SOKKIA

GHX2
Network Rover System

**GNSS ROVER**

- Integrated RTK GNSS Receiver
- Large VGA Color Touchscreen
- Fast 806MHz Processor
- 3.2MP Camera
- Internal Cellular Module
- Built-in Bluetooth® and Wi-Fi Connectivity

GHX2 Network Rover System
Sokkia GHX2

The GHX2 network rover system is an all-in-one handheld GNSS receiver and field controller featuring high-speed processor, increased memory, cellular modem, built-in camera, Bluetooth®, and Wi-Fi.

Using touchscreen technology, the GHX2 features direct touch access to all graphic controls. This 5.7 in. display is the main selling feature, while the Windows® Embedded Handheld 6.5 Professional OS provides a modern operating environment and added expandability with other application software. Graphical icon functionality allows for quick and easy operation. The fast 806MHz processor drives any MAGNET® field application software with ease.

With the addition of a built-in 3.2MP camera, 3.5G cellular modem and Bluetooth® / Wi-Fi capability, the GHX2 network rover system is an essential addition to any surveyor’s arsenal. Both Bluetooth® and Wi-Fi are standard features eliminating the need for expensive upgrades. The Sokkia GHX2 has dual hot-swappable batteries capable of up to 16 hours of operation. Additional accessories such as a dashboard mount and external battery charger are available to fit your needs.

Primary Features

Integrated Receiver
The GHX2 consists of a dual frequency, 72 channel GPS + GLONASS receiver, a field controller, and a precise external antenna. It is a perfect combination for collecting RTK data using network corrections including MAGNET Relay broadcast service.

External Precision Antenna
The GHX2 has a precision antenna port that can be connected to the external dual constellation, dual frequency SA300 antenna on top of a pole. This solution provides the most precise method of measurement.
### Large 5.7 in. Color Screen
- 5.7 in. VGA color touchscreen
- Better visibility of controls
- No-glare screen, even in sunlight
- On-screen keyboard

### Weather Sealed USB Ports
- Quickly and easily copy or upload files
- Rugged protection
- Waterproof ports
- Rubber covers keep the ports clean

### Precision Antenna Connection
- Precise GNSS antenna port
- Rugged, waterproof connector
- Easy connect/disconnect
- Can be retrofit to any Mesa Geo3G controller

### 3.2MP Built-in Camera
- Autofocus
- 4GB of flash storage
- Store hundreds of photos
- Use a common USB memory stick to off-load images

### Software

#### MAGNET®
A family of software solutions that streamlines the workflow for surveyors, contractors, engineers, and mapping professionals.

#### Field
**Modern User Interface**
MAGNET Field provides a bright, graphical user interface with large icons and bright readable text. The screens not only look good, but provide fast workflows.

**Easy to Use**
The icon and text field interface has been optimized to provide both text and images to indicate what data is needed on each screen. Shortcut buttons and fast access tabs provide a very productive interface.

**Advanced Calculations**
MAGNET Field not only controls the measurements of the instrument but also provides many COGO and adjustment calculations.

#### Office Tools
**MAGNET Office Tools**
The most advanced office data processing application that enables users to adjust and generate final coordinates from total stations, levels, and GNSS raw data. Office Tools will install as standalone or inside an AutoCAD® product as a user ribbon interface, right inside AutoCAD®.
### GNSS

- **GNSS Receiver**: GPS + GLONASS
- **Number of Channels**: 72 GPS + GLONASS L1/L2
- **WAAS/EGNOS**: Yes
- **L1, L2 Static**: H: RMS 3mm + 0.8ppm  
  V: RMS 4mm + 1.0ppm
- **RTK Accuracy**: H: 10mm + 1.0ppm  
  V: 13mm + 1.0ppm

### Computer

- **CPU**: 806MHz PXA320 Processor
- **OS**: Microsoft® Windows® Embedded Handheld 6.5 Professional
- **Multiple languages**: Yes
- **Memory**: 256MB RAM, 4GB flash storage  
  SD/SDHC slot, user accessible
- **Display**: 5.7 in. (145mm) Color VGA LCD (640 x 480)  
  Portrait or landscape orientation
- **Keypad**: 15 control buttons (8 user assignable)  
  Five-way directional navigational keypad  
  Adjustable LED backlight keys
- **Camera**: 3.2MP resolution with autofocus

### Wireless Connectivity Options

- **Bluetooth®** / WiFi: 2.0 + EDR, Class 1 / 802.11b/g
- **GSM**: Penta-band 3G GSM/GPRS/EDGE-HSDPA 850/900/1800/1900/2100 MHz

### Environmental

- **Dust/Water Protection**: IP67
- **Operating Temperature**: -22°F to 140°F (-30°C to 60°C)
- **MIL-STD-810G**: Drop 4 ft. (1.2m), Vibration, Humidity, Tumble spec: 1,000 1.6 ft/0.5m tumbles (2,000 drops)
- **Dimensions (W x L x D)**: 5.3 x 8.6 x 2 in. (136 x 220 x 51mm)
- **Operating Time**: In full RTK: Up to 6 hours

### Standard Accessories

- Li-Ion battery
- Hand strap
- USB download cable
- Stylus
- 100-240VAC power supply
- SA300 antenna and cable
- Screen protector
- Case

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**Waterproof and Rugged**

The GHX2 with controller is rated at IP67, which means it can be submersed in water and still function. The unit also can be dropped from 4 ft (1.2m) and still operate. The reliability of this device in the field is unsurpassed.