JIOPTICS

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Fiber Optic Gyroscope High Precision FOG

JIO-FOGD120 model inertial navigation device is a cost-effective inertial navigation and measurement product used to measure the position,velocity,attitude,angular rate and acceleration of the carrier.The device is developed using high-accuracy fiber optic gyro and quartz accelerometer,and its performance is guaranteed by high accuracy calibration and compensation of the system.The device is designed according to military standards,and the electromagnetic shielding,thermo-balance,and sealing are fully considered to guarantee excellent environmental performances. Welcome to buy Fiber Optic Gyroscope High Precision FOG from us.

Fiber Optic Gyroscope High Precision FOG Introduction

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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

Features

High-accuracy fiber optic gyro and quartz accelerometer
Optional static or moving base self-alignment

Tel:+86-13570832601 **Email:**sales@jioptics.com

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

Applications

Sea vehicle navigation
Under-water vehicle navigation and positioning
Positioning and north-finding for land vehicle
Stabilization and control for moving carrier
Attitude measurement for demanding applications

Specification

Performances	Start - Up Time	5min(Land)/1h(Sea)
	Inertial Position	1nm/8h, CEP 50
	Inertial Velocity	0.5m/s, 1σ
	Inertial Attitude	0.01deg, 1σ
	Inertial Heading	0.025×sec(Lat) deg, 1σ
	Heave	2.5cm or 2.5%
Input Ranges	Angular Rate	±400deg/s
	Acceleration	±15g
Work Environment	Work Temperature	- 10℃~+55℃
	Storage Temperature	- 55℃~+85℃
	Vibration	0.04g2 /hz @ 20~2000hz
	Shock work / no damage	30g @ 6ms/50g @ 11ms
Electrical Characteristics	Work Voltage	18~36VDC
	Consumption	≤24W
	Communication	RS422/RS232/CAN/Ethernet
Physical Characteristics	Size（W x D x H）	257×199×162 mm
	Weight	≤8.5kg

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