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NightScout Portable Surveillance System

Imaging Group



APPLICATIONS

- Covert Surveillance
- Airport / Seaport / Harbor Security
- Coastal / Border Observation
- Perimeter Monitor

Detection, Surveillance, Force Protection. NightScout is a man-portable, ruggedized, detection and surveillance system offering unparalleled performance. This compact and mobile system is fully weatherproof, and designed specifically for covert operations in extreme environments. The NightScout system is comprised of two key elements – The Sensor Module and the remote Control Console.

The NightScout Sensor Module is designed to offer a variety of mission-tailored sensors. A high-speed pan/tilt incorporates a slip ring for 360° continuous sensor coverage. The Thermal Imager is Argon ST's premier 300-series MWIR thermal imager which combines superior long range performance with extremely detailed crisp imagery, and proven high reliability. A complementary color TV with very low light level performance is available as an additional sensor. The wide range of fields-of-view, exceptional sensitivity and high resolution of both sensors provides for extremely long-range target detection, recognition, and identification. Add-on features to the sensor module include an Eye Safe Laser Range Finder, Acoustic Receiver/DF, GPS, Digital Magnetic Compass, and Mini-DV recorder.

The user-friendly NightScout Control Console is extremely rugged and built to withstand the harshest of field conditions. Within its weatherproof hard-shell carrying case is an extended temperature range LCD display and a full set of tactical controls. Using the optional target geo-location package, range and bearing to the target, and target coordinates can be instantly viewed. The Control Console is connected to the sensor module with up to a 100' cable.





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System Features:

- High Performance, Long Range Midwave IR and Color TV sensors
- Exceptional image resolution employing advanced digital image processing techniques
- Extremely Rugged – All elements designed and tested for worst-case field conditions
- Impervious to Dust, Sand, Ice
- Waterproof System Controls & LCD Display
- State-of-Art, Sealed Pan & Tilt with continuous 360° pan and 145° total tilt available
- Target Geo-Location Option
- LAN Interface for Network Connectivity
- Tower Installation Option
- High Reliability

Specifications

Control Console

- Windows-based weatherproof controller
- Pan & tilt joystick, tactical controls
- 15" Extended temperature LCD full color display

Pan & Tilt

- 360° continuous pan at up to 60°/second
- Tilt range of +85° to -60° at up to 20°/second
- Fully sealed and weatherproof

Tripod

- Lightweight with quick set-up features
- Designed for flat and steep terrain applications

Thermal Imager

- Midwave spectral band (3 – 5 μ m)
- MIL-qualified enclosure, with heated window
- 320 x 240 InSb FPA
 - * 4X Microscanning
- Advanced image processing
- 3 FOV optical telescope
 - * Narrow 1.2°H x 0.9°V
 - * Medium 5.0°H x 3.8°V
 - * Wide 22.0°H x 16.5°V
 - * 2X E-Zoom 0.6°H x 0.45V

TV Sensor

- 1/3" color CCD with 480 TV lines of resolution @ 0.1 min lux
- Electronic shutter with selectable backlight compensation
- CS-mount lens with 34X zoom
 - * FOV 46.6°H ~ 1.5°H

Power

- Nominal 12VDC, 115VAC adapter, Marine battery compatible

Operating Temperature Envelope

- -20°C to +50°C

Total System Weight

- < 145 Lbs

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