

NOTES: UNLESS OTHERWISE SPECIFIED

1. MODEL SHOWN ILLUSTRATES FLIR DUO PRO R, 19MM CONFIGURATION.
ENVELOPE OF 9-19MM MODELS IDENTICAL. SEE PAGE 2 FOR 25MM CONFIG.

2. CONNECTOR INTERFACES:

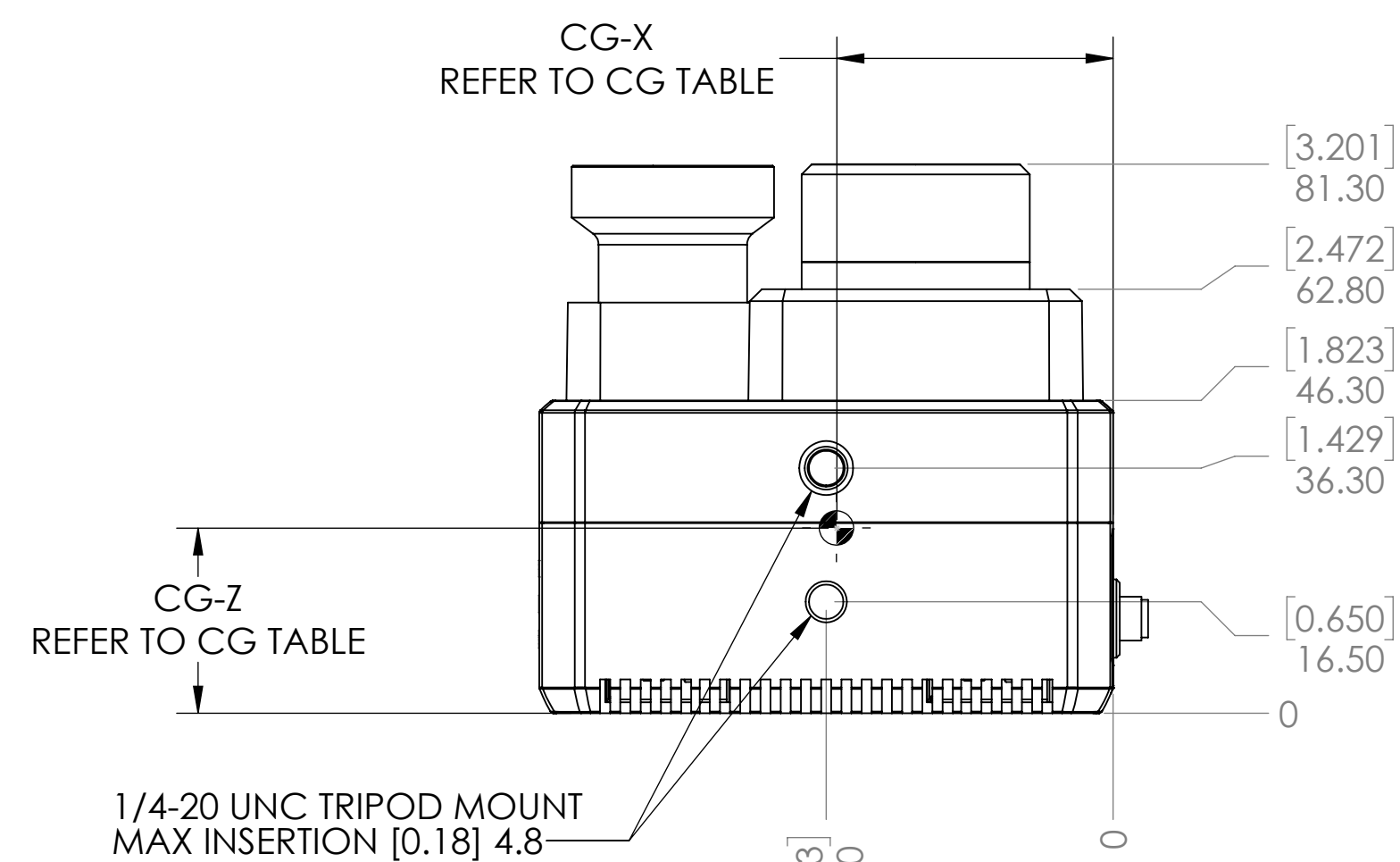
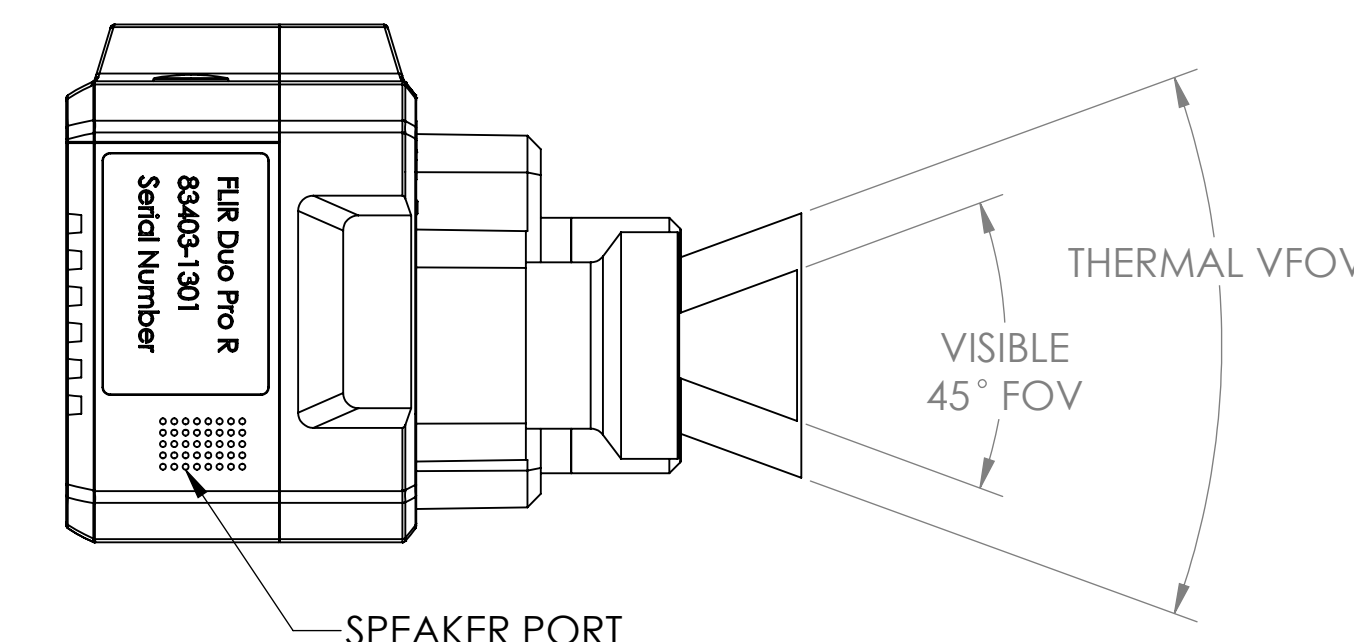
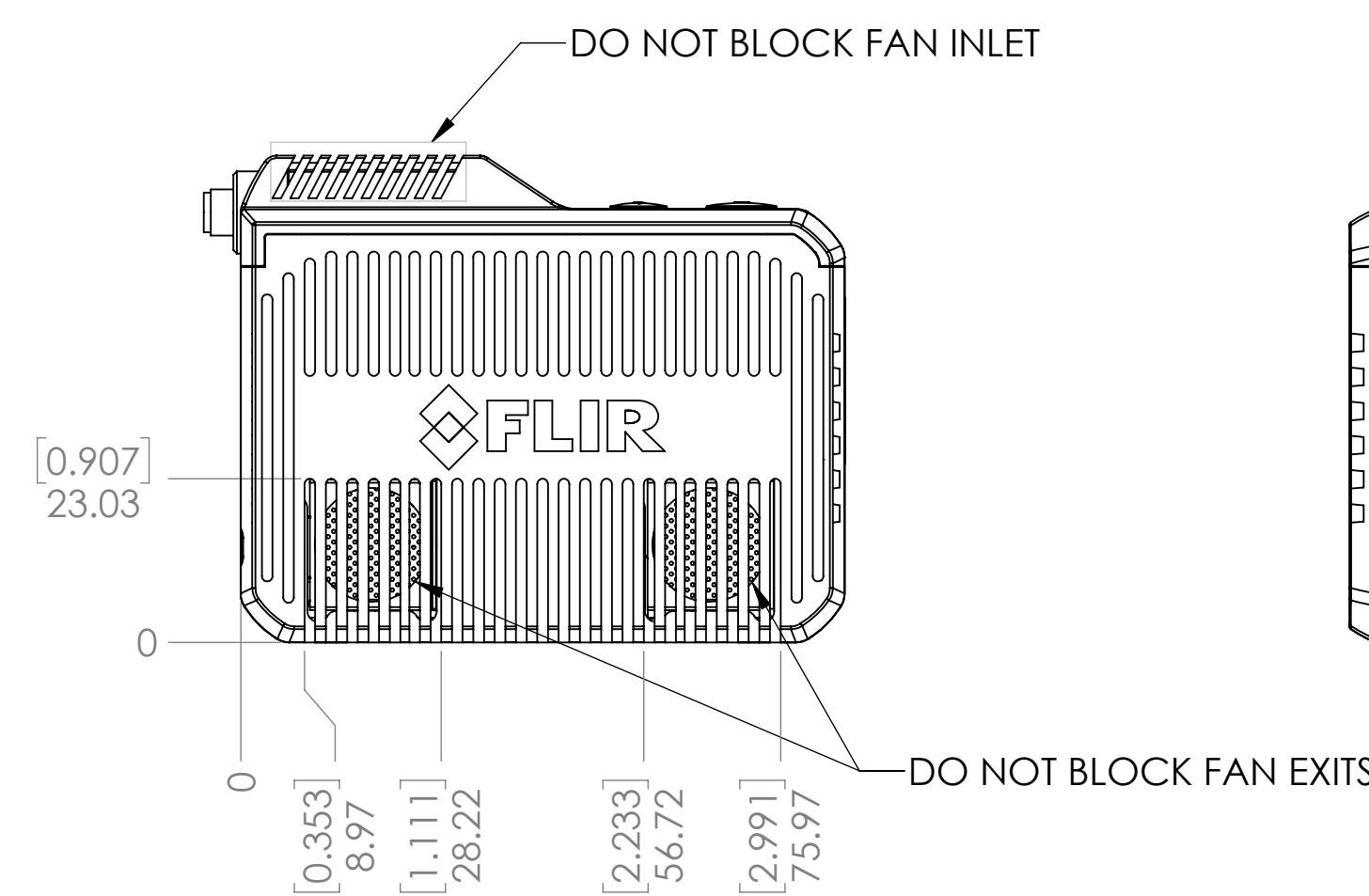
