

## **GRX5**



## Positioning made easy

This fully integrated all-in-view constellation RTK GNSS receiver brings a new level of versatility and flexibility into your precision positioning applications. The GRX5 provides unmatched usability and versatility that's sure to enhance your productivity. And like all Sokkia products, you can customize it to meet your needs and create your own workflows.

- Sokkia Tilt Technology up to 60 degrees
- Anti-jamming and anti-spoofing capabilities
- 448 channels covering all modernized signals (GPS, GLONASS, Galileo, BeiDou, IRNSS, QZSS, SBAS)
- Available with integrated UHF radio
- Universal USB-C connectivity and battery charging
- Fusion technology automated workflow
- Static, Standard RTK, Network RTK and PPPK
- IP67 rated

## **Specifications**

| GNSS Technologies (signal trac  | king)  |  |
|---------------------------------|--|--|
| GPS                             | L1 C/A, L1P, L2P, L2C, L5  |  |
| GLONASS                         | L1 C/A, L2P, L2C/A, L3   |  |
| Galileo                         | E1, E5a, E5b, E5 AltBOC, E6  |  |
| BeiDou                          | B1, B1C, B2, B2a, B2b, B3  |  |
| IRNSS (NavIC)                   | L5   |  |
| SBAS                            | L1, L5   |  |
| QZSS                            | L1C/A, L1 C/B, L2C, L5   |  |
| L-band                          | Yes  |  |
| Channels                        | 448 hardware channels  |  |
| Tilt                            | Calibration-free and magnetically immune IMU   |  |
| Signal integrity                | GNSS interference monitoring and mitigation technolog for anti-jamming and anti-spoofing |  |
| Positioning Performance         | To and Jamining and and Speering   |  |
|                                 | H: 3 mm + 0.1 ppm  |  |
| Precision Static                | V: 3.5 mm + 0.4 ppm  |  |
| Static/Fast Static <sup>1</sup> | H: 3 mm + 0.5 ppm  |  |
| Jeane, as seate                 | V: 5 mm + 0.8 ppm  |  |
| PPP                             | H: 3 cm RMS <sup>2</sup> V: 5 cm RMS <sup>2</sup>  |  |
|                                 | Convergence time: < 5 mins <sup>3</sup>  |  |
| RTK <sup>4</sup>                | H: 5 mm + 0.5 ppm  |  |
|                                 | V: 10 mm + 0.8 ppm   |  |
| RTK, TILT                       | RTK + 5 mm + 0.5 mm / ° tilt   |  |
| Compensated                     | Compensation up to 60°   |  |
| Communications                  |  |  |
| Internal Radio (Optional)       | 403-473 MHz UHF  |  |
|                                 | Max Transmit Power: 1 W  |  |
| Cellular                        | Integrated 4G/LTE cellular modem   |  |
| <b>-</b> 1                      | v5.3 BR/EDR and  |  |
| Bluetooth®                      | low energy long range  |  |
| \A/: F:                         | (up to 300 m)<br>802.11a/b/g/n/ax 2.400 to 2.500 GHz                                     |  |
| Wi-Fi                           |  |  |
| Ports                           | USB type C for power and data  |  |
| Data format and memory          |  |  |
| Output formats                  | RTCM 3.1, RTCM 3.2, NMEA   |  |
| Input formats                   | RTCM 2.x, RTCM 3.x, CMR, CMR+  |  |
| Internal Memory                 | 20 GB  |  |
| Update Rate                     | Up to 20 Hz  |  |
|                                 |  |  |

<sup>&</sup>lt;sup>1</sup> Performance specifications assume optimal conditions, including dual-frequency GPS, precise ephemerides, low ionospheric activity, approved antenna calibration, unobstructed visibility above 10°, and ≥3-hour observation durations (dependent on baseline length).

<sup>&</sup>lt;sup>2</sup> Specifications are derived from field and lab testing. Accuracy and convergence may vary with hardware, GNSS geometry (PDOP), and site conditions.

<sup>&</sup>lt;sup>3</sup> Performance may degrade under high ionospheric activity, severe multipath, or dense vegetation. Adherence to GNSS best practices is recommended for optimal results.

<sup>&</sup>lt;sup>4</sup> Applicable to baselines <40 km.



## **GRX5**

| Power                  |   |  |
|------------------------|---|--|
| Battery                | Internal, non-removable, Lithium-lon batteries  |  |
| Operating time         | 15 h – STATIC (1 Hz data logging) 7 h – RTK BASE STATION (1 W UHF/FH) 10.5 to 13 h – RTK ROVER (UHF/FH, internal cell or long range Bluetooth) <sup>5</sup> |  |
| Hardware               |   |  |
| Dimensions (L x W x H) | 13.9 x 13.9 x 9.7 cm (5.47 x 5.47 x 3.82 in.)   |  |
| Weight                 | 995 g (2.19 lb.)  |  |
| Ingress Protection     | Dust and water IP67   |  |
| Vibration              | MIL-STD 810G  |  |
| Drop                   | Survive 2m pole drop on concrete surface  |  |
| Operating Temperature  | -40°C to 65°C (-40°F to 149°F)  |  |

 $<sup>^{\</sup>rm 5}$  Operating time varies by communication method.

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