



EX-SIGHT ADVANCED ELECTRO-OPTICS

DEEPSIGHT

SMART ELECTRO-OPTICS DEVELOPMENT PLATFORM



**SIGHT IS QUALIFIED:
MIL-STD-810G FOR THE FOLLOWING PROCEDURES:**

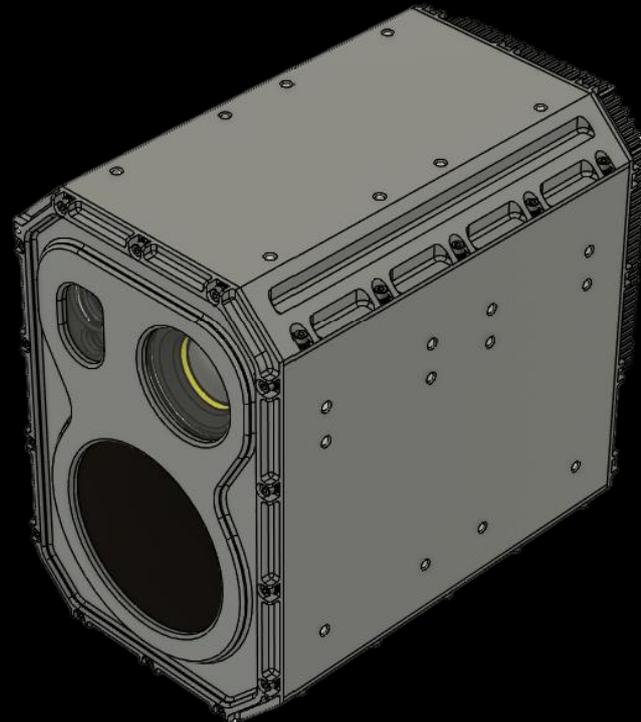
- High Temp. - Method 501.6, Procedure I Storage high temp 168H
- Low Temp. - Method 502.6, Procedure I Storage low temp 24H
- High Temp. - Method 501.6, Procedure II Operation high temp 24H
- Low Temp. - Method 502.6, Procedure II Operation low temp
- Temperature Shock -Method 503.6,63/-33, 1 cycle
- Vibration - method 514.7, transportation highway,1h each axis total 3h
- Vibration - method 528.1, operational 15 sec each frequency, endurance 2h
- Shock - method 516.7, Procedure I,40g/11ms
- Dust -method 510.6, procedure I
- Salt Fog, total 96h
- SAND -Method 510.6, procedure II
- Humidity - Method 507.6, Procedure II, 240H
- Sealing test towards IEC60529 IP67 code
- Solar radiation - Method 505.4 procedure I – 72h
- Rain - Method 506.4, Procedure II, 15minutes
- Fluids contamination - Method 504.3

MIL STD 461F EMI RFI
CE101, CE102, CS101, CS114, CS116, RE101
RE102, RS101, RS103 (2Mhz-18Ghz;50V/m).

Tested by:



ISRAEL TESTING LABORATORIES
Global Certifications You Can Trust



MODEL	MWIR 15-300	LWIR 25-150	LWIR 20-100	LWIR HD 25-75
LOW LIGHT DAY SENSOR	3.0MP Global Shutter Zoom Block Optical x30 Digital x16 Resolution 2048x1536 @ 30fps Focal Length 5.5mm-165mm FOV 46.5° - 2.2° Or 3.7MP SONY IMX675 Zoom Block Optical x40 Digital x32 Resolution 2560x1440 @ 30fps Focal Length 4.25mm-170mm FOV 73.8° - 2.16°			
DAY WINDOW	SAPPHIRE, AR COATED			
NIGHT SENSOR	COOLED MWIR x20 Zoom 15-300 mm F4.0 FOV 1.83° to 35.5°	LWIR 640x512 x6 Zoom 25-150mm FOV 17,5° to 2,93°	LWIR 640x512 x5 Zoom 20-100mm FOV 22,5° to 4,4°	LWIR 1280x1024 x3 Zoom 25-75mm FOV 32°to 10.9°
NIGHT GLASS	SILICON windows, Size: φ92.6x5mm, AR/DLC@3-5um			
POSITION	Horizontal / Vertical Installation			
DRI				
DETECTION (m) Human/NATO target	8,660/14,500	4,300/9,583	2,886/6,388	2,165/4,791
RECOGNITION (m) Human/NATO target	4,330/9,583	2,165/4,791	1,443/3,194	1,082/2,395
IDENTIFICATION (m) Human/NATO target	3,247/7,187	1,623/3,593	1,082/2,395	812/1,797
LRF Laser Range Finder	8KM NATO Target, Precision 0.01 – 0.5 m, Beam divergence 0.6 mrad, Eye safe Laser Class 1			
NPU	CPU Intel® Core™ Ultra Processors ,RAM 64GB, SSD 1TB ,INTEL® ARC™			
POWER	12-40 VDC 120W Max. MIL.STD704, MIL.STD810G POWER STABILIZER			
DIMENSIONS (mm)	190 X 284 x 300 mm			
INTERFACE	ETHERNET INTERFACE			
CONNECTOR	Hermetic Stainless Steel D38999/23YC35PN			
WEIGHT (Kg)	9 kg	9 kg	9 kg	9 kg
IP RATE	Sealed IP67 Nitrogen Purged			

