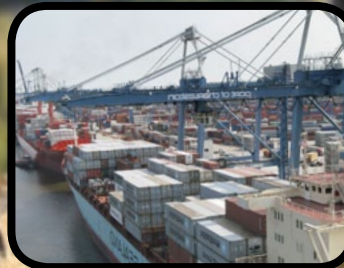


ACCURACII XR



SYSTEM SPECIFICATIONS



DETECT • RECOGNIZE • IDENTIFY

DISTRAME S.A. - Parc du Grand Troyes - Quartier Europe Centrale - 40, rue de Vienne - 10300 SAINTE-SAVINE
Tél. : +33 (0)3 25 71 25 83 - Fax : +33 (0)3 25 71 28 98 - E-mail : infos@distrame.fr - Site internet : www.distrame.fr

SYSTEM OVERVIEW

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THERMAL CAMERA PERFORMANCE

CCD CAMERA

PAN/TILT POSITIONER

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CZ225 - PG1 PG2

CZ275 - PG1 PG2

CZ300 - PG1 PG2

CZ400 - PG1 PG2

SYSTEM OVERVIEW

Accuracii XR is a powerful long range, night and day multisensor observation system developed for security applications. It allows long range observation and detection using state of the art thermal imaging and CCD technology. The camera features a color CCD camera for day time operation and high performance cooled and uncooled thermal cameras with several long range lens options for both day and night operation.

Accuracii XR is designed and constructed to withstand the harshest weather and environmental conditions.

Accuracii XR configurations are named based on their thermal imager.



CONFIGURATIONS

Configuration Type	DAY / NIGHT Thermal Camera & Lens	DAY CCD Camera & Lens
CZ225	17μ 640 x 480 25 - 225mm Continuous Zoom Uncooled Thermal	1/4" Color CCD 3.3 - 119mm Continuous Zoom
CZ275	15μ 640 x 512 19 - 275mm Continuous Zoom Cooled Thermal	1/2" Color CCD 10 - 320mm Continuous Zoom
CZ300	15μ 640 x 512 15 - 300mm Continuous Zoom Cooled Thermal	1/2" Color CCD 10 - 320mm Continuous Zoom
CZ420	15μ 640 x 512 21 - 420mm Continuous Zoom Cooled Thermal	1/2" Color CCD 15.6 - 500mm Continuous Zoom

APPLICATIONS

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

MAJOR COMPONENTS

- CCD Camera/Lens - Color (Day) Camera and lens for detailed imaging
- Thermal Camera - Thermal (Night) Camera for IR Imaging
- Thermal Camera Lens - Continuous and Dual FOV Lens Options
- Pan/Tilt Positioner - High accuracy pan/tilt unit
- Optional Laser Range Finder module
- Optional GPS module

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 CZ225 - PG1 PG2
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 CZ300 - PG1 PG2
 CZ400 - PG1 PG2

SYSTEM SPECIFICATIONS

THERMAL CAMERA

- Imager Type: CZ225: Uncooled
CZ275, CZ300, CZ420: Cooled
- Spectral Band: Uncooled: 7.5-14μ
Cooled: 3-5μ
- Pixel Size / Resolution: Uncooled: 17μ / 640 x 480 NTSC/PAL
Cooled: 15μ / 640 x 512 NTSC/PAL
- NETD: Uncooled: <50° mK
Cooled: <25° mK

DAY CCD CAMERA

- Imager Type: CZ225: 1/4" CCD
CZ275, CZ300, CZ420: 1/2" CCD
- Focal Length: CZ225: 3.3 - 119mm (36x)
CZ275, CZ300: 10 - 320mm (32x)
CZ420: 15.6 - 500mm (32x)
- Resolution: 768 x 494 (NTSC)
752 x 582 (PAL)
- S/N Ratio: <50dB

POWER REQUIREMENTS:

- Power Input: 24VDC ± 1%
- Power Consumption: Uncooled: 30w typical (static, no heaters)
350w max (moving, with heaters)
Cooled: 30w typical (static, no heaters)
390w max (moving, with heaters)

ENVIRONMENTAL:

- Storage Temperature: -40°C to +71°C
-40° F to +160° F
- Operating Temperature*: -40°C to +60°C
-40° F to +140° F
- Humidity: +40°C, 93% RH
- Salt Fog: MIL STD 810E method 509.3
- Environmental Rating: IP66

VIDEO FORMAT:

- Dual Channel (Thermal/CCD) - 2 BNC's
- RS-170/CCIR, 1.0V p-p, 75ohm

*CZ420 Operating Temperature: -20°C to +60°C (-4° F to +140° F)

MECHANICAL PARAMETERS:

- Dimensions: Dependent on Configuration, check ICD's
- Weight: CZ225: 23 kg (51 lbs)
CZ275: 28 kg (62 lbs)
CZ300: 28 kg (62 lbs)
CZ420: 29 kg (64 lbs)

COMMUNICATION:

- RS-422/RS-485 Serial
- Protocol: Pelco D, Vumii (SDK Available)

PAN/TILT UNIT

- Pan/Tilt Speed: 0-50° per second
- Pan Range: 360° continuous
- Tilt Range: -90° to +90°
- Pan/Tilt Resolution: +/- 1.5 mRad

EMC:

- FCC 47 CFR part 15 sub B
- EN 55022
- EN 55024

SAFETY:

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

CERTIFICATIONS:

- ROHS compliant
- CE
- FCC

OPTIONAL LRF SPECIFICATIONS

- Maximum Range: 2000m
- Minimum Range: 5m
- Range Accuracy @<1500m: +/- 3m
- Range Accuracy @>1500m: +/- 5m
- Laser Safety Rating: Class 1
- Nominal Wavelength: 1550nm

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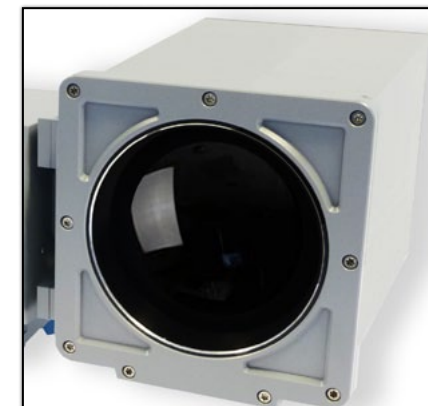
MECHANICAL ICD's-
 CZ225 - PG1 PG2
 CZ275 - PG1 PG2
 CZ300 - PG1 PG2
 CZ400 - PG1 PG2

THERMAL CAMERA

OVERVIEW

Accuracii™ XR uses Vumii's high sensitivity cooled and un-cooled thermal cores available in 15μ 640 x 512 resolution (cooled) or 17μ 640 x 480 resolution (uncooled). The uncooled thermal core is paired with an innovative 25-225mm continuous zoom lens and the cooled cores are paired with one of three options: 19-275mm, 15-300mm, or 21-420mm continuous zoom lenses. All Accuracii XR thermal cores feature thermal AutoFocus on Demand that drastically increases the ease of use of the camera system.

The camera is designed and constructed to withstand the harshest weather and environmental conditions.



SPECIFICATIONS AND FEATURES

Configuration	CZ225	CZ275	CZ300	CZ420
Thermal Engine	17μ 640 x 480	15μ 640 x 512	15μ 640 x 512	15μ 640 x 512
Lens Type	Continuous Zoom	Continuous Zoom	Continuous Zoom	Continuous Zoom
Focal Length	25 - 225mm	19 - 275mm	15 - 300mm	21 - 420mm
Lens F #	f/1.5	f/5.5	f/4.0	f/4.0
Video Type	(NTSC/PAL)	(NTSC/PAL)	(NTSC/PAL)	(NTSC/PAL)
Spectral band	7.5 - 14μ	3 - 5μ	3 - 5μ	3 - 5μ
NETD	<50° mK	<25° mK	<25° mK	<25° mK
Horizontal Field of View (wide)	24.5°	29.8°	35.1°	25.1°
Horizontal Field of View (narrow)	2.77°	2.0°	1.8°	1.3°
Digital Zoom	1x, 2x, 4x			
Focus control	Motorized, Autofocus on Demand			
Control operation	Polarity, NUC, Image flip, Manual gain/level, Optical & Digital Zoom, Autofocus on Demand			

