

System Specifications



DETECT • RECOGNIZE • IDENTIFY

SYSTEM OVERVIEW

SYS. SPECIFICATIONS

THERMAL CAMERA

THERMAL CAMERA PERFORMANCE

FIRE DETECTION

FD PERFORMANCE

PAN/TILT POSITIONER

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- Sii PTZ
- PEDESTAL EXTENSION
- FIXED Sii ML
- FIXED Sii AT
- FIRE DETECT WIRING

System Overview

The **Sii** line of cameras is a broad portfolio of high performance outdoor rated thermal cameras for 24/7 perimeter surveillance, observation, and monitoring of critical infrastructure and sensitive sites.

Sii is available as a fixed camera system or mounted on a Pan/Tilt Positioner and offers a variety of optics including fixed single field of view athermalized lenses (Sii AT), fixed field of view motorized focus, dual field of view zoom, and continuous zoom lenses (Sii ML), and an extremely long range 150mm fixed motorized focus lens (Sii MLX) for fitting the camera into a wide variety of security applications.

Sii is ruggedly designed to withstand the harshest weather and environmental conditions, including rain, direct sunlight, high humidity, dust, heat, and cold.



FIRE DETECTION

The Sii line of thermal cameras is the world's first camera system that can provide both safety and security in one camera system. Users have the option to add embedded flame and fire risk detection algorithms into several Sii models.

Fire Detection is ideal for facilities with flammable materials, transportation tunnels, combustible storage areas, and locations near flammable forest and brush that are sensitive to fire danger.

Sii Enclosures



Sii ML on PTZ



APPLICATIONS

- Port Security
- Airport Perimeters
- Nuclear Power Plants
- Border Surveillance
- Critical Infrastructure
- Oil and Gas facilities

MAJOR COMPONENTS

- Thermal Camera - Long Wave Infrared imaging camera
- Thermal Camera Lens - Fixed and zoomable optical lens options
- Pan/Tilt Positioner - High accuracy pan/tilt unit
- Pedestal Extension - Pedestal Mount Extension Adaptor
- Payload Cable - Connects camera to Pan/Tilt unit
- Control Cable - Connects system to external power, video, comm.

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POWER REQUIREMENTS:

- Power Input: 11-32vdc (fixed); 24vdc $\pm$ 1% (PTZ)
- Power Consumption:

	Continuous	Max
Fixed Athermalized	<4w	<4w
Fixed Motorized	<4w	11w
Fixed DFOV Motorized	<4w	20-24w
PTZ:	<35w	120w

ENVIRONMENTAL:

- Storage Temperature:

-40°C to +70°C
-40° F to +158° F
- Operating Temperature:

-40°C to +60°C
-40° F to +140° F
- Humidity: +40°C , 93% RH
- Salt Fog: according to MIL STD 810E method 509.3
- Environmental Rating: IP66

MECHANICAL PARAMETERS:

- Click button to see the Sii Weights & Dimensions Tables

[Click for Fixed Sii W&D](#)
[Click for Sii PTZ W&D](#)

THERMAL CAMERA

- Imager Type: Uncooled Microbolometer
- Spectral Band: 7.5-14 μ
- Pixel Size / Resolution:

17 μ / 640 x 480 NTSC / PAL
25 μ / 320 x 240 NTSC (384 x 288 PAL)
- NETD:

17 μ 640 x 480: <50° mK
25 μ 320 x 240: <50° mK

VIDEO FORMAT:

- RS-170/CCIR, 1.0V p-p, 75ohm
- MJPEG or H.264 (Sii IP)

COMMUNICATION:

- Control connections: RS-422/RS485 4 wires
- Control protocols: Pelco D, Vumii
- Remote operation: Serial, IP (optional)

PAN/TILT UNIT

- Pan Range / Speed: 360° continuous / 0-100° per second
- Tilt Range / Speed: -90° to +90° / 0-50° per second
- Backlash: <0.2°
- # of Presets: 64

EMC:

- FCC 47 CFR part 15 sub B, Class A
- EN 55022
- EN 55024

SAFETY:

- EN 60950-1: 06
- EN 60950-22: 06 and A11:08

STANDARDS:

- IP66
- UL50E
- MIL STD 810F
- IEC 60721-4-4
- IEC 60068
- IEC 60529

CERTIFICATION:

- CE
- FCC
- RoHS

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THERMAL CAMERA

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The Sii Thermal Camera is available in 17μ 640 x 480 resolution (NTSC/PAL) or 25μ 320 x 240 resolution (NTSC) and 25μ 384 x 288 resolution (PAL). Either camera can be paired with a wide variety of lens options.

LENS OPTIONS

■ Fixed Field of View

- 25mm, 50mm, 75mm, 150mm focal length.
- Motorized Focus or Autofocus on Demand.
- High Quality f1.0 Optics

■ Dual Field of View

- Includes 45 and 135mm focal lengths.
- Operator selectable wide or narrow field of view

■ Continuous Zoom

- 15-100 mm motorized continuous zoom.
- Motorized AutoFocus on demand

■ Fixed Field of View Athermalized

- 8.5mm, 14mm, 19mm, 35mm, 50mm, 60mm, 100mm
- Focus Free - Depth of Focus is factory preset



Vumii 320 x 240 Core



Vumii 640 x 480 Core



Horizontal Field of View listings by Engine & Lens Type			
Lens	17μ 640 x 480 HFOV	25μ 320 x 240 HFOV	25μ 384 x 288 HFOV
8.5mm Athermalized (focus free)	73.3°	53.9°	64.7°
14mm Athermalized (focus free)	44.5°	32.7°	39.3°
19mm Athermalized (focus free)	33.2°	24.4°	29.3°
35mm Athermalized (focus free)	17.8°	13.1°	15.7°
50mm Athermalized (focus free)	12.5°	9.2°	11.0°
60mm Athermalized (focus free)	10.4°	7.6°	9.2°
100mm Athermalized (focus free)	6.2°	4.6°	5.5°
25mm f1.0 Motorized Focus	25.0°	18.3°	22.0°
50mm f1.0 Motorized Focus	12.5°	9.2°	11.0°
75mm f1.0 Motorized \focus	8.3°	6.1°	7.3°
150mm f1.0 Motorized \focus	4.2°	6.1°	3.7°
45/135mm f1.1/f1.6 Dual FOV Motorized	13.9° / 4.6°	10.2° / 3.4°	12.2° / 4.1°
15mm-100mm f1.1 - f1.4 CZ	41.6° - 6.2°	13.9° - 4.6°	36.7° - 5.5°

