

ER-FIMU-70 FOG IMU

Introduction:

ER-FIMU-70 FOG inertial measurement unit is specially developed for tactical system applications. The product consists of all solid-state three-axis fiber optic gyroscope, three-axis quartz flexible accelerometers, body structure, data interface board and other components.



Applications

Inertial navigation of surface-to-air missiles

Air-to-air missiles and navigation missiles

Space stabilization systems, mapping systems, attitude reference systems, motion compensation systems, imaging stabilization systems, flight control systems

Air combat maneuvering instruments

Navigation test equipment

Specifications

Gyroscope:

Measurement range: $\leq 500^\circ/\text{s}$

Factor scale nonlinear $\leq 300\text{ppm}$ (1σ)

Bias repeatability $\leq 0.1\text{-}0.5^\circ/\text{h}$ (1σ)

Bias stability $\leq 0.1^\circ\text{-}0.5^\circ/\text{h}$ (1σ)

Accelerometer:

Measurement range $\pm 50\text{ g}$

Factor scale nonlinear $\leq 300\text{ppm}$ (1σ)

Factor scale repeatability $\leq 5 \times 10^{-4}\text{ g}$ (1σ)

Dimensions: $200 \times 100 \times 90\text{ mm}$ (Customizable)

Weight: $1200\text{g} \pm 60\text{g}$

Power supply: 28V DC (Customizable)

Communication interface: RS-232 (Customizable)