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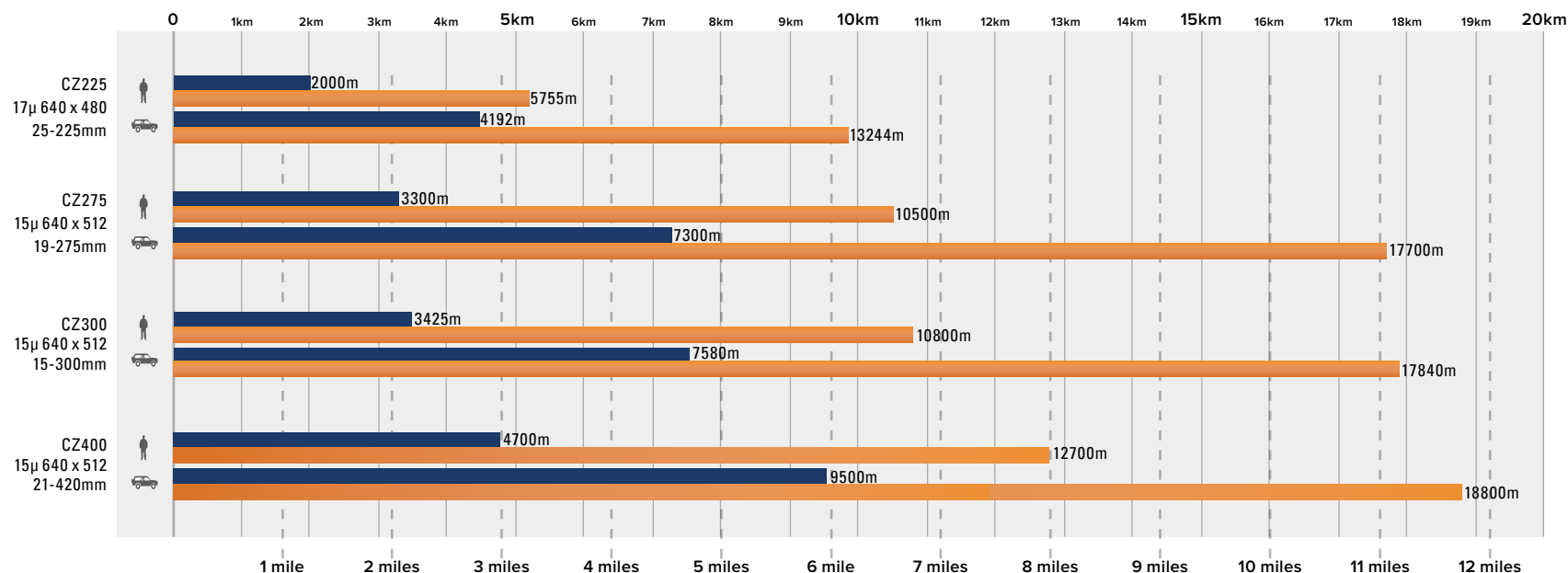
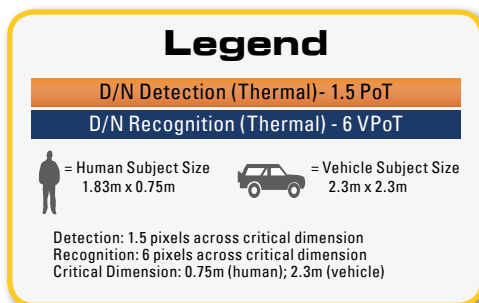
ACCESSORY ORDERING INFORMATION

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MECHANICAL ICD's-
 CZ225 - PG1 PG2
 CZ275 - PG1 PG2
 CZ300 - PG1 PG2
 CZ400 - PG1 PG2

THERMAL CAMERA PERFORMANCE



NOTE: Performance dependent on atmospheric conditions, all calculations are geometric and do not include atmospheric attenuation.

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 CZ400 - PG1 PG2

CCD CAMERA

Accuracii™ XR includes several daytime color CCD options based on the configuration chosen. Additionally, the CCD camera head will enclose the optional Laser Range Finder and/or GPS position modules.

OVERVIEW

The imager is a high sensitivity, high zoom magnification visible camera providing color video for day-time operation.



CCD CAMERA SPECIFICATIONS

	CZ225	CZ275	CZ300	CZ420
Imager Type	1/4" Color CCD	1/2" Color CCD	1/2" Color CCD	1/2" Color CCD
Effective Pixels	768 x 494 (NTSC) 752 x 582 (PAL)	768 x 494 (NTSC) 752 x 582 (PAL)	768 x 494 (NTSC) 752 x 582 (PAL)	768 x 494 (NTSC) 752 x 582 (PAL)
Lens Type	36x Continuous Zoom	32x Continuous Zoom	32x Continuous Zoom	32x Continuous Zoom
Lens Focal Length	3.3 - 119mm	10 - 320mm	10 - 320mm	15.6 - 500mm
Imager Horizontal FOV	60.2° to 1.8°	35.3° to 1.1°	35.3° to 1.1°	22.4° to 0.45°
S/N ratio	<50 dB	<50 dB	<50 dB	<50 dB

LASER RANGE FINDER SPECIFICATIONS (OPTIONAL)

Maximum Range	2000 meters
Minimum Range	5m
Range Accuracy @<1500m	+/- 3m
Range Accuracy @>1500m	+/- 5m
Nominal Wavelength	1550nm
Laser Safety Rating	Class 1

GPS MODULE (OPTIONAL)

The optional GPS module allows transmission of the camera's current GPS coordinates.

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- CZ275 - PG1 PG2
- CZ300 - PG1 PG2
- CZ400 - PG1 PG2

PAN / TILT POSITIONER

The variable speed Pan/Tilt unit provides continuous 360° rotation of the cameras at up to 50°/sec (pan/tilt)

The PT platform supports the following modules:

- Thermal (IR) camera enclosure
Thermal camera/lens
- Charge-coupled device (CCD) camera enclosure
CCD camera/lens
Optional LRF module
Optional GPS module



SPECIFICATIONS

Position accuracy (resolution)	+/- 1.5 mRad
Minimum pan speed	0.1°/sec.
Maximum pan speed	50°/sec
Minimum tilt speed	0.1°/sec.
Maximum tilt speed	50°/sec
Tilt range	+90°/-90°

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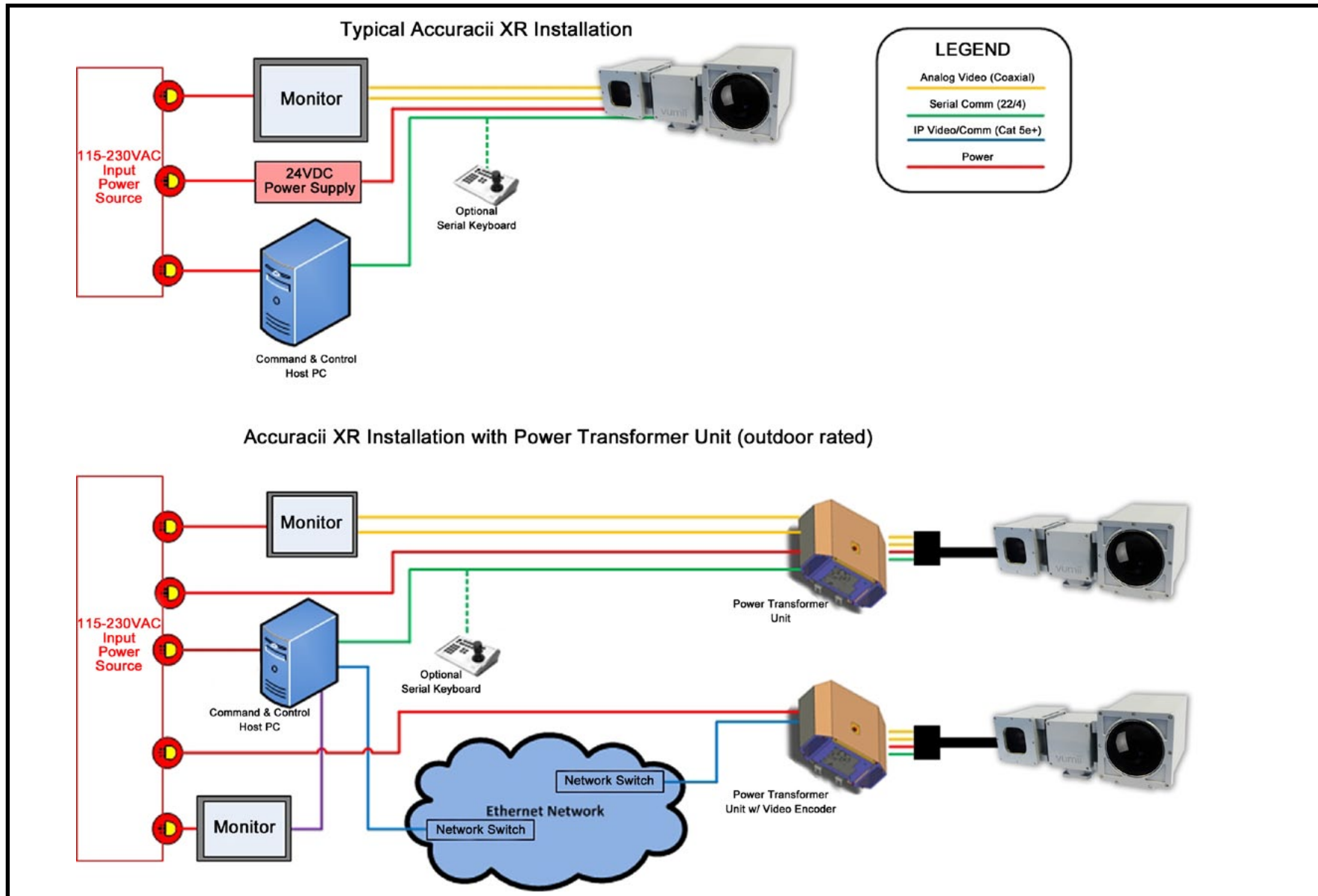
SHIPPING CONTENTS

