



## Fiber Optic Gyroscope FOG Strapdown Inertial Navigation System

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JIOPTICS installation of fiber optic gyroscope to provide ease of integration flexibility, and our developers toolkit to rapid prototyping, not only meet the specification requirements, also provide high-quality performance meet the demand of end users.

### Our services

JIOPTICS is a professional and efficient team. Provide OEM/ODM services for you, contact us to customize your exclusive fiber optical gyroscope

### Product Features

Cost-effective fiber optic gyro and quartz accelerometer  
Optional static or moving base self-alignment

Error parameters calibration and compensation in full temperature range  
Optional diverse input interfaces for GNSS/Odometer/DVL  
Optional navigation modes  
Excellent environmental suitability  
Military standards

## Applications

Navigation and control for land vehicle  
Antenna stabilization and control  
UAV navigation  
Attitude and heading reference

## Specification

Performances	Start - Up Time	5min
	Attitude Accuracy	0.05deg, 1 $\sigma$
	Heading Accuracy	0.5 $\times$ sec(Lat) deg, 1 $\sigma$
Input Ranges	Angular Rate	$\pm$ 400deg/s
	Acceleration	$\pm$ 20g
Work Environment	Work Temperature	- 10 $^{\circ}$ C $\sim$ +55 $^{\circ}$ C
	Storage Temperature	55 $^{\circ}$ C $\sim$ +85 $^{\circ}$ C
	Vibration	0.04g <sup>2</sup> /hz @ 20~2000hz
	Shock work / no damage	30g @ 6ms/50g @ 11ms
Electrical Characteristics	Work Voltage	28VDC
	Consumption	$\leq$ 20W
	Communication	RS422/RS232/CAN/Ethernet
Physical Characteristics	Size (W x D x H)	140 x 100 x 82 mm
	Weight	$\leq$ 2.5kg