

### LTS-2000 Laser Tracking System

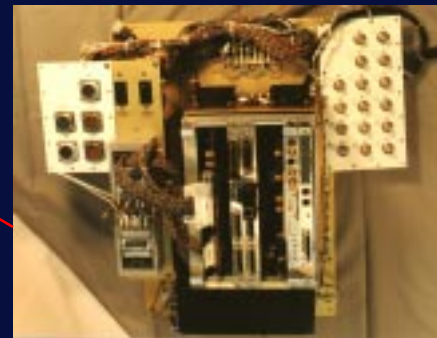
- Stand-alone Metric LIDAR
- Transportable
- Self-powered
- Built-in Data Reduction
- TSPI Recording and playback
- Can be integrated to existing NIKE Hercules pedestal
- Solid-state brushless motors
- Sun shielding to reduce mislevel
- 2 FOV receiver allows 800 feet to 25 nm range
- Built-in acquisition, laser spot and calibration cameras
- Transmitter divergence control
- Optical attenuators to prevent receiver saturation
- Can slave to other tracking systems

- Completely Eye safe
- 50 PPS operation
- Precision: Angle tracking 0.05 milliradian RMS  
Range tracking 1.0 foot RMS
- Environmentally controlled enclosures for extended service life and environmental conditions
- Multipath suppression prevents loss of low angle track
- High mechanical stability designs
- Precision tracking of retro prism and reflective tape targets



### LTS 2001 Laser Tracking System

- Metric LIDAR Transceiver
- AZ, EL and Range Output Data
- Environmental Enclosures protect all components
- Split system for optimal weight distribution
- Field upgrade
- Works in harmony with host radar - provides smooth handoff between radar and LIDAR