WIRING ASSIGNMENT

MECHANICAL ICD's-

- CZ225 - PG1 PG2
- CZ275 - PG1 PG2
- CZ300 - PG1 PG2
- CZ400 - PG1 PG2

TYPICAL SYSTEM DESIGN



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MECHANICAL ICD's-

CZ225 - PG1 PG2
CZ275 - PG1 PG2
CZ300 - PG1 PG2
CZ400 - PG1 PG2

CAMERA MOUNTING

REQUIRED INSTALLATION CLEARANCE

IMPORTANT: The unit should be installed in a location with at least the listed amount of required clearance:

Minimum Total Pan Clearance The minimum pan clearance width is calculated as the diameter. The radius can be found by dividing the diameter in half.

Minimum Total Tilt Clearance The minimum tilt clearance height is calculated starting from the base of the Accuracii XR unit

ALL CONFIGURATIONS

Minimum Total Pan Clearance: 750mm (29.53")

Minimum Total Tilt Clearance: 470mm (18.51")

Mounting Hardware

Imperial

- 4 x SCR 1/3" 20NCX7/8" HEX HD SS bolts
- 8 x 1/3" Flat SS lock washers
- 4 x 1/3" SS washer springs
- 4 x 1/3" 20NC HEX nuts

Metric

- 4 x SCR M8 20NCX (22mm length) HEX HD SS bolts
- 8 x M8 Flat SS lock washers
- 4 x M8 SS washer springs
- 4 x M8 20NC HEX nuts

Mounting Options

Vumii Wall Mount Kit: Part #PA1000019A

Includes mounting plate MP1000017A

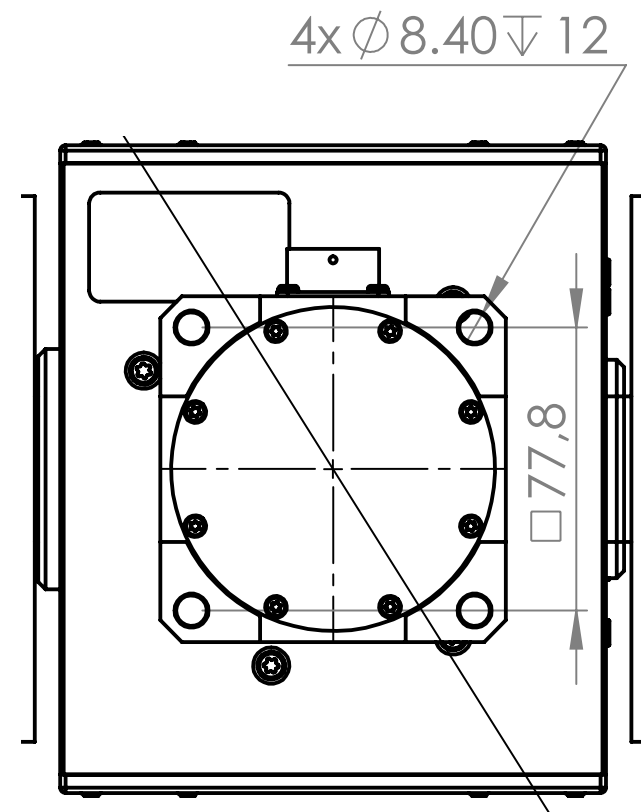
Vumii Pole Mount Kit: Part #PA1000020A

Includes Vumii Wall Mount Kit Part #PA100019A

Includes mounting plate MP1000017A

Custom Mounting Specifications

The base of the Accuracii XR uses a 77.8mm (3.06") hole pattern
Mounting plate MP1000017A is available with other hole patterns



All Dimensions in millimeters

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MECHANICAL ICD's-
 CZ225 - PG1 PG2
 CZ275 - PG1 PG2
 CZ300 - PG1 PG2
 CZ400 - PG1 PG2

ORDERING INFORMATION

ACCURACII XR MODELS

A standard order **Accuracii XR** ships as an integrated unit consisting two camera heads, one camera head contains the thermal camera and lens and the other camera head contains the CCD camera and lens. If ordered, the optional laser range finder and gps module will be installed above the pan/tilt unit. The system will ship with a mating connector for connection the the pan/tilt base mounted connector, and a CD containing product documentation and test/setup software. See the next page for additional optional accessories

Configuration	CCD Camera/Lens	Thermal Engine/Lens	Video Type	Camera Options	Part Number
CZ225	3.3 - 119mm Continuous Zoom	17μ 640 x 480 Uncooled 25-225mm Continuous Zoom	NTSC	None	AC225Z17V-PAN00
				LRF	AC225Z17V-PAN10
				GPS	AC225Z17V-PAN20
				LRF & GPS	AC225Z17V-PAN30
			PAL	None	AC225Z17V-PAP00
				LRF	AC225Z17V-PAP10
				GPS	AC225Z17V-PAP20
				LRF & GPS	AC225Z17V-PAP30
CZ275	15 - 300mm Continuous Zoom	15μ 640 x 512 Cooled 19-275mm Continuous Zoom	NTSC	None	AC275Z15V-PAN01
				LRF	AC275Z15V-PAN11
				GPS	AC275Z15V-PAN21
				LRF & GPS	AC275Z15V-PAN31
			PAL	None	AC275Z15V-PAP01
				LRF	AC275Z15V-PAP11
				GPS	AC275Z15V-PAP21
				LRF & GPS	AC275Z15V-PAP31
CZ300	15 - 300mm Continuous Zoom	15μ 640 x 512 Cooled 15-300mm Continuous Zoom	NTSC	None	AC300Z15V-PAN01
				LRF	AC300Z15V-PAN11
				GPS	AC300Z15V-PAN21
				LRF & GPS	AC300Z15V-PAN31
			PAL	None	AC300Z15V-PAP01
				LRF	AC300Z15V-PAP11
				GPS	AC300Z15V-PAP21
				LRF & GPS	AC300Z15V-PAP31
CZ420	15.6 - 500mm Continuous Zoom	15μ 640 x 512 Cooled 21-420mm Continuous Zoom	NTSC	None	AC420Z15V-PAN02
				LRF	AC420Z15V-PAN12
				GPS	AC420Z15V-PAN22
				LRF & GPS	AC420Z15V-PAN32
			PAL	None	AC420Z15V-PAP02
				LRF	AC420Z15V-PAP12
				GPS	AC420Z15V-PAP22
				LRF & GPS	AC420Z15V-PAP32

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- CZ225 - PG1 PG2
- CZ275 - PG1 PG2
- CZ300 - PG1 PG2
- CZ400 - PG1 PG2

ACCESSORY ORDERING INFORMATION

Accuracii XR can be ordered with the following optional accessories and mounts:

Accessory	Description	Part #
Cables		
5m (15') Integration Cable	Mating connector to Dual BNC's (video), DB9 (comm), and power leads	WC1000009A
15m (45') Integration Cable	Mating connector to Dual BNC's (video), DB9 (comm), and power leads	WC1000010A
Power		
Power Transformer Unit	Outdoor rated enclosure with 24VDC 20 amp power transformer 120-230VAC	PA1000018A
Power Transformer Unit & Encoder	Outdoor rated enclosure with 24VDC 20 amp power transformer 120-230VAC and H.264 video encoder	PA1000014A
24VDC Power Supply	24VDC 20 amp (480w) indoor rated power supply	PS1000016A
Video & Communication		
H.264 Video Encoder	H.264 TCP/IP Encoder with four video input channels and one serial communication input channels	PA1000013A
Video Capture Card	USB card allows for the display and recording of 1 analog video channel	880518
Keyboard / Joystick	Pelco -D compatible Serial Communication Keyboard with joystick for camera control	805199
Mounts		
Wall Mount Kit	Wall Mount Kit	PA1000019A
Pole Mount Kit	Pole Mount Adaptor and Wall Mount Kit	PA1000020A

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MECHANICAL ICD'S-

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CZ275	-	PG1	PG2
CZ300	-	PG1	PG2
CZ400	-	PG1	PG2

SHIPPING CONTENTS

STANDARD ORDER

■ Accuracii™ XR includes:

- 1) Accuracii XR system
 - Thermal camera
 - Pan/tilt positioner
 - CCD camera
- 2) Software & Documentation CD containing:
 - User Manual
 - Test & Configuration Software (Sensorii)
- Pan/Tilt base mating connector (not shown)

OPTIONAL EQUIPMENT:

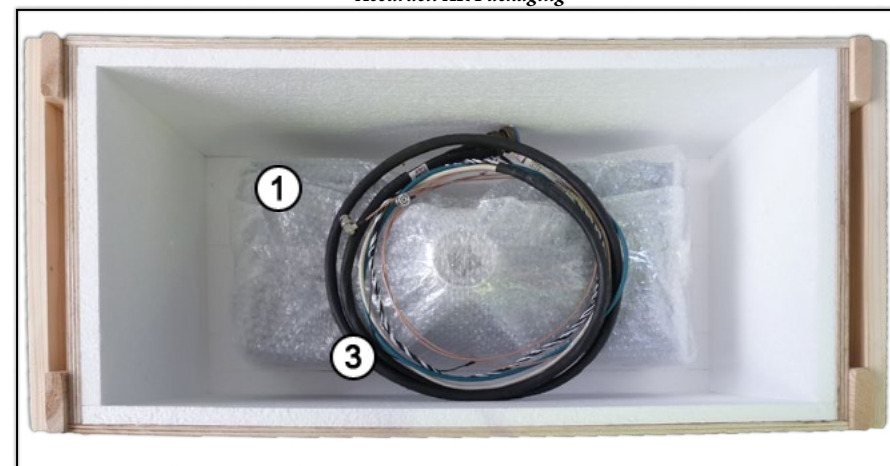
Mounted to Accuracii before shipping

- Laser Range Finder
- GPS Module

Not mounted to Accuracii before shipping:

- 5m (15') Integration Cable (4)
- 15m (45') Integration Cable (4)
- Power Transformer Unit (packaged separately)
- Power Transformer Unit & Encoder (packaged separately)
- 24VDC Power Supply (packaged separately)
- H.264 Video Encoder (packaged separately)
- Video Capture Card (packaged separately)
- Keyboard / Joystick (packaged separately)
- Wall Mount (packaged separately)
- Pole Mount Adaptor (packaged separately)

Accuracii XR Packaging



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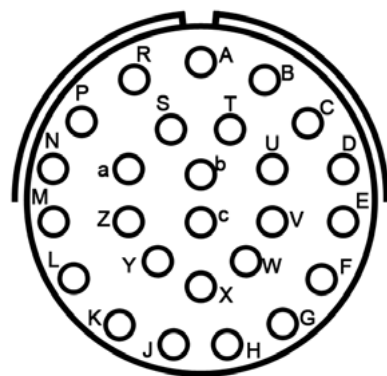
WIRING ASSIGNMENT

MECHANICAL ICD's-
 CZ225 - PG1 PG2
 CZ275 - PG1 PG2
 CZ300 - PG1 PG2
 CZ400 - PG1 PG2

WIRING ASSIGNMENT

Accuracii Pedestal Connector & Pinout

Pan/Tilt Base Connector



	CHASSIS
E	+24VDC
U	+24VDC
b	+24VDC
F	GND (0V)
V	GND (0V)
W	GND (0V)
A	RS422/RS485 RX-
T	RS422/RS485 RX+
B	RS422/RS485 TX-
C	RS422/RS485 TX+
H	VIDEO 1 GND
G	VIDEO 1
K	VIDEO 2 GND
J	VIDEO 2

Part Numbers

Optional Integration cable 5m (15'): WC1000009A

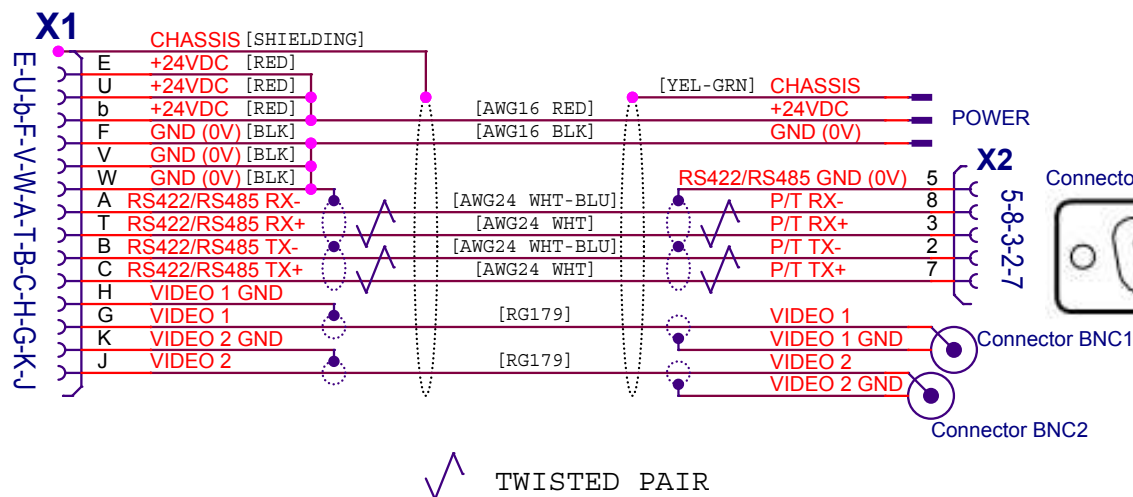
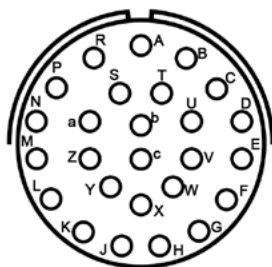
Optional Integration cable 15m (45'): WC1000010A

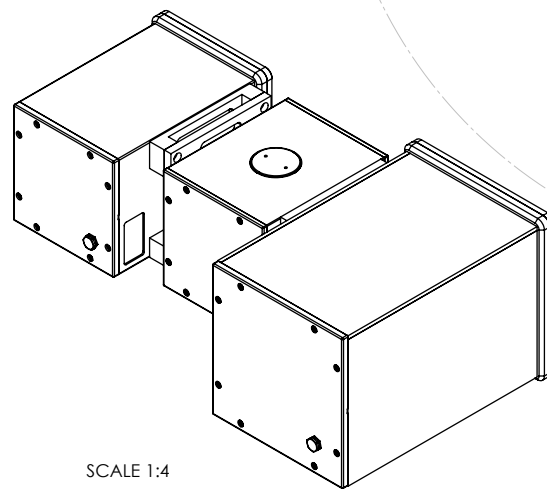
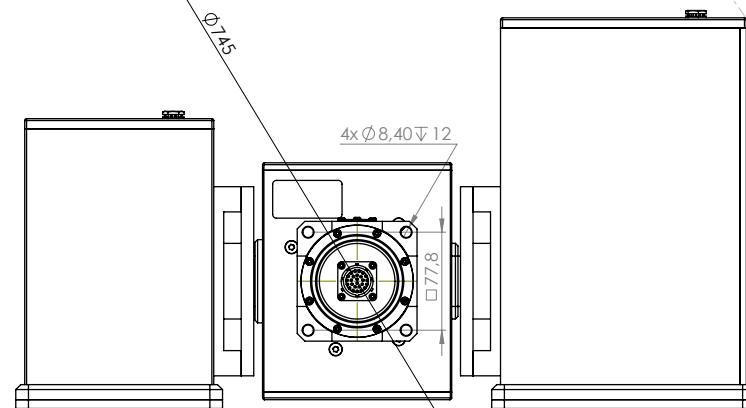
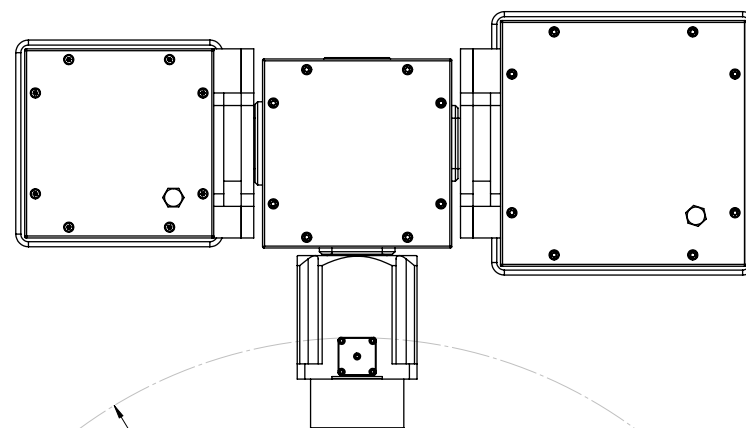
Mating Connector*: 851-36RG1626S50