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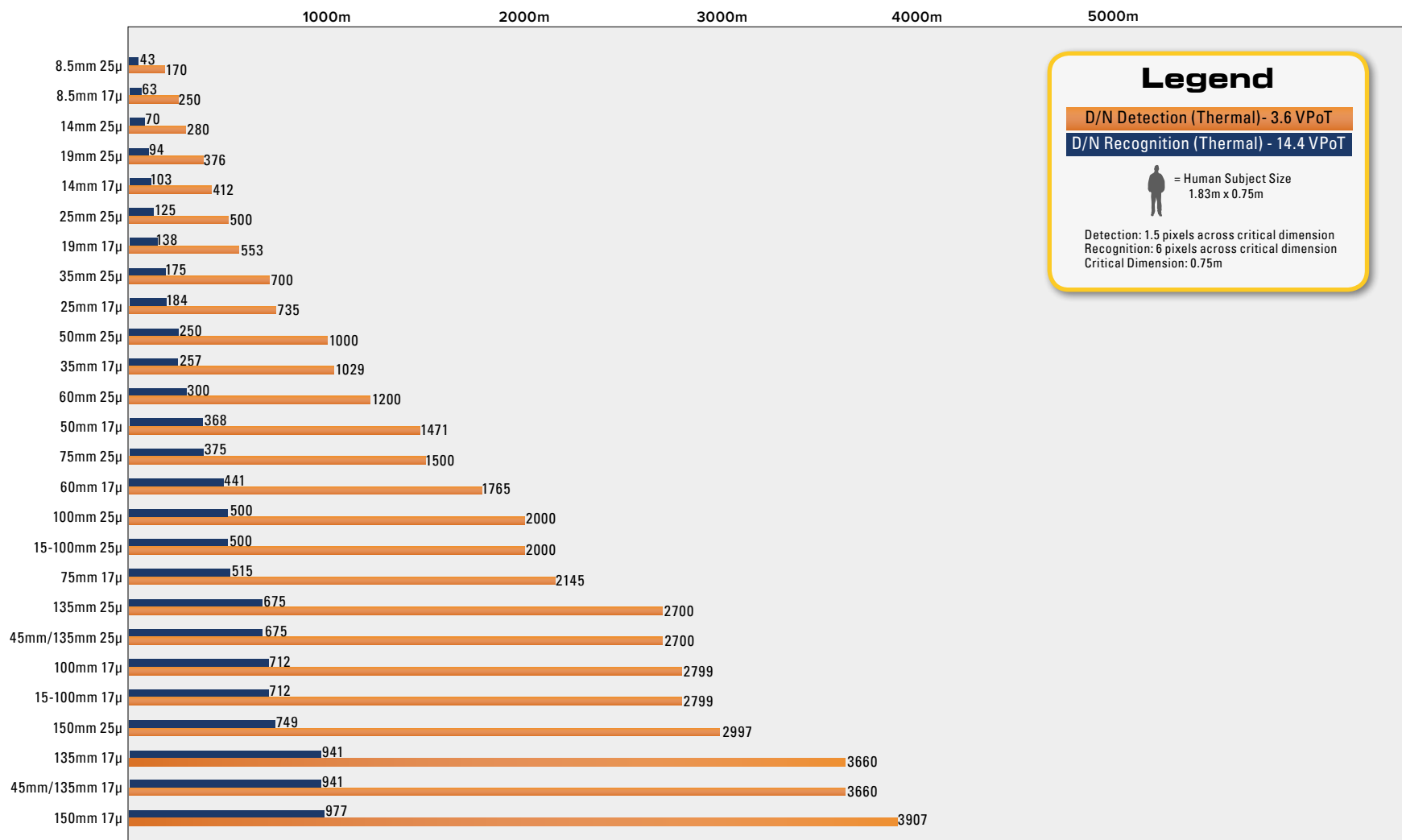
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THERMAL CAMERA PERFORMANCE



*Performance Dependent on Atmospheric Conditions

100m = 328ft 1000m = .62 mi
500m = 1640ft 1610m = 1 mi

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Sii FIRE DETECTION THERMAL SAFETY & SECURITY CAMERA

DESCRIPTION

Available in 17u 640 x 480 cameras, Vumii's Sii FD solution brings unique value to customers in areas of high risk of fire. Facilities with flammable materials, transportation tunnels, combustible storage areas, and perimeter sites located near flammable forest and bush are all sensitive to fire danger, Sii FD can be used for both safety and security at these unique site locations.

FEATURES

■ 2 Detection Algorithms

- Flame Detection
- High Fire Risk Area Detection

■ 3 Alarm Types

- Alarm Video Overlay
- Alarm via Serial Communication
- Dry Contact Closure Outputs

■ Detection Specifications

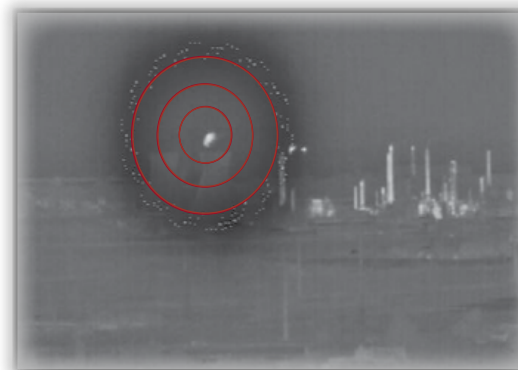
- Time to Detection: 3 Seconds Maximum
- Up to 5 simultaneous fires detected

■ Communication

- Vumii Protocol

■ Control Features

- Enable/Disable Detection (Risk Area & Flame)
- Set Alarm Temperature Threshold (Risk Area)
- Set up to Five Regions of Non Interest (Risk Area)



FIRE DETECTION CONFIGURATION OPTIONS

Thermal Core	Lens Type	Horizontal Field of View
17u 640x480	8.5mm f/1.2 Athermalized	73.3°
	14mm f/1.2 Athermalized	44.5°
	19mm f/1.2 Athermalized	33.2°
	25mm f/1.0 Motorized Focus	25.0°
	35mm f/1.2 Athermalized	17.8°
	60mm f/1.25 Athermalized	10.4°
	45/135mm f/1.1-f/1.6 Dual FOV Motorized	13.9° / 4.6°

