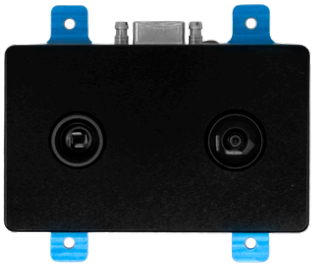
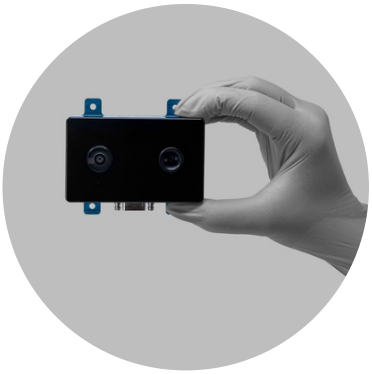
SOLARMEMS TECHNOLOGIES

STELION® NAVIGATION

PROTOTYPE
Engineering Model







Description

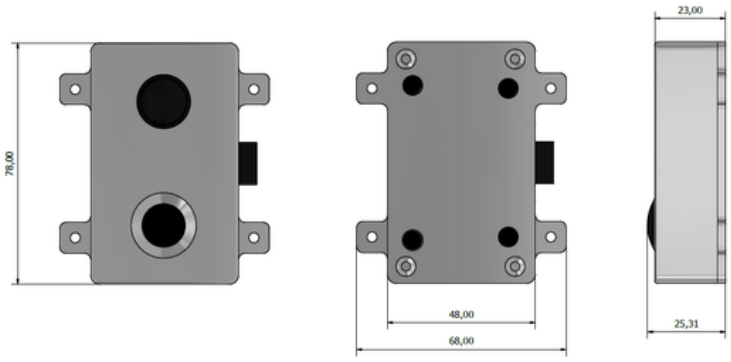
STELION-NAVIGATION is a cutting-edge optical sensor designed for autonomous, high-precision navigation support and orientation measurements during both day and night operations. Fully complimentary to GNSS/GPS, it enhances navigation accuracy by providing reliable heading and geolocation information that supports and improves conventional satellite-based positioning.

Its plug-and-play architecture enables rapid deployment and seamless integration into existing platforms, while its rugged design ensures resilience against electromagnetic interference and extreme environmental conditions. For defense clients, STELION-SNS offers key operational advantages: it provides precise and continuous heading information, delivers geo-position to supports autonomous navigation, and maintains reliable performance in challenging operational conditions.

Features

Operation	Day & Night Time
Accuracy	0.1º (heading) 4-5 km (daytime geolocation) 1-2 km (nighttime geolocation)
Field of view	170º Day / 40º Night
Type of camera	CMOS sensor
Acquisition Time	Up to 4Hz
Albedo / Straylight	Immune
Envelope volume	47 x 78 x 24 mm
Mounting holes	4 x M3
Mass	<170g
Power supply	5 VDC or 12 VDC Under request
Power consumption	≤ 3W
Communication interfaces	RS422 NMEA production units

Mechanical Interface



measuring scale: mm