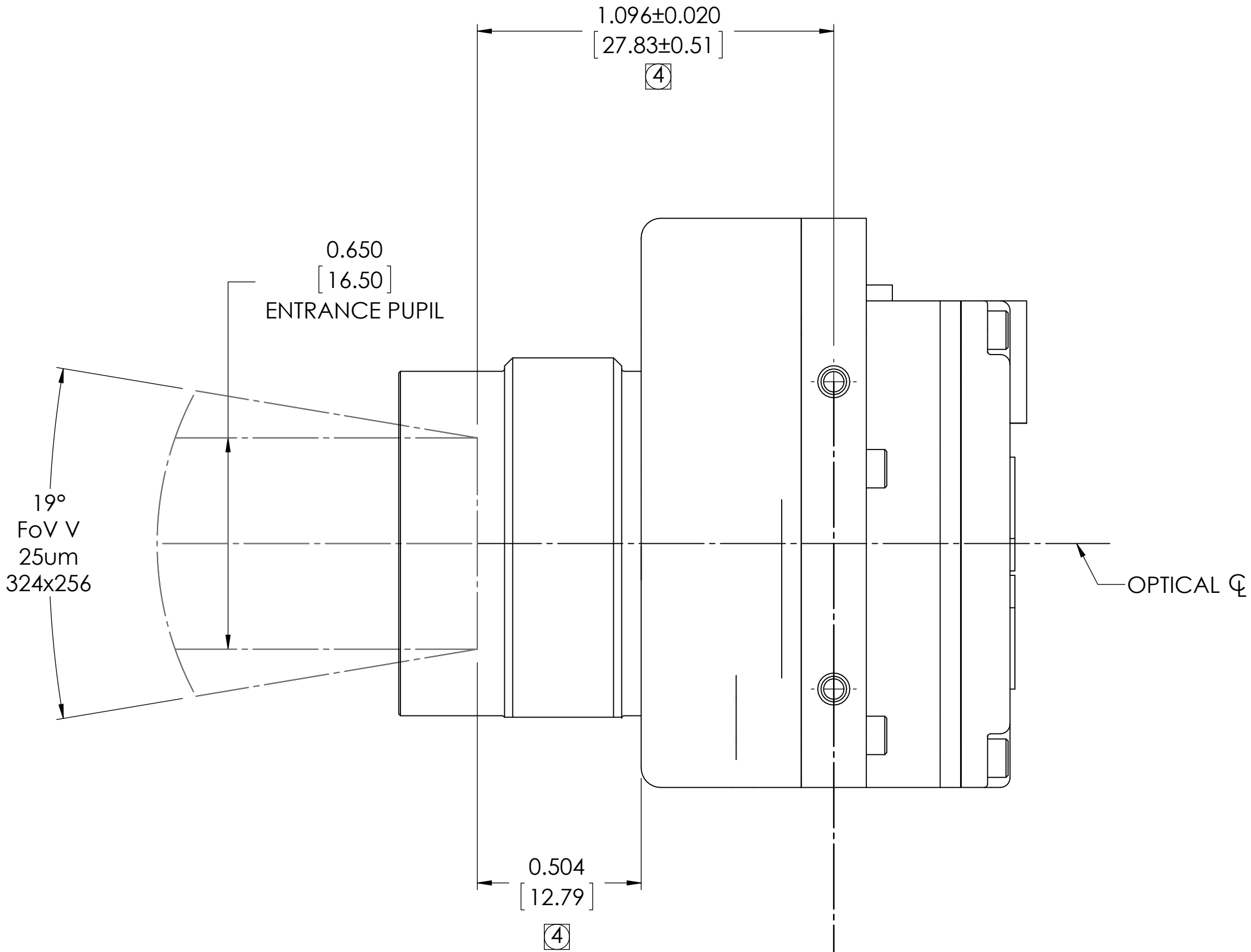
A

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A