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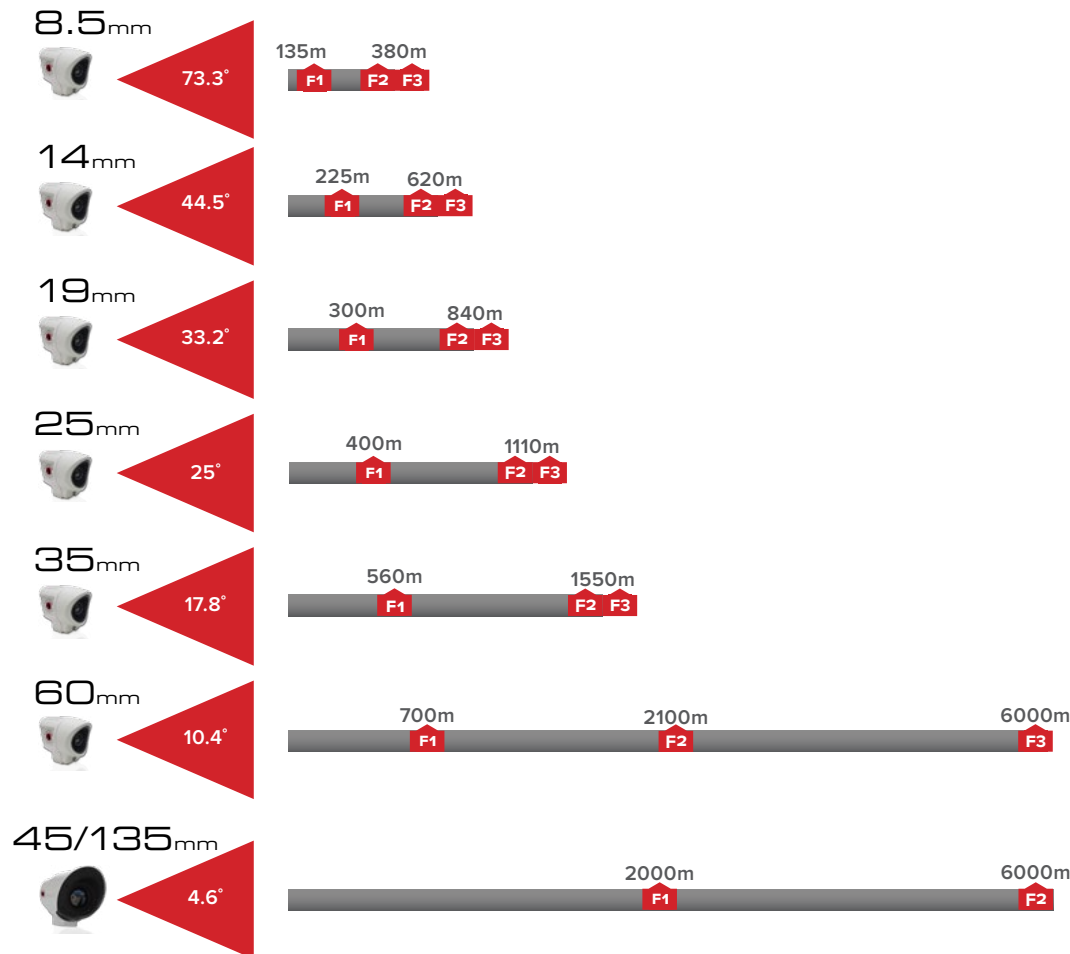
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FIRE DETECTION PERFORMANCE

17μ 640x480



LEGEND

SIZE OF FIRE CAPABLE OF BEING DETECTED



*Performance Dependent on Atmospheric Conditions

100m = 328ft
500m = 1640ft
1000m = .62 mi
1610m = 1 mi

*Ranges may be reduced by environmental variables

*Detection Range data assumes a line of sight between fire and camera

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PAN/TILT POSITIONER

OVERVIEW

The high accuracy Pan/Tilt Positioner provides continuous 360° pan and +/- 90° tilt

SPECIFICATIONS

Pan Range	360° Continuous
Tilt Range	-90° to +90°
Pan Speed	0-100°/sec
Tilt Speed	0-50°/sec
Backlash	<0.2°
Number of presets	64
Speed Variability	On-the-fly speed changes

Sii PTZ Pan/Tilt Positioner



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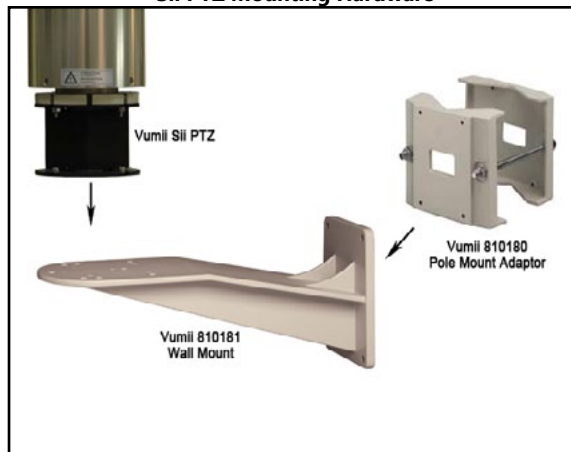
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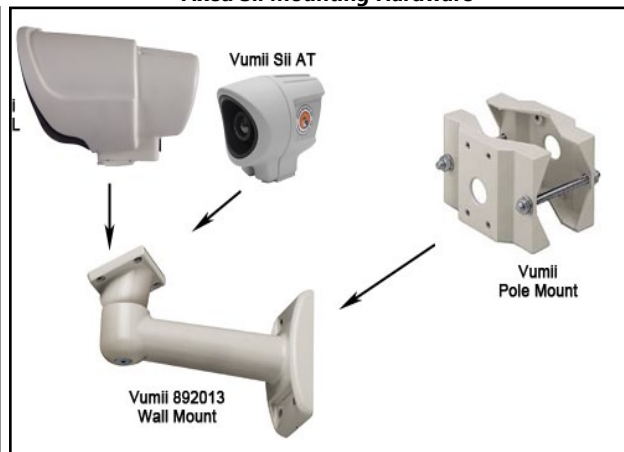
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CAMERA MOUNTS

Sii PTZ Mounting Hardware



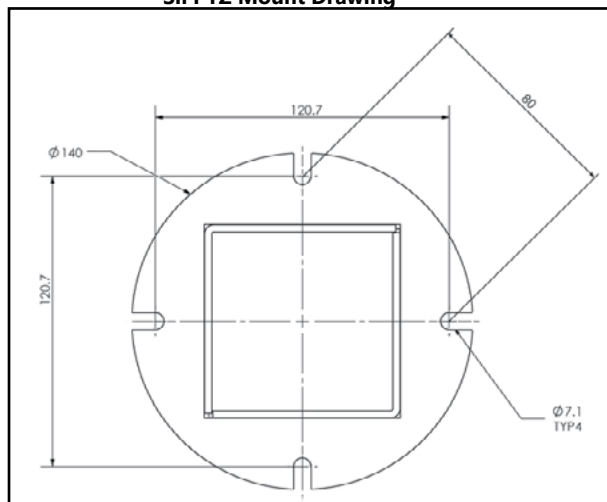
Fixed Sii Mounting Hardware



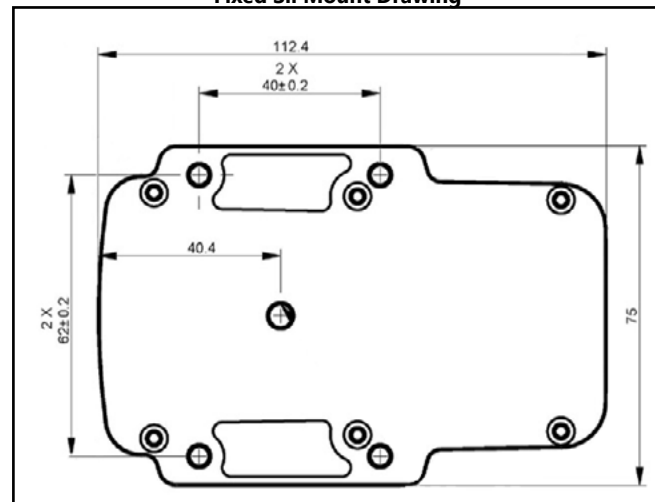
Description	Part Number
Sii PTZ (AT&ML)	
Wall Mount	810181
Pole Mount Adaptor	810180
Fixed Sii (AT&ML)	
Wall Mount	892013
Pole Mount Adaptor	

CUSTOM MOUNTING INFORMATION

Sii PTZ Mount Drawing



Fixed Sii Mount Drawing



Sii™ PTZ uses 1/4"-20 (7/8")
Mounting hardware

Fixed Sii™ uses M5 (metric
5mm) Mounting hardware

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INTEGRATION CABLE

Choose Camera Type to See the Wiring Diagram

FIXED Sii

Sii PTZ

Serial

IP

IP (PoE)

Serial

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ORDERING INFORMATION

Fixed Sii consists of the camera and a 3m long control cable.

