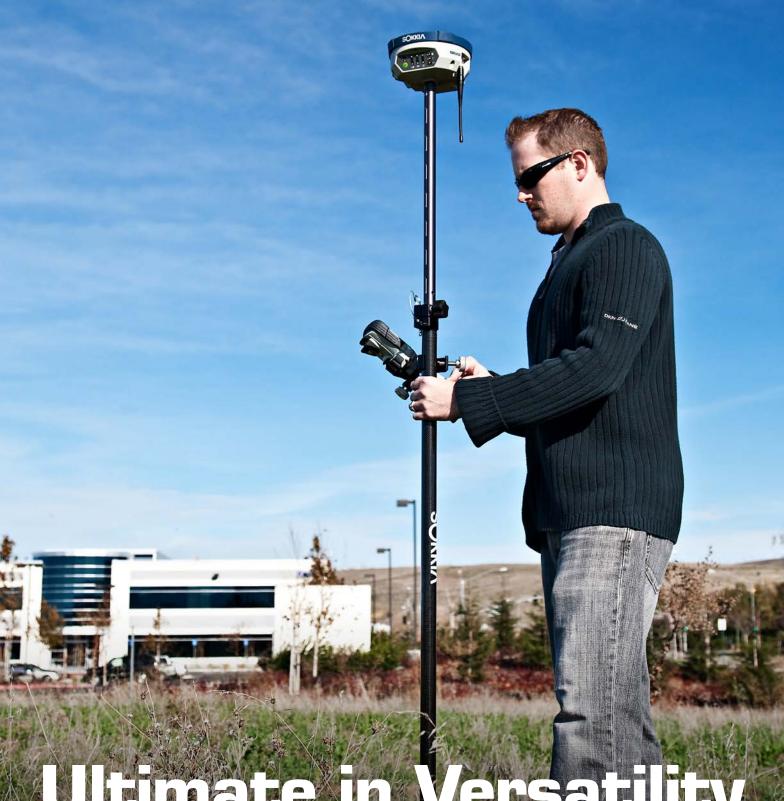
SOKKIA





Ultimate in Versatlity

Scalable – Affordable – Triple Wireless Technologies



- Fully Scalable
- 226-channel GPS+GLONASS
- Integrated Radio+Cellular+Bluetooth®
- Voice Feedback
- Compact, Watertight and Rugged

The Sokkia GRX2 has been enhanced with the latest GNSS chipset technology, providing 226 channels and superior antenna quality. Both RTK and static operations will be completed with increased productivity. The GRX2 provides unmatched usability and versatility that guarantees to improve performance.

# **GRX2 GNSS Receiver**

The GRX2 receiver is a fully integrated dual constellation receiver, antenna, radio, and optional cellular modem. In addition, the integrated *Bluetooth*® module, now enhanced for better performance, is designed into a rugged magnesium alloy body.

# **Fully Scalable Architecture**

The GRX2 can be purchased as a single frequency GPS only receiver at a low cost and later upgraded to dual frequency. Add a radio or cellular modem for additional signal capability for GLONASS.

# 226 Channels for GPS and GLONASS Signals

- 226 tracking channels with Universal Tracking Technology
- Programmable channels for tracking available signals
- Supports SBAS, QZSS, and QLL

# **Triple Wireless Technologies Inside**

Three commonly-used wireless technologies can be integrated into the GRX2 receiver.

- Digital UHF or FH915 SS modem (receiver/transmitter): for RTK base and rover
- GSM/HSPA modem: for network RTK, and MAGNET® Relay
- Bluetooth® modem: for controller and other PC

# **Maximum Versatility in RTK Applications**

Utilizing full wireless connectivity and voice feedback system, the GRX2 facilitates the use of both RTK and network RTK technologies.

- Built-in GSM/HSPA modem makes the GRX2 an ideal rover receiver for network RTK positioning.
- Can be used for both private RTK base and RTK rover using an internal digital UHF or FH915 spread spectrum without any extra devices.
- MAGNET Relay ready cellular to cellular base/rover RTK.
- Voice messages notify the users when RTK is fixed or lost, or if other problems occur.







#### **Additional Hardware Features**

- 22 status LED displays are exceptionally readable even under bright sunlight.
- Data storage on popular SD/SDHC cards.
- IP67 dust/water protection.
- One removable battery powers the receiver for up to 6 hours in RTK usage with UHF radio communication.
- The BDC70 Li-ion battery can be used in other Sokkia total stations and digital levels.