* All Accuracii orders include a mating connector

Optional Integration Cable Pinout and Connectors

Mating Connector Part #
851-36RG1626S50

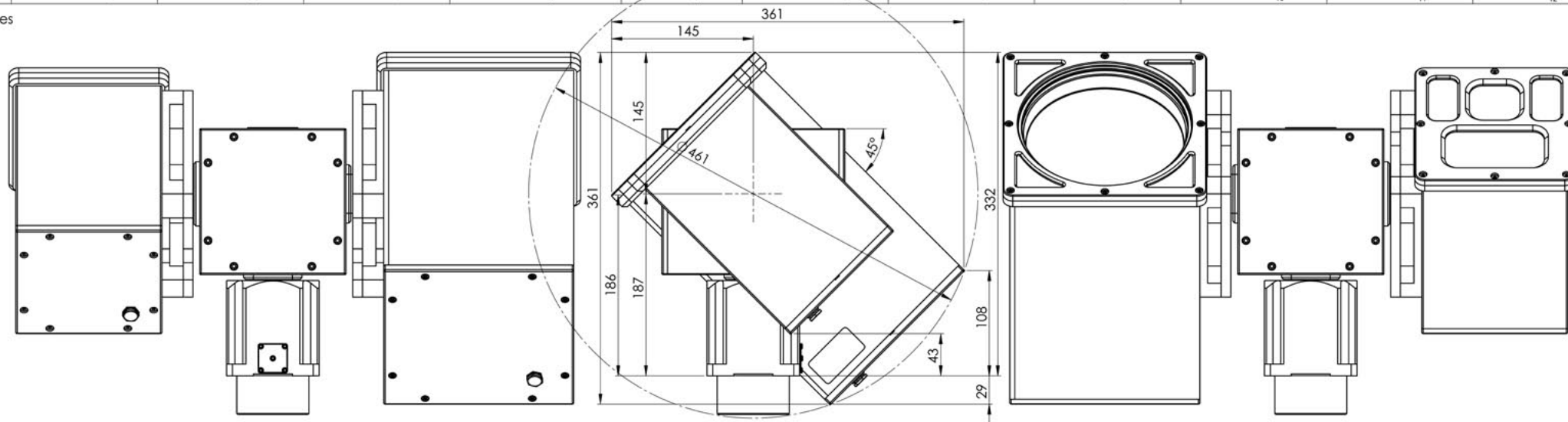




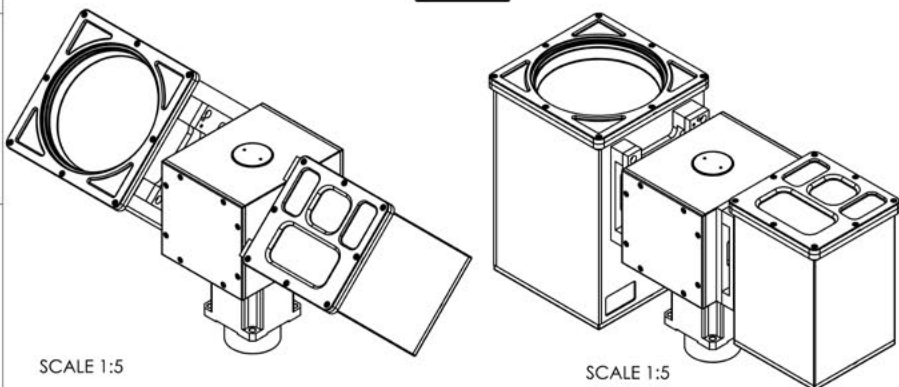
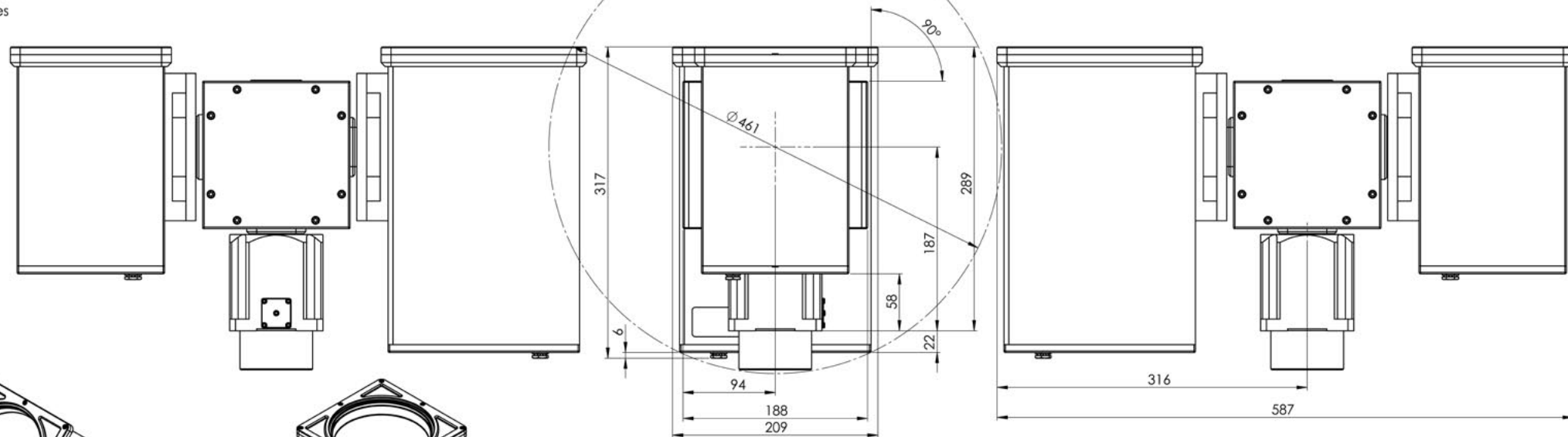
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LIST: 1/2