Fixed Sii can be ordered with several thermal core and lens combinations. These components ship as an integrated system.

Sii PTZ consists of the camera, a pan/tilt positioner, a and pan/tilt pedestal mount extension with connector attached.

Sii PTZ can be ordered with several thermal core and lens combinations. These components ship as as an integrated system.

Engine	Model Name	Part Number (Analog Cameras)	Part Number (IP Cameras)	Part Number (PTZ Cameras - Analog)	Lens Type	Fire Detection
17μ 640x480	Sii AT	CS8A17V-0A010	CS8A17V-0N010		8.5mm f/1.2, Athermalized, Fixed Focus	Available
		CS14A17V-0A010	CS14A17V-0N010		14mm f/1.2, Athermalized, Fixed Focus	
		CS19A17V-0A010	CS19A17V-0N010		19mm f/1.2, Athermalized, Fixed Focus	Available
		CS35A17V-0A010	CS35A17V-0N010		35mm f/1.2, Athermalized, Fixed Focus	Available
		CS50A17V-0A010	CS50A17V-0N010		50mm f/1.2, Athermalized, Fixed Focus	
		CS60A17V-0A010	CS60A17V-0N010		60mm f/1.2, Athermalized, Fixed Focus	Available
		ES100A17V-0A010	ES100A17V-0N010		100mm f/1.6, Athermalized Fixed Focus	Available
	Sii ML	ES25M17V-0A000	ES25M17V-0N000	ES25M17V-2N000	25mm f/1.0, Motorized Focus	Available
		ES50M17V-0A000	ES50M17V-0N000	ES50M17V-2N000	50mm f/1.0, Motorized Focus	
		ES75M17V-0A000	ES75M17V-0N000	ES75M17V-2N000	75mm f/1.0, Motorized Focus	
		ES135D17V-0A000	ES135D17V-0N000	ES135D17V-2N000	45/135mm f/1.1 / f/1.6 Dual Field of View	Available
		ES100Z17V-0A000	ES100Z17V-0N000	ES100Z17V-2N000	15-100mm f/1.1 - f/1.4 Continuous Zoom	
	Sii MLX	ES150M17V-0A000			150mm f/1.0 Motorized Focus	
25μ 320x240	Sii AT	CS8A25Q-0A010	CS8A25Q-0N010		8.5mm f/1.2, Athermalized, Fixed Focus	
		CS14A25Q-0A010	CS14A25Q-0N010		14mm f/1.2, Athermalized, Fixed Focus	
		CS19A25Q-0A010	CS19A25Q-0N010		19mm f/1.2, Athermalized, Fixed Focus	
		CS35A25Q-0A010	CS35A25Q-0N010		35mm f/1.2, Athermalized, Fixed Focus	
		CS50A25Q-0A010	CS50A25Q-0N010		50mm f/1.2, Athermalized, Fixed Focus	
		CS60A25Q-0A010	CS60A25Q-0N010		60mm f/1.2, Athermalized, Fixed Focus	
		ES100A25Q-0A010	ES100A25Q-0N010		100mm f/1.6, Athermalized Fixed Focus	
	Sii ML	ES25M25Q-0A000	ES25M25Q-0N000	ES25M25Q-2N000	25mm f/1.0, Motorized Focus	
		ES50M25Q-0A000	ES50M25Q-0N000	ES50M25Q-2N000	50mm f/1.0, Motorized Focus	
		ES75M25Q-0A000	ES75M25Q-0N000	ES75M25Q-2N000	75mm f/1.0, Motorized Focus	
		ES135D25Q-0A000	ES135D25Q-0N000	ES135D25Q-2N000	45/135mm f/1.1 / f/1.6 Dual Field of View	
		ES100Z25Q-0A000	ES100Z25Q-0N000	ES100Z25Q-2N000	15-100mm f/1.1 - f/1.4 Continuous Zoom	
	Sii MLX	ES150M25Q-0A000			150mm f/1.0 Motorized Focus	

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Sii ACCESSORIES ORDERING INFORMATION

Vumii Accessories			
Camera Compatibility	Accessory	Part #	Provider
Sii PTZ AT & ML	Electronics Unit (EU) for 100 - 240vac pwr input (Analog Video & Serial Comm)	EU-24DC-00000	Vumii
	Electronics Unit (EU) for 100 - 240vac pwr input and TCP/IP Video/Communication	EU-24DC-E0000	Vumii
	Software/User Manual CD	4S7K0110A	Vumii
	Pan/Tilt Unit Connector (18 pin)	892001	Vumii
	24VDC 10A Outdoor Rated Power Supply (IP65)	880575LF	Vumii
	24VDC 3.5A Indoor Rated Power Supply	810007	Vumii
Fixed Sii AT & ML	Integration cable (3m length)	4S7H0060A	Vumii
	115/230vac to 12vdc power supply kit	5U7A0020A	Vumii
	Printed User Manual	PS4S5001	Vumii
	12VDC 5A Indoor Rated Power Supply	5U7A0020A	Vumii
All	Single Channel Encoder - Indoor Rated	892003	Vumii
Fixed Sii IP (AT only)	PoE Power Injector - Indoor Rated	880518	Vumii

Third Party Mounting Accessories			
Compatibility	Accessory	Part #	Provider
Sii PTZ AT & ML	Wall Mount (also requires PA2000)	WM2000	Pelco
	Pole Mount Adaptor (also requires WM2000 and PA2000)	PA102	Pelco
	Corner Mount Adaptor (also requires WM2000 and PA2000)	CM100	Pelco
	Wall Mount Adaptor Plate	PA2000	Pelco
Fixed Sii AT & ML	Wall Mount	WBOVA2	VideoTec
	Pole Mount Adaptor	WSFPA	VideoTec
	Corner Mount	WCWA	VideoTec

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STANDARD ORDER - Sii PTZ

■ Sii PTZ includes:

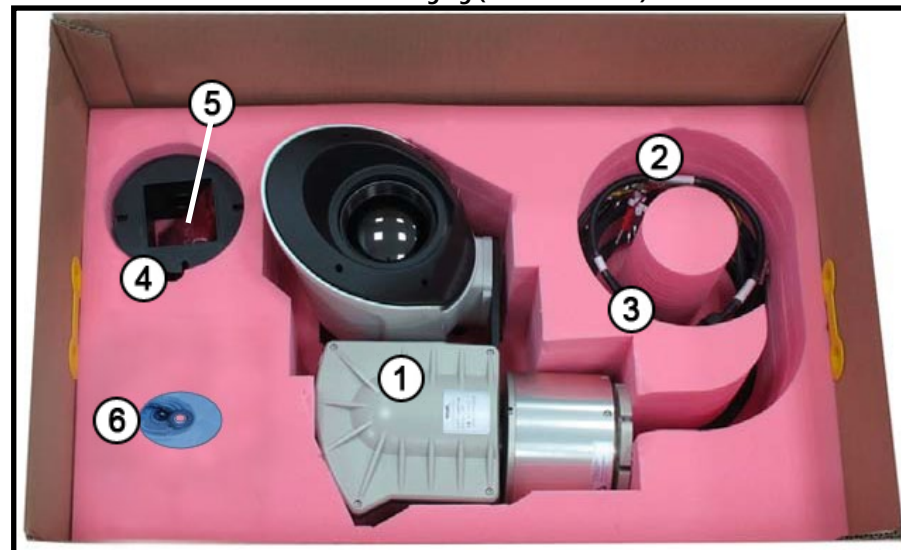
- 1) Thermal camera & pan/tilt positioner
- 2) Integrated Control Cable (3m length):
- 3) Payload cable - connects camera to PT unit
- 4) Pedestal Adaptor
- 5) Pedestal Extension Mounting Hardware
 - bag containing:
 - 4 x SCR 1/4-20NCX7/8" Hex head SS bolts
 - 8 x Flat M6 SS lock washers
 - 4 x M6 SS washer springs
 - 4 x 1/4-20NC HEX nuts
- 6) Software & Documentation CD containing:
 - User Manual
 - Test & Configuration Software

STANDARD ORDER - FIXED Sii

■ Fixed Sii includes:

- 1) Thermal camera & pan/tilt positioner
- 2) Integrated Control Cable (3m length):
- 3) Software & Documentation CD containing:
 - User Manual
 - Test & Configuration Software

Sii PTZ Packaging (Standard Order)



Fixed Sii Packaging (Standard Order)



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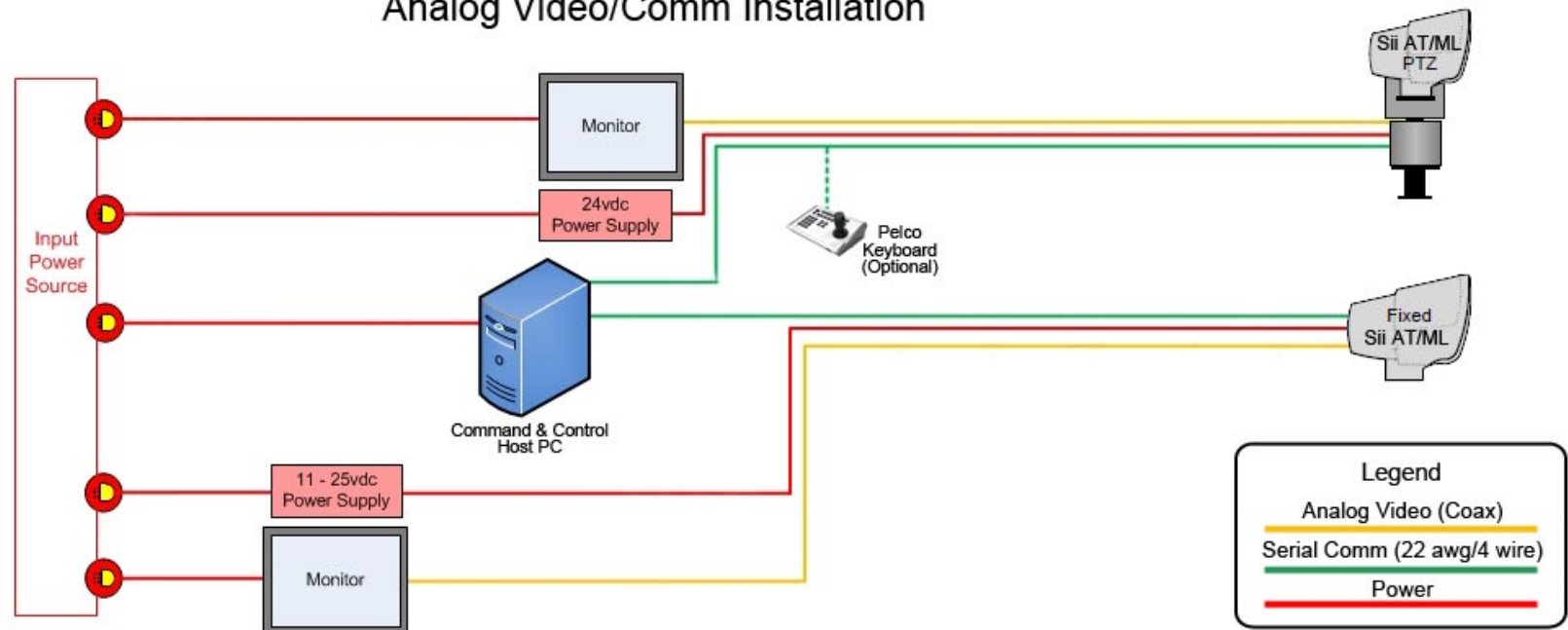
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TYPICAL SYSTEM DESIGN

Analog

IP

Analog Video/Comm Installation



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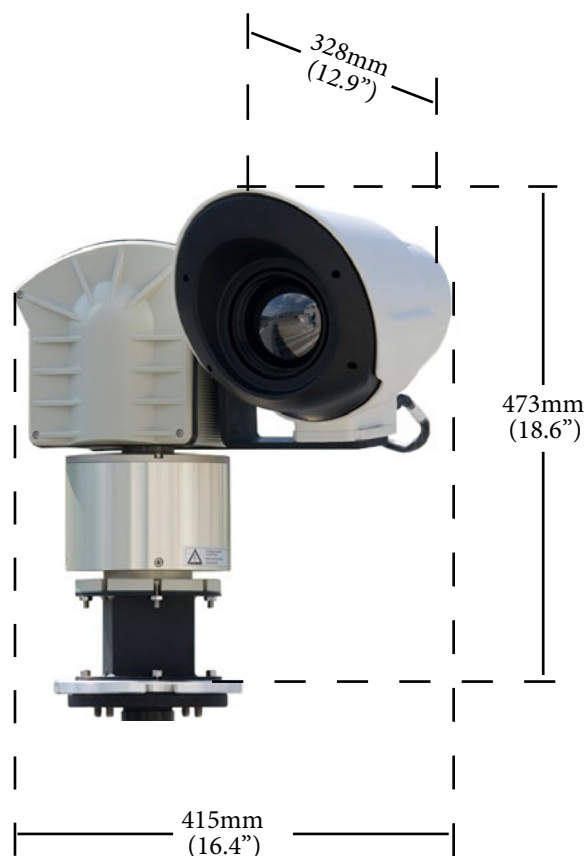
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SYSTEM INSTALLATION DIMENSIONS