*DRI Calculation according to Johnson Criteria (Lines 3/6/8 D/R/I)

MODEL	MWIR HD 15-300	SWIR HD 7.1-200	SWIR HD 17-510	LWIR HD 25-225
LOW LIGHT DAY SENSOR	3.0MP Global Shutter Zoom Block Optical x30 Digital x16 Resolution 2048x1536 @ 30fps Focal Length 5.5mm-165mm FOV 46.5° - 2.2° Or 3.7MP SONY IMX675 Zoom Block Optical x40 Digital x32 Resolution 2560x1440 @ 30fps Focal Length 4.25mm-170mm FOV 73.8° - 2.16°			
DAY GLASS	SAPPHIRE GLASS			
NIGHT SENSOR	COOLED HD MWIR x20 Zoom 15-300 mm F4.0 FOV 35.5° to 1.83°	SWIR 1280x1024 x28 Zoom 7.1-200mm FOV 48.5° to 1.83°	SWIR 1280x1024 x30 Zoom 17-510mm FOV 21.32° to 0.72°	LWIR 1280x1024 x9 Zoom 25-225mm FOV 34.2° to 3.9°
NIGHT GLASS	GE/SILICON windows			
POSITION	Horizontal / Vertical Installation			
DRI				
DETECTION (m) Human/NATO target	8,660/14,500	13,856/30,666	35,333/78,200	6,495/14,375
RECOGNITION (m) Human/NATO target	4,330/9,583	6,928/15,333	17,666/39,100	3,247/7,187
IDENTIFICATION (m) Human/NATO target	3,247/7,187	5,196/11,500	13,250/29,325	2,435/5,390
LRF Laser Range Finder	•8KM NATO Target, Precision 0.01 – 0.5 m, Beam divergence 0.6 mrad, Eye safe Laser Class 1			
NPU	CPU Intel® Core™ Ultra Processors ,RAM 64GB, SSD 1TB ,INTEL® ARC™			
POWER	12-40 VDC 120W Max. MIL.STD704, MIL.STD810G POWER STABILIZER			
DIMENSIONS (mm)	190 X 284 x 300 mm			352x275x360 mm
INTERFACE	ETHERNET INTERFACE			
CONNECTOR	Hermetic Stainless Steel D38999/23YC35PN			
WEIGHT (Kg)	9 kg	16 kg	20 kg	23 kg
IP RATE	Sealed IP67 Nitrogen Purged			

*DRI Calculation according to Johnson Criteria (Lines 3/6/8 D/R/I)

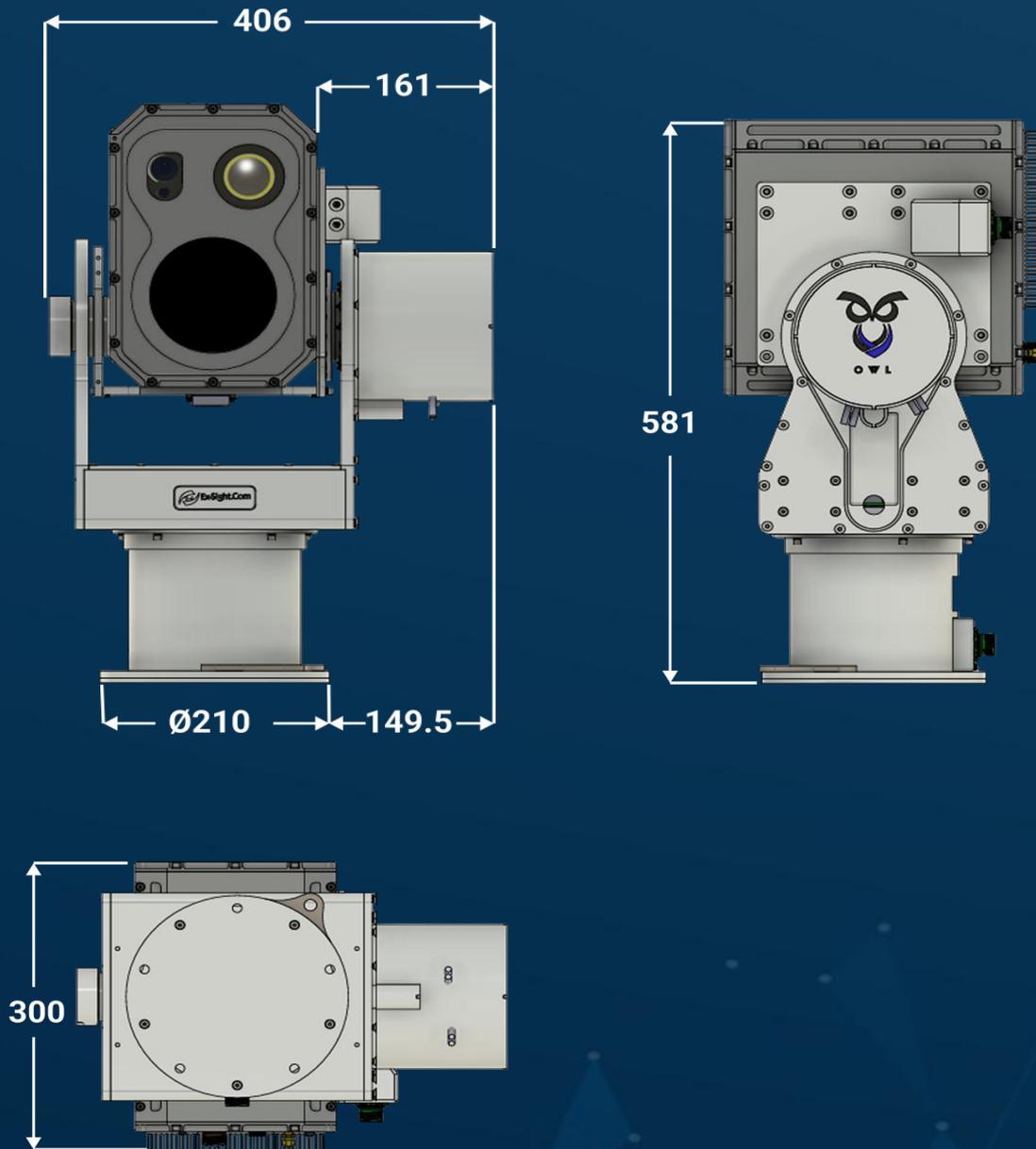
MODEL	MWIR HD 50-1000	LWIR HD 30-300	LWIR HD 25-225 PRO	SWIR HD 17-510 PRO
LOW LIGHT DAY SENSOR	1/1.8" 5MP Pregius S Global Exposure CMOS, 2448 × 2048, 5MP 20 ~ 1200mm ; 60× Optical, 16× Digital FOV 19.0° to 0.32°			
DAY GLASS	SAPPHIRE GLASS			
NIGHT SENSOR	COOLED HD MWIR x20 Zoom 50-1000 mm F4.0 FOV 14.6° to 0.7°	LWIR 1280x1024 x10 Zoom 30-300mm FOV 32° to 10.9°	LWIR 1280x1024 x9 Zoom 25-225mm FOV 34.2° to 3.9	SWIR 1280x1024 x30 Zoom 17-510mm FOV 21.32° to 0.72
NIGHT GLASS	GE/SILICON windows			
POSITION	Horizontal Installation			
	DRI			
DETECTION (m) Human/NATO target	34,000/76,000	8,660/19,166	6,495/14,375	35,333/78,200
RECOGNITION (m) Human/NATO target	17,320/38,333	4,330/9,583	3,247/7,187	17,666/39,100
IDENTIFICATION (m) Human/NATO target	12,990/28,750	3,247/7,187	2,435/5,390	13,250/29,325
DRF Laser Range Finder	8Km or 17.6Km NATO Precision 0.01 – 0.5 m, Beam divergence 0.6 mrad, Eye safe Laser Class 1			
NPU	CPU Intel® Core™ Ultra Processors ,RAM 64GB, SSD 1TB ,INTEL® ARC™			
POWER	12-40 VDC 120W Max. MIL.STD704, MIL.STD810G POWER STABILIZER			
DIMENSIONS (mm)	376x629x536			
INTERFACE	ETHERNET INTERFACE			
CONNECTOR	Hermetic Stainless Steel D38999/23YC35PN			
WEIGHT (Kg)	30 kg	30 kg	30 Kg	30 Kg
IP RATE	Sealed IP67 Nitrogen Purged			

*DRI Calculation according to Johnson Criteria (Lines 3/6/8 D/R/I)

				
	OWL	OWL225	OMEGAΩ	OWL1000
MOUNTING TYPE	U Mount	U Mount	Ω (OMEGA) TOP + Sides	U Mount
TILT	Max ±90° Deg Max. Motor Torque (NM) 35/ 50/ 150			
PAN	Cont. 360° Deg Motor Torque (NM) 35/ 50/ 150			
TRUE NORTH INS GPS	DUAL ANTENNA GNSS-AIDED INERTIAL NAVIGATION*			
MAX.SPEED	20 RPM, up to 120°/sec			
MAX. PAYLOAD	50 kg	50 kg	70 kg	70 Kg
DIMENSIONS LxWxH (mm)	416x210x442	505x255x624	794x210x419	777x765x629
WEIGHT(Kg)	22 kg	25 kg	32 kg	32 kg
IP RATE	IP66			
POWER	24 - 48VDC			

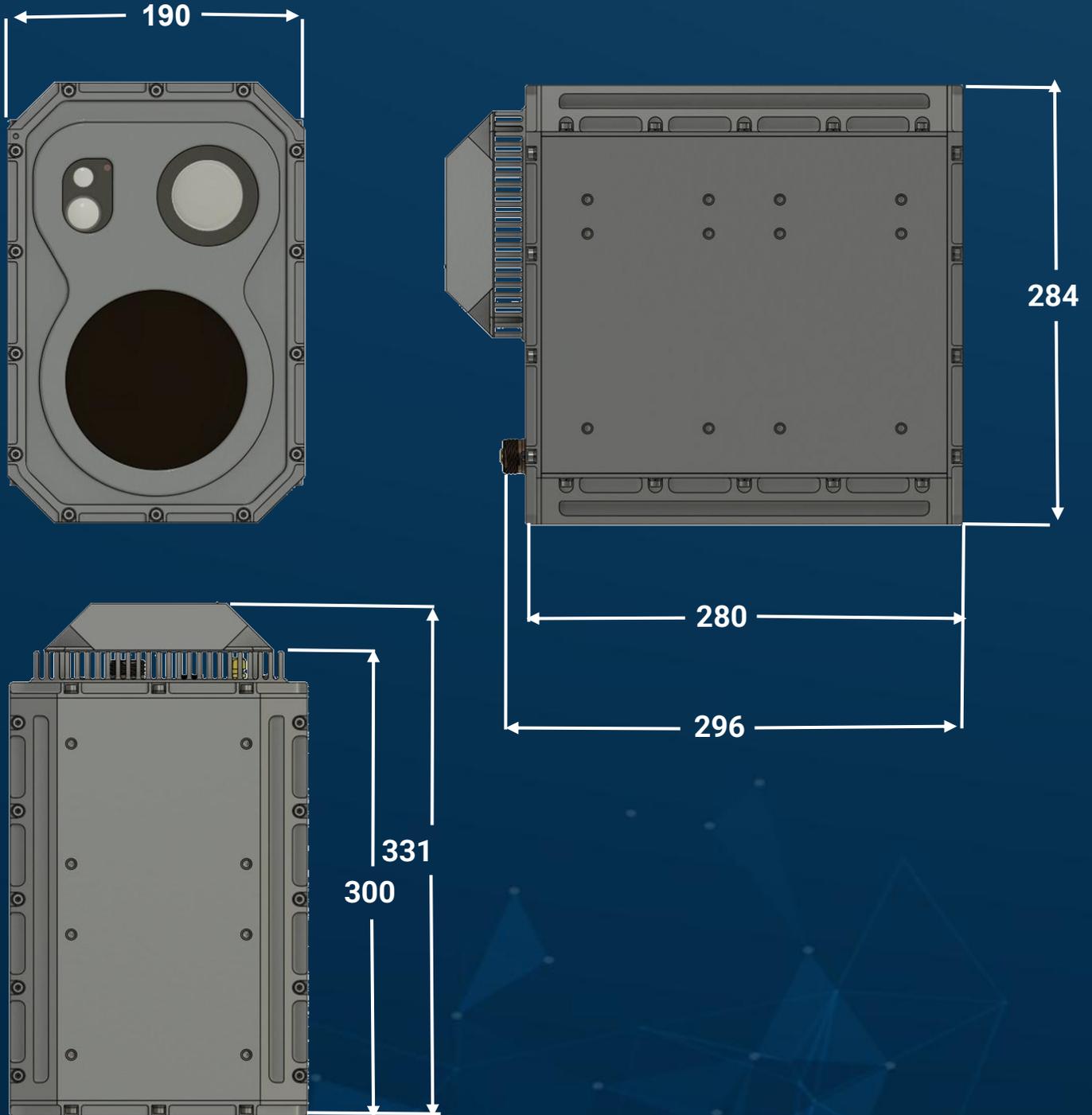
MWIR15-300 , LWIR 25-150, LWIR 20-100, LWIR HD 25-75
MWIR HD 15-300, SWIR HD 7.1-200, SWIR HD 17-510

