STEC



SLAM GNSS ROVER

RTK + SLAM Technology
Full GNSS-RTK receiver function, obtain absolute coordinates in weak GNSS signal scenes.

Easy Scanning
No operational restrictions
Advanced SLAM algorithms
High robustness
Real-time point cloud display

20° Laser Tilt
Optimal scanning angle
Point cloud thickness<1cm
Relative accuracy 2cm

4 Image Sensors
Visual positioning
RGB rendering for 3D point cloud
AR stakeout.

SPECIFICATIONS

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SATELLITE PERFORMANCE

Channels	1,808
GPS	L1C/A, L2C, L2P(Y), L5
GLONASS	L1, L2
BEIDOU	B1i, B2i, B3i, B1C, B2a, B2b
GALILEO	E1, E5a, E5b, E6
QZSS	L1, L2, L5, L6
SBAS	L1, L5
IRNSS	L5
L-Band	B2b-PPP, E6-HAS
Positioning Rate	Up tp 50Hz

ACCURACY

Code Differential	H: 0.40m (RMS) V: 0.80m (RMS)
Static	H: 2.5mm±0.5ppm (RMS) V: 5.0mm±0.5ppm (RMS)
Real-time Kinematic	H: 8mm±1ppm (RMS) V: 15mm±1ppm (RMS)
Network RTK	H: 8mm±0.5ppm (RMS) V: 15mm±0.5ppm (RMS)
PPK	H: 3mm±1ppm (RMS) V: 5mm±1ppm (RMS)

IMU MEASUREMENT

Tilt Angle	120°
Accuracy	10mm ≤ 30°, +0.7mm/° tilt

LASER SCANNER

Laser Type	Class I
Measur Range	40m (R=10%) / 70m (R=80%)
Field of View	H: 360°, V: -7° to 52°
Wavelength	905nm
Frequency	200,000 pts/s
Relative Accuracy	2cm

CAMERA

	Front	Left & Right	Bottom
Pixel	5 mpx	5 mpx	2 mpx
Focal Length	8m	8m	2m
Resolution	2,500*2,000	2,500*2,000	1,920*1,080

DATA STORAGE

Type & Storage	SLAM: 512GB; RTK: 64GB Expandable: USB pendrive and SD card
Data Transfer	Type-C USB Transfer Supports FTP/HTTP download
Differential Format	RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM 3.3, RTCM 3.4, NMEA 0183
Static Data Format	DAT, RINEX 2.x, RINEX 3.x, BINEX
GPS Output Format	VRS, FKP, MAC

COMMUNICATION

I/O	Type-C USB Transfer
Radio Antenna Port	TNC
UHF Radio	Rx, 410-470MHz
Protocol	S-LINK / S-LINK ULTRA
WiFi	2.4G/5G, 802.11 a/b/g/n/ac/ax Hotspot/Data Link
Network Module	SIM Card Slot LTE-TDD, LTE-FDD, GSM
Bluetooth	Bluetooth 5.0
NFC	Available

INTERFACES

Button	2: Power, Scan
LED Indicator	Data Link, Satellite, Power

POWER SUPPLY

Battery	Replaceable Li-on Battery, Hot-swap 10.8V, 3400mAh
Operating Time	Rover mode 8h Scan mode 2h

PHYSICAL

Dimension	144*105*206 mm
Weight	1.8kg
Operating Temp.	-30°C to 65°C (SLAM: -20°C to 55°C)
Storage Temp.	-40°C to 80°C

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