

Azimuth Technologies Ltd.

ATLAS LT

The Atlas LT target acquisition system is the latest and most modern of the Azimuth target acquisition systems and is the basis for the various Atlas LT specialized systems for forward observers, artillery fire coordination, close air support coordination, border surveillance, and target intelligence.



Atlas LT is carried in a single backpack and carries out all of the functions required by a forward observer and incorporates multiple north finding and own-location determination methods.

Atlas LT is flexible and can be configured to accept a wide variety of sensors.

Atlas LT is a mature system in operational service with the Israeli Army - which uses Atlas exclusively - and with foreign armies - including in NATO,

More than 2000 Atlas LT systems have been delivered.

Main Features:

- Integrated mission computer/ goniometer with electronic compass, GPS and modem
- Accuracy of 1 mil (1σ), both axes
- Proprietary tactical software per mission, Astronomical North Finding Module (ANFM)
- Best payload/weight ratio (capacity 12 Kg)
- Digital data communication, interface with any available radio
- Full keyboard

Key Operational Benefits:

- Rapid precision target acquisition for precise fire on target
- Modular platform configurable per mission, Compatible with multiple observation systems, day and night, per range for any terrain
- Ease-of-operation, ease and speed of deployment
- Light, rugged, carried by one soldier or mounted on an armored vehicle
- Friendly MMI (Man Machine Interface) designed for the stress of battle

Applications:

- **Atlas LT for Forward Observer (FO)** –meets the requirement for forward observer equipment for target acquisition and artillery fire coordination
 - **Atlas LT for Forward Air Controllers (FAC)**- designed to enable the Forward Air Controller detect targets and to provide target location data to aircraft
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COMET Sensors Family



COMET is an azimuth and location sensor for turreted armored platforms. COMET accurately and reliably determines turret/gun attitude when the vehicle is stationary or on the move.

Comet has no drift and is unaffected by the magnetic environment of armored vehicles.

COMET is a proprietary product of Azimuth Technologies, is in serial production, and in operational service with the Israeli Defense forces and foreign armies.

In all its applications, Comet is delivering performance previously unavailable at an affordable price.

Comet Technology

The proprietary Azimuth Technology algorithm utilizes groups of satellites to make real-time calculations for deriving the correct azimuth, while discarding spurious solutions. Inertial sensors are added to allow data output at a higher rate than the 1 HZ GPS rate.

For applications that require high data output rates and/or azimuth backup when GPS is unavailable, a proprietary Inertial Measurement Unit (IMU) is added to produce a hybrid sensor. A sophisticated filter algorithm manages the integration and coordination of the GPS and inertial sensor.

Comet Sensor Family:

- COMET ARM – basic “armored” unit for armored applications
- COMET IMU - hybrid – GPS + IMU unit
- COMET LT – lightweight unit
- COMET HP - high accuracy unit for static applications

Main Features:

- Outputs real-time azimuth, self-location, pitch and roll continuously - whether stationary or on the move.
 - Outputs vehicle heading on the move (when stationary– heading derived from azimuth plus turret encoder output)
 - No drift
 - Suitable for dynamic environments
 - Inertial azimuth back-up for short periods of GPS obscuration (COMET IMU)
 - Digital serial data communication interface – RS 422, RS-232, RS 485
 - Built-in Test - BIT
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Key Operational Benefits:

- Affordable and cost-effective—a fraction of the cost of inertial sensors
- Very low life cycle cost and total cost of ownership
- Simple installation – field installable and replaceable, externally mounted, calibrated in minutes
- Autonomous stand-alone sensor unit which can be easily integrated into any system that requires azimuth and location data
- Accurate and reliable—compatible with a wide variety of military applications
- Combat proven - more than 6 years of successful operational experience in the IDF
- Fully tested and qualified-compliant with MIL-STD810, MIL-STD461, MIL-STD 1275
- Unaffected by the magnetic environment
- Mature system with no development risks

Applications:

- Tanks and other AFVs
- Anti-tank Guided Missile launchers
- Remotely Controlled Weapon Stations
- Mobile Artillery Rocket Launchers
- Mobile Mortars
- Self-propelled Artillery
- Mobile Anti-aircraft Systems
- Elevated, Mast-mounted Sensor Systems
- Infantry Radars
- Mobile Radar Systems
- Mobile Sat-Com

ATRIS MP



ATRIS MP is a man-portable remotely controlled day/night observation system.

The system is carried and operated by a single soldier and is controlled from a CDU with wire and wireless connection options.

Key Features and Advantages:

- Designed for infantry – quick, easy deployment
- Can be operated from a protected position
- Lightweight – carried by a single soldier
- Day & Night observation
- Simple, user friendly human interface
- Quick release mechanical payload interface
- Fine pointing – zero backlash
- Universal interface for sensor flexibility

- Recording and documentation of data
- Optical encoders, 1 mil resolution on both axes - optional
- Wireless control – optional
- MIL-STD

Applications:

- Urban infantry warfare
- Special Forces
- Force protection
- Reconnaissance teams
- Border surveillance

System Elements:

- Lightweight tripod
- High accuracy, lightweight, motorized pan and tilt head
- Day/Night observation channels
- Rugged lightweight CDU running ATRIS software
- Energy pack
- Connection Cable
- Backpack

HUNTER - LRF OEM Module

The HUNTER LRF is an eye-safe laser rangefinder module designed for integration in military electro-optical sighting systems.



Range measurement is achieved using Azimuth's patented Precision Distance Measurements Technology. Operation and configuration of the unit is controlled through an RS232 or RS 422 serial interface enabling remote operation and output of electronic ranging information for further processing and display.

Key features:

- Based on laser diode technology
- Eye safe class 1- (1550nm wavelength)
- Range 30-7000m
- Mil STD

Main advantages:

- Simple interface for system integration
 - Undetectable by current laser warning systems
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Main applications:

- Weapon stations
 - Range measurement for ATGM
 - OEM Module for multi function thermal imagers
 - Reconnaissance systems
 - Land- base surveillance systems
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