Sii ML

Sii AT

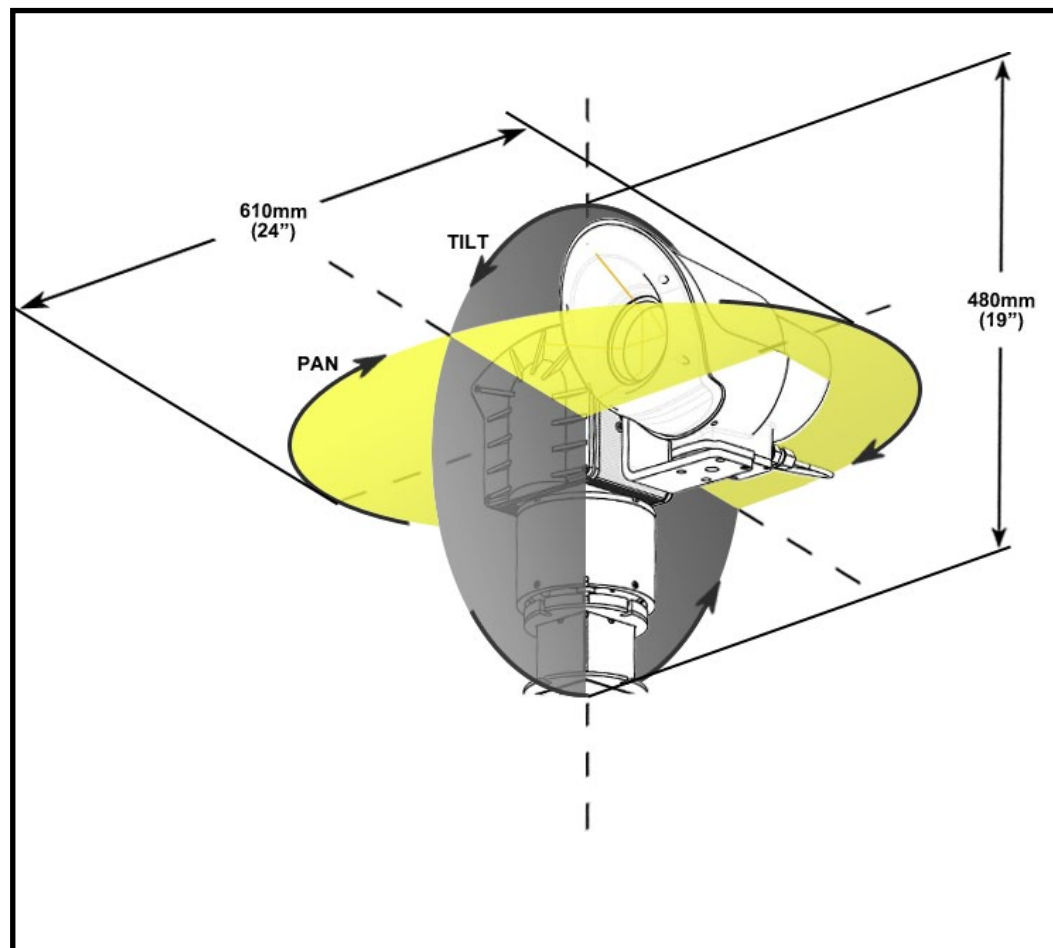
- **Height** – 473mm (18.6")
- **Width** – 415 mm (16.4")
- **Depth** – 328 mm (12.9")

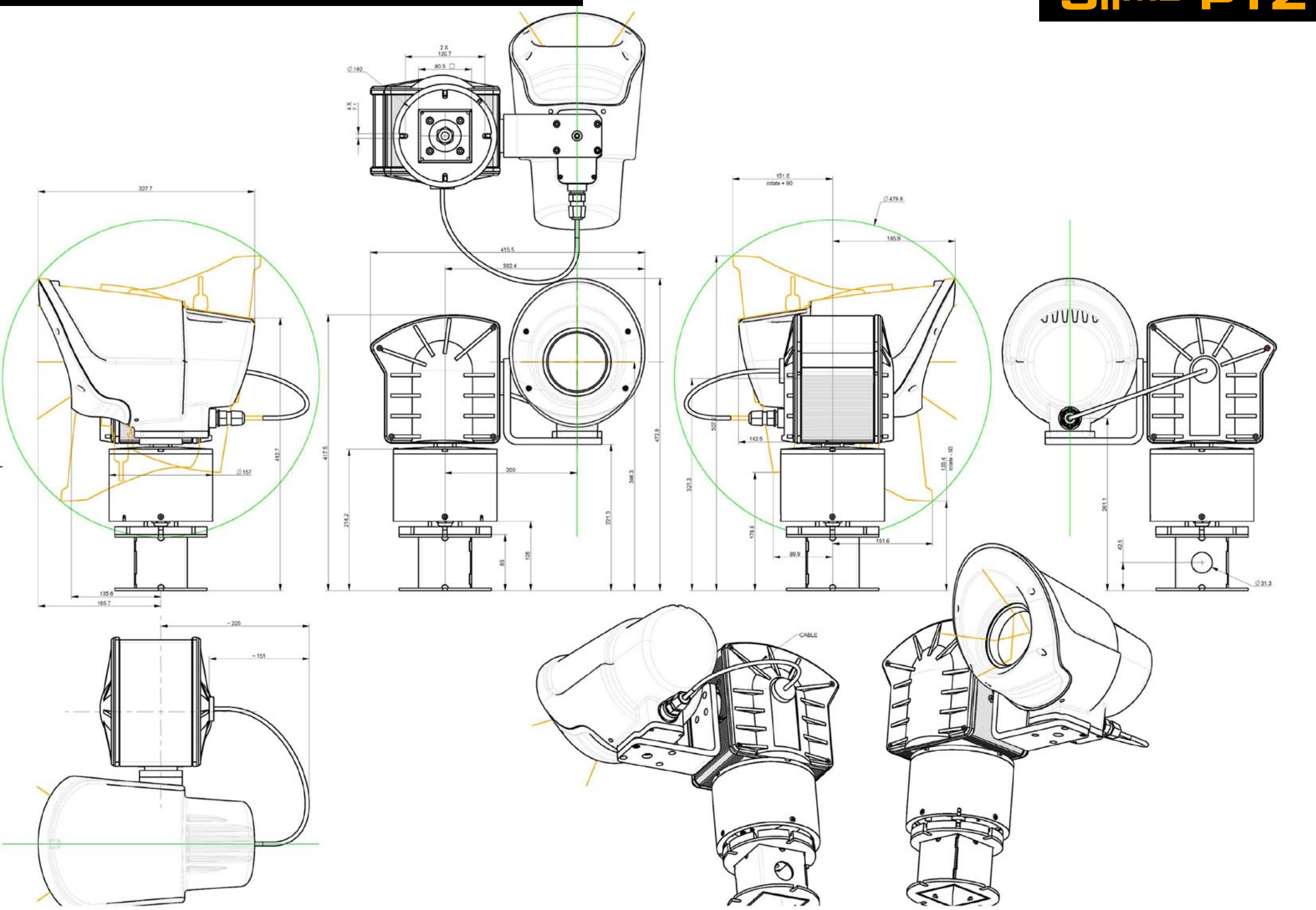


Required Installation Clearance (Sii PTZ)