19 mm-f1.25
324x 256 ARRAY

IDD, TAU CAMERA,
19mm-f1.25, 25um 324x256

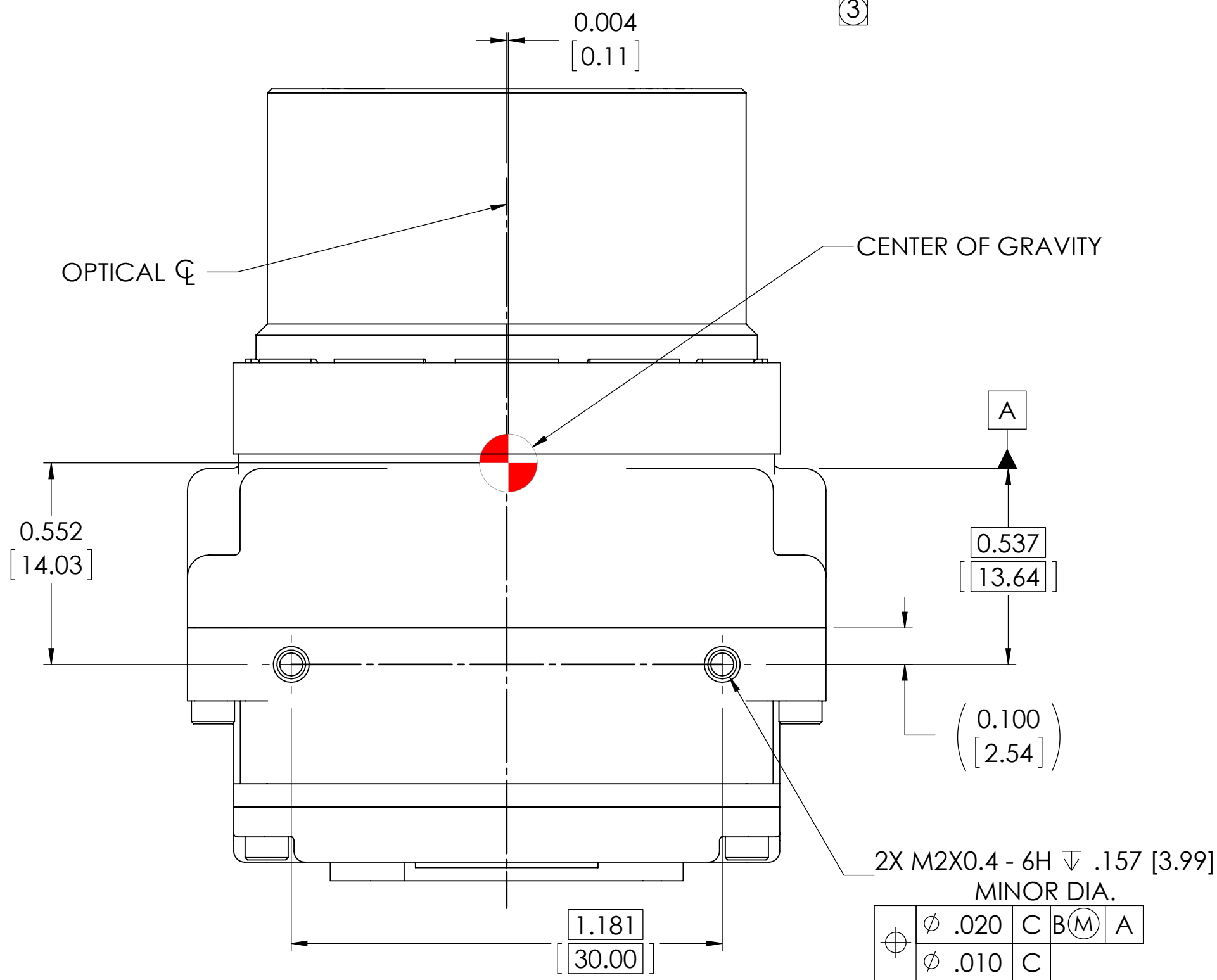
