



ADVANS LYRA

HIGH GRADE TACTICAL LAND NAVIGATION SYSTEM

ADVANS LYRA is a land navigation system which provides a continuous, instant-on tactical position of the vehicle, even when the GPS is jammed.

Maintenance-free, robust, it's a perfect solution to navigate in a critical situations as well as a stabilized reference and pointing system for any mobile weapon systems such as a 105mm battlefield gun.

FEATURES

- Accurate heading, roll & pitch outputs
- No mechanical nor dithering part
- Space-grade FOG technology
- Accurate horizontal position
- Fast on the move alignment

BENEFITS

- Efficient stabilization & control loop
- No maintenance required
- 30,000 hours MTBF
- Precise targeting operations
- Rapidly operational

APPLICATIONS • Reconnaissance vehicles • Infantry fighting vehicles
• Mortar and artillery systems • Main battle tanks • Ground based vehicles



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TECHNICAL SPECIFICATIONS

ADVANS LYRA is based on in-house Fiber-Optic Gyroscopes (FOGs) sensors developed and manufactured by IXSEA for decades to meet the most stringent requirements of demanding applications such as satellite control, marine and submarine vessels, land and aerial vehicles. ADVANS LYRA can use GPS and/or VMR (Vehicle Motion Sensor) measurements.

PERFORMANCES

Horizontal position INS VMS	0.3% DT CEP
Horizontal position INS VMS/GPS	<10 m (depends on GPS performances)
Vertical position INS VMS	0.2% DT PE
Vertical position INS VMS/GPS	<10 m (depends on GPS performances)
Heading accuracy	1 mils rms x secant lat
Roll & Pitch accuracy	0.2 mils rms
Set-up time static	< 5 min
Set-up time dynamic	< 10 min (with DGPS)

PHYSICAL CHARACTERISTICS

Size (L x W x H)	276 x 136 x 148 mm
Weight	4.5 Kg

INTERFACES

Power consumption (24VDC)	< 18 W no cooling required
Power input range	12 to 32 VDC
Input / output formats	RS232/422 Ethernet TCP/UDP GPS input NMEA
Update rate	Up to 200 Hz

ENVIRONMENTAL

MTBF	> 30,000 hours
Operation temperature range	-40°C to 60°C
Storage temperature range	-46°C to 80°C
Angular rates	> 200 °/s
Vibration	MIL STD 810
Shocks	30 g, 10 ms
Power input range	12 to 32 VDC
Orientation	Can be mounted in any orientation
Roll and pitch	No limitation
EMC	MIL STD 461

Specifications subject to change without notice