

iRTK5 STATIC Only
GNSS STATIC SYSTEM



PERFORMANCE SPECIFICATIONS

Satellite Signals Tracked Simultaneously

| | |
|----------------------------|---|
| Channels..... | 1408 |
| GPS..... | L1C/A, L1C, L2P(Y), L2C, L5 |
| BeiDou..... | B1I, B2I, B3I, B1C, B2a, B2b |
| GLONASS..... | L1, L2, L3 ¹ |
| Galileo ² | E1, E5A, E5, AltBOC, E5B, E6 ¹ |
| IRNSS..... | L5 |
| SBAS..... | L1, L2, L5 |
| Lband ³ | B2b-PPP |

POSITIONING PERFORMANCE

High-Precision Static

| | |
|-----------------|----------------------|
| Horizontal..... | 2.5 mm + 0.1 ppm RMS |
| Vertical..... | 3.5 mm + 0.4 ppm RMS |

Static and Fast Static

| | |
|-----------------|----------------------|
| Horizontal..... | 2.5 mm + 0.5 ppm RMS |
| Vertical..... | 5 mm + 0.5 ppm RMS |

Post Processing Kinematic (PPK / Stop & Go)

| | |
|---------------------------------|---|
| Horizontal..... | 8mm+1ppm RMS |
| Vertical..... | 15mm+1ppm RMS |
| Initialization time..... | Typically 10 min for base and 5 min for rover |
| Initialization reliability..... | Typically > 99.9% |

Code Differential GNSS Positioning

| | |
|-----------------|----------------------------------|
| Horizontal..... | 25 cm RMS |
| Vertical..... | 50 cm RMS |
| SBAS..... | ⁶ 0.5 m(H), 0.85 m(V) |

Tilt Survey Performance

Additional horizontal pole-tilt uncertainty typically less than 10 mm +0.7 mm / °tilt (2cm accuracy in the inclination of 30° under good condition)

HARDWARE

Physical

| | |
|----------------------------|---|
| Dimensions (W x H)..... | 158mm x 98mm (6.22inch x 3.86inch) |
| Weight..... | lighter than 1.3kg (2.65lb) within internal battery |
| Operation temperature..... | -40°C~+75°C (-40°F~+167°F) |
| Storage temperature..... | -50°C~+85°C (-58°F~+185°F) |
| Temperature control..... | Auto-adjust the working power to maintain the temperature |
| Humidity..... | 100%, condensing |

| | |
|--------------------------|--|
| Water/dustproof..... | IP67 dustproof, protected from temporary immersion to depth of 1m (3.28ft) |
| Shock and vibration..... | MIL-STD-810G, 514.6 |
| Anti-salt spray..... | MIL-STD-810G, 509.4, 96h |
| Free fall..... | MIL-STD-810G, 516.6, designed to survive a 2m(6.56ft) natural fall onto concrete |

Electrical

6V to 28V DC external power input(5-pin port), with over-discharge protection power consumption 4.4W Automatic switching between internal power and external power

Control Panel

| | |
|----------------------|--|
| Physical button..... | 1 |
| Display..... | 240 x 240 pixel, 261ppi |
| Touchscreen..... | Support glove mode and wet-finger mode |

Internal Battery

7.4 V, 6800 mAh lithium-ion rechargeable and removable battery.
Power indicator embedded.
Quick charge within 3.5 hours.

I/O Interface

1 DC power input(5-pin)

SYSTEM CONFIGURATION

System

| | |
|-------------------|---|
| Data storage..... | Circulating 16GB Internal storage Record GNS and RINEX format simultaneously |
|-------------------|---|

Data Formats

| | |
|-------------------------------|------------------------------------|
| Output rate..... | 1Hz-20Hz |
| Static data format..... | GNS, Rinex Dual Format Static Data |
| Navigation outputs ASCII..... | NMEA-0183 |

1. There is no public GLONASS L3 CDMA or Galileo E6 ICD. The current capability in the receivers is based on publicly available information.

2. Developed under a License of the European Union and the European Space Agency.

Descriptions and Specifications are subject to change without notice



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