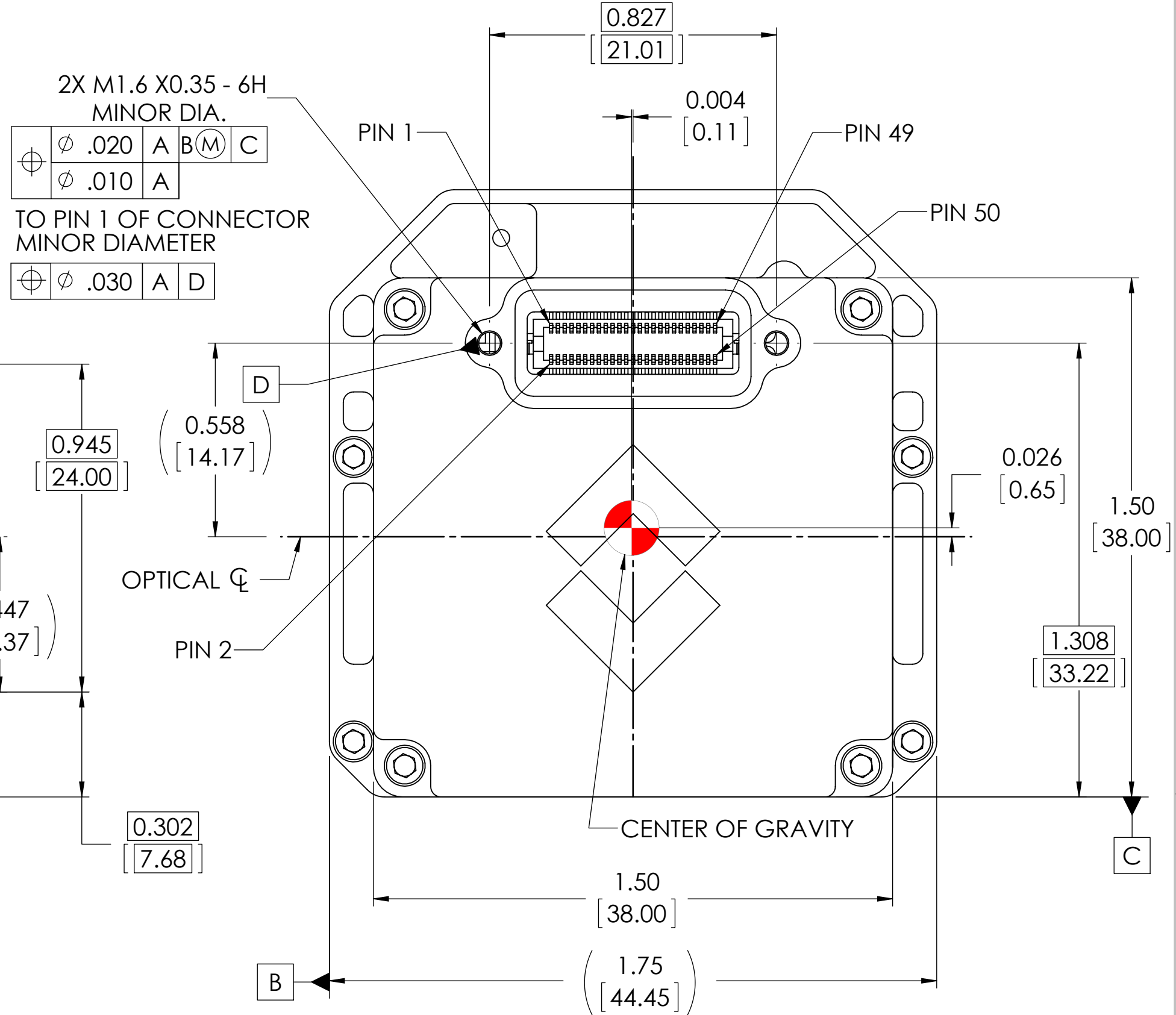
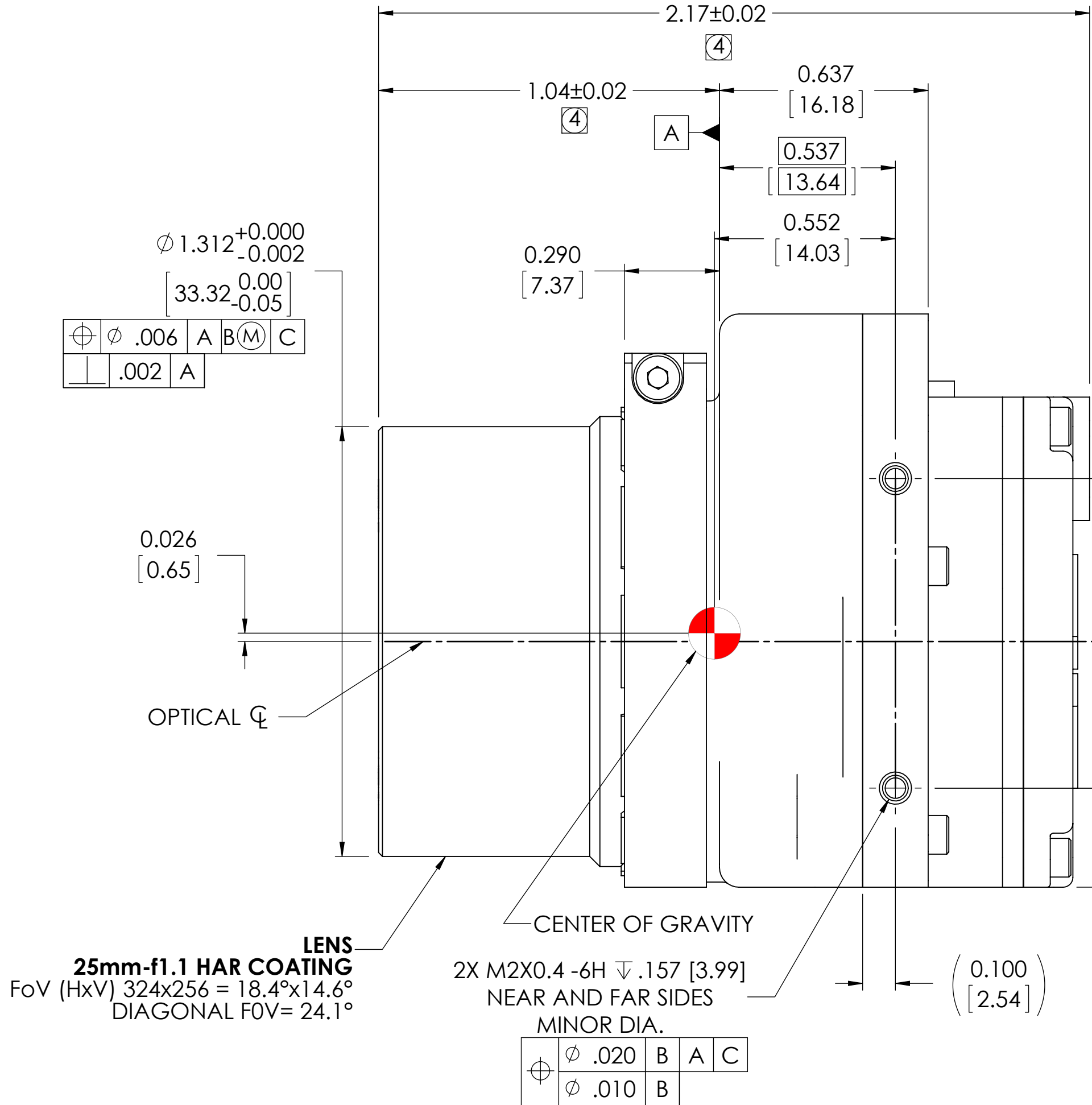