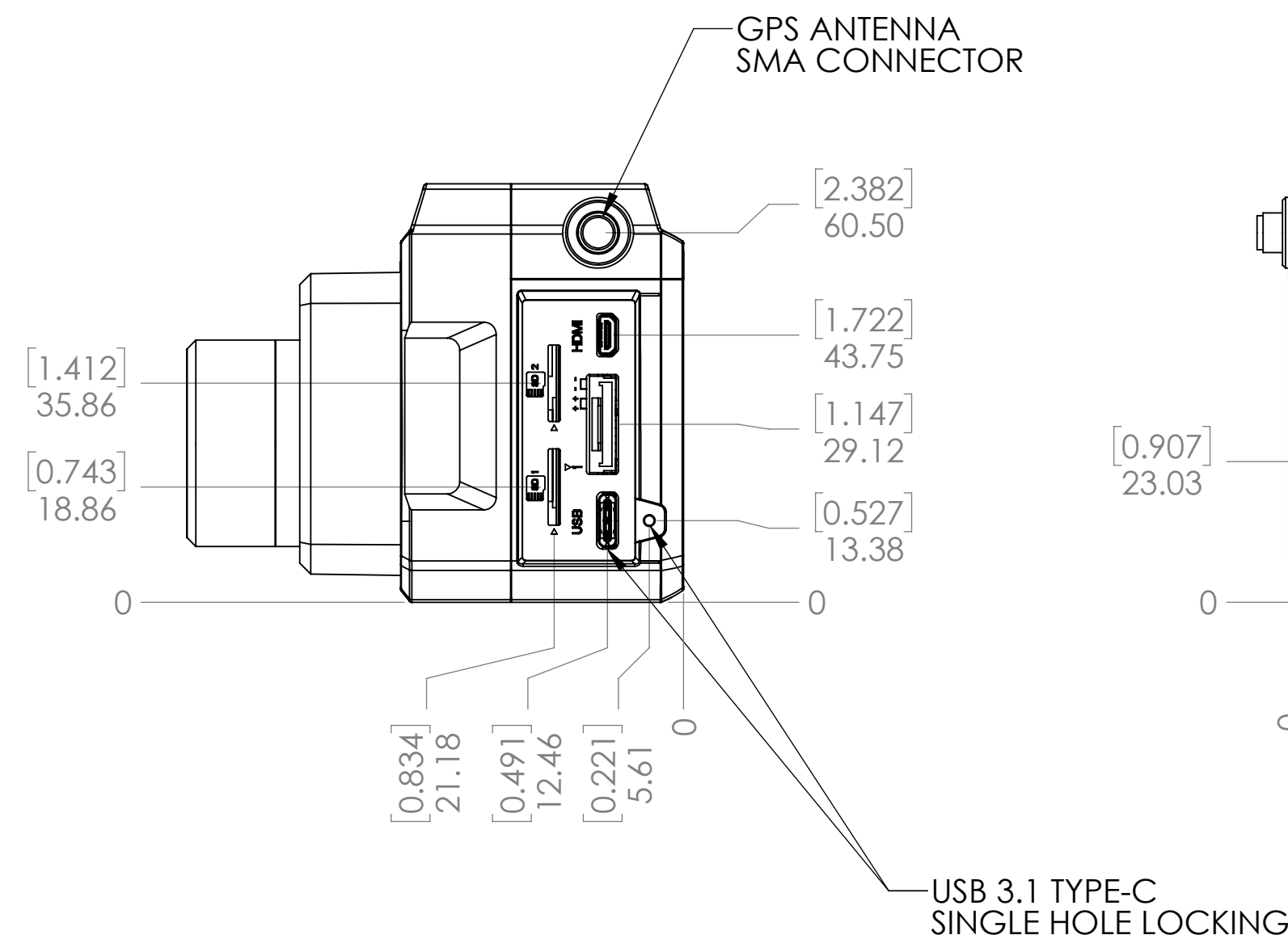
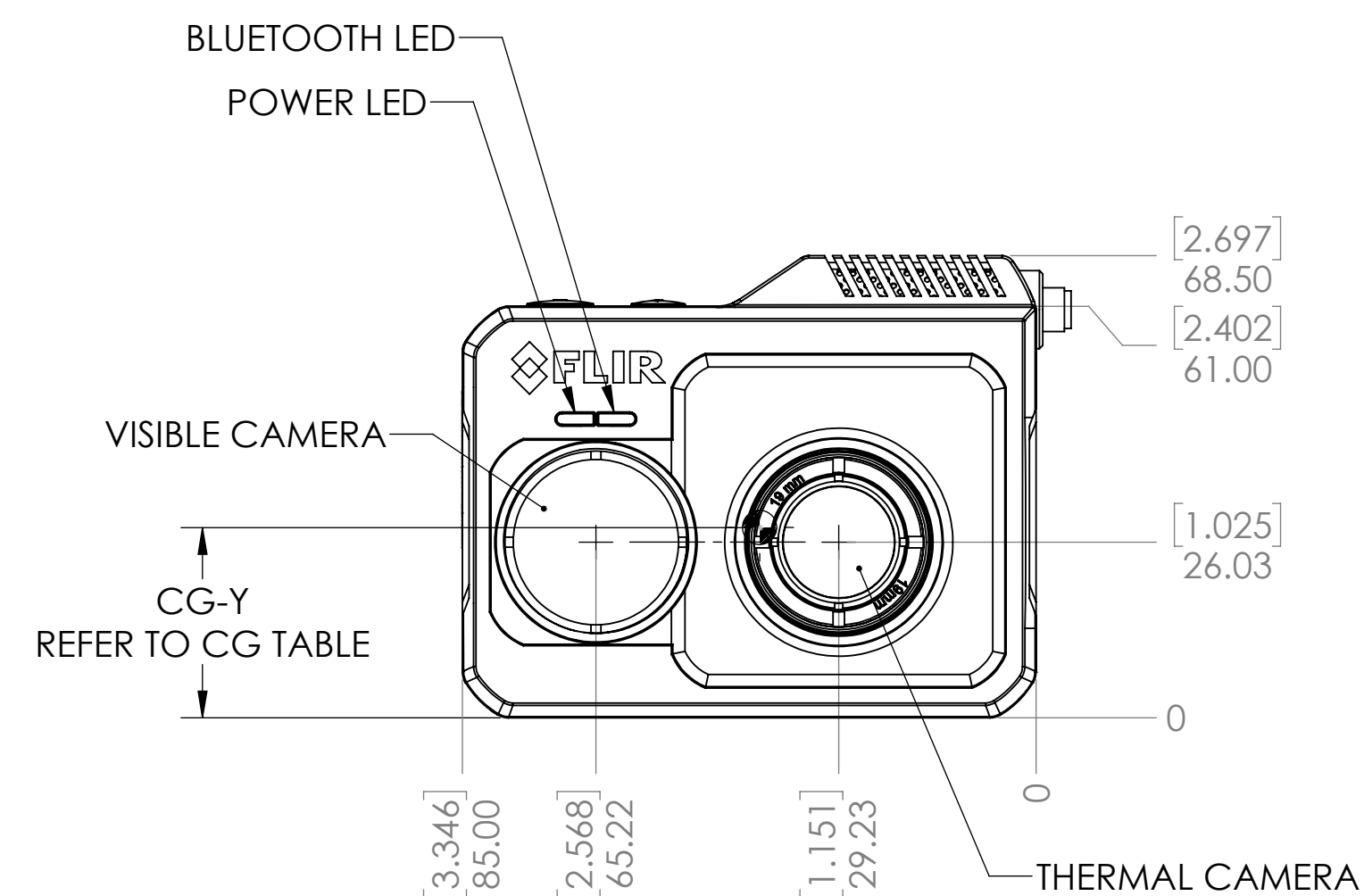
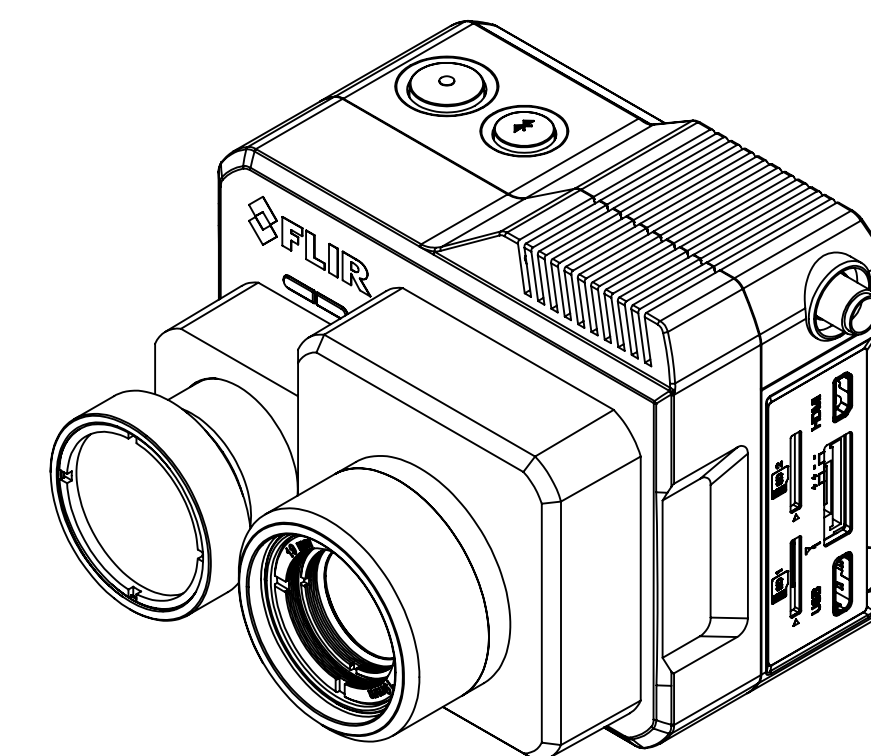
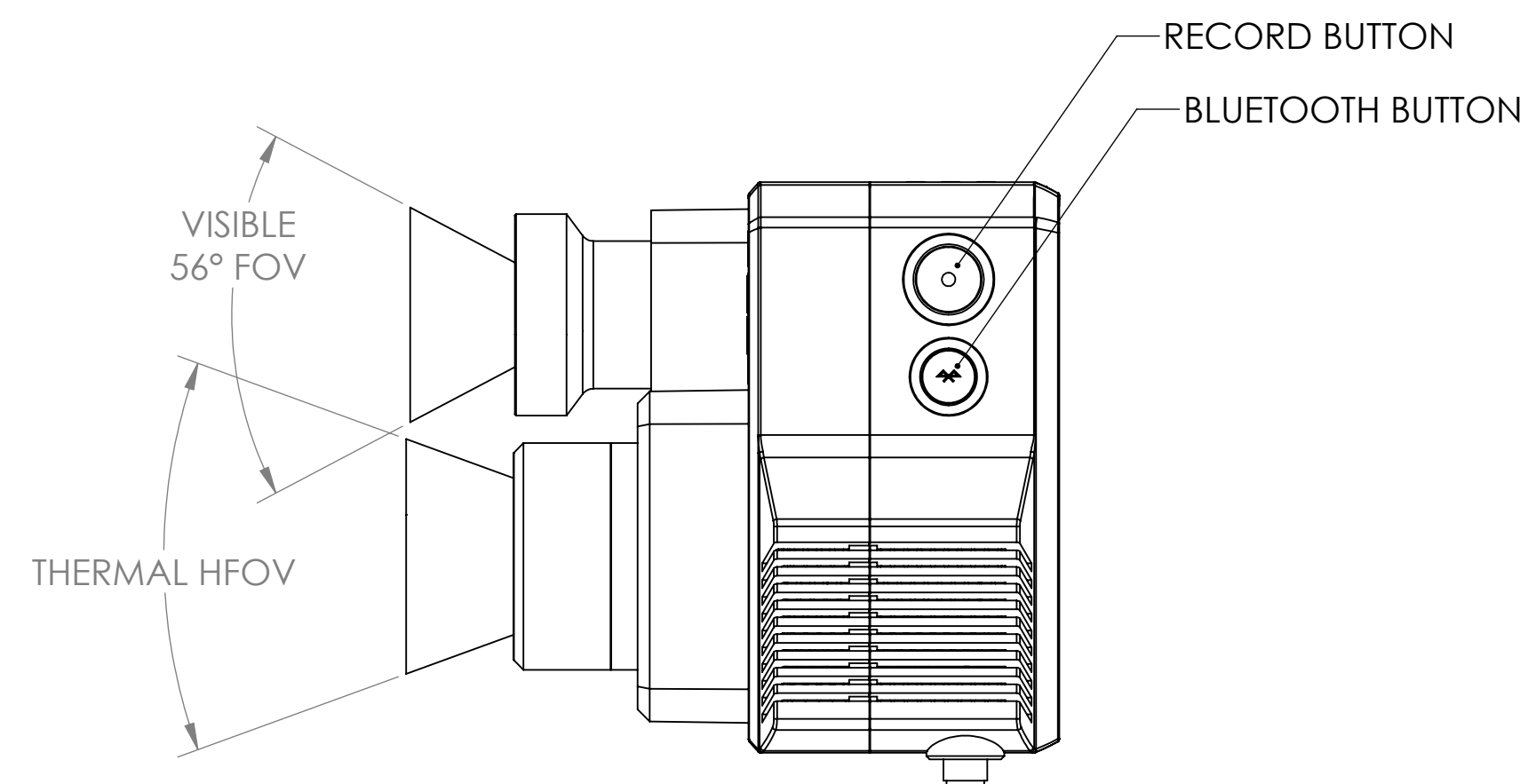
USB TYPE-C, DATA & POWER, 5VDC 12W MIN SUPPLY
MINI HDMI, 720/60, 1080/30, 1080/60
ACCESSORY PORT, 5.5-28VDC 12W MIN, MAVLINK I/O, PWM

