Overview

PodView™

The most agile, lowest latency, AI and edge processing enabled, Remote and Autonomous Sensor System on the market today.

Applications

- Force protection
- C - UAS
- Deep Reconnaissance
- Vehicles, Vessels, UGVs and USVs
- Security & Surveillance
- Emergency Response
- Wildlife Protection

Compact, silent, and digitally networked, PodView delivers filtered, actionable intelligence in real-time, whatever the conditions.

PodView2600™

Technical Summary

Visible Camera	
Image Sensor	1/1.8-type STARVIS Sony CMOS Sensor (8MP)
Resolution	8MP @ 30 fps (4K)
Zoom	30x Enhanced Optical Zoom*
Lens	f = 6.5 mm (wide) to 162.5 mm (tele), F1.6 ~ 4.8
Sensivity or Low Light Performance	Colour: 0.009 lux (Shutter Speed: 1/30 s) B/W: 0.00008 lux (Shutter Speed: 1/30 s)
S/N Ratio	>50dB AGC off
Horizontal Field of View	59.0° - 2.8° dependent on zoom
Focus Mode	Auto/Manual
Exposure Mode	Auto/Manual/Spot
Wide Dynamic Range (WDR)	Yes

*25x Optical Zoom with Sony 30x Enhanced Optical Zoom

Thermal Camera	
Resolution	640 x 480 17µm
Thermal Spectral Band	Longwave Infrared (LWIR) 8 to 14 µm
Operation	Uncooled
Sensitivity	40mK
Horizontal Field of View	12°

Motion Platform	
Drives	Helios™ Integrated Servo Drives powered by Servotorq II™
Pan and Tilt Speed	0.05°/s to 720°/s (both axes)
Pan Range	360° with continuous rotation
Tilt Range	360° with continuous rotation
Stabilisation	Mechanical direct-drive and Electronic Image Stabilisation
Preset Positions	Repeatable accuracy better than 0.01°
Tours	User configurable tours
Positioning	Integrated GNSS

Hardware	
Power Supply Voltage	37-55 Volts DC (12-55V with Optional PodHub)
Power Consumption	Typically between 30 & 150W dependent on operating mode
Operating Noise	Silent
Enclosure	Aluminium with marine grade coating Toughened glass/germanium apertures
Wiper	EO and LRF lens wiper
Connector	Single 37 pin MIL-DTL-38999 III (D38999) connector for power and communications
Colour	RAL6003 Olive Green - 30% Matt Alternative colour options available on request
Dimensions	365mm(H), 212mm(W), 183mm(D)
Weight	7.5Kg

Laser Range Finder	
Laser Range Finder	1850m range to Nato 2.3m Target +/-1m accuracy

Video Streaming	
Data Storage	2TB
Data Recording	Ability to record video from both cameras simultaneously for post-processing or retrieval
Video Encoding	H.264 (MP/HP) transported over RTSP, HLS & WebRTC

Edge Computing	
AI/ML	Capable of running ML/AI Edge Models from AI partners or user installed
Operating System	AdvISE™ (JetPack 6)
Module	NVIDIA Jetson Orin AGX
GPU	1792-core NVIDIA Ampere GPU with 56 Tensor Cores
AI Performance	131 TOPS in standard power mode
CPU	8-core NVIDIA Arm® Cortex® -A78E v8.2 64-bit CPU
WebUI	AdvISE™ for configuration and control

Networking	
Interoperability	ONVIF Profile S, BSI-Flex-335 v1 & v2 (SAPIENT), COT (TAK)
Communication	Ethernet 1Gbps
Digital I/O	2 inputs and 4 outputs

Environmental and Certifications	
Operating Temperature	-20°C to +55°C (option for -40°C to + 55°C)
Dust and Water	IP68 (BS EN 60529)
Impact	IK10 – EN62262
Vibration	EN60068-2-6
Shock	EN60068-2-27
Salt Spray	IEC60068-2-52:1996 severity Level 1
Wind	Stability at 150km/h, 42m/s
Certifications	CE Marked, EN61000-6-3, EN55032, FCC Part 15 BS EN 62368-1:2020+A11:2020 Audio / video, information & communication technology equipment – Part 1: Safety Requirements

Optional Accessories	
Cabling	Armoured cable, 1, 5 or 10 metre - other lengths available on request
PodHub	Enables input power from 12V to 55V and provides interfaces for a wide range of communications and other ancillaries platforms
Rugged Controller	Hand Held Controller (HHC)
Mounts and Brackets	Multiple options for mounting on masts, crewed vehicles, UGV/USV/UAS, tripods and parapets
Mains PSU	Input: 90-305 V AC. Ouput: 48V DC, 350W

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