

## ER-POS-01 High Precision Land Positioning and Orientation System

### Introduction

ER-POS-01 Series High Precision Land Positioning and Orientation System is based on high precision fiber optic gyroscope and quartz accelerometer as the core components, also composed of inertial measurement unit, data acquisition and processing unit, and control display unit. At the same time, according to the application characteristics, it can integrate GPS/GNSS/BD receivers, odometer sensors, altimeters, star sensors and so on. It can provide the information of heading, attitude, speed and position information of the carrier. The product can be widely used for dynamic/static initial alignment, positioning, navigation of missile launch vehicle, armored vehicle, tank, surface ship, merchant vessel etc.

### Specifications

Parameters	ER-POS-01A	ER-POS-01B	ER-POS-01C
Outline dimension (mm)	248×248×180	248×248×180	248×248×180
Weight (Kg)	20Kg	18Kg	15Kg
Power supply	AC220V, 50Hz/AC110V, 60Hz/DC18V~36V		
Power consumption	≤50W	≤50W	≤50W
Start time	3min	3min	3min
Latitude	-70°~+70°	-70°~+70°	-70°~+70°
North seeking precision	0.02°sec $\psi$	0.06°sec $\psi$	0.1°sec $\psi$
North seeking time	5min	5min	3min
Roll pitch accuracy	0.02°	0.06°	0.1°
Heading measurement range	0°~360°	0°~360°	0°~360°
Roll pitch measurement range	-65°~+65°	-65°~+65°	-65°~+65°
Positional accuracy	0.8nm/h	1.2nm/h	1.5nm/h

Output mode	RS422	RS422	RS422
Working temperature	-40℃~+60℃	-40℃~+60℃	-40℃~+60℃
Vibration environment	20Hz~2000Hz,6.06g	20Hz~2000Hz,6.06g	20Hz~2000Hz,6.06g
Impact environment	8ms~11ms,30g	8ms~11ms,30g	8ms~11ms,30g