

Site Receiver



- Compact, lightweight, rugged design
- Completely integrated receiver, antenna, batteries, memory, and communications
- Superior multi-constellation Vanguard GNSS chipset
- Integrated multi-channel LongLink™ communication technology

HiPer SR Site Receiver

Compact. Rugged. Advanced. Affordable.

Providing leading edge technology in a new smart, rugged design, the new HiPer SR provides superior performance at an affordable price. The compact, integrated receiver design includes the GNSS board, industry leading Fence Antenna™, sealed long-life power supply, memory storage and Topcon's innovative LongLink™ communication technology.

With the HiPer SR, you don't have to sacrifice durability and performance to have a lightweight receiver. HiPer SR – a compact lightweight receiver that is built to take the most intense environmental conditions and job site punishment.

The design of the HiPer SR also provides a great deal of versatility, allowing the HiPer SR to be configured in a variety of ways depending on your project requirements. Use a pair of HiPer SR receivers for a low-cost, completely cable free base and rover RTK system.

Using Topcon's LongLink™ RTK communication, HiPer SR makes the perfect affordable, small job site system. HiPer SR also makes a great low-cost static GNSS system that can be pre-programmed and operated in the field with just one button. You can also utilize the HiPer SR as a network RTK rover by adding network functionality and a cellular enabled controller.



Rugged and Lightweight

The HiPer SR is both lightweight and rugged. It is guaranteed to survive a 2m on the pole drop to concrete. The magnesium metal housing is rugged and lightweight.



Integrated Design

HiPer SR brings an innovative combination of compact, lightweight design with advanced technology and performance. The integrated design includes GNSS receiver, power supply, memory, and communications module – all in a rugged, environmentally sealed housing.



Cable-Free Design

This completely integrated receiver operates cable free in the field, with no antennas, battery doors, or connectors to worry about. The mini USB port is completely waterproof.



Vanguard Technology

