



ADVANS LYRA

ARTILLERY POINTING AND POSITIONING SYSTEMS

ADVANS LYRA is an inertial navigation system which provides a continuous, instant-on position and orientation for tactical vehicles, observation turrets, radars and missile alignment, mortars and artillery launchers. **ADVANS LYRA** is accurate (1 mil), robust to GPS drop out, maintenance-free and qualified for military environment including mortars and howitzers.

FEATURES

- Accurate positioning heading, roll and pitch
- Robust to GPS drop out
- Fiber-optic gyroscope (FOG) unique strap down technology
- No mechanical nor dithering part
- All military environment qualified

BENEFITS

- Precise navigation and targeting and search ad track
- Efficient stabilization and control loop
- No periodic maintenance
- High reliability
- Fast on-the-move alignment

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



ADVANS LYRA

TECHNICAL SPECIFICATIONS



PERFORMANCE

Horizontal position INS VMS	0.3% DT CEP
Horizontal position INS VMS/GPS	depends on GPS performances
Vertical position INS VMS	0.2% DT PE
Vertical position INS VMS/GPS	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	up 100,000 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