

## FG-980S Inertial Navigation System



### Overview

FG-980S inertial navigation system, in which the GNSS receiver embedded, adopts three high accuracy single-axis closed-loop miniature FOGs and quartz accelerometers. This system possesses the main features of very small size, light weight and lower power consumption, etc. It can be used as navigation system or information source for UAVs, helicopter, general aviation aircraft, etc.

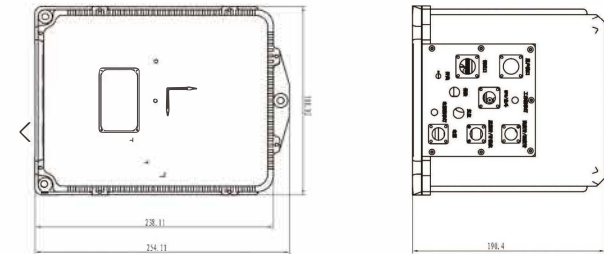
### Features

- Provide self-contained, abundant, continuous and accurate navigation information
- Small size, light weight and low power consumption
- Embedded satellite navigation technology

### Application

UAVS, helicopter, general aviation aircraft, etc.

### Structural Dimension



### Specifications

Alignment Time		GC: 10 min
		Fast: 5 min
Accuracy	Position	Inertial: 1 nm/h Integrated: 20 m
	Velocity	Inertial: 1 m/s Integrated: 0.8 m/s
	Attitude	Inertial: 0.02° Integrated: 0.01°
	Heading	Inertial: 0.1° Integrated: 0.08°
Dynamic Range	Angular Rate	±400°/s
	Acceleration	±15g
Operation Requirement	Temperature	Work: -45~+70°C Storage: -55~+85°C
	Shock	Half-sinusoid: 15g, 11ms
	Vibration	0.04g <sup>2</sup> /Hz
MTBF		50000h
Power Supply/Consumption		28VDC/30W
Interface		MIL-STD-1553B/ARINC-429/RS-422
Dimension		Navigation unit: 238mm×188mm×190mm
		MAX size: 254mm x 188mm x 190mm
Weight		7.1kg(excluding receiving antenna)