BP-III SURVEYING AND MAPPING FIBER-OPTIC INERTIAL NAVIGATION SYSTEM



Product introduction

BP-III(SAM003) is equipped with medium and high precision fiber optic gyroscope, quartz accelerometer and multi-mode satellite navigation receiver. GNSS dual antenna real-time positioning and heading technology, autonomous seeking north technology, inertial navigation technology, integrated navigation technology, can output high-precision position, speed, heading, attitude, angular velocity, acceleration, time and other information.

Product features

Quickly north seeking
Precise time synchronization
Low latency

Application field

Autonomous navigation of various carriers; multi-beam hydrological measurement applications, ocean mapping.

Parameters

• Falameters		
System accuracy	Heading accuracy	≤0.01°secφ(RMS,pure INS)
	Attitude accuracy	≤0.01°(RMS)
	Positioning accuracy	DVL: 1‰D (CEP50)
		Pure INS: 0.6nm/hour[CEP50]
	Heave	≤2.5cm or 2.5%H (Whichever is bigger)
Interface features	Output interface	2 x RS422 serial output
	The data of frequency	Output frequency200Hz (configurable)
	The output protocol	NMEA0183、Binary, ASCII (custom)
	Baud rate	4800bauds~921600bauds
	The input interface	Support DVL、GPS、GNSS
Physical features	Input voltage	(DC) 12~32V、24V±10% (Rated)
	Dimensions	180mm×160mm×135mm (X, Y, Z)
	Power consumption	≤20W
	Weight	≤5 kg
Time	Setting time	≤10min
Environment	Operation temperature	-20℃~+60℃
	Storage temperature	-40℃~+70℃