DIMENSIONS on PT OWL(LxWxH, mm) 406x300x581



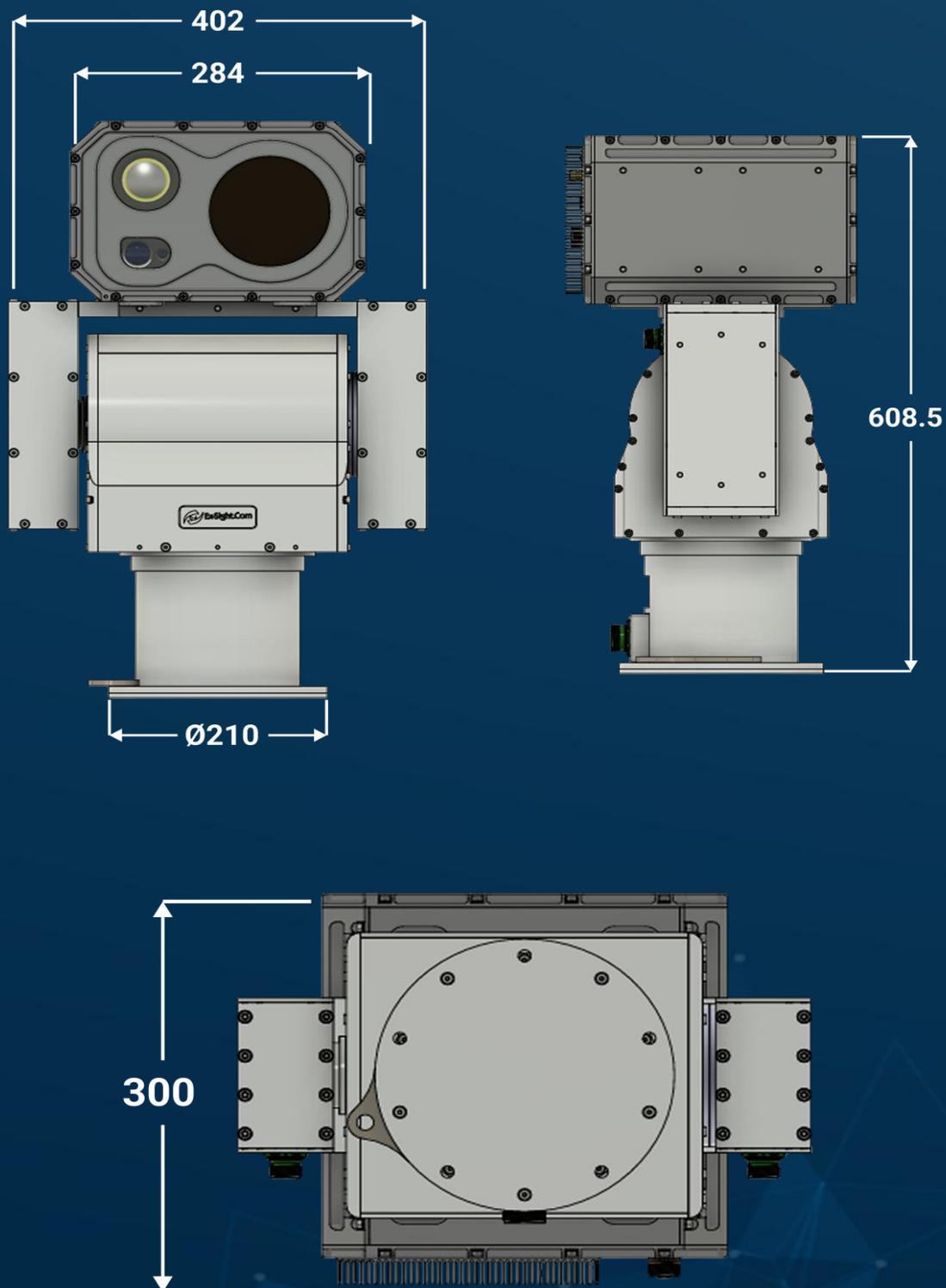
MWIR15-300 , LWIR 25-150, LWIR 20-100, LWIR HD 25-75
MWIR HD 15-300, SWIR HD 7.1-200, SWIR HD 17-510

