



# TMAPS

High Accuracy Land  
INS / GPS System





# TMAPS

## Ultra-Long Range Multi-Spectral Electro-Optic System

### GENERAL

IAI's TAMAM Division specializes in the development and production of inertial sensors and inertial navigation systems. TAMAM is one of the top worldwide inertial systems. Building on its heritage and experienced and ingenious engineers, TAMAM provides its customers with the most accurate, up-to-date and cost-effective inertial solutions. The TMAPS is a self-contained hybrid land navigation system (INS/GPS) which performs self-alignment and survey.

Thousands of systems have been fielded on platforms worldwide, including tanks, towed and self-propelled weapons, missile launchers, IFVs and high mobile radars. The TMAPS can be software tailored to suit different types of platforms, with specific interface requirements.

### FEATURES

- TAMAM's state-of-the-art ring laser gyros and accelerometers
- Proved record of accuracy, and availability in a variety of applications
- Features a proprietary inertial error corrections algorithm using internal or external GPS, odometer, and ZUPT updates
- Functions as an independent and very accurate North Finder
- Short alignment time
- High reliability MTBF
- Compliance with MIL-D-70789A, MIL-PRF-71185
- Optional interface with external GNSS and anti-jam solution
- The system can be supplied with a dedicated TAMAM display/user interface and Odometer

### SYSTEM CHARACTERISTICS

- Power per MIL-STD-1275 - 40 W max.
- Interfaces - FE, RS-422, RS-232
- Size - 296(L)x170(W)x158(H)mm
- Weight - 8.6 Kg
- Environmental - MIL-STD-810F, MIL-STD-461E qualified

### MODES OF OPERATION

- Align: Normal Align, Stored Heading, and Align on the move
- Navigation: INS/ODO, INS/ODO/GPS, INS only
- Laying

PARAMETER	TMAPS L	TMAPS M	TMAPS M+	TMAPS H
HEADING [RMS]	15 mrad	5 mrad	3 mrad	1 mrad
HORIZONTAL POSITION [CEP]	1.5 % DT	0.5 % DT	0.3 % DT	0.2 % DT
PITCH & ROLL [RMS]	<1 mrad	<0.5 mrad	<0.5 mrad	<0.5 mrad

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