Overview

Northrop Grumman’s SCORPION II is the next generation of persistent autonomous surveillance for force protection and intelligence gathering. The system uses seismic, magnetic, as well as passive infrared, long and short range thermal and day cameras, and point blank range cameras (which have a very small form factor, allowing shorter standoff locations, while maintaining concealment) to detect and assess the threat. Reduced size and weight makes portability and concealment faster, and safer.

Key Features

- Unattended battery life of 6+ months
- High fidelity digital imagery (enhanced recognition capability)
- Wireless ad hoc networked imaging sensors and relays
- Long haul communications via Iridium satellite link
- Local wireless burst communications for real time threat assessment
- Optional pan/tilt imaging with no external physical movement
- GUI supports mission planning and remote operation and monitoring

Mission Areas

- Force/FOB Protection
- Border and Perimeter Security
- High Value/Critical Infrastructure Protection
- Target Recognition
- Urban/Jungle/Desert/Mountain Operations
- IED Defeat

Optional Equipment

- Point Blank Range (PBR) Day/Thermal Cameras
- CAST PIR Sensor
- Optical EO/IR Pan/Tilt
- Two and Six B/A-5390, or equivalent Battery Pack

Combined Adaptive Sensor Transceiver (CAST)

- Combines seismic, magnetic and directional passive IR activity sensors with a two-way line of sight transceiver in a buried package
• Detects/classifies targets from 30 to 100 m away
• Cues EO and IR sensors up to 2 km away

**Electro-optic (EO) and Infrared (IR) Sensors**
• EO and IR sensors provide actionable intelligence via persistent data and imagery to enable target classification and GPS location for targets from 5 m to 1.2 km away
• Optional optical pan/tilt device negates the need for large swept volume, to ease concealment and reduce system detection vulnerability

**Universal Communications Gateway**
• Bi-directional secure universal gateway provides encrypted long-haul and local RF communications to capture, process, and relay sensor data and enable remote command and control of the sensors
• VHF burst adhoc network provides EO, gateway and target area monitoring capability to remotely deployed units (TOC)
• Additional communications and sensor capability modules attach to main gateway for operational flexibility and expandability

**Ancillary Items**
• Cables, antennas, concealment kits, battery bags/boxes, and other items support emplacement for long duration unattended concealed missions

---

**SCORPION II Flexibility Enables a Multitude of Fielding Scenarios**

---

For more information, please contact:

Northrop Grumman Corporation
Electronic Systems
Xetron Campus-Business Development
460 West Crescentville Road
Cincinnati, OH 45246
Telephone: (513) 881-3292
Fax: (513) 881-3543
e-mail: marketing.xetron@ngc.com

www.northropgrumman.com
Specifications and features subject to change without notice.
© 2012 Northrop Grumman Systems Corporation
All rights reserved.