DIMENSIONS (LxWxH, mm) 190x300x284



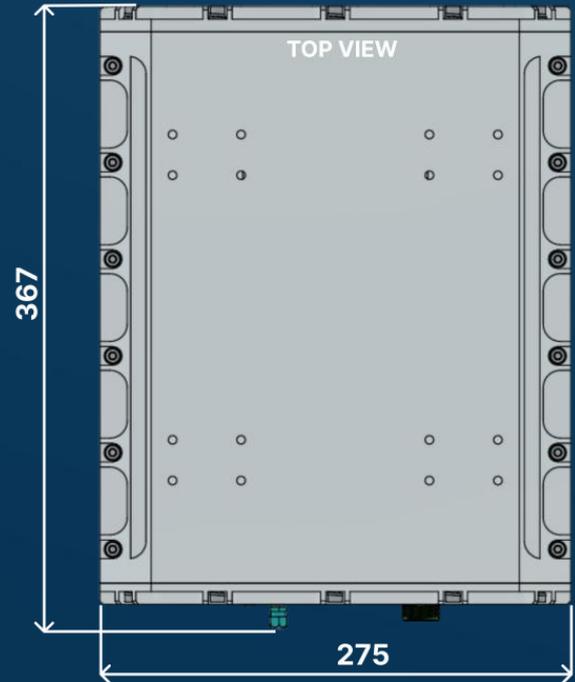
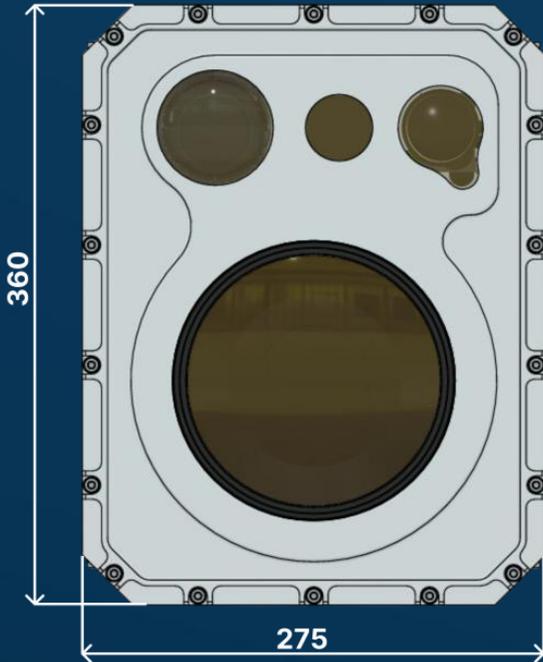
MWIR15-300 , LWIR 25-150, LWIR 20-100, LWIR HD 25-75
MWIR HD 15-300, SWIR HD 7.1-200, SWIR HD 17-510

