SAMOS

Solar Azimuth Measurement and Orientation Sensor

SAMOS is an all mechanical SOLAR COMPASS module offered as an enhancement to Instro's Target Acquisition Systems.

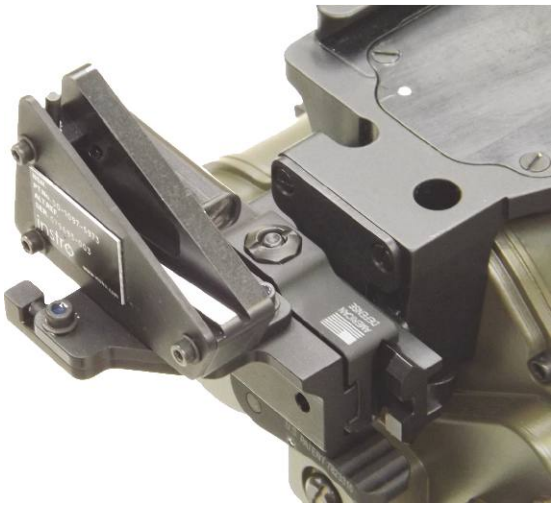
The versatile SAMOS module works in conjunction with Instro's targeting application software to establish an accurate Azimuth Reference using alignment to the sun.

During the day the user follows a simple procedure to align the solar compass module to the sun using a process of shadow alignment. Once aligned, the targeting application software determines an accurate Azimuth Reference based on the sun position, time and date.

Optimised for use by dismounted forces, the solar compass module is both lightweight and compact.

Proven principals and rugged construction ensures long service life and reliability in the field.

The solar compass module is a purely mechanical device requiring only the execution of simple procedures by the operator during deployment to provide an accurate azimuth heading relative to True North.



Main Advantages & Features

- Used in conjunction with Instro Target Acquisition Systems to establish accurate north reference
- Azimuth reference to within 0.28° (Sun elevations up to 60°)
- Simply software guided operation
- Rugged and reliable
- Mechanical, no additional cables or batteries required
- Compact size, light weight

Applications

- Dismounted targeting
- Forward Air Control
- Artillery fire control
- Mortar fire control
- Gun laying
- Special forces

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