

NAVS-P600K-3000M

Underwater Navigation Position System



Technical Specifications

Item	NAVS-P600K-3000M-STD (License-free)	NAVS-P600K-3000M-PRO (License-Required)
System Accuracy		
Alignment Time	Static ≤5 min; Dynamic ≤15 min	
Heading Accuracy (RMS)	2°secL (Pure-inertial static alignment);	<0.15°secL (Pure-inertial static alignment);
	2.5°secL (Pure-inertial, Sea State 1);	<0.25°secL (Pure-inertial, Sea State 1);
	3°secL (Pure-inertial, Sea State 3)	<0.4°secL (Pure-inertial, Sea State 3)
Roll & Pitch Accuracy	0.6°	<0.02°
Position Accuracy	GNSS aided: <2 m; INS/DVL (speed ≤15 knots): 1% D;	GNSS aided: <1m;
		INS/DVL (speed ≤15 knots): ≤0.5% D
		(straight-line), ≤0.3% (typical);
		INS (15-30 knots, surface-only option): <1% D;
		INS (30-70 knots, surface-only option): <3% D
Rotation Dynamic Range	Heading: 0-360°; Roll: ±180°; Pitch: ±90°	
Doppler Velocity Log (DVL)		
Max Bottom-Track Altitude	110 m (typical; Not applicable in silty or weed-infested waters)	
Min Bottom-Track Altitude	1 m	
Velocity Measurement Range	±7.5 m/s	
Long-term Accuracy	±1% ±1 cm/s	±0.2% ±0.2cm/s
Accelerometer		
Measurement Range	±10 g	
Gyroscope		
Measurement Range	±200°/s (±300°/s available upon custom request)	
Physical Attributes		
Dimension	Φ180 mm×233 mm (excluding connector)	
Weight	<8kg (in air, excluding package and cable)	
Operating Temperature	-5℃ ~ +60℃	
Storage Temperature	-50℃ ~ +70℃	
Depth Rating	3000m	
Interface & Electrical Parameters		
Data Output Rate	1-200 Hz, configurable	
Serial Interface	RS422 or RS232	
Baud Rate	230400 (Adjustable)	
Input Power	18-30 VDC	
Power Consumption	<10 W	

Note: STD version is License-free. Pro versions are License-Required. The table is for internal reference only. Final export compliance shall be subject to official verification by competent authorities.

Dimensions&Connector

