XS

THE POCKET LASER ROVER OF NEXT GEN

Extremely Light-weight
Only 380g

2cm @ 5m
Positioning Accuracy

Flexible either on
pole or hand

Internal Receiving
UHF Radio

WiFi Datalink with
Controller Network

IP68
Water and Dust Proof

STEC

SPECIFICATIONS

XS

SATELLITE PERFORMANCE

Channels	1,408 | 1,808 (upgradable)
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	1-20Hz

ACCURACY

Code Differential	H: 0.40m±1ppm (RMS) V: 0.80m±1ppm (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	2cm within 60°

LASER MEASUREMENT

Type	Class 3, green
Distance Accuracy	2mm
Frequency	Normal mode: 2Hz Rapid mode: 15Hz
LaserFix	⩽2cm within 5m ⩽3cm within 10m

CAMERA

Field of View	69°
Pixel	2.0
Focal Length	2m
Resolution	1920*1080

DATA STORAGE

Type & Storage	SSD 8GB
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
UHF Antenna Port	SMA
UHF Radio	Rx, 410-470MHz
Protocol	SLINK Ultra, SLINK, TrimTalk, Satel, etc.
WiFi	2.4G/5G, 802.11 a/b/g/n/ac Hotspot/Data Link
Bluetooth	Bluetooth 5.0, BLE

INTERFACES

Button	2: Power, Laser
LED Indicator	Data Link, Satellite, WiFi, Power

POWER SUPPLY

Battery	Internal Li-on Battery 3.6V, 3,450mAh Type-C Fast Charge
Working Time	7h (rover mode)

PHYSICAL

Dimension	70.0* 43.0* 136.5mm
Weight	380g
Operating Temp.	-30°C to 65°C
Storage Temp.	-40°C to 80°C
Proof	IP68 water and dust proof Humidity: 99.90% non-condensing 1.8m drop on hard surface

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