HT-60-3 3-Axes Fiber Optic Gyro

➢ Product characteristics

3 axes close-loop fiber optic gyro

Small volume,light weight, high reliability,

low cost, quick start

➢ Product description

HT-60-3 is a small three-axis closed-loop fiber optic gyroscope integrated whole, was sensitive to the angular rate three orthogonal spatial directions, holistic seal design, small size, light weight, low cost, is FOG one of the development priorities, can be widely used in small empty bomb, unmanned aerial vehicles, depth charges and other military and civilian fields measuring pipe, oil drilling skewed, aviation instruments and other emergency, has great room for development and broad market prospects .

➢ Applications

- ✧ Seeker Control System
- ✧ coordinator control system
- ✧ photoelectric nacelle /air platform
- ✧ pipeline survey
- ✧ aircraft instrument

➢ Specifications

Rate range	-1500(º)/s～+1500(º)/s
Bias stability	1(º)/h～3 (º)/h
Bias repeatability	1(º)/h～3 (º)/h
Threshold	≤1(º)/h
Scale Factor non-linearity (1σ	≤100ppm
scale factor asymmetry (1σ)	≤100ppm

Scale Factor stability (1σ)	≤100ppm
Angle random walk	≤0.5(°)/h½
Power supply	±5V
Bandwidth	≥100Hz
Readiness time	5s
power dissipation	≤8W
Output mode	RS422
interface feature	9 PIN Micro rectangular connector （optional）
Operating Temp	-40℃～+60℃
vibration	6.06g(RMS)，20Hz～2000Hz
Overall Dimensions	Φ63×92 mm³
weight	≤420g

➢ Outline physical map

➢ Fiber Optic Gyro to use

A）electrical check

Gyroscope each new electrical connections, and deal with the gyro power supply for electrical inspection, to ensure the electrical and electrical point between the housing and

there is no short circuit, side Ketong electric.

B）gyroscope through electric

Gyroscope check the electrical connection before the electric connection is correct, you can power.

C）the angular motion information acquisition

In the normal operation of the gyroscope, the gyroscope output can be collected through the 422 serial port.

D）gyro power off

Once the gyroscope is completed, the power supply of the gyroscope can be shut down, and the power down to the next power down time should be at least 3min or more.

➢ Maintenance requirements

A）The gyroscope is a precision optical device, which should be packaged by a special packing box with vibration isolation function;

B）gyroscope in the process of transportation and use, especially in gyro installation should be gently, is strictly prohibited throw, collisions, such as the impact of strenuous exercise;

C）users without the consent of the manufacturer shall not open the gyro shell or remove the gyro.

➢ Fiber Optic Gyro store

When the gyro is not installed in the vehicle should be loaded into the storage box. Gyroscope storage conditions should be met:

A) Temperature: 5 ℃ ~ 40 ℃;

B）Relative humidity: less than 80%;

C）Non-corrosive substances within the storage site, no strong magnetic field;

D）Fiber optic gyro not recommended for use stored in a sealed container placed d esiccant;

E）Shelf life: 20-year storage period under the conditions described above.