45 degrees



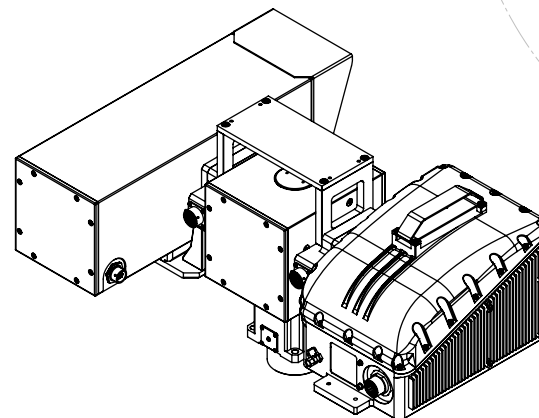
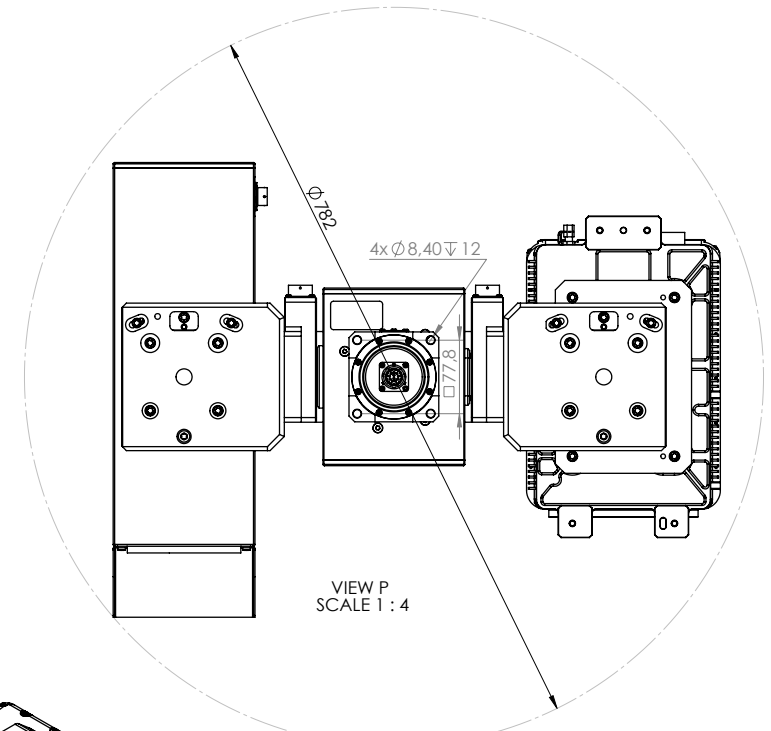
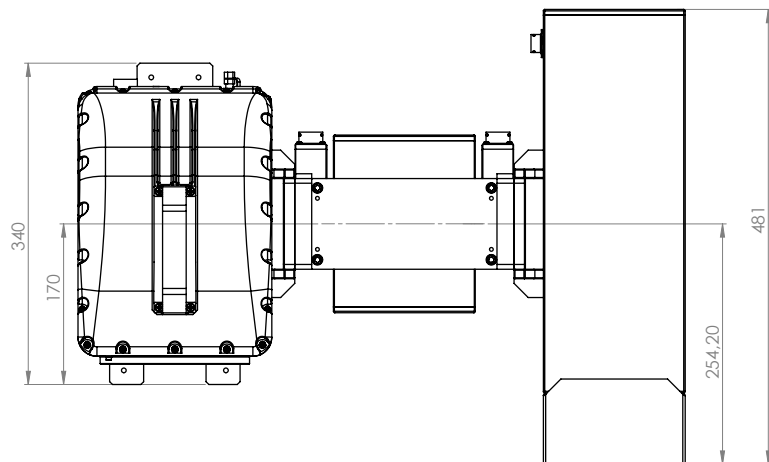
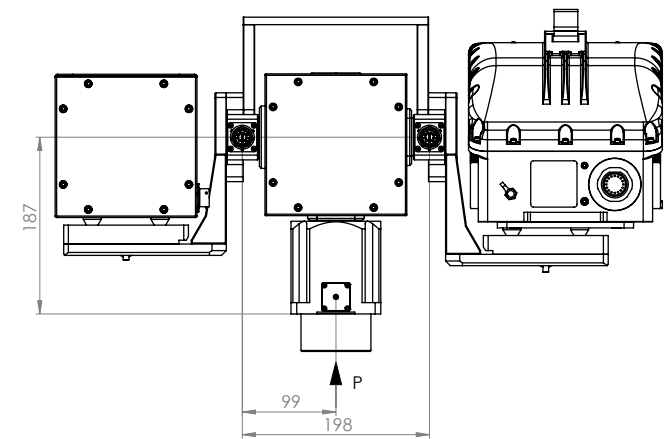
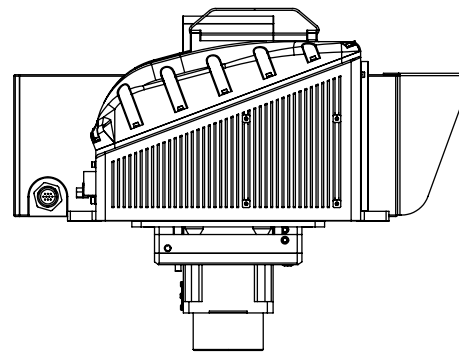
90 degrees



SCALE 1:5

SCALE 1:5

3					
2					
1					
INDEX	CHANGE	DATE	SIGN		
DRAW:	Ing. Gregor	11.3.2013			
APPR. DGN.	Ing. Matusinec	11.3.2013			
TECHNOL.					
CHECKED:					
MATERIAL:					
MAT. SPEC:					
PART NAME:	Monitoring system ACCURACII				
				vumii ACCURACII	MASS: ~23 Kg SCALE: 1:3
				TOLERANCES UNLESS ISO 8015 ISO 2768-mK	
				PART NUMBERS: AC25217V-PAN01 AC25217V-PAN01	
					LIST: 2/2

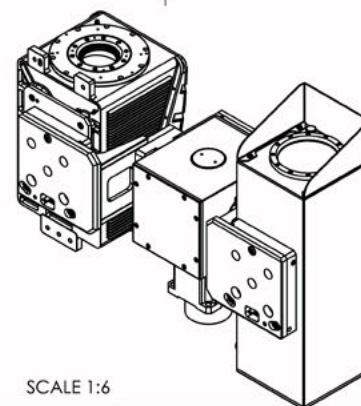
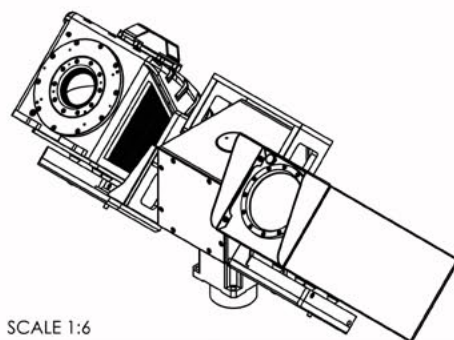
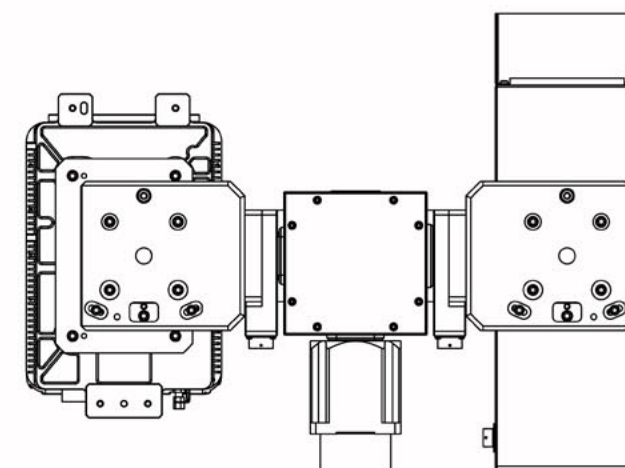
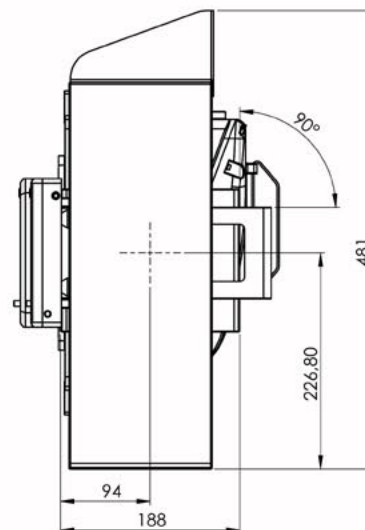
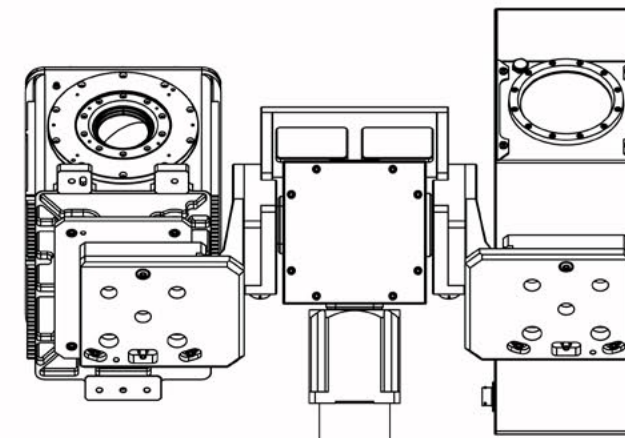


