

可靠的轨迹测量 各种应用条件

Navsight地面/空中解决方案是一个非常通用的解决方案。它由一个惯性测量单元组成，该惯性测量单元有三种不同的性能等级，可以连接Navsight / 一个嵌入融合智能技术的坚固设备、GNSS接收机，及外部设备（如激光雷达、照相机、计算机等）。

Navsight处理单元 —— 数据融合及GNSS



Navsight Processing Unit with embedded GPS/GNSS

- » Tri-frequency receiver
- » Multi-constellations
- » RTK
- » PPP ready
- » Internal logger for Post-processing
- » One or two antennas

Navsight can also be used with your own GNSS receiver

惯性测量单元 (IMU) —— 不同精度水平



Ekinox IMU
Compact & Economical



Apogee IMU
Good Perf/Price Ratio



Horizon IMU
High Accuracy FOG IMU

	Ekinox IMU Compact & Economical	Apogee IMU Good Perf/Price Ratio	Horizon IMU High Accuracy FOG IMU
Roll/Pitch	0.015°	0.005°	0.004°
Heading Land Single Antenna	0.03°	0.02°	0.008°
Heading Air Single Dual antenna	0.1° 0.03°	0.04° 0.025°	0.008°
Position Horizontal	1cm+1ppm	1cm+1ppm	1cm+1ppm

Post-processing Accuracy



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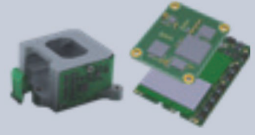
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除非特别指定，所有参数都适用于-20~60℃温度范围。

完整的指标可以在Navsight的用户操作手册中找到。

1、选择您的IMU

IMU	 Ekinox-I Surface	 Apogee-I Surface	 Horizon-I Surface Enclosure	 OEM Version Available
size	86 x 100 x 58 mm	130 x 100 x 58 mm	150 x 168 x 215 mm	
Weight	425 g	635 g	4.29 kg	
Rating	IP68	IP68	IP68	

EKINOX

	Single Point	RTK	PPK	Land RTK Outage (60 s)	PPK Outage (60 s)
Roll, Pitch	0.03 °	0.02 °	0.015 °	0.1 °	0.03 °
Heading (Land)	0.08 °	0.05 °	0.03 °	0.2 °	0.05 °
Heading (Air) Single Dual antenna	0.3 ° / 0.05 ° *	0.2 ° / 0.05 ° *	0.1 ° / 0.03 °	-	-
Position Horizontal	1.2m	1 cm + 1 ppm	1 cm + 1 ppm	3 m	0.4 m

APOGEE

	Single Point	RTK	PPK	Land RTK Outage (60 s)	PPK Outage (60 s)
Roll, Pitch	0.01 °	0.01 °	0.005 °	0.012 °	0.008 °
Heading (Land)	0.04 °	0.04 °	0.02 °	0.06 °	0.025 °
Heading (Air) Single Dual antenna	0.15 ° / 0.025 ° *	0.1 ° / 0.025 ° *	0.04 ° / 0.02 °	-	-
Position Horizontal	1.0 m	1 cm + 1 ppm	1 cm + 1 ppm	0.5 m	0.1 m

HORIZON

	Single Point	RTK	PPK	Land RTK Outage (60 s)	PPK Outage (60 s)
Roll, Pitch	0.007 °	0.007 °	0.004 °	0.01 °	0.005 °
Heading (Land)	0.01 °	0.01 °	0.008 °	0.015 °	0.01 °
Heading (Air) Single Dual antenna	0.04 ° / 0.01 ° *	0.04 ° / 0.01 ° *	0.008 °	-	-
Position Horizontal	1.2 m	1 cm + 1 ppm	1 cm + 1 ppm	0.30 m	0.05 m

* 4m baseline

2、选择你的处理单元功能

☒ 支持外部GNSS接收机

接口

Aiding Sensors (input)	2X GNSS, RTCM
Protocols	Output: NMEA, ASCII, Binary, TSS, Simrad Input: NMEA, Trimble, Novatel, Septentrio, Hemisphere, Veripos, Fugro, PDO, PD6
Logging Capacity	8 GB ≈ 48h, 200 Hz
Ports/Communication	5x RS-232/RS-422 Tx/Rx ports
Synchronization	2x Sync Out (PPS) + 5x Sync In signals
Ethernet	5 virtual serial ports 5x UDP / TCP bidirectional ports Web interface, FTP

☒ 内部集成GNSS接收机

Constellations	Positioning	PPP Ready, choose:
☒ GPS & Glonass	☒ L1/L2/L5	☐ Omnistar
☒ Galileo	☐ RTK	☐ Secorx Terrastar
☒ Beidou		☒ Included

Navsight物理及环境参数

Size	233 x 156 x 63 mm
Weight	1.9 kg
Wide input voltage range (isolated)	9 - 36V
EN-60945 compliant	Isolated Interfaces and power supply
Power consumption	<3 W, <7W with GNSS
Operating Temperature	-40 to 75°C
MTBF	50,000 hours