DIMENSIONS on PT OMEGA (LxWxH, mm) 402x300x608.5



LWIR HD 25-225, SWIR HD 17-510

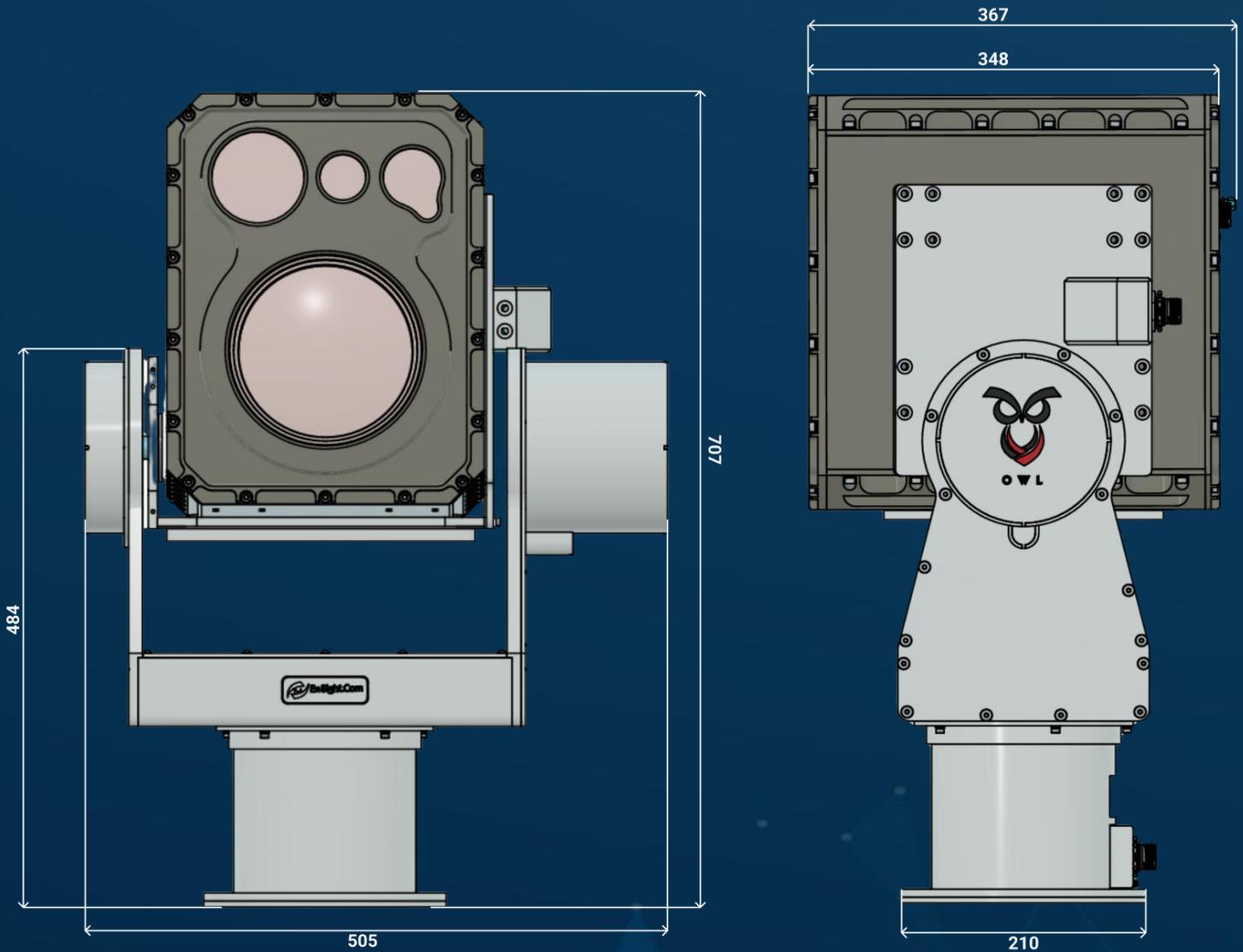
DIMENSIONS (LxWxH, mm) 275x367x360



DEEPSIGHT

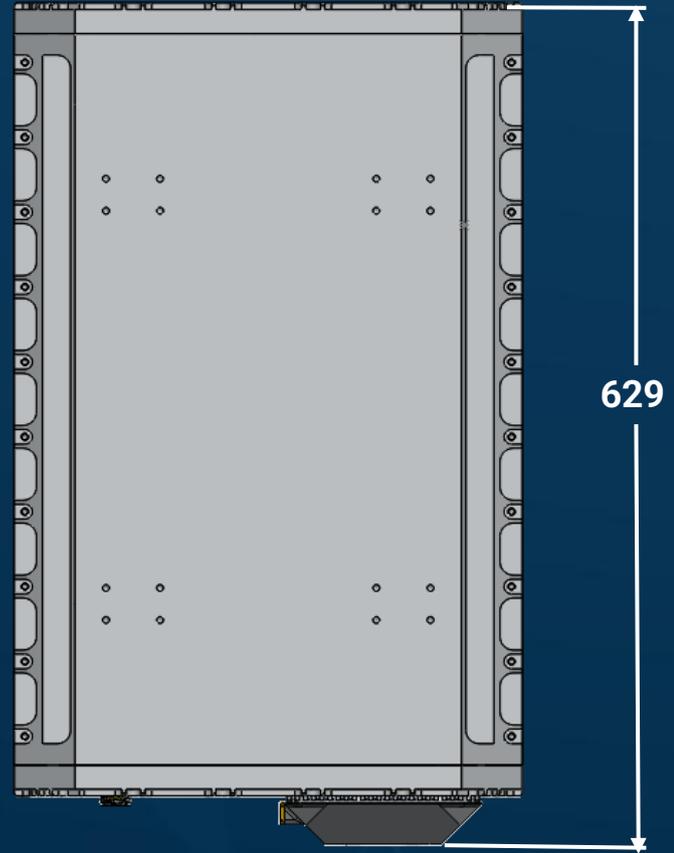
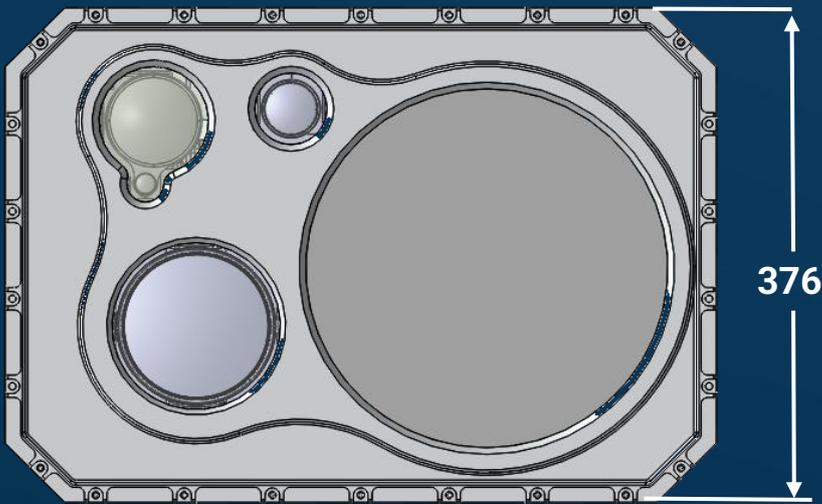
LWIR HD 25-225, SWIR HD 17-510