Minimum Total Tilt Clearance (Vertical): 480mm (19") (Diameter)

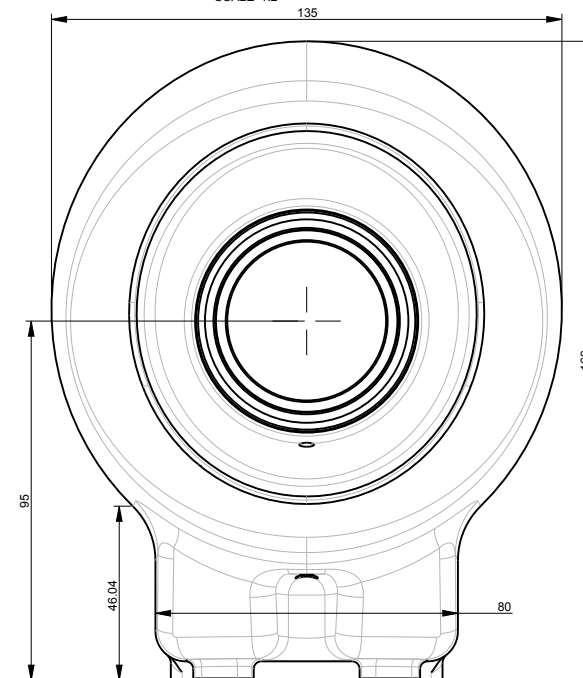
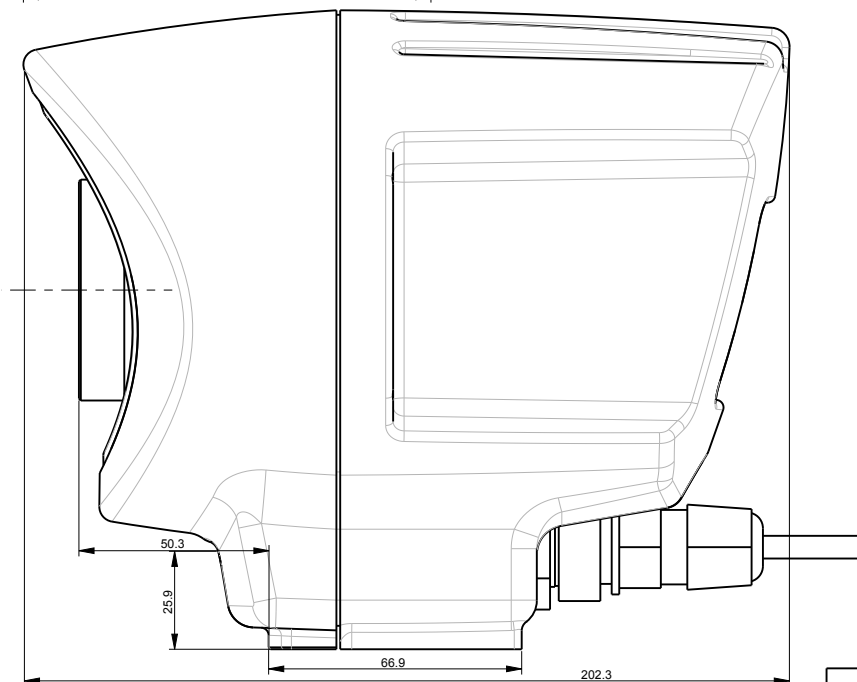
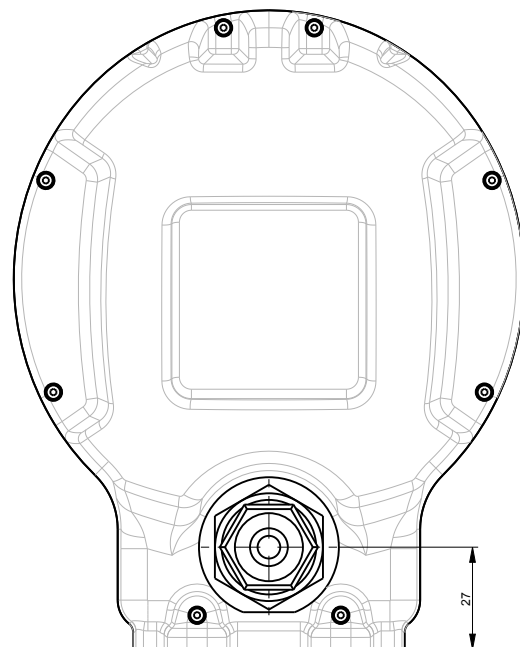
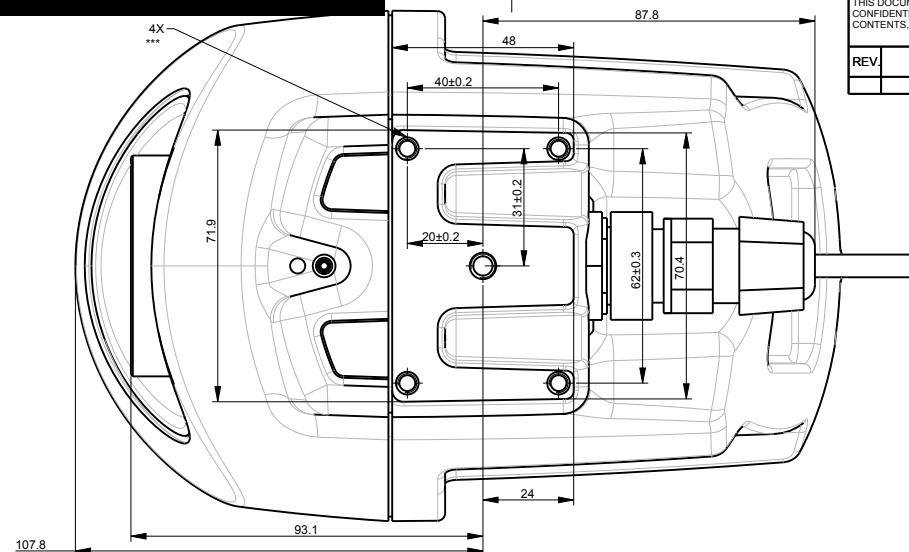
Minimum Total Pan Clearance (Horizontal): 610mm (24") (Diameter)