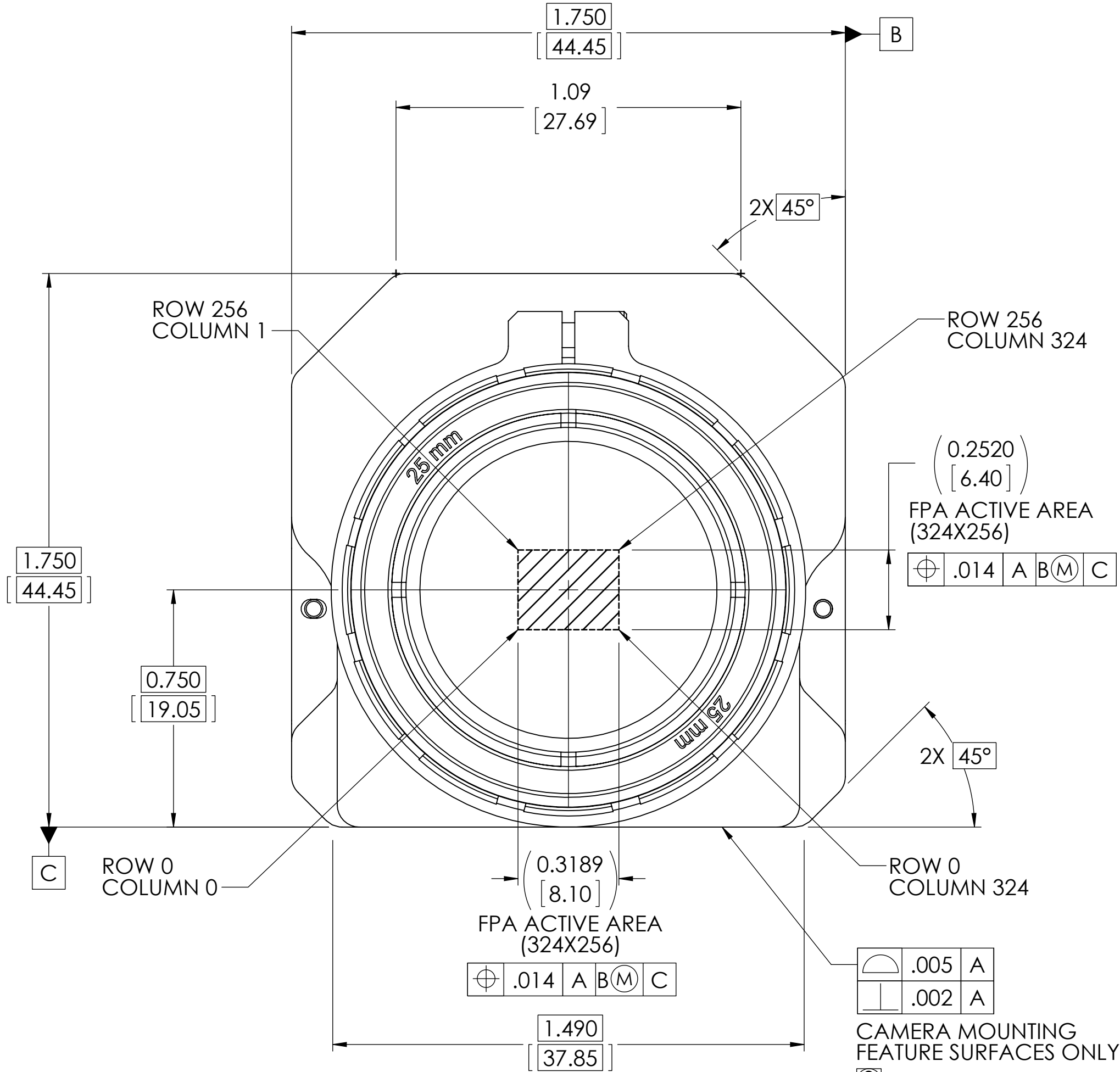
SIZE	CAGE	DWG NO.	REV
D	064Y2	46-324, 19mm-f1.25	100
SCALE	3:1	PRINTED: 11/2/2011	SHEET 2 OF 2
SOLIDWORKS MODEL: 46-Tau Camera Core MODEL REVISIONB-WC			

