

NF3000: HIGH PRECISION FOG NORTH SEEKER SENSOR



■ PRODUCT DESCRIPTION

NF3000 series is based on high-precision fiber optic gyroscope and quartz accelerometer as core components, mainly composed of inertial measurement unit, data acquisition and processing unit, precision indexing mechanism, and control display unit. At the same time, according to the usage characteristics, GPS/GNSS/BD receiver, odometer sensor, altimeter, star sensor and other components can be added to provide the azimuth angle between the carrier and true north, as well as the motion attitude, velocity and position information of the carrier.

■ PRODUCT MAIN SPECIFICATION

1	Parameter	NF3000-A	NF3000-B	NF3000-C
2	External dimensions	248×248×180mm (can be customized)		
3	weight	20Kg	18Kg	15Kg
4	Power supply	AC220V,50Hz/ AC110V,60Hz/ DC18V~36V		
5	power waste	≤50W		
6	Start time	3min		
7	Working latitude	-70°~+70°		
8	North finding accuracy	0.02°secψ	0.06°secψ	0.1°secψ
9	North search time	5min	5min	3min
10	Roll and pitch accuracy	0.02°	0.06°	0.1°
11	Range of heading angle measurement	0°~360°		
12	Measurement range of roll angle and pitch	-65°~+65°		
13	Position accuracy	0.8nmi/h	1.2nmi/h	1.5nmi/h
14	Display mode	LCD display screen, capable of providing attitude angle and position		
15	Output method	RS422 (customizable according to user needs)		
16	working temperature	-40°C~+60°C		
17	vibration environment	20Hz~2000Hz, 6.06g		
18	parameter	8ms~11ms, 30g		

■ PRODUCT APPLICATION

- Missile launch, weapon targeting
- dynamic and static initial alignment and direction control of objects such as radar, antennas, vehicles