HT-70 Fiber Optic Gyro

1. Product Characteristics

Small volume,light weight, high reliability,

quick start,

High shock and vibration survivability

2. Product Description.

HT-70 is a set of optical, mechanical, electrical integration of precision in the solid-state digital closed-loop single-axis fiber optic gyroscope based on the Sagnac (SAGNAC) principle, by the SLD light source, optical fiber coupler, a photodetector, integrated optics phase modulators, optical fiber sensing loop, the circuit structure and composition, followed the traditional fiber optic gyroscope classic design, the use of sophisticated manufacturing process FOG, set at home and abroad with the advantages of a fiber optic gyroscope, a small size and weight light, low power consumption, quick start, the interface is simple, easy to use and other advantages, is the control, the ideal choice for low-precision angular rate sensor, and can be widely used in navigation guidance and control fields.

3. Applications

photoelectric nacelle /air platform

SINS/INS

optical/photographic instrument

stabilized platform

Antenna Stable Platform

4. Specifications

Rate range	±400º/s（optical）
Bias stability	0.03 º/h～0.10º/h
Bias repeatability	0.03º/h
Threshold	≤0.1º/h
Scale Factor non-linearity (1σ	≤100ppm
scale factor asymmetry (1σ)	≤100ppm
Scale Factor stability (1σ)	≤100ppm
Angle random walk	≤0.005(º)/h½
power dissipation	≤4W
Bandwidth	≥500Hz
Readiness time	5s
Output mode	RS422
Operating Temp	-40℃～+60℃

vibration	6.06g(RMS)，20Hz～2000Hz
Shock	100g，6～8ms
Overall Dimensions	70×70×29mm³
weight	≤200g