SCALE 1:4

Monitoring system
ACCURACII

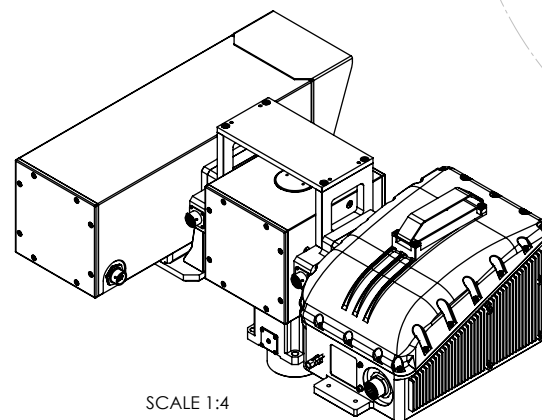
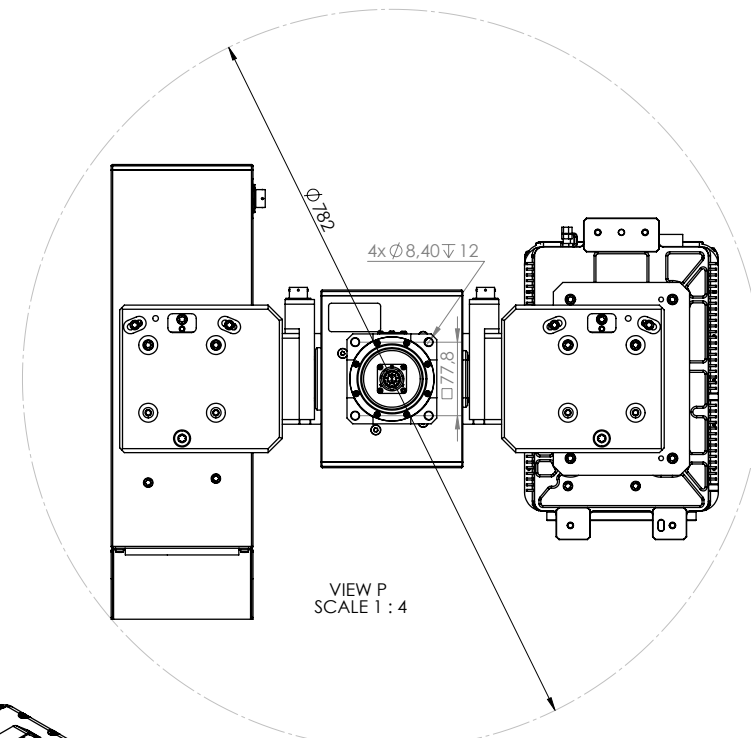
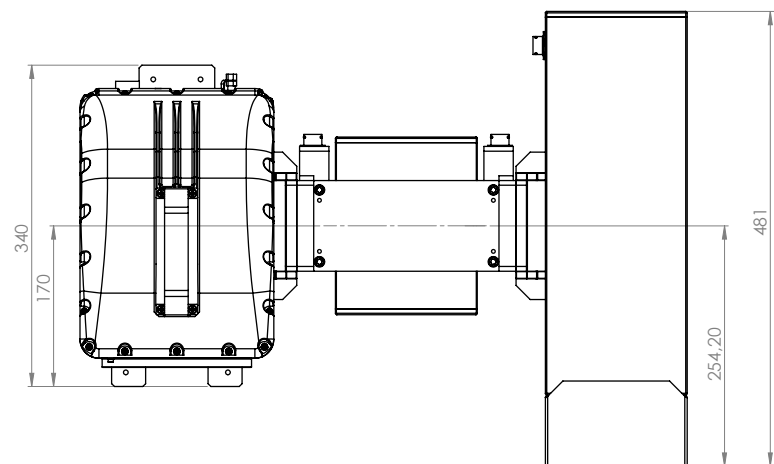
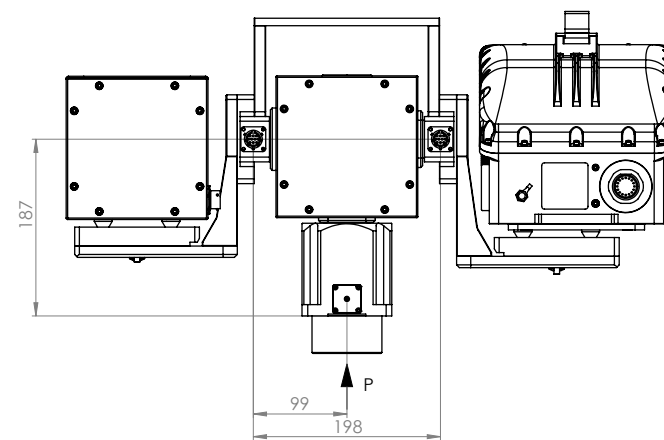
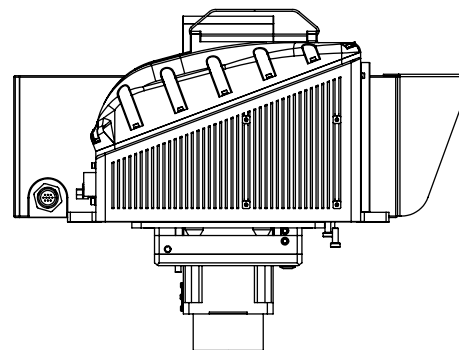
3					
1					
INDEX	CHANGE	DATE	SIGN		
DRAW:	Ing. Gregor	21.3.2013			
APP. DGN.	Ing. Matusinec	21.3.2013			MASS: ~30 Kg
TECHNOL.					SCALE: 1:4
CHECKED:					TOLERANCES UNLESS
MATERIAL:					ISO 8015
MAT. SPEC:					ISO 2768-mK
PART NAME:	Monitoring system				PART NUMBERS:
	ACCURACII				AC275215V-PAP02
					AC275215V-PAN02
					LIST: 1/2

LIST: 1/2



SCALE 1:6

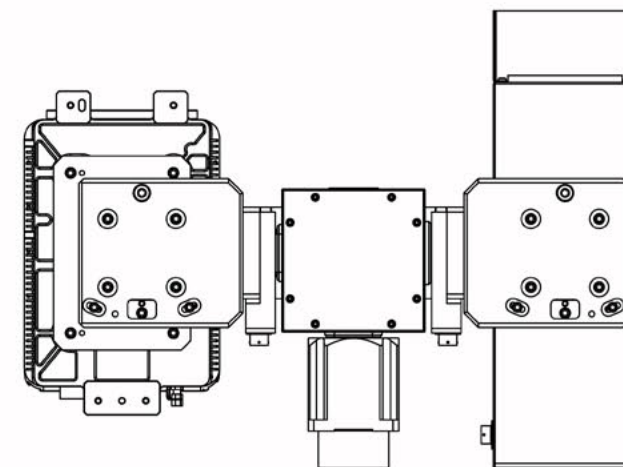
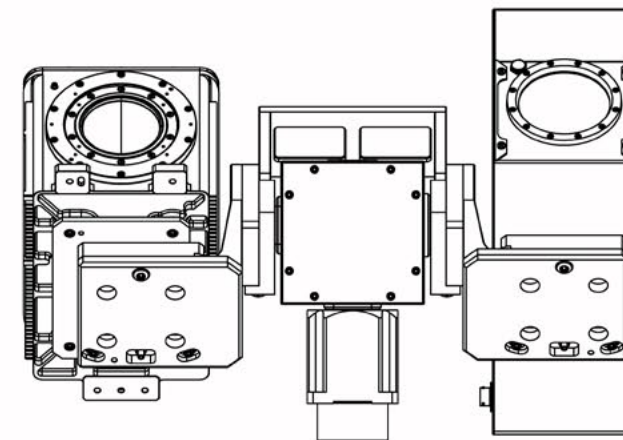
3						
2						
1						
INDEX	CHANGE	DATE	SIGN			
DRAW:	Ing. Gregor	21.3.2013			MASS: ~30 Kg	SCALE: 1:4
APPR. DGN.	Ing. Matušinec	21.3.2013				
TECHNOL.					TOLERANCES UNLESS ISO 8015 ISO 2768-mS 	
CHECKED:						
MATERIAL:						
MAT. SPEC:						
PART NAME:	Monitoring system ACCURACII					
					LIST: 2/2	