DIMENSIONS with OWL225 (LxWxH, mm) 484x505x210



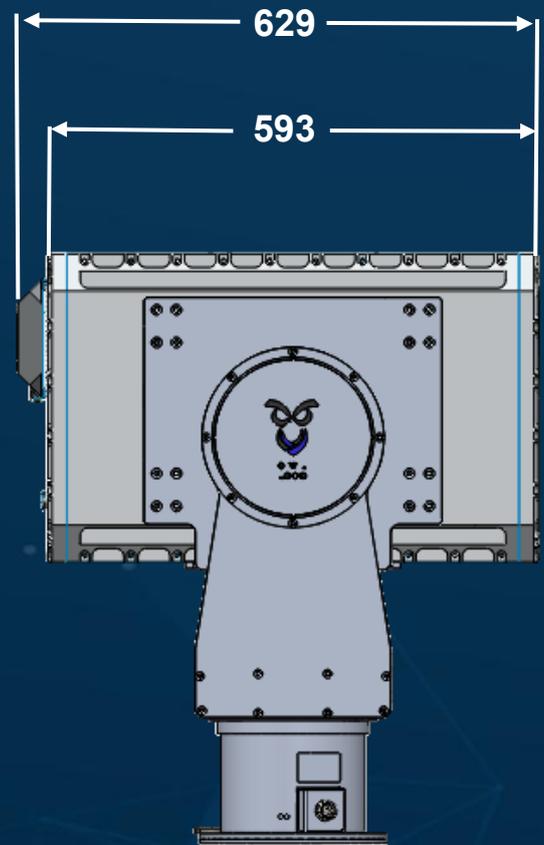
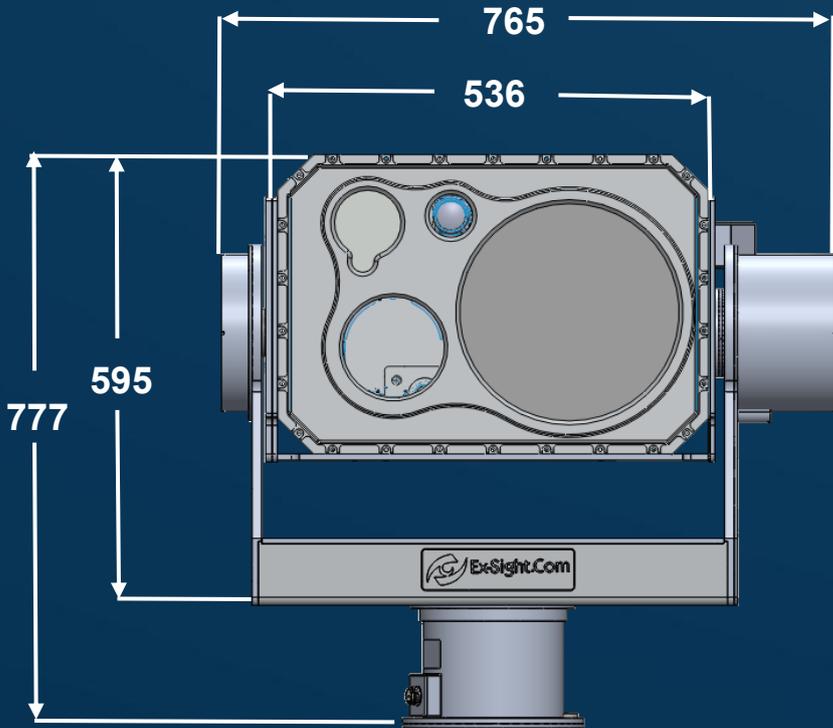
MWIR HD 50-1000, LWIR HD 30-300, LWIR HD 25-225 PRO ,
SWIR HD 17-510 PRO

DIMENSIONS (LxWxH, mm) 376x629x536



MWIR HD 50-1000, LWIR HD 30-300, LWIR HD 25-225 PLUS, SWIR HD 17-510 PRO

DIMENSIONS on OWL1000 PT (LxWxH, mm) 777x765x629





SIGHTDESK

AUTOMATED TRACKING VIDEO SOFTWARE

- Multi Sensor Management
- Passive Electro Optic RADAR Client / Server
- Enhanced Digital Video Trackers / Classifiers
- Pan, Tilt, Zoom, Day, Night, LRF Control
- Geo-Positioning with pre-loaded route tracking
- INS Gyro Stabilization
- Electronic Stabilization
- Video Analysis, ATR, Detection, Tracking & Classification
- Integrated Tracker / Simulator / Trainer
- Mapping and FOV Zone view
- Recording & Logging
- Integration with external resources, Drones, Radars
- Open Source C# SDK, open source code available



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