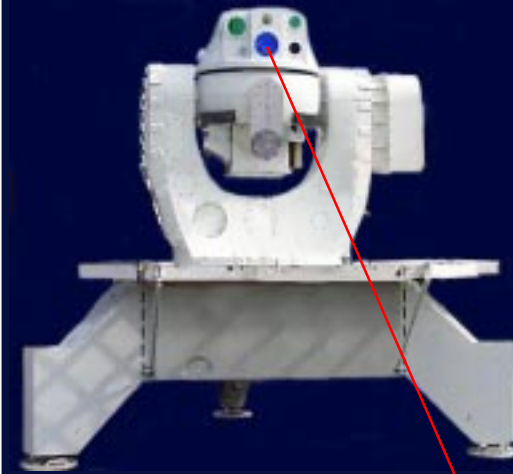
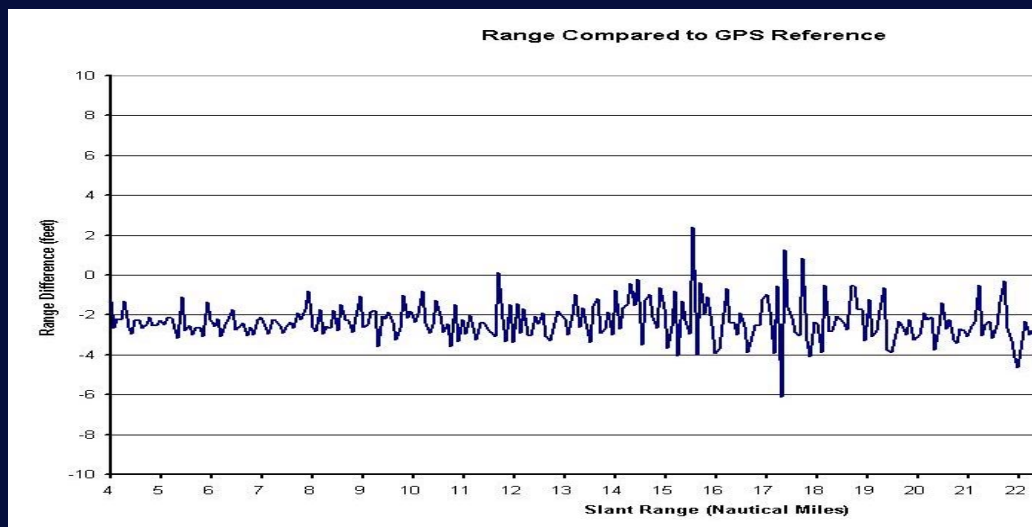
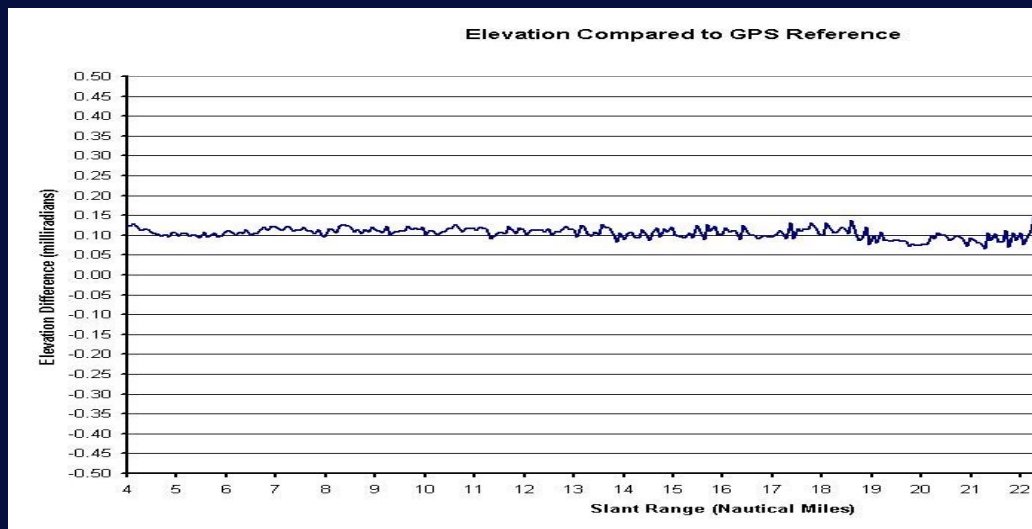
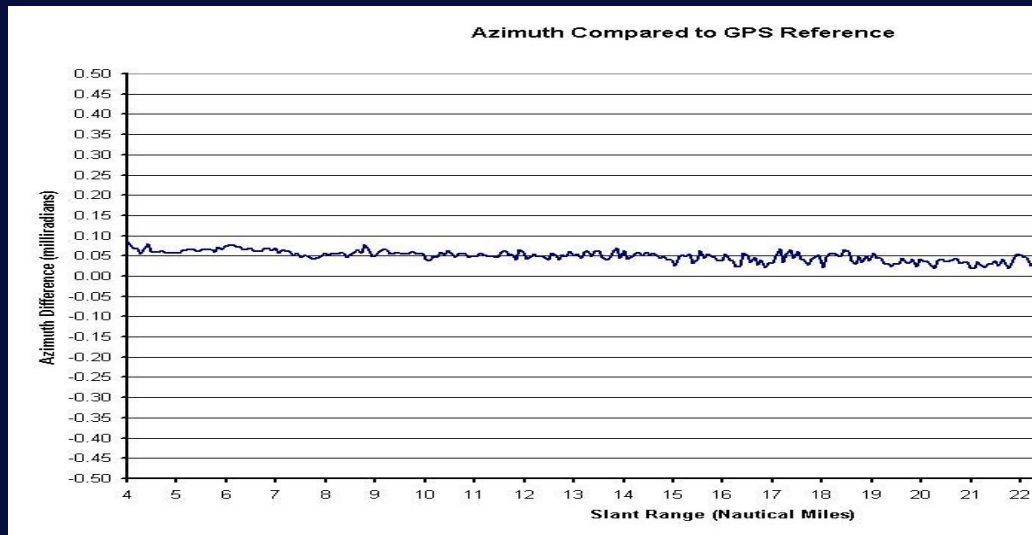
### VME LASER TRANSCIEVER PROCESSOR

Laser Processor provides all timing controls, processing and interfaces to control the laser transmitter, receiver, range and angle tracking.

- VME based Power PC CPU
- 4-Channel 246 MHz Digitizer Board
- GPS Time Code Generator
- SCRAMNet Interface
- Environmental enclosure



Typical LTS-2000 performance results, tracking a hemispherical retroreflector array mounted to a test aircraft. The charts plot the difference between the LTS-2000 derived position and an aircraft mounted GPS position solution, without residual track bias correction.



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**BAE SYSTEMS**