

Absolutely Precise



KRYPTTON GNSS Receiver

with Calibration-Free Tilt Compensation



The Kryptton GNSS Receiver is a new generation GNSS RTK system. It supports calibration-free tilt compensation function, which is immune to magnetic disturbances, leveling pole is not required. Easy configuration with 1.54inch interactive screen on Ultimate and Advanced versions. With an internal high-performance multi-constellation and multi-frequency GNSS board, the Kryptton GNSS Receiver can provide high accuracy and stable signal detection.

The high-performance antenna can speed up the time to first fix (TTFF) and improve anti-jamming performance. The built-in large capacity battery is detachable, two batteries support up to 16 hours in 4G/3G/2G Network and Rover Radio mode. The built-in UHF radio module supports long distance communication. The rugged housing protects the equipment from harsh environments.



Key Features



Supports multiple constellations & frequencies: GPS, GLONASS, BeiDou, Galileo, SBAS, QZSS, GAGAN



Supports 576 channels



410-470MHz UHF radio, 4G network, Wi-Fi, Bluetooth, NFC



Tilt compensation without calibration, immune to magnetic disturbances



Various working modes



16GB/8GB internal storage



Up to 16 hours working in 4G/3G/2G network and Rover radio mode



IP67-rated dust- & waterproof enclosure, for

Kryptton

GNSS RTK Receiver with Calibration-Free Tilt Compensation

Performance

Signal tracking:

GPS L1, L2, L5; GLONASS L1, L2; BeiDou B1, B2, B3; Galileo E1, E5a, E5b; QZSS L1, L2, L5;

SBAS (EGNOS, WAAS, MSAS, GAGAN) L1C/A

JDAJ (EGINOS, WAAS, IVISA	S, GAGAIN, LIC/A	
Channels:	576	
High-Precision Static (RMS):		
Horizontal:	3mm+0.1ppm	
– Vertical:	3.5mm+0.4ppm	
Static & Fast Static (RMS):		
– Horizontal:	3mm+0.5ppm	
– Vertical:	5mm+0.5ppm	
Post Processed Kinematic (RMS):		
– Horizontal:	8mm+1ppm	
– Vertical:	15mm+1ppm	
Real Time Kinematic (RMS):		
– Horizontal:	8mm+1ppm	
– Vertical:	15mm+1ppm	
Network Real Time Kinematic (RMS):		
– Horizontal:	8mm+0.5ppm	
– Vertical:	15mm+0.5ppm	
Initialization (typical):	<10s	
Initialization Reliability:	>99.9%	
Tilt Compensation Accuracy (within	30°) ≤2cm ⁽²⁾	

System & Data

Operating system:	Linux
Storage:	built-in 16GB/8GB (2)
Data format:	CMR, CMR+, RTCM2.X/3.X
<u>Bata formati</u>	Civili, Civilia, Kileinizia, Six
Data output:	RINEX, NMEA-0183, Binary
Data Output.	KINEX, MINEA 0103, Billary

Software Support

Kryptton Nuwa

MicroSurvey FieldGenius

Communication

Cellular:	4G LTE/TD-SCDMA/WCDMA/GPRS/GSM				
Network pr Ntrip Clie	otocols: nt, Ntrip Ser	ver, Caster	Service		
					10

Wi-Fi:	802.11b/g ⁽³⁾
Bluetooth:	4.1
USB OTG:	USB 2.0 x1
Serial ports	RS232 x1
Internal radio:	
- Power	0.5W/1W/2W
- Frequency	410MHz ~ 470MHz
Distance (Typical):	>5km
Radio protocols:	TrimTalk450, TrimMark 3, South, Transparent, Satel

Electrical

Input voltage:	9~28V DC
Power consumption (typical):	
Network or Radio receiving mode:	≈ 5W
Radio transmiting mode (0.5W):	≈ 8W
Radio transmiting mode (1W):	≈ 9W
Radio transmiting mode (2W):	≈ 11W

Lithium battery: 6400mAh 7.4V x2 (1)

Physical

Display:	1.54'' OLED (2)
Dimension:	157x157x103mm
Weight:	≈ 1.2kg (without battery) ≈ 1.4kg (with a battery)
Operating temperature:	-40°C ~ +75°C
Storage temperature:	-55°C ~ +85°C
Relative humidity:	100% not condensed
Dust- & Waterproof:	IP67
Pole drop onto concrete:	2m

Note: (1) One battery is used in Kryptton, the other is for backup. Two batteries last up to 16 hours when Kryptton works as Rover.

- (2) Details refer to performance comparison table.
- (3) Hardware of Wi-Fi module is ready, the function will be supported by firmware update.

Version Comparison

The Kryptton GNSS Receiver has three versions: Ultimate, Advanced, and Basic. It provides selectivity for the requirement from different users.

Version	Display	LED Indicators	Tilt Compensation (IMU)	Memory	Common Specifications
	1.54" OLED	Satellite, Tilt, Correction Data, Power	~	16GB	• 576 Channels • GPS L1, L2, L5; GLONASS L1, L2; BeiDou B1, B2, B3; Galileo E1, E5a, E5b; QZSS L1, L2, L5; SBAS (EGNOS, WAAS, MSAS, GAGAN) L1C/A • Integrated GNSS Antenna • FN, ON/OFF buttons • Bluetooth; NFC; UHF Radio; 4G • Electronic Bubble • USB OTG • 2x 6400mAh Battery Capacity; Smart Battery with power display
	1.54"OLED	Satellite, Static, Correction Data, Power	-	16GB	
		Satellite, Static, Correction Data, Power, Bluetooth, Solution Status	-	8GB	

Absolutely Precise

Kryptton is a leading GNSS RTK solution provider. Our engineers have been pioneers in the design of GNSS products to support high-precision positioning applications.

Designed for easy and rapid integration, our GNSS solutions offer centimeter-level positioning accuracy and flexible interfaces for a variety of applications including: unmanned aerial vehicle (UAVs), surveying, mapping, construction, engineering, and precision agriculture.



To learn more, visit: www.zcount.co.in
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Descriptions, specifications and related materials are subject to change.