

# 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 | 1-50Hz                       |

## ACCURACY

|                     |                                                |
|---------------------|------------------------------------------------|
| Code Differential   | H: 0.40m±1ppm (RMS)<br>V: 0.80m±1ppm (RMS)     |
| Static              | H: 2.5mm±0.5ppm (RMS)<br>V: 5.0mm±0.5ppm (RMS) |
| Real-time Kinematic | H: 8mm±1ppm (RMS)<br>V: 15mm±1ppm (RMS)        |
| Network RTK         | H: 8mm±0.5ppm (RMS)<br>V: 15mm±0.5ppm (RMS)    |
| PPK                 | H: 3mm±1ppm (RMS)<br>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<br>Rapid mode: 15Hz |
| LaserFix          | ≤ 2cm within 5m<br>≤ 3cm within 10m  |

## CAMERA

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

## DATA STORAGE

|                     |                                                                                       |
|---------------------|---------------------------------------------------------------------------------------|
| Type & Storage      | SSD 32GB                                                                              |
| Data Transfer       | Type-C USB Transfer<br>Supports FTP/HTTP download                                     |
| Differential Format | RTCM 2.1, RTCM 2.3, RTCM 3.0,<br>RTCM 3.1, RTCM 3.2, RTCM 3.3,<br>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<br>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<br>3.6V, 3,450mAh<br>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<br>Humidity: 99.90% non-condensing<br>1.8m drop on hard surface |



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