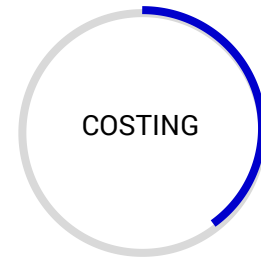
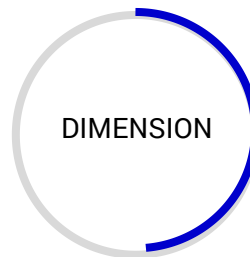
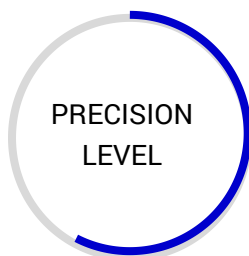




SNF-070 TACTICAL GRADE FIBER OPTIC GYROSCOPE

SINGLE AXIS | DIGITAL OUTPUT

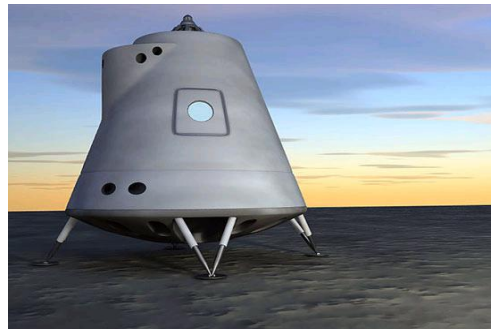


SNF-070 is a miniaturized single axis closed loop fiber optic gyroscope. Based on the past mature product design, many optimizations work for engineering production are carried out, which is good for mass production and high-cost performance.

SNF-070 FOG has many outstanding features, such as small volume, lightweight, low power consumption, fast starting, simple interface and easy to use. It is an ideal choice for precision angular rate sensor in navigation and control field. Widely used in various inertial measurement and control fields.

Application field:

- Photoelectric pod / flight control platform
- Inertial measurement unit
- Surveying and mapping, track inertial traverse detection
- Platform stabilizer



Features:

- High engineering degree, high performance to price ratio
- Solid state design, strong environmental adaptability
- Ultra long life, high reliability, MTBF>20000h
- Single Power supply (+5V), simplifies system Design
- Full digital RS-422 electrical interface output

1. Specifications:

Table 1 SNF-070 Main performance index

SN#	Technical index	Parameters	Test required
1	Bias stability (°/h)	≤0.3	2h test result, 10s flatness result
2	Bias repeatability (°/h)	≤0.3	6times average in two hours
3	Full temperature stability (°/h)	≤1	-40℃ ~ +60℃, after modified by software
4	Maximum angular rate (°/s)	≥300	
5	Scale factor nonlinearity ppm (room temperature)	≤100	
6	Scale factor repeatability ppm (room temperature)	≤100	
7	Bias drift in vibration process (°/h)	≤0.3	4.2g, 20Hz~2000Hz
8	Bias repeatability in fix temperature (°/h)	≤0.3	
9	Stabilization time (min)	≤5	-40℃ ~ +60℃
10	Input pulse for control signal output	400Hz	
11	Use cable for output	200mm	Different color

Table 2 SNF-070 size and weight

1	Dimension	70mm×70mm×32mm
2	Weight	≤290g
3	Install size	58mm×58mm
4	Screw size	M4

Table 3 SNF-070 power required

1	+5V power	5W	Maximum value 2A
2	-5V power	3W	
3	Accuracy	±5%	
4	Vpp value	20mV	Vpp
5	FOG room temperature power	< 4W	
6	FOG full temperature power	< 5W	-40℃ ~ +60℃

2. Dimension:

