



TRF-90

Small, Lightweight Inertial
Measurement Unit





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GENERAL

IAI's TAMAM Division, specializes in the development and manufacturing of inertial sensors and Inertial navigation systems. TAMAM is one of the world's leading inertial design and manufacturing centers. TAMAM is also considered a national center of excellence in its field. Building on its heritage, TAMAM provides its customers with the most accurate, up-to-date and cost effective inertial based PNT solutions. TRF is a Tactical grade small, lightweight, low power and low cost strap down Inertial Measurement Unit (IMU) product line, based on small size open loop Fiber Optics Gyro (FOG) technology for control, stabilization and guidance applications. TRF's is ideal for air, land and maritime applications, such as: guided weapons, unmanned air vehicles & target drones, optronic system stabilization and targeting, naval/air antenna stabilization, smart munitions and more. The TRF is ideal for high acceleration mission.

HIGHLIGHTS

- Small, lightweight, low power and low-cost IMU.
- Based on TAMAM state-of-the-art small size fiber optic gyro and accelerometer technologies.
- Most suitable for flight control, as well as for systems stabilization.
- GYRO not sensitive to linear acceleration.
- Proven record of accuracy and availability in a variety of systems with proven heritage.
- Highly reliable.
- ITAR free

PARAMETERS

GYRO Bias over all accuracy [1σ]	2 °/Hr to 5 °/Hr
Gyro Scale Factor Accuracy [1σ]	600 ppm to 750 ppm
Random walk [1σ]	0.07 °/√Hr
Acc. Bias Accuracy [max]	2 mg to 5 mg

CHARACTERISTICS

Weight	450 gr to 350 gr
Dimensions	Ø98mm x 61mm
Inertial technology	Fiber optics & torque to balance ACC
Interfaces	SDLC / UART RS485
Environmental conditions	MIL-STD-810F and MIL-STD-461E

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