SCALE 1:4

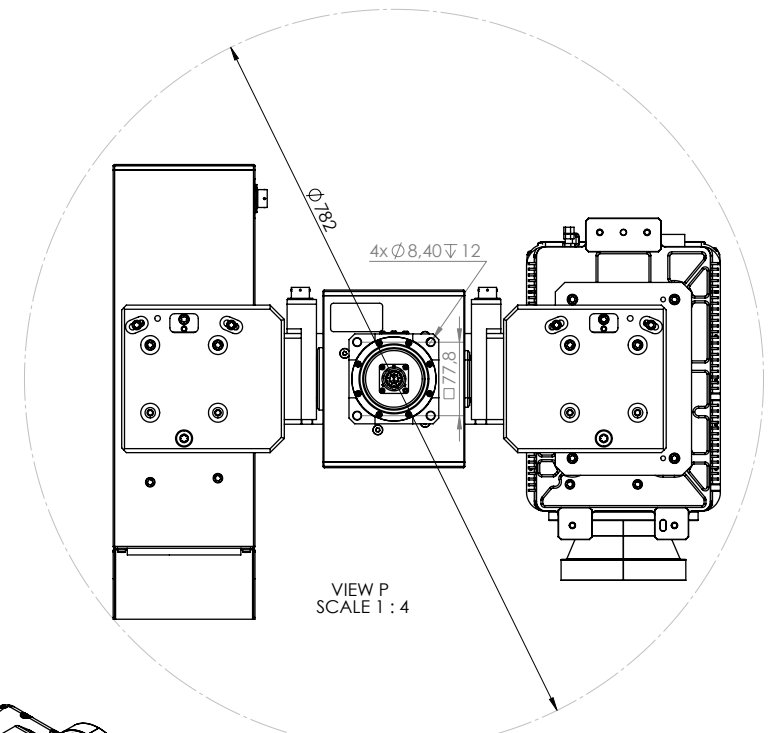
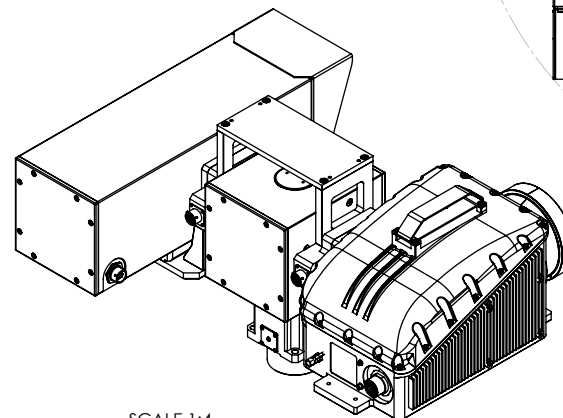
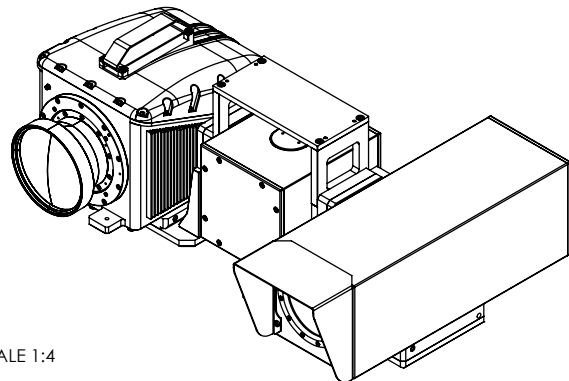
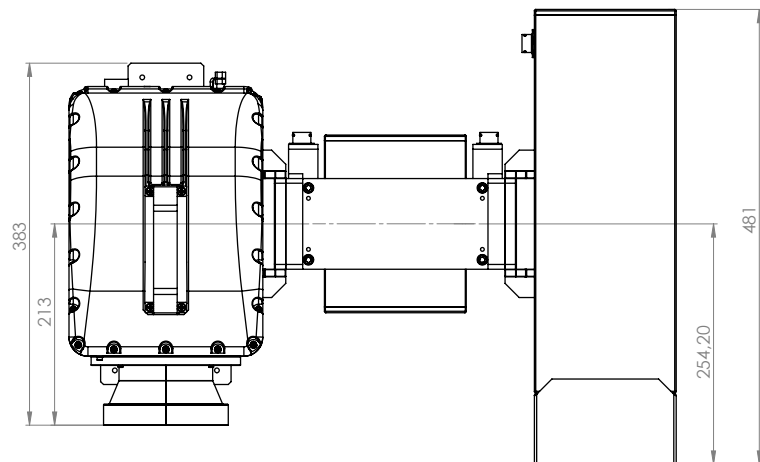
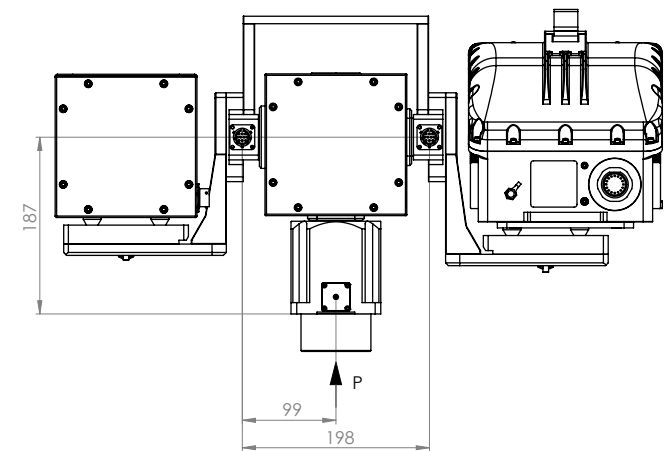
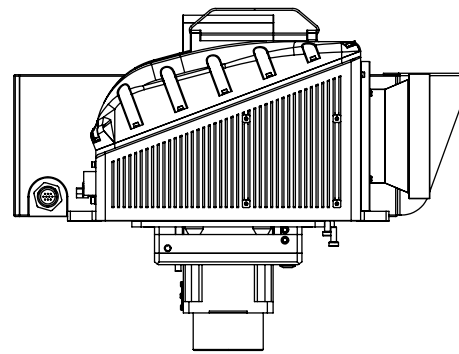
SCALE 1:4

3					
2					
1					
INDEX:	CHANGE	DATE	SIGN		
DRAW:	Ing. Gregor	4.4.2013			
APPR. DGN:	Ing. Matušinec	4.4.2013			MASS: ~30,4 Kg SCALE: 1:4
TECHNOL:					
CHECKED:					TOLERANCES UNLESS ISO 8015 ISO 2768-mK 
MATERIAL:					
MAT. SPEC:					
PART NAME:	Monitoring system				PART NUMBERS: AC300Z15V-PAN02 AC300Z15V-PAN02
	ACCURACII				



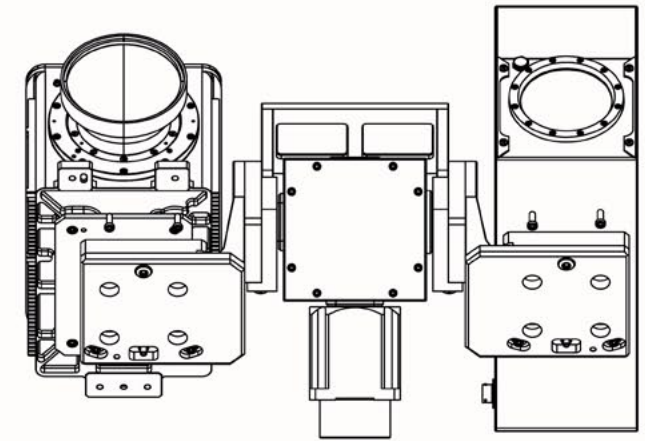
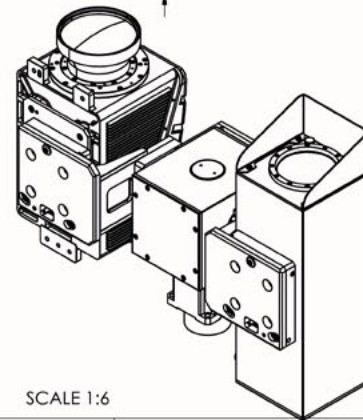
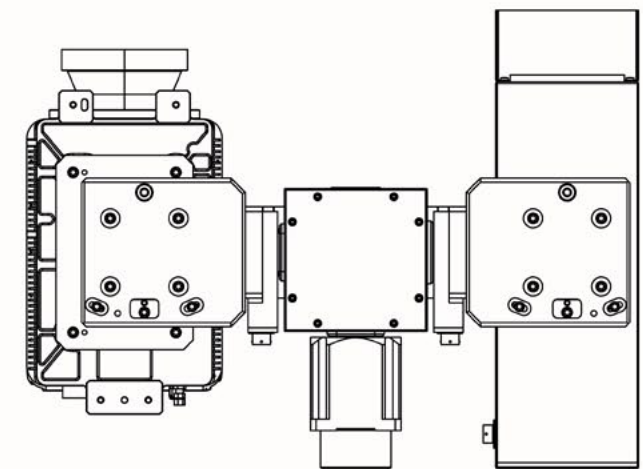
SCALE 1:6

3				
2				
1				
INDEX	CHANGE	DATE	SIGN	
DRAW:	Ing. Gregor	4.4.2013		
APPR. DGN.	Ing. Matusinec	4.4.2013		MASS: ~30,4 Kg SCALE: 1:4
TECHNOL.				TOLERANCES UNLESS ISO 8015 ISO 2768-mK 
CHECKED:				PART NUMBERS: AC300215V-PAP02 AC300215V-PAN02
MATERIAL:				
MAT. SPEC:				
PART NAME:	Monitoring system			
	ACCURACII			



3					
2					
1					
INDEX	CHANGE	DATE		SIGN	
DRAW:	Ing. Gregor	4.4.2013			MASS: ~31,2 Kg
APPR. DGN.	Ing. Matušinec	4.4.2013			
TECHNOL					
CHECKED:					TOLERANCES UNLESS
MATERIAL:					ISO 8015
MAT. SPEC:					ISO 2768-mK
PART NAME:	Monitoring system				PART NUMBERS: AC420Z15V-PAP03 AC420Z15V-PAN03
	ACCURACII				

LIST: 1/2

[illegible]

SCALE 1:6

3					
1					
INDEX	CHANGE	DATE	SIGN		
DRAW:	Ing. Gregor	4.4.2013			
APPR. DGN.	Ing. Matušinec	4.4.2013			MASS: ~31,2 Kg
TECHNOL.					SCALE: 1:4
CHECKED:					TOLERANCES UNLESS ISO 8015 ISO 2768-mK
MATERIAL:					
MAT. SPEC:					PART NUMBERS: AC420Z15V-PAN03 AC420Z15V-PAN03
PART NAME:	Monitoring system ACCURACII				LIST OF...