

POSITION AND ATTITUDE MEASUREMENT SYSTEM

BEIJING AUTOMATION CONTROL EQUIPMENT INSTITUTE



• POSAF 30



• POSAF 50

Overview of product

Since 2009, the institute has developed position and attitude measurement system. Currently, multiple types of products have been successfully developed so that it provides user with a whole set of solutions in mapping field. The product can provide various observing payloads with real-time/post-processing high-accuracy position, speed, attitude and time scale information so as to be widely used in fields like aerial mapping and land-based moving measurement.

Technical characteristics

Small volume, light mass, low consumption, and easy operation. It can realize time synchronization in microsecond (μs) level. The mass-capacity high-speed data storage chip is set internally to facilitate post-processing.

Field of application

Mapping field relating to sea, land and air.

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TYPE	POSAF 30		POSAF 50	
Absolute Accuracy Specification(RMS)				
	SPS	Post-Processing	SPS	Post-Processing
Position (m,RMS)	1.5-3	0.05-0.3	1.5-3	0.05-0.3
Velocity (m/s,RMS)	0.05	0.01	0.05	0.005
Roll&Pitch (deg,RMS)	0.03	0.015	0.008	0.005
True Heading (deg,RMS)	0.1	0.035	0.07	0.008
Relative Accuracy				
Noise(deg/sqrt(hr))	0.05		0.002	
Drift(deg/hr)	0.5		0.03	
Inertial Measurement Unit(IMU)				
Dimensions(L×W×H,mm)	150×145×37		187.5×169×157.5	
Weight(kg)	3		5.5	
Power	(24 to 32)VDC,20W		(24 to 32)VDC,25W	
Temperature[°C]	-40 to +60		-40 to +60	
Altitude	0 to 7,620m		0 to 7,620m	
GNSS				
Option	OEM615		OEM617	
Signal	GPS:L1,L2,L2C GLONASS:L1,L2,L2C BD:B1 Galileo:E1 SBAS(GPS-only)		GPS:L1,L2,L2C GLONASS:L1,L2,L2C BD:B1, B2 Galileo:E1,E5B SBAS(GPS-only)	
Data Rate				
Data rate(Hz)	200		200	

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