

## HT-120 Fiber Optic Gyro

### 1. Product Characteristics

high accuracy, high reliability,

High shock and vibration survivability

### 2. Product Description

HT-120 is a set of optical, mechanical, electrical integration of solid-state high-precision single-axis fiber optic gyroscope based on the Sagnac (SAGNAC) principle, the erbium-doped fiber 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 FOG manufacturing process, with high accuracy, high reliability, low power consumption, fast start, interface is simple, easy to use and other advantages, is the control, ideal for high-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

navigator

North Finder

#### 4. Specifications

Rate range	-500°/s~+500°/s (optical)
Bias stability	≤0.002°/h
Bias repeatability	≤0.001°/h
Scale Factor non-linearity (1σ)	≤10ppm
scale factor asymmetry (1σ)	≤10ppm
Scale Factor stability (1σ)	≤10ppm
power dissipation	≤5W
Bandwidth	≥500Hz
Operating Temp	-40℃~+60℃
Overall Dimensions	120×120×39mm <sup>3</sup>
weight	≤900g

