

PodView 2500 - Advanced Remote and Autonomous Sensor System

Persistently Detect, Classify and Track

PodView 2500 is the most agile, low latency, AI and edge processing enabled, Remote and Autonomous Sensor System in the market today. PodView 2500 autonomously and persistently detect, classify, alert users and track targets of interest; all at machine speed.

PodView 2500 combines high performance sensors, extreme agility, advanced stabilisation and outstanding low latency edge AI/ML processing in a single, compact solution.



The PodView 2500 Sensor

Visible Camera

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|--------------------------------------|---|
| Image Sensor | 1/1.8-type STARVIS Sony CMOS Sensor (4.17M pixels) |
| Resolution | 4MP @ 30 fps |
| Zoom | Zoom 30x Enhanced Optical Zoom |
| Lens | Lens f = 6.5 mm (wide) to 162.5 mm (tele), F1.6 ~ 4.8 |
| Sensitivity 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 |

Motion Platform

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|--------------------|--|
| Drives | HeliosTM Integrated Servo Drives powered by Servotorq IITM |
| Pan and Tilt Speed | 0.05°/s to 720°/s (both axes) |
| Pan and 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 |

Video Streaming

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|----------------|---|
| 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

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|------------------|---|
| AI/ML | Capable of running ML/AI Edge Models from AI partners or user installed |
| Operating System | AdvISE™ (JetPack 5) |
| Module | NVIDIA Jetson Xavier AGX |
| GPU | 512-core NVIDIA Volta GPU with 64 Tensor Cores |
| AI Performance | 32 TOPS |
| CPU | 8-core NVIDIA Carmel Armv8.2 64-bit CPU 8MB L2 + 4MB L3 |
| WebUI | WebUI |

Networking

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

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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° |



PodView 2500 with 360° continuous rotation

Environmental and Certifications

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|-----------------------|---|
| 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 150kmph, 42m/s |
| Certifications | CE Marked, EN61000-6-3, EN55032, FCC Part 15 BS EN 62368-1:2020+A11:2020 Audio / video, information & communication technologies |

Optional Accessories

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|---------------------|---|
| 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 I | Mains Input: 90-305 V AC. Ouput: 48V DC, 350W |

Environmental and Certifications

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|----------------------|---|
| Power Supply Voltage | 46-50 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 |
| Connector | Single 22 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 |



Alternative colour options available on request