3. PART CAD GENERATED. ALL DIMENSIONS NOT SHOWN ARE DERIVED FROM SOLID MODEL.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	100	INITIAL RELEASE	12/5/2017	MK

CENTER OF GRAVITY POSITION							
Duo Pro R	CG-X		CG-Y		CG-Z		MASS
	mm	[in]	mm	[in]	mm	[in]	
9mm	40.9	1.61	28.2	1.11	31.0	1.22	325
13mm	40.9	1.61	28.3	1.11	31.1	1.22	325
19mm	40.8	1.61	28.2	1.11	31.1	1.22	325
25mm	40.6	1.60	28.1	1.11	36.2	1.43	369

FIELD OF VIEW					
Duo Pro R	336		640		
	HFOV	VFOV	HFOV	VFOV	
9mm	35	27			
13mm	25	19	45	37	
19mm	17	13	32	26	
25mm			25	20	



JST GHR-10V				
Pin	Color	1st Function	2nd Function	Description
1	GRN	PWM1_IN	MAVLINK_TX	PWM, 3.3V
2	WHT	PWM2_IN	MAVLINK_RX	PWM, 3.3V
3	BLK	GND		Signal ground
4	ORG	PWM3_IN	FRAME SYNC	PWM and SYNC, 3.3V
5	PRP	CVBS_OUT		NTSC / PAL SWITCHABLE
6	GRY	CVBS_GND		
7	RED	PWR_IN		DC 5.5~28V main power input
8	RED	PWR_IN		DC 5.5~28V main power input
9	BLK	PWR_RTN		Main power return
10	BLK	PWR_RTN		Main power return

THIRD ANGLE PROJECTION

METRIC

INTERPRET DRAWING PER ASME Y14.5M-1994

UNLESS OTHERWISE SPECIFIED SURFACE ROUGHNESS .8 μm
X = ±.25
XX = ±.13
ANGULAR = ±.5°
FILLET RADII = .13 MAX

PROPRIETARY - FLIR SYSTEMS, INC.

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION TO FLIR SYSTEMS, INC. THIS INFORMATION MUST BE MAINTAINED IN CONFIDENCE AND USED ONLY IN A MANNER CONSISTENT WITH THE DOCUMENTATION AND ANY EXECUTED NON DISCLOSURE AGREEMENT, AND MAY NOT BE DISCLOSED TO ANY THIRD PERSON WITHOUT FLIR'S WRITTEN CONSENT.

MATERIAL	PROJECT NO.	APPROVALS		DATE
SEE NOTE 1		DWN	CHK	
FINISH	SEE NOTE 2	DSGN	ENG	APP
UNLESS OTHERWISE SPECIFIED ALL MEASUREMENTS ARE IN MM. ALL DIMENSIONS IN () ARE INCHES. DO NOT SCALE DRAWING.				
CALC WT: 151.575 GRAMS	SCALE 1:1	CAGE 064Y2	DWG NO. 83403-1301	REV 100

TITLE: FLIR Duo Pro R

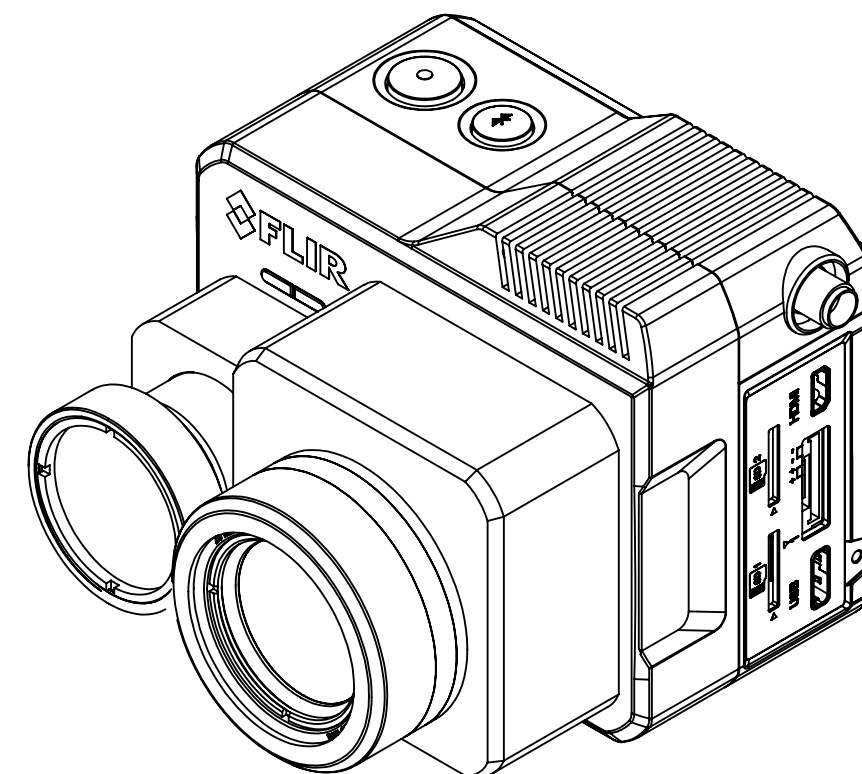
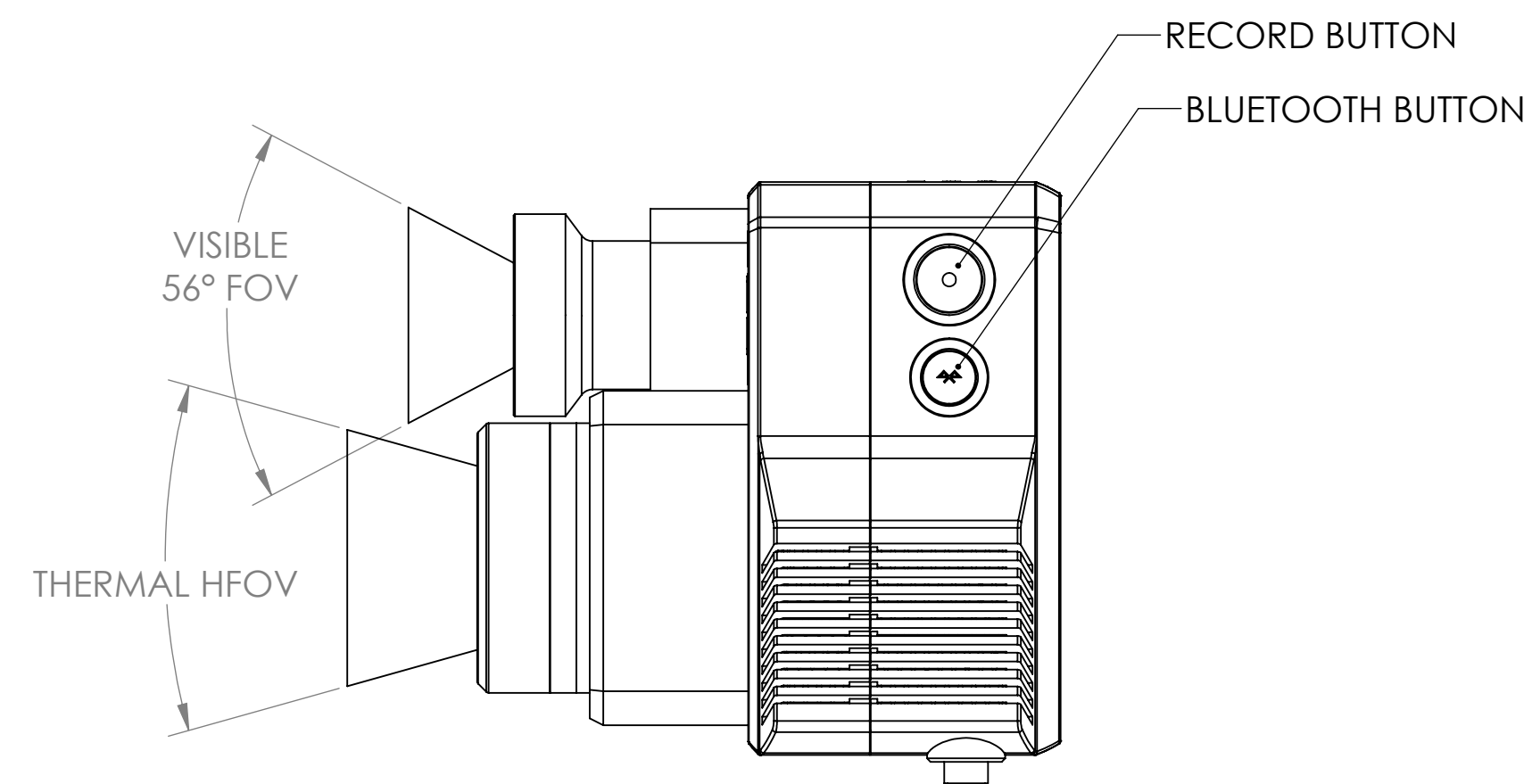
DATE: 12/5/2017

SHEET 1 OF 2

SOLIDWORKS MODEL: MODEL REVISION: 100

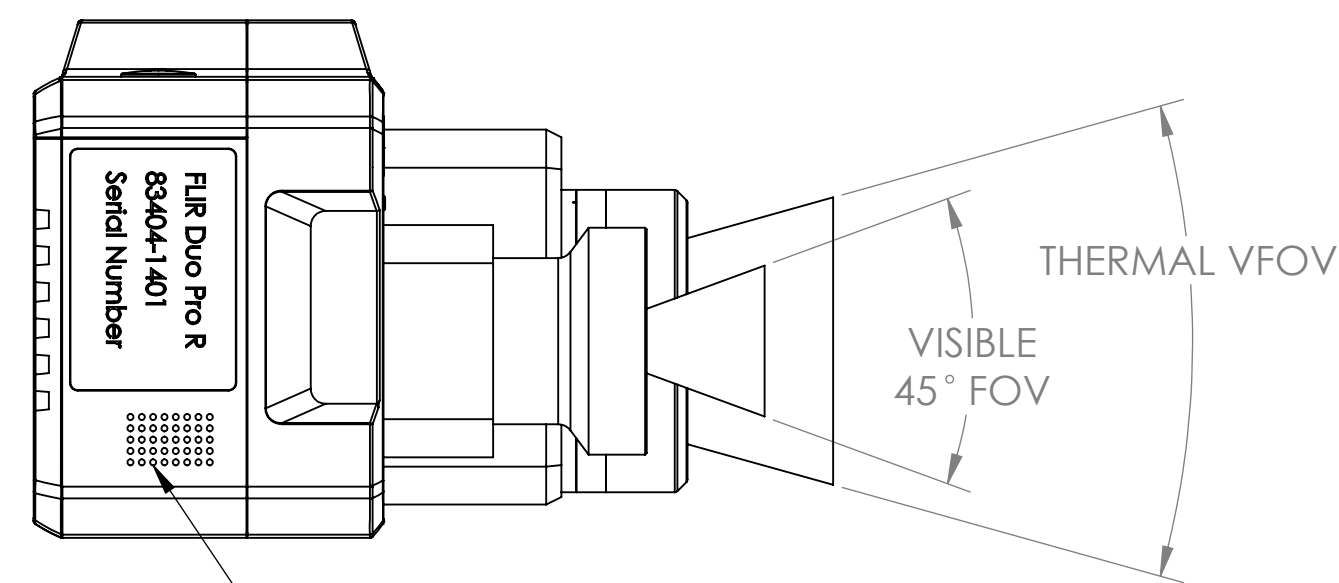
