



Gun Laying and Positioning System - GLPS

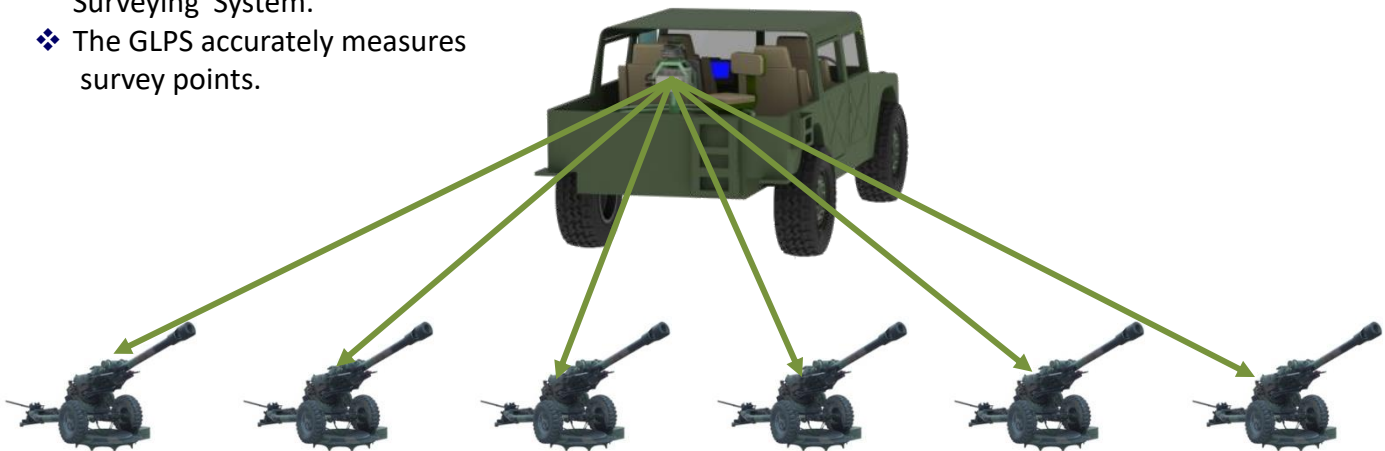
Astronautics GLPS Main Features

- The GLPS is based on Ring Laser Gyro (RLG) technology.
- Enables accurate gun laying (better than 1 mil).
- The GLPS azimuth accuracy is not influenced by magnetic interferences and/or by atmospheric interruptions.
- Reduces time to complete battery gun readiness
- Improves gun setting accuracy
- The GLPS includes a sophisticated navigation application with a digital map
- The GLPS can be mounted on any light vehicle or tripod.
- The GLPS application easily enables mission planning with a large number of routes. Each route can have a large number of waypoints



Astronautics GLPS Main Functions

- ❖ The GLPS replaces the traditional Battery Optical Director (currently based on a magnetic compass).
- ❖ The GLPS accurately measures the location of each one of the battery guns and provides accurate direction to the gun optical sight.
- ❖ The GLPS can be used as a Target Acquisition System by the Artillery Forward Observer as well as a Surveying System.
- ❖ The GLPS accurately measures survey points.



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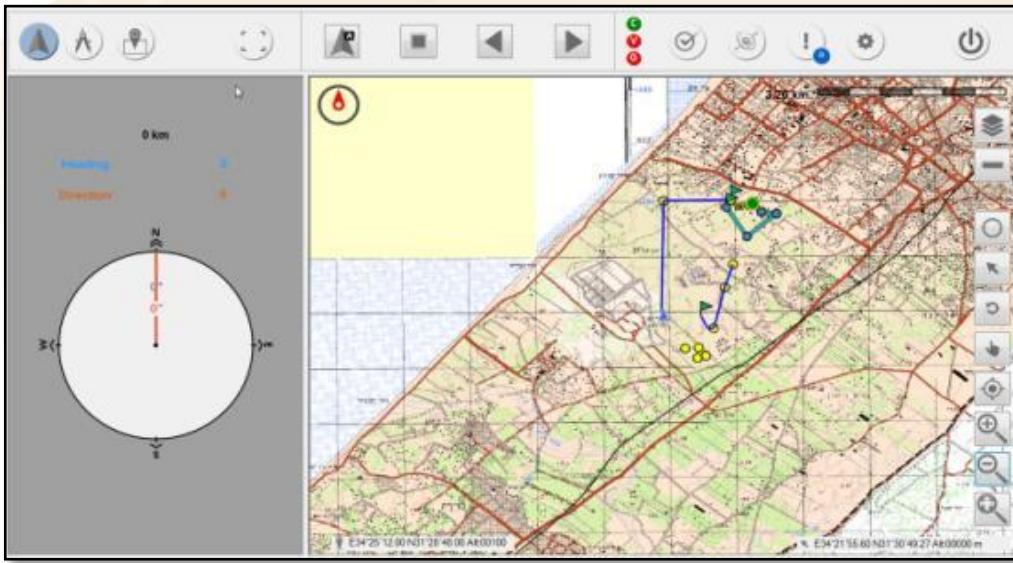
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Gun Laying and Positioning System - GLPS



VRU



CDU



Goniometer



VMS



LRF



PCU

MAIN COMPONENTS DESCRIPTION

• Vehicle Reference Unit (VRU)

The VRU is a fully integrated inertial navigation unit with an embedded GPS. The VRU provides continuous high precision output of position and attitude of the System.

• Control and Display Unit (CDU)

The CDU is the System Computer and the main Display. While on the move, as an option, the CDU can be installed in the vicinity of the vehicle commander to assist him in navigation, orientation, fixation of points of interest and more. All these with the aid of a moving map application (Digital Map). The system indicates on the Digital Map Display the exact course being followed by the vehicle at every instant and provides navigational data. In stationary mode, the CDU is mounted in the vicinity of the Goniometer, INS and the LRF.

• Vehicle Motion Sensor (VMS)

The VMS provides continuous independent measurement of wheel or track speed to the VRU during vehicle movement for optimal system performance.

• Laser Range Finder (LRF)

Optical device mounted on the Goniometer and optically collimated with the Goniometer

• Goniometer

The Goniometer is mounted on the VRU Mounting Tray and precisely collimated with the VRU and the LRF

• Power Control Unit (PCU)

Detachable Power Control Unit with backup batteries



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