

V200 Static Only

GNSS Static System



IP68

TECHNICAL SPECIFICATIONS

GNSS Feature	Specification	
GNSS Signal^①	Channels	1408
	GPS	L1C(A) / L1C / L2P(Y) / L2C / L5
	BDS	B1I / B2I / B3I / B1C / B2a / B2b
	GLONASS	L1 / L2 / L3*
	Galileo	E1 / E5A / E5B / E6
	QZSS	L1 / L2 / L5 / L6*
	IRNSS	L5
	SBAS	L1 / L2 / L5
Positioning Performance	High-precision static GNSS Surveying	Horizontal: 2.5mm + 0.1ppm RMS Vertical: 3.5mm + 0.4ppm RMS
	Static and Fast Static	Horizontal: 2.5mm + 0.5ppm RMS Vertical: 5mm + 0.5ppm RMS
	Post Processing Kinematic (PPK / Stop & Go)	Horizontal: 8mm + 1ppm RMS Vertical: 15mm + 1ppm RMS Initialization time: Typically 10 min for base and 5 min for rover Initialization reliability: Typically>99.9%
	Code Differential GNSS Positioning	Horizontal: ±0.25m+1ppm RMS Vertical: ±0.5m+1ppm RMS SBAS: 0.5m(H), 0.85m(V)
	Time to first Fix	Cold start: < 45 s Hot start: < 30 s Signal re-acquisition: < 2 s
	Hi-Fix ^②	Horizontal: RTK+10mm / minute RMS Vertical: RTK+20mm / minute RMS Additional horizontal pole-tilt uncertainty typically less than 8 mm +0.7 mm / °tilt (2.5cm accuracy in the inclination of 60°)
	Tilt Survey Performance	
Physical	Internal battery ^③	Internal 7.2V / 6900mAh lithium-ion rechargeable battery Charging: using standard smartphone chargers or external power banks.
	External power	Weight: ≤0.669kg (includes battery) Dimensions (W×H): 132mm×67mm Data storage: 8GB ROM internal storage
Control Panel	LED Lamp	Satellite, Signal, Power
	Physical button	1
Environment	Water / Dustproof	IP68
	Shock and vibration	Designed to survive a 2m natural fall onto concrete
	Humidity	100%, condensing
	Operation temperature	-45°C~+75°C
	Storage temperature	-55°C~+85°C
I / O Interface	1 × USB port, Type C	
	1 × SMA antenna connector	
Data Formats	Output rate	1Hz-20Hz.
	Static data format	GNS, Rinex
	Navigation outputs ASCII	NMEA-0183

*Description and Specifications are subject to change without notice.

1.Compliant, but subject to availability of IRNSS and Galileo commercial service definition. GLONASS L3, QZSS L6 can be provided by firmware upgrade.

2.Accuracies are dependent on GNSS satellite availability. Hi-Fix positioning ends after 5 minutes of radio downtime. Hi-Fix is not available in all regions, check with your local sales representative for more information.

3.The battery operating time is related to the operating environment, operating temperature and battery life.



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