



ARGOS-II HD

For Intelligence, Surveillance and Reconnaissance (ISR)

Applications

- Search and Rescue
- Maritime Surveillance and Patrol
- Military Reconnaissance
- Force Protection
- Border Surveillance
- Law Enforcement
- Asset and Environmental Protection

Platforms

- Fixed-Wing
- Rotary-Wing
- UAV
- Aerostat

Features and Benefits

- Multi-Sensor
- Multi-Spectral
- Single LRU configuration
- Continuous Zoom Optics for enhanced situational awareness
- MWIR Continuous Zoom Thermal Imaging Camera
- HDTV-Zoom and Spotter Cameras with Colour and NIR functions
- Internal IMU and GPS for accurate GEO functions
- All Sensor images simultaneously available
- Real-time, on-board image processing
- Multiple video and communication interfaces supporting various Ancillary equipment
- ITAR Free

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Proven Airborne Surveillance and Targeting Solutions

Payload Specifications	System Specifications
MWIR Continuous Zoom Thermal Imaging Camera	ARGOS-II HD Turret
Type Cooled MWIR staring array	<52 kg (fully equipped)
Resolution 1280 × 1024 pixels	498 mm (H) × 449 mm (D)
Wavelength 3 - 5 µm	
Field of View 1.2° - 19.5° (16× continuous optical) 0.15° - 19.5° (130× continuous digital)	Stabilisation & Steering
	2-Axis Inner, 2-Axis Outer Active Control
	6-Axis Built-in Passive Damping
	Typical 5 - 10 µrad rms
	Slew Rates 0 to 60°/s
	Elevation Field Coverage +20° to -120°
	Elevation Range Coverage +100° to -160°
	Azimuth Field/Range n × 360°
HDTV-Zoom Camera with Colour, NIR & Low Light functions	Control Interfaces
Type 2-Megapixel dual FPA's (Colour & NIR)	RS-422 Mission System Interface (STD)
Resolution 1920 × 1080 pixels	MIL-STD-1553B (Option)
Field of View 1° to 20° (1080p) 0.67° to 20° (720p)	Ethernet (Option)
Digital Zoom 2 × (0.5°), 4 × (0.25°) HFOV	Universal or Mission Hand Controller (Option)
Low Light 10 mlux	
HDTV-Spotter Camera with Colour & NIR functions (Optional)	Video Interfaces
Type 2-Megapixel dual FPA's (Colour & NIR)	4 Simultaneous Digital and 2 Analog Video Outputs
Resolution 1920 × 1080 pixels	According to SMPTE-274M/296M (1080/720 50p)
Field of View 0.42° (1080p) 0.28° (720p)	Compressed (Ethernet) Video output (H.264) (Option)
Digital Zoom 2 × (0.2°), 4 × (0.1°) HFOV	
Laser Rangefinder	Ancillary Interfaces
Type Diode pumped, Class 1 (eyesafe)	5× RS-422/232/485, ARINC-429 (option), Ethernet Maintenance
Wavelength 1.54 µm	
Pulse Rate 2 pps	Power
Range 20 km	Nominal 22 to 32 V DC, 250 W to 520 W (Ave), 1000 W (Max)
Range Resolution 1 m	
NIR Laser Illuminator (Optional)	Standards/Environmental
Type Diode, Class 4	RTCA-DO-160, MIL-STD-810, MIL-STD-461
Wavelength 808 nm	Operating Temperature -40°C to +55°C
Beam Power/Divergence 1 W / 10 mrad	Operational Envelope ≤ 50 000 ft
	Airspeed 320 KTAS (Sea level)
Laser Pointer (Optional)	Functional Interfaces
Type Diode, Class 3b	Radar, Moving Map, Searchlight, Remote Control, Datalinks, Embedded and Serial Metadata to SMPTE/KLV standards, MTI, Augmented Reality & Moving Map Interfaces
Wavelength 637 nm (Red) or 808 nm (NIR)	
Beam Power/Divergence 100 mW (Red) or 60 mW (NIR) / 1 mrad	Enhanced Image Processing
	Blending, Picture in Picture, Pseudo Colour, Isotherms, various manual/auto image enhancement functions, Layered colour symbology and Switchable symbology levels
	Handgrip Controller (Option)
	Weight < 1.2 kg
Additional Functionality / Capability	
On-board IMU and GPS for Geo-functions	Enhanced Multimode Autotracker (Scene, Correlation, Centroid)
Field of View and Focus Slaving through zoom range	Continuous Auto Focus
Search Pattern Scanning	Ethernet Maintenance Port - supporting remote diagnostics