

# STEC



## 3D-Fused RTK



**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

## SLi

### 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 (RMS)<br>V: 0.80m (RMS)               |
| Static              | H: 2.5mm±0.5ppm (RMS)<br>V: 3.5mm±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 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       | 20 mpx       | 2 mpx       |
| Focal Length | 5m          | 5m           | 2m          |
| Resolution   | 2,592*1,944 | 5,120*3,840  | 1,920*1,080 |

### DATA STORAGE

|                     |                                                                                       |
|---------------------|---------------------------------------------------------------------------------------|
| Type & Storage      | 512GB<br>Expandable: USB pendrive and SD card                                         |
| 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                                |
| 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<br>Hotspot/Data Link |
| Network Module     | SIM Card Slot<br>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<br>10.8V, 3400mAh |
| Operating Time | Rover mode 8h<br>Scan mode 2h                         |

### PHYSICAL

|                 |                |
|-----------------|----------------|
| Dimension       | 144*104*206 mm |
| Weight          | 1,680g         |
| Operating Temp. | -30°C to 65°C  |
| Storage Temp.   | -40°C to 80°C  |



**GUANGZHOU STAR INFORMATION TECHNOLOGY CO., LTD.**

C-201 Yunsheng Science Park, No.11 Middle Guangpu Road, Huangpu District, Guangzhou 510663, China  
sales@stecprecision.com support@stecprecision.com