

Dual Frequency GNSS Receiver



- Rugged, Lightweight, Magnesium Alloy Construction
- Integrated Radio Choice
- Integrated GPS+GLONASS RTK & Static Receiver
- Voice Messages for Receiver Status
- Extended *Bluetooth*® Range

HiPer II Dual Frequency GNSS Receiver

Smaller. Lighter. Faster. More affordable. Compact, lightweight, cable-free solutions for all GNSS positioning applications.

In the early 2000's, Topcon revolutionized the GNSS positioning technology with the HiPer series of receivers. Its fully integrated design gave the highest agility to RTK rovers ahead of its time, by eliminating extra equipment such as backpacks and cables.

Now Topcon raises the industry standard once again by presenting the next-generation of the world's most popular receiver system – the HiPer II. Smaller. Lighter. Faster. More Affordable.

The HiPer II receiver is designed on these clear-cut concepts. This state-of-the-art receiver not only offers further enhanced agility, but also increases receiver performance and user-friendliness as well as the fully customizable structure providing our customers with the maximum flexibility to choose the system options they require.

GPS+ Dual Frequency Signal Tracking

Topcon's industry-leading GPS+GLONASS, dual frequency signal tracking technology offers superior positioning capability over the GPS only receivers. It makes a difference where sky visibility is limited such as in urban canyons or in woodlands, near tall fences or other obstructions.

Cable-free RTK Base and Rover with an Internal Radio Transmitter/Receiver

No more hassles of connecting an external radio. The HiPer II has an optional internal radio with receive and transmit capabilities, eliminating cables from both rovers and base stations. Topcon provides a choice of internal radio from either Spread Spectrum or Digital UHF technologies.

Rugged and Waterproof

The HiPer II is designed rugged enough to take the knocks in a real jobsite. It is also fully sealed waterproof IP67, which means it can be submersed into water and not be damaged. The ports, speaker and battery door are all completely sealed from dust and water.



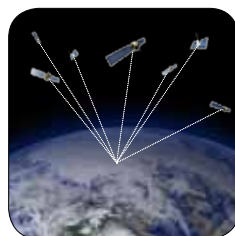
Integrated Radio Choice

- Spread Spectrum Radio
- Digital UHF Radio
- GSM Modem
- CDMA Modem



Rugged Design

- Magnesium metal housing
- Drop-proof
- Durable, rugged
- Waterproof



Integrated GPS and GLONASS

- USA based GPS satellites
- Russian based GLONASS satellites
- Provide best coverage
- No down time



Housing Features

- External power port
- External serial port
- Tape measure hook
- Shock protected ring

Voice Alerts

Listen to your receiver! The convenient voice status messages keep you informed without having to look at the screen of the field controller, or the status lights above your head. Stay safe in traffic situations by looking at on-coming traffic rather than looking for the word "Fixed".



PRIMARY FEATURES

Session timer

Bluetooth® connectivity

Internal Bluetooth® module

Power button

Remaining battery

Number of satellites being tracked

Remaining memory

Serial connectivity

Radio connectivity



Choice of Field Controller

With built-in *Bluetooth*®, the HiPer II receiver can use any of the Topcon field controllers. Choose a compact hand sized device for on-screen data entry, or a larger device with a full keyboard. The HiPer II can be configured with your preference in controllers.



KIT COMPONENTS

System Components

- 2 HiPer II Receivers
- 4 Batteries / 2 Dual Chargers
- Radio Antenna
- Carrying Case
- Power Cable
- 10cm Spacer and 3m Tape Measure
- Tribrach and Adapter w/Optical Plummet



SPECIFICATIONS

Tracking Capabilities

| | |
|---------------------------------|--|
| Number of Channels ¹ | 72 Universal Channels |
| Tracked Signals | GPS L1 CA, L1/L2 P-code, L2C GLONASS L1/L2 CA, L1/L2 P-code SBAS WAAS, EGNOS, MSAS |

Positioning Accuracy²

| | | |
|-------------|---------|------------------------------------|
| Static | L1+L2 | H: 3mm + 0.5ppm V: 5mm + 0.5ppm |
| | L1 only | H: 3mm + 0.8ppm V: 4mm + 1ppm |
| Fast Static | L1+L2 | H: 3mm + 0.5ppm V: 5mm + 0.5ppm |
| | L1+L2 | H: 10mm + 1ppm V: 15mm + 1ppm |
| Kinematic | L1+L2 | H: 10mm + 1ppm V: 15mm + 1ppm |
| | L1+L2 | H: 10mm + 1ppm V: 15mm + 1ppm |
| RTK | L1+L2 | H: 10mm + 1ppm V: 15mm + 1ppm |
| DGPS | | <0.5m |

Wireless Communication

| | |
|------------|--|
| Bluetooth® | V2.1 + EDR, Class 2, 115,200bps |
| Radio | UHF, Spread Spectrum, Cellular (options) |

Environmental

| | |
|-----------------------|---|
| Dust/Water Protection | IP67 |
| Shock | 2m (6.56 ft.) pole drop |
| Operating Temperature | HiPer II receiver with battery -40°F to +149°F (-40°C to +65°C) |
| Battery | -4°F to +149°F (-20°C to +65°C) |
| Radio/GSM modems | -4° to +131°F (-20° to +55°C) |

Physical

| | |
|-----------|---|
| Enclosure | Magnesium alloy housing |
| Size | 7.24" D x 3.74" H (184mm D x 95mm H) |
| Weight | HiPer II receiver 2.65 lb. to 2.93 lb. (1.2kg to 1.33kg) |
| Battery | 6.9 oz. (195g) |

Power Supply

| | |
|-------------------------------|--|
| Standard Battery | Detachable, Li-ion rechargeable battery, 7.2V, 4.3Ah |
| Operating Time at 68°F (20°C) | >7.5 hours in static mode w/Bluetooth® connection |
| External Power Input Voltage | 6.7 to 18V DC |

1. Number of channels and tracked signals vary according to receiver configurations.
2. RMS Values. 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.
3. 10 Hz standard. Higher rates available as options.

For more specification information:
topconpositioning.com/hiper-ii

SOFTWARE

MAGNET™

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

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, Silver, for your best visibility.



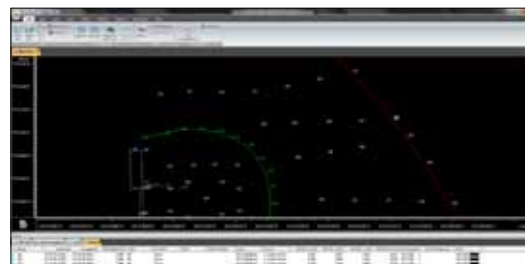
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MAGNET Enterprise

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 the drive time by sending your field and office updates to the cloud rather than driving back to the office.

MAGNET Office

Full CAD functionality with MAGNET Office Site and Topo. Or field data processing with MAGNET Office Tools inside AutoCAD® products, like Civil3D®. The MAGNET Office solution has what you need. Pick the module that fits your needs.



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