NVTS
patrolling the night™

ATLAS LRX
Long-Range Border Camera

NVTS's ATLAS LRX provides a turnkey solution for extended range border and coastal surveillance. Designed to operate in extreme environments, the Atlas LRX delivers a combination of wide area detection, target identification and tracking.

Atlas LRX incorporates the latest in HD MWIR, SWIR and Visible Camera Technology to detect and track small targets at extended ranges with incredible resolution and stability.

Our modular design enables sensors to be easily upgraded, maintained, while keeping operational costs down, and backed by our prompt customer service and technical support.

Atlas LRX is ideal for fixed or mobile applications needing a variety of long range sensors for threat detection and extended perimeter security.

FEATURES:

- HD Thermal Provides 4x the Resolution
- Rugged Mil Spec IP67 Rated Positioner
- Modular Design for Sensor Upgrades and Service
- Thermal and Visible Sensor Flexibility
- Radar Slew to Cue Interface
- Image Stabilization at Long Range NFOV
- Fully Compatible with Existing IP Networked C2 Systems
- HD Visible Digital Atmospheric Fog and Haze Reduction
- Turbulence Mitigation Processing
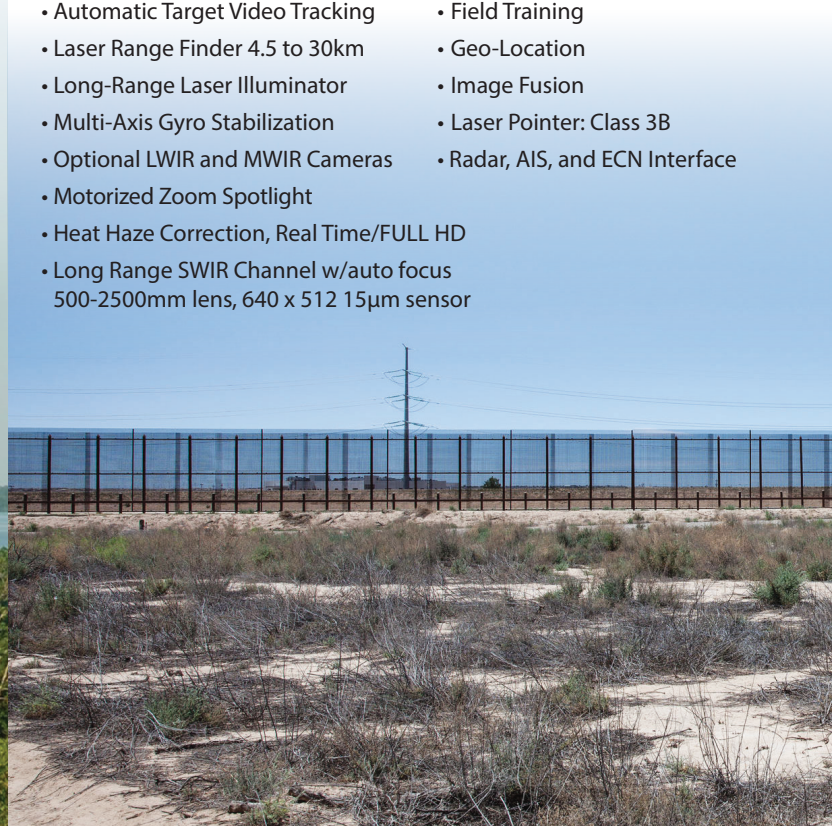- Autofocus

APPLICATIONS:

- Coastal Surveillance
- Force Protection
- 24/7/365 Day Operation
- CUAS Tracking
- Wide Area Border Surveillance
- Mobile Deployment Security
- Tactical Reconnaissance
- Situational Awareness

MULTI AXIS GYRO STABILIZATION (optional):

- High performance integrated MEMS sensor technology provides direct and computed IMU and VRU outputs in a small package.
- Triaxial accelerometer, gyroscope, temperature sensors, and a pressure altimeter achieve the best combination of measurement qualities.
- Dual on-board processors run a sophisticated Adaptive Kalman Filter (AKF) for superior static, dynamic inclination estimates, and inertial measurements.

OPTIONS:

- Automatic Target Video Tracking
- Laser Range Finder 4.5 to 30km
- Long-Range Laser Illuminator
- Multi-Axis Gyro Stabilization
- Optional LWIR and MWIR Cameras
- Motorized Zoom Spotlight
- Heat Haze Correction, Real Time/FULL HD
- Long Range SWIR Channel w/auto focus 500-2500mm lens, 640 x 512 15µm sensor
- Field Training
- Geo-Location
- Image Fusion
- Laser Pointer: Class 3B
- Radar, AIS, and ECN Interface

ATLAS LRX Long Range Border Camera

High-Definition, Wide Area, Long-Range, Surveillance Sensor

MECHANICAL SPECIFICATIONS:

Elevation Velocity:	70-150º/second options
Azimuth Velocity:	70 -150º/second options
Azimuth Range:	540º or Continuous Rotation (optional)
Elevation Range:	180º
Encoder Resolution:	.000254º Azimuth and Elevation
Angular Accuracy:	Better than 0.016º
Angular Repeatability:	Better than 0.0055º
Housing:	Aluminum with Stainless Steel Fasteners
IP Rating:	IP 67
Weight:	<25 lbs (11.34kg) Pan/Tilt (Camera weight varies depending on sensor size)

POWER REQUIREMENTS:

24 to 48 VDC @ 4 amps

PAYLOAD CONTROL INSIDE PAN/TILT:

All internal electronics can be controlled and interrogated from host thru main communication channel. No need to pull separate communication lines for payloads.

