

ATLAS

Battle-proven solution for highly accurate target acquisition



Atlas is an ultra-light, man-portable and accurate target acquisition system designed for operation by forward observers (FO), forward air control, joint terminal attack control, field intelligence and special operations. ATLAS provides effective and precise positioning and pointing, and direction of all laser-guided munition to their intended target, during both day and night operations. Using the internal GPS, built-in compass, star identification plate and laser range-finder (LRF), ATLAS easily obtains self-location, locates the north and effectively acquires targets. The ATLAS can also interface with BMS and C⁴I systems to shorten the sensor-to-shooter loop.

Components include a goniometer for precise measurement of azimuth and elevation angles of a sensor suite, binocular, thermal camera and designator; and tripod, chargers and backpack.

Elbit Systems™

Security & Tactical EO Solutions – ELSEC

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Battle-proven in militaries worldwide - With over 5000 units deployed around the globe, ATLAS is a fully-proven target acquisition solution, increasing situational awareness through the location of friendly and enemy forces.

Advanced, fully-integrated components - ATLAS is integrated with eye-safe LRFs that determine precise distances, as well as shaft encoders and north-finding methods that provide the accurate angular measurements required to automatically calculate targets.

Modular solution - As a lightweight modular system, ATLAS can be man-pack portable or mounted on any AFV, and configured to meet the specific multi-mission needs.

Features

- Highly portable Target Acquisition System
- Suitable for day/night operation
- Several methods for accurate north finding
- High goniometer accuracy in both axes
- Support for artillery fire adjustment and control
- Storage and management of targets

Benefits

- Shortens Sensor-to-Shooter loop
- Ultra-light man-pack portable or mounted on a vehicle
- Modular platform for multi-mission requirements
- Limited collateral damage, high first-round hit probability
- Simple operation via menu-driven software

Technical Specifications

- Digital Goniometer:
 - Dimensions (mm) 220 x 300 x 180
 - Weight (without tripod) <3.8 Kg
 - Resolution 1m Rad in both axes (azimuth & elevation)
 - Range azimuth 360°
 - Range elevation +22° to -28°
 - Communications RS422/ RS232 port
- Orientation Accuracy:
 - Celestial bodies 1 mil (1 σ)
 - Reference point 1 mil (1 σ) - according to reference point accuracy
 - Known targets (resection) 1 mil (1 σ) - according to target accuracy
 - Digital compass 9 mils (1 σ) - depends on local compass deviation
- Self-location methods:
 - GPS/DGPS ± 5 m (CEP)
 - Manually According to the known location accuracy
 - Resection According to the known location accuracy
 - Measurement units 6000/6300/6400 mils or degrees
 - Power source Rechargeable batteries or external power
 - Environmental conditions MIL-STD-810
- Laser Range-Finder:
 - Measurement 5 to 12,000/25 to 25,000 meters
 - Accuracy (1 σ) ± 5 m (500 to 12,000m)
 - Laser type Class 1 eye-safe
 - Power supply Standard, on-board 6V lithium battery, type 2CR5
 - Battery capacity (20°C) > 5000 measurements, low battery indicator
- Night Vision:
 - See CORAL/CORAL CR brochure /data sheet