NOTES: UNLESS OTHERWISE SPECIFIED

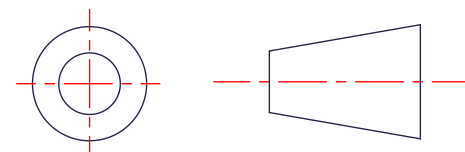
- INDICATED DIMENSIONS ARE FOR AN ARRAY SIZE OF 324x256.
- CONNECTOR INTERFACE: HIROSE 50 PIN DF12-50DS-0.5V(86). MATING CONNECTOR P/N DF12(5.0)-50DP-0.5V(86). FOR PIN-OUT DESIGNATIONS SEE TAU CAMERA USERS MANUAL.

- INDICATED TOLERANCES APPLY TO CAMERA MOUNTING SURFACES ONLY. OTHER SURFACES ARE CAST AND HAVE DRAFT.
- INDICATED ALLOWABLE TRAVEL FOR FOCUS.
- CAMERA WEIGHT NO LENS: 52.1 GRAMS, LENS WEIGHT, 25mm-f1.1: 58.9 GRAMS
TOTAL CAMERA WEIGHT: 111.0 GRAMS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	100	INITIAL RELEASE ECN 116015	10/17/11	BC



THIRD ANGLE PROJECTION



INTERPRET DRAWING
PER ASME Y14.5M-1994

UNLESS OTHERWISE SPECIFIED
SURFACE ROUGHNESS 32
.X = ±.1
.XX = ±.01
.XXX = ±.005
ANGULAR = ±.5°
FILLET RADII = .005 MAX

THIS DOCUMENT IS CONTROLLED TO FLIR TECHNOLOGY LEVEL 1.

THE INFORMATION CONTAINED IN THIS DOCUMENT PERTAINS TO A DUAL USE PRODUCT CONTROLLED FOR EXPORT BY THE EXPORT ADMINISTRATION REGULATIONS (EAR). FLIR TRADE SECRETS CONTAINED HEREIN ARE SUBJECT TO DISCLOSURE RESTRICTIONS AS A MATTER OF LAW. DIVERSION CONTRARY TO US LAW IS PROHIBITED. US DEPARTMENT OF COMMERCE AUTHORIZATION IS NOT REQUIRED PRIOR TO EXPORT OR TRANSFER TO FOREIGN PERSONS OR PARTIES UNLESS OTHERWISE PROHIBITED.

MATERIAL	PROJECT NO.		 FLIR Systems, Inc. 70 Castilian Drive Goleta, CA 93117	
	APPROVALS	DATE		
FINISH	DWN M. HOPKINS	10/17/11	TITLE IDD, TAU CAMERA, 25mm-f1.1, 25um 324x256	
	CHK			
UNLESS OTHERWISE SPECIFIED ALL MEASUREMENTS ARE IN INCHES. ALL DIMENSIONS IN [] ARE MM. DO NOT SCALE DRAWING.	DSGN		SIZE D CAGE 064Y2 DWG NO. 46-324, 25mm-f1.1 REV 100	
	ENG			
	APP			
CALC WT: 111.00 GRAMS			SCALE 3:1 PRINTED: 11/3/2011 SHEET 1 OF 2	



FLIR Systems, Inc.
70 Castilian Drive
Goleta, CA 93117

IDD, TAU CAMERA,
25mm-f1.1, 25um 324x256

SCALE 3:1 PRINTED: 11/3/2011 SHEET 1 OF 2

SOLIDWORKS MODEL: 46-Tau Camera Core
MODEL REVISION: B-WC

D

C

B

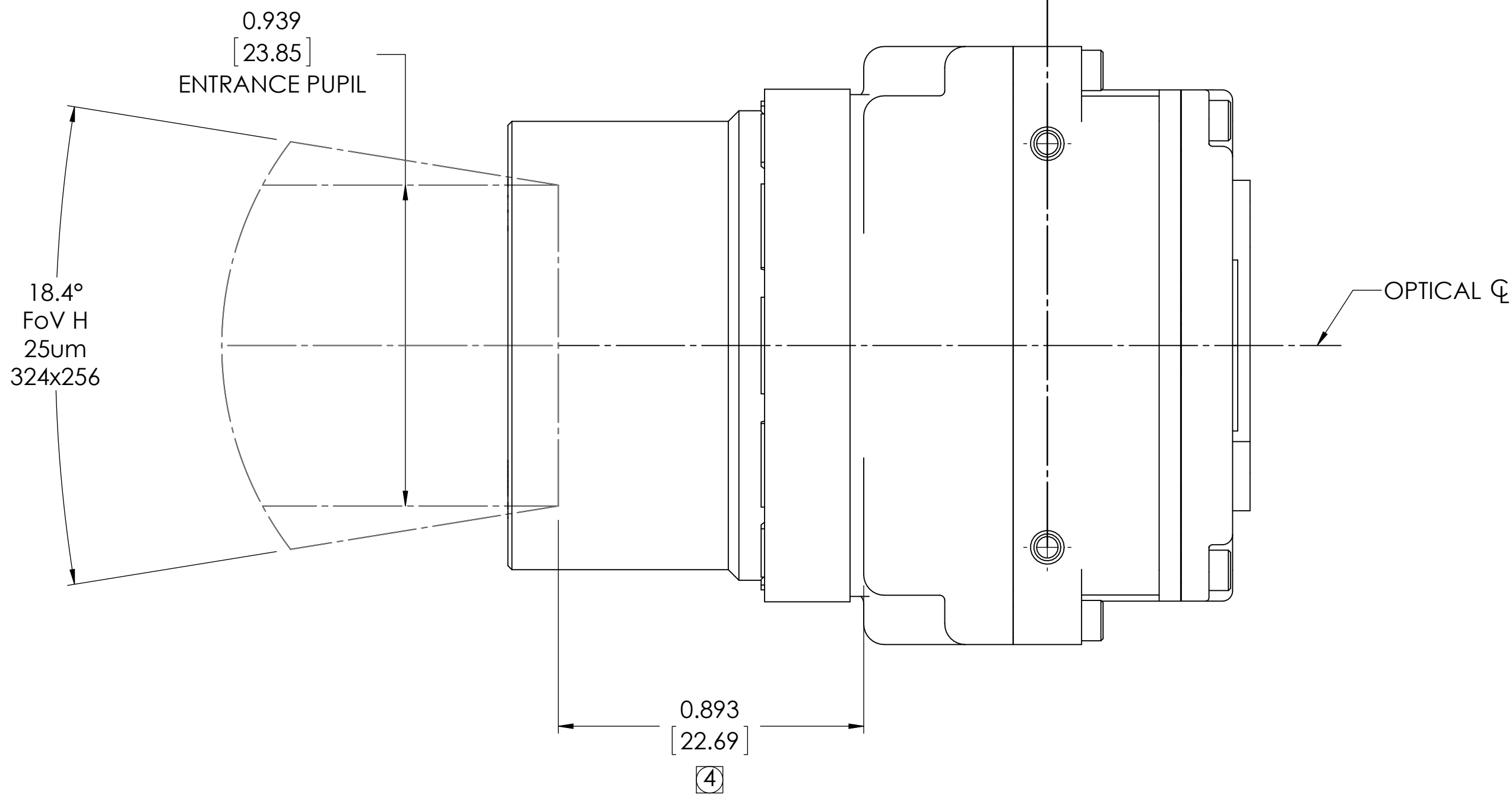
