

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN

SCORPION II

Unattended Ground Sensors

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

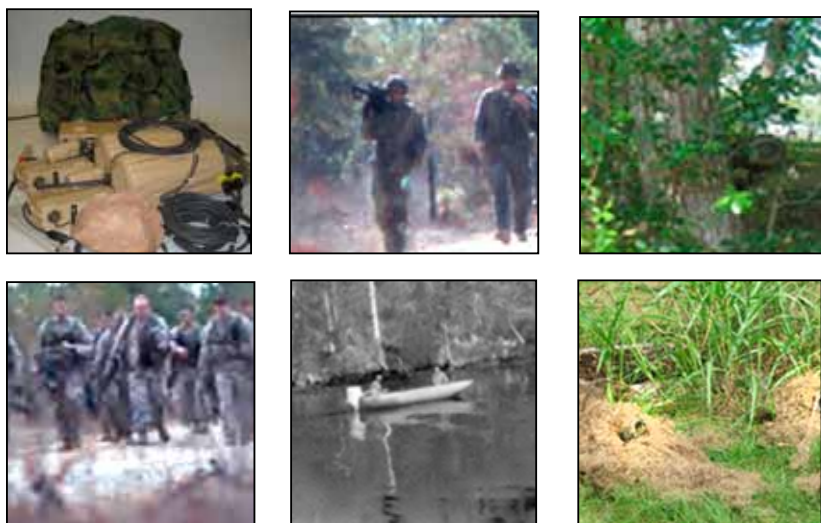
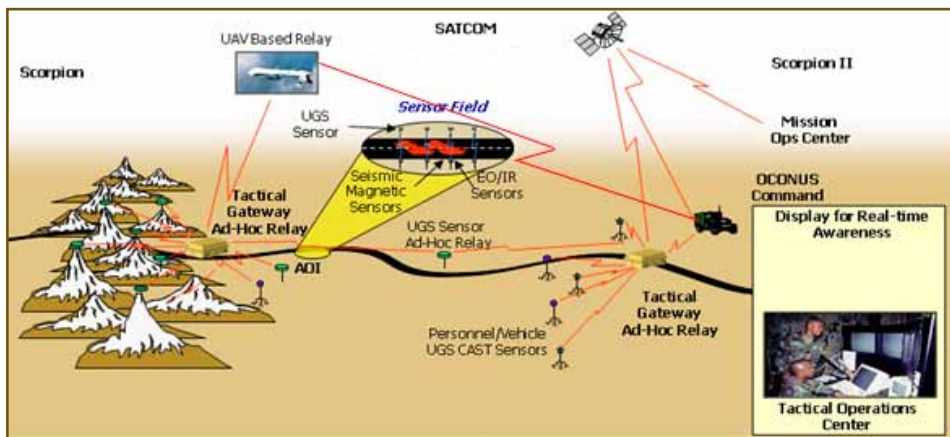
capability to remotely deployed units (TOC)

- 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.



DS-448-VFB-0411
 A330: 13-1362
 2011 RM Graphics

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN