

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



Product introduction

BP-II(SAM002) 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

System accuracy	Heading accuracy	≤0.1°secφ (RMS,pure INS)
	Attitude accuracy	≤0.05°secφ (RMS) GPS/GNSS
	Heave	≤0.01° (RMS, Dynamic)
Interface features	Output interface	2 x RS422 serial output
	The data of frequency	Output frequency 200Hz (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
	Operation temperature	-20°C~+60°C
Environment	Storage temperature	-40°C~+70°C