SYSTEM INTERFACES:

Video Format:	NTSC/PAL, HD-SDI, GigE Vision
Command Control Options:	Ethernet, GigE, RS 232, RS485

LASER PAYLOAD:

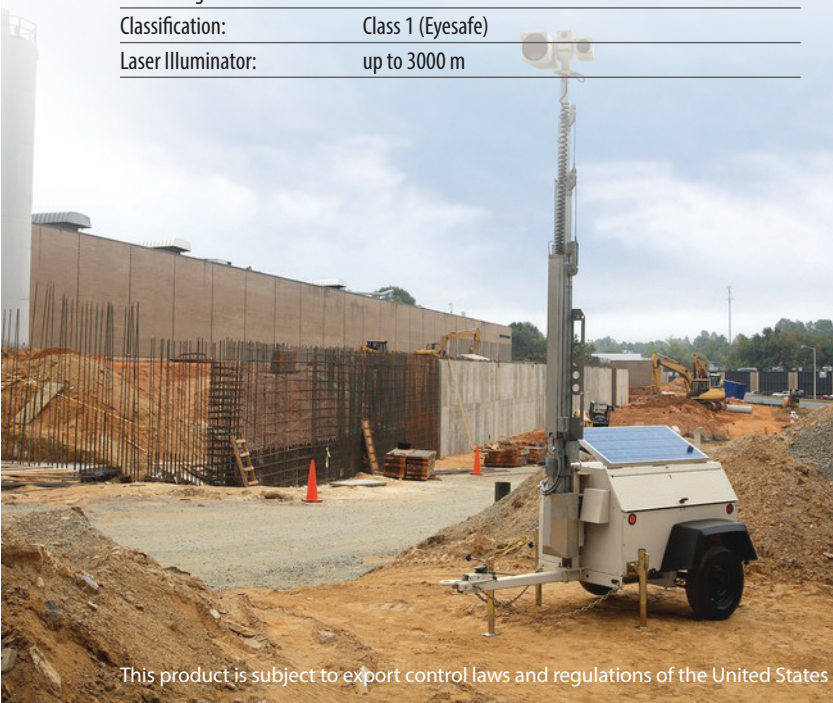|	
Laser Range Finder:	4.5 to 30 km
Classification:	Class 1 (Eyesafe)
Laser Illuminator:	up to 3000 m

IR CAMERA :

Sensor Resolution:	1280 x 1024 10µm, 1920 x 1200 12µmor 640 x 480 15 µm Pitch
Sensor Type:	High Sensitivity MWIR Cooled InSb Focal Plane Array, HD LWIR
Spectral Band:	3-5 µm, 8-14 µm LWIR
Focal Range:	Up to 1350mm EFL, F/4.0 F/5.5 Continuous Optical Zoom

IR FEATURES AND BENEFITS:

- MWIR Cooled Detector Delivers Long Range Performance That Detects Man-Size Targets Above 10 km and Vehicle/Small Craft Detection Above 30 km
- Long Continuous Zoom Ranges Provide Crisp Image at Extended Ranges. Always Keep Sight of the Target with Continuous or Pre-Set Zoom Positions
- Immediate Clear and Focused Image at the Touch of a Button
- Reveals Precise Scene Details Missed by Other Systems
- Delivers a High Contrast Image Even in the Most Challenging Thermal Conditions.
- Unmatched Sensitivity and up to Four Times the Resolution of Other Systems for Significantly Greater Range and Image Quality
- Image Enhancement Processing
- Electronic Image Stabilization
- Adaptive Temporal Noise Reduction

COLOR HD VISIBLE CAMERA:

- 2.3 Mega Pixel HD CMOS SENSOR, Fog, NIR Sensitive 26ºW to .44ºN HFOV
- Auto Focus 16-1040mm 66x optical zoom or (2x) 32-2080mm , Day/Night/NIR
- Visible Light Cut Filter (Black Glass)
- High Sensitivity HD Camera with Wide Area Situational Awareness and Ultra Long Range Detection
- Includes Image Stabilization, Auto-Focus and Turbulence Mitigation Processing
- Long-Range Performance (man-size target detection >10 km and vehicle detection >30 km)
- Heat Haze Correction, Real Time in FULL HD (optional)
- Fog Adjust Mode Deployment / Adaptive Fog Reduction (AFR) Allows Camera to See Through Fog, Dust & Smoke Real Time in Both HD & SD Modes Simultaneously

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