FIXED SIZE

REV.	DESCRIPTION DRAWING COORDINATES OF CHANGE

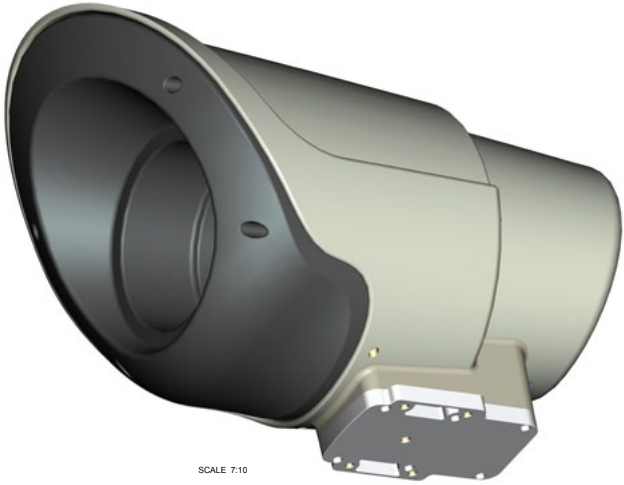
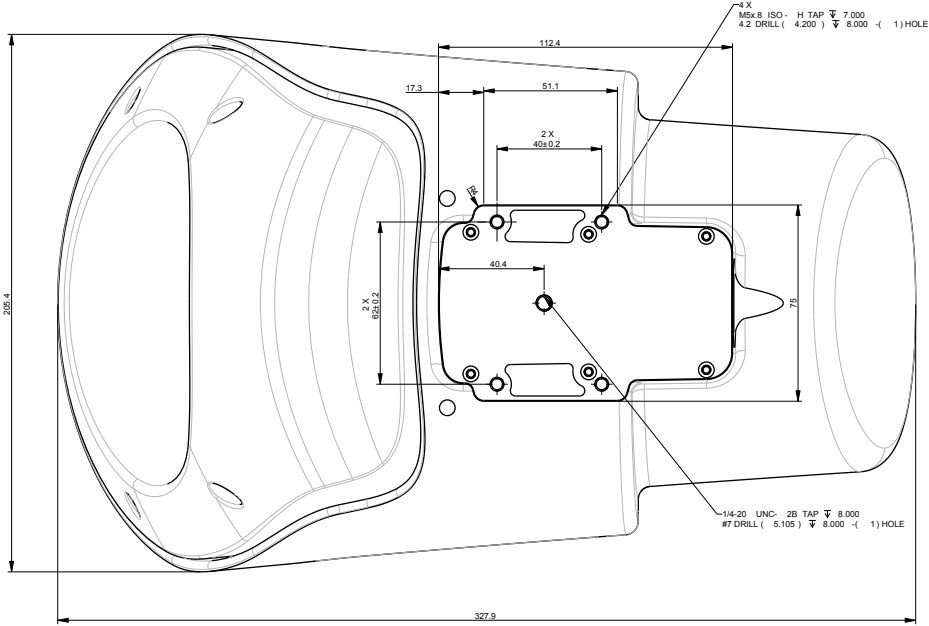


		CAT NO	DIM	ISO PARAMETRIC LTD		
		QTY	UM		ID/SIGNATURE	DATE
TOLERANCES UNLESS OTHERWISE SPECIFIED Over Incl 0 6 ± 0.1 6 30 ± 0.2 30 120 ± 0.3 120 315 ± 0.5 315 1000 ± 0.8 angles ± 1 °				DESIGNED	Yitzhak	04-SEP-20
				CHECKED	Dov K	04-SEP-20
				-	-	-
				Q.A	-	-
				APPROVED	-	-
				-	-	-
	SURFACE TEXTURE 	SCALE 1:1	CLASS UNCLASSIFIED	SIZE	DRAWING NO. MD_CS60A000-0A010	REV A

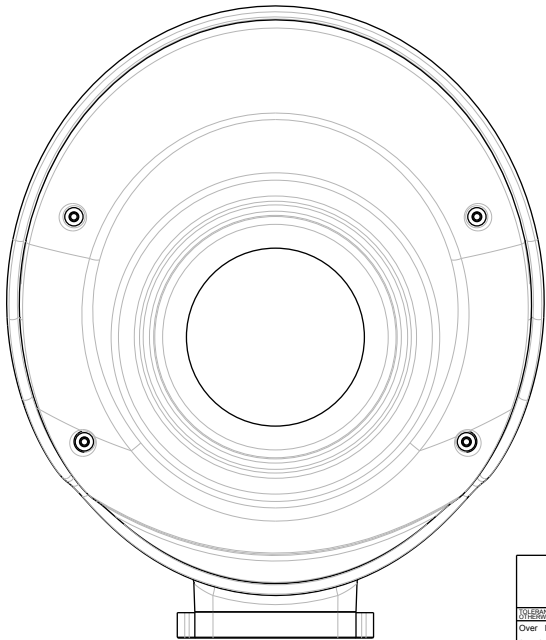
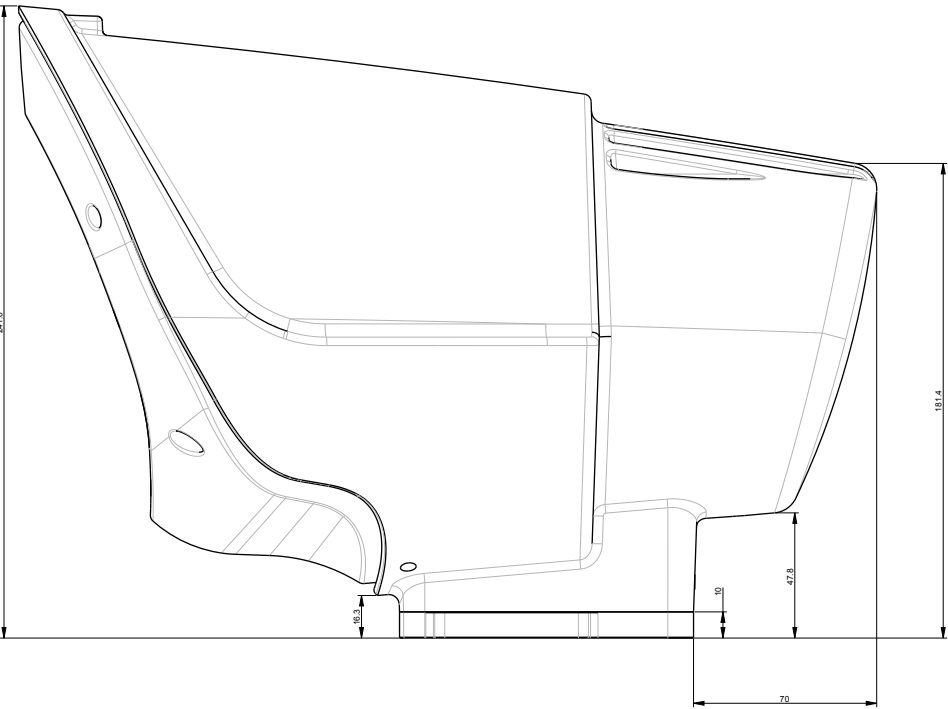
MODEL NAME :
DRAWING NAME

A
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A
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REVISIONS		Copy	Of
REV	DESCRIPTION	ECO. NO	ID/SIGNATURE
A			DATE



- NOTES:
1. ALL DIM IN MM
 2. SYSTEM WEIGHT UP TO- 4950 gm

CAT NO		DIM	IZO PARAMETRIC LTD.	
QTY		UM	ID/SIGNATURE	DATE
DESIGNED BY		Yigzhak		07-DEC-2010
CHECKED				
G.A				
APPROVED				
TITLE				
MECH ICD				
P.N				
4SXA0000A000X				
SHT OF				
1				
REV				
A				
SURFACE TEXTURE		Ra3.2		
SCALE		1:1		
CLASS		UNCLASSIFIED		
SIZE		A1		
DRAWING NO.				
MD4SXA0000A000X				