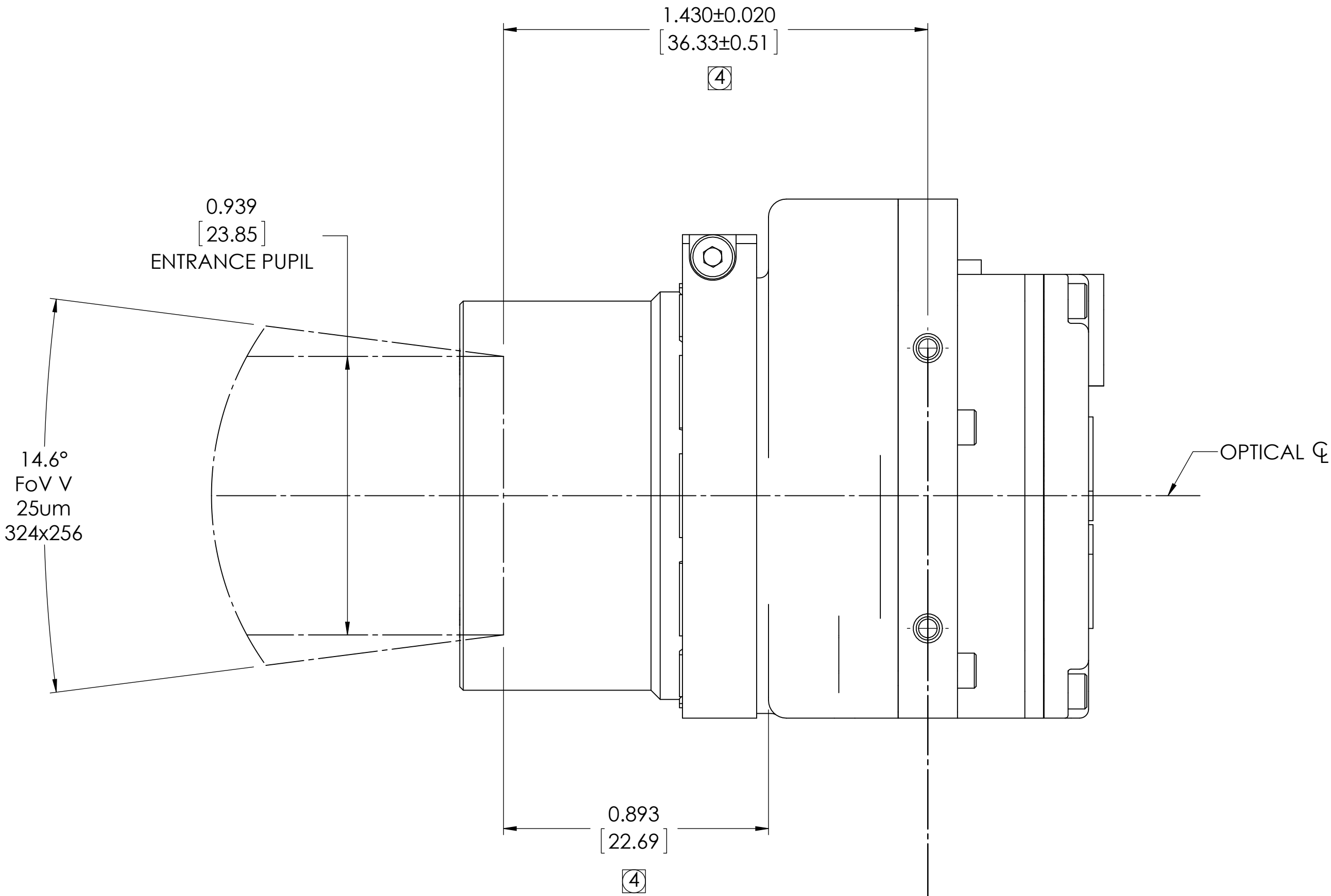
A

D

C

B

A



25 mm-f1.1
324x 256 ARRAY

IDD, TAU CAMERA,
25mm-f1.1, 25um 324x256

SIZE	CAGE	DWG NO.	REV
D	064Y2	46-324, 25mm-f1.1	100
SCALE	3:1	PRINTED: 11/3/2011	SHEET 2 OF 2
SOLIDWORKS MODEL: 46-Tau Camera Core MODEL REVISIONB-WC			