# **Field Controllers**

The GRX2 has built-in internal *Bluetooth*® capability that allows the user to choose their field controller model and software. The broad capability design allows users more choices for their preferred style of field controller. Whether it is a small palm-sized screen device, a larger screen handheld, or even a field laptop, the GRX2 is ready to connect.

# **MAGNET®** Field

MAGNET Field provides a bright, graphical user interface with large touch icons and bright readable text. Select your color scheme black, gold, blue, or silver, for your best visibility.





# Software

MAGNET software is tailored for use with Sokkia GNSS receivers in both field and office functions.

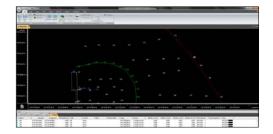
# **MAGNET Enterprise**

A managers dream of tracking all field and office data in one simple to access web interface. Store and exchange your field data in the Enterprise cloud. Save time by sending your field and office updates to the cloud rather than driving back to the office.



### **MAGNET Office**

Get full CAD functionality with MAGNET Office Site and Topo, or process field data with MAGNET Office Tools inside AutoCAD® products, like Civil3D®. Choose the MAGNET Office solution module that best fits your needs.





### **SPECIFICATIONS**

226 channels L1 CA, L1/L2 P-code, L2C
L1/L2 CA, L1/L2 P-code
WAAS, EGNOS, MSAS, QZSS
Integrated
···-g
H: 3 mm + 0.8 ppm V: 4 mm + 1 ppm
H: 3 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm
H: 10 mm + 1 ppm V: 15 mm + 1 ppm
< 0.5 m
10.0
Single-button operation for power, receiver reset, memory initialization
22 LED status indicators
Multi-lingual voice messages for receiver status information
TVICIN IIII GAAL VAIDO TILOGAGGAS TOT TOOCIVA SEEBAS IIII OTTITABIOTI
SD/SDHC card (FAT16/32 formats)
1 Hz, 5 Hz, 10 Hz, 20 Hz (10 Hz RTK Standard)
RS-232C (4,800 to 115,200 bps)
110-2020 (4,000 to 110,200 bps)
V2.1 + EDR, Class 2, 115,200 bps <sup>-4</sup>
Internal, receiver (RX) and transmitter (TX), 410 to 470 MHz
Internal
Internal, receiver (RX) and transmitter (TX), 902 to 928 MHz
Internal, receiver that and transmitter trat, such to see Minz
IP67 (IEC 60529:2001) at closing all connector caps.
Protected against temporary immersion up to 1 m (3.3 ft.) depth.
2 m (6.56 ft.) pole drop
-40 to 65°C (-40 to 149°F)
-20 to 65°C (-4 to 149°F)
-20 to 55°C (-4 to 131°F)
-45 to 70°C (-49 to 158°F)
100%, condensing
Magnesium alloy housing
184 x 95 mm (7.24 x 3.74 in.)
1.0 kg (2.20 lb.) / 195 g (6.9 oz.)
Detachable, Li-ion battery, 7.2V, 5240 mAh
>7.5 hours in static mode with Bluetooth® connection
Approx. 4 hours at 25°C (77°F)
100 to 240V AC (50/60 Hz)*5
6.7 to 18V DC

- Number of channels and tracked signals vary according to receiver configurations.
   Accuracy depends on the number of satellites used, obstructions, satellite geometry (DOP), occupation time, multipath effects, atmospheric conditions, baseline length, survey procedures and data quality.
   1 Hz standard. Higher rates available as options.
- \*4 Internal "FH915 modem" or "FH915+Cellular modem" available as factory options. Bluetooth\* Class 1 when used with a Class 1 field controller.

- Use with an appropriate AC power cable.
   Under nominal observing conditions and strict processing methods, including use of dual frequency GPS, precise ephemerides, calm ionospheric conditions, approved antenna calibration, unobstructed visibility above 10 degrees and an observation duration of at least 3 hours (dependent on baseline length).
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- Designs and specifications are subject to change without notice.

  Product colors in this brochure may vary slightly from those of the actual products owing to limitations of the printing process.

# **Your local Authorized Dealer is:**

# SOKKIA CORPORATION

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