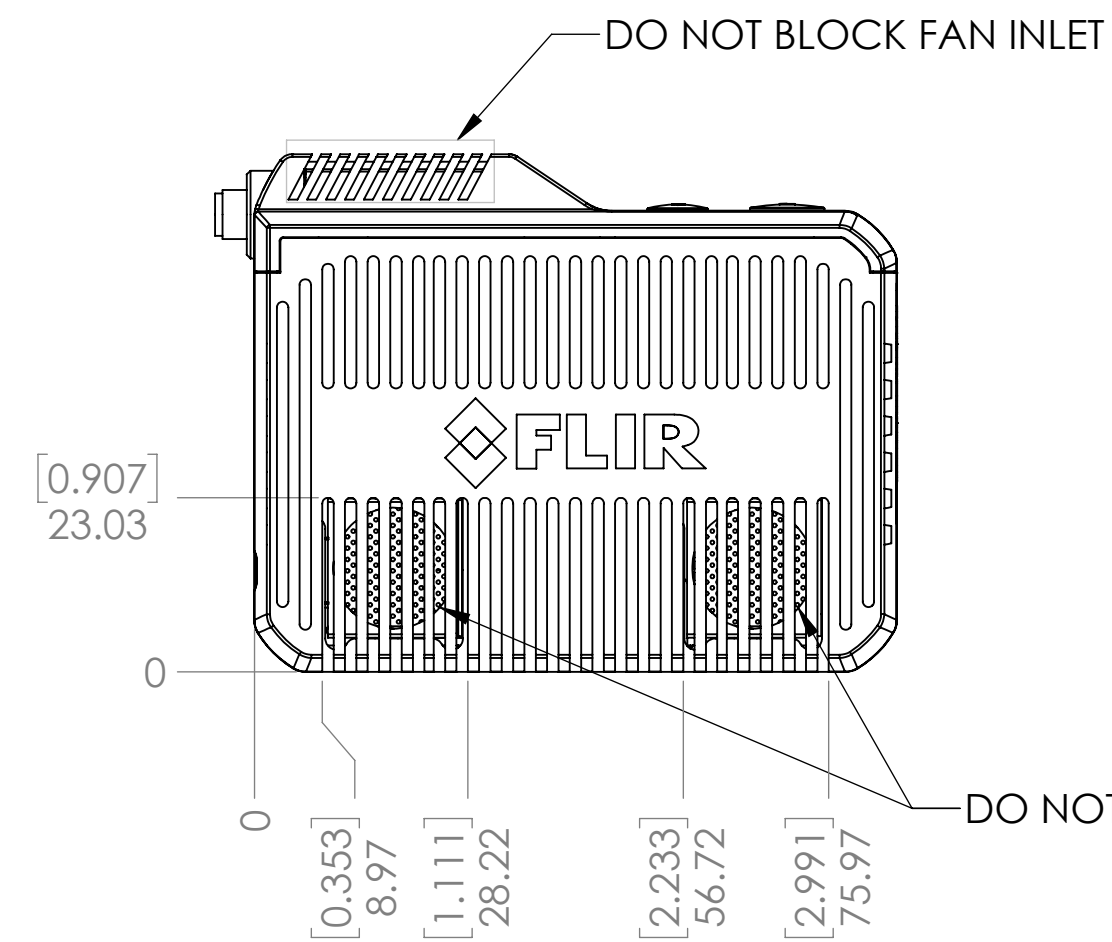
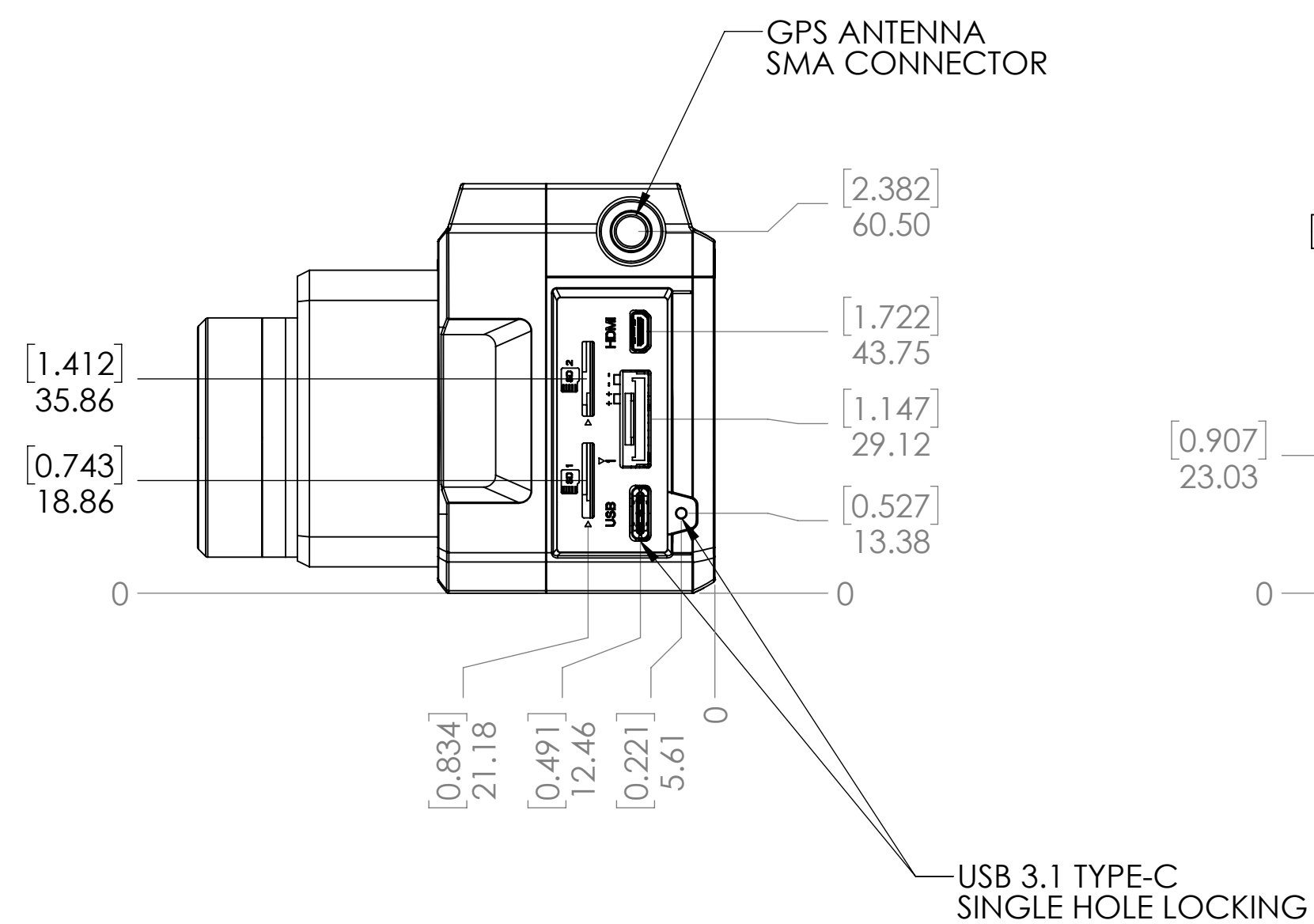
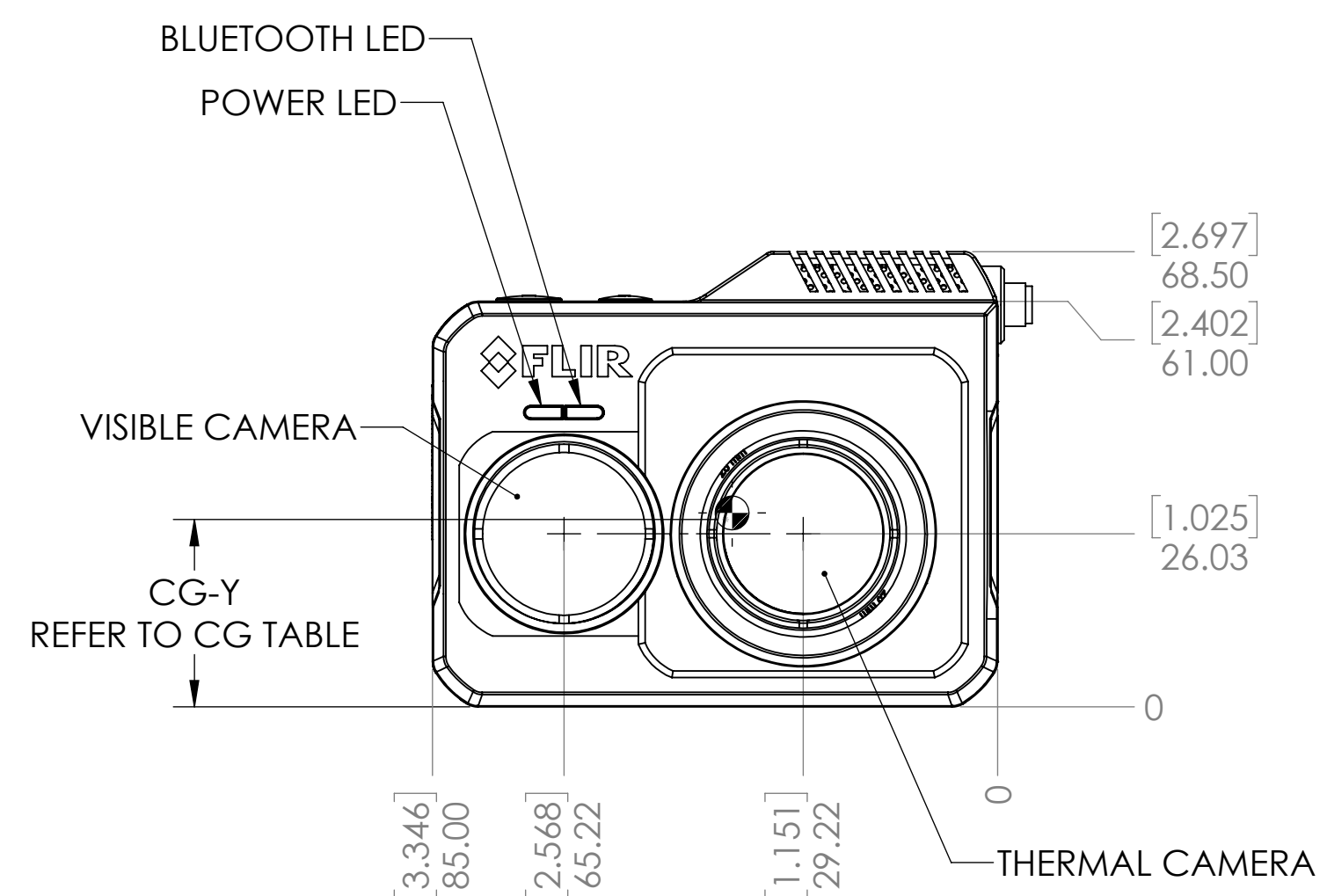
D

D



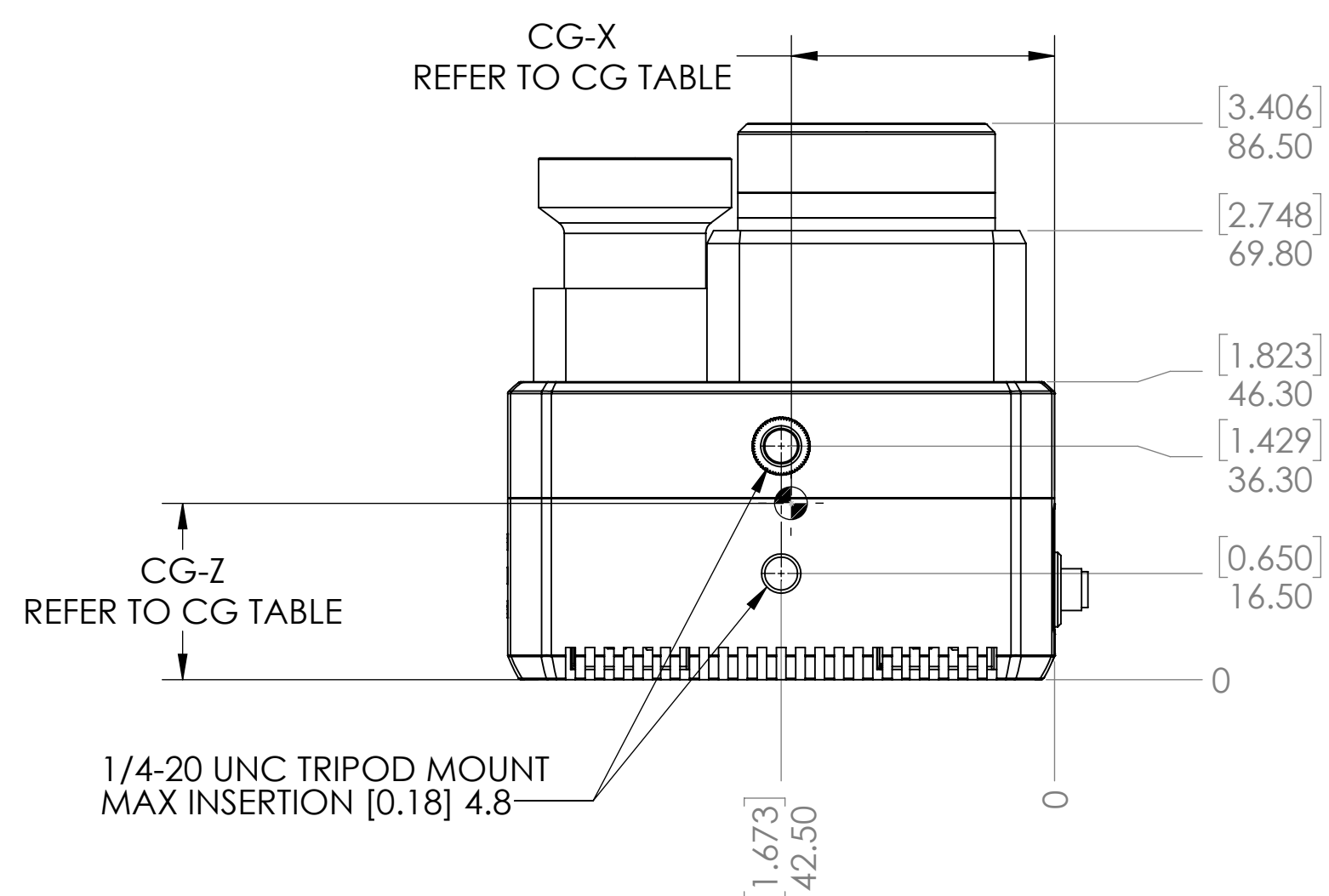
C

C



B

B



A

A

FLIR Duo Pro R
640 25MM CONFIGURATION

METRIC



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

PROPRIETARY - FLIR SYSTEMS, INC.	SIZE D	CAGE 064Y2	PIECE PART. 83403-1301	REV 100
SCALE 1:1	PRINTED: 12/5/2017	SHEET 2 OF 2		

SOLIDWORKS MODEL: Top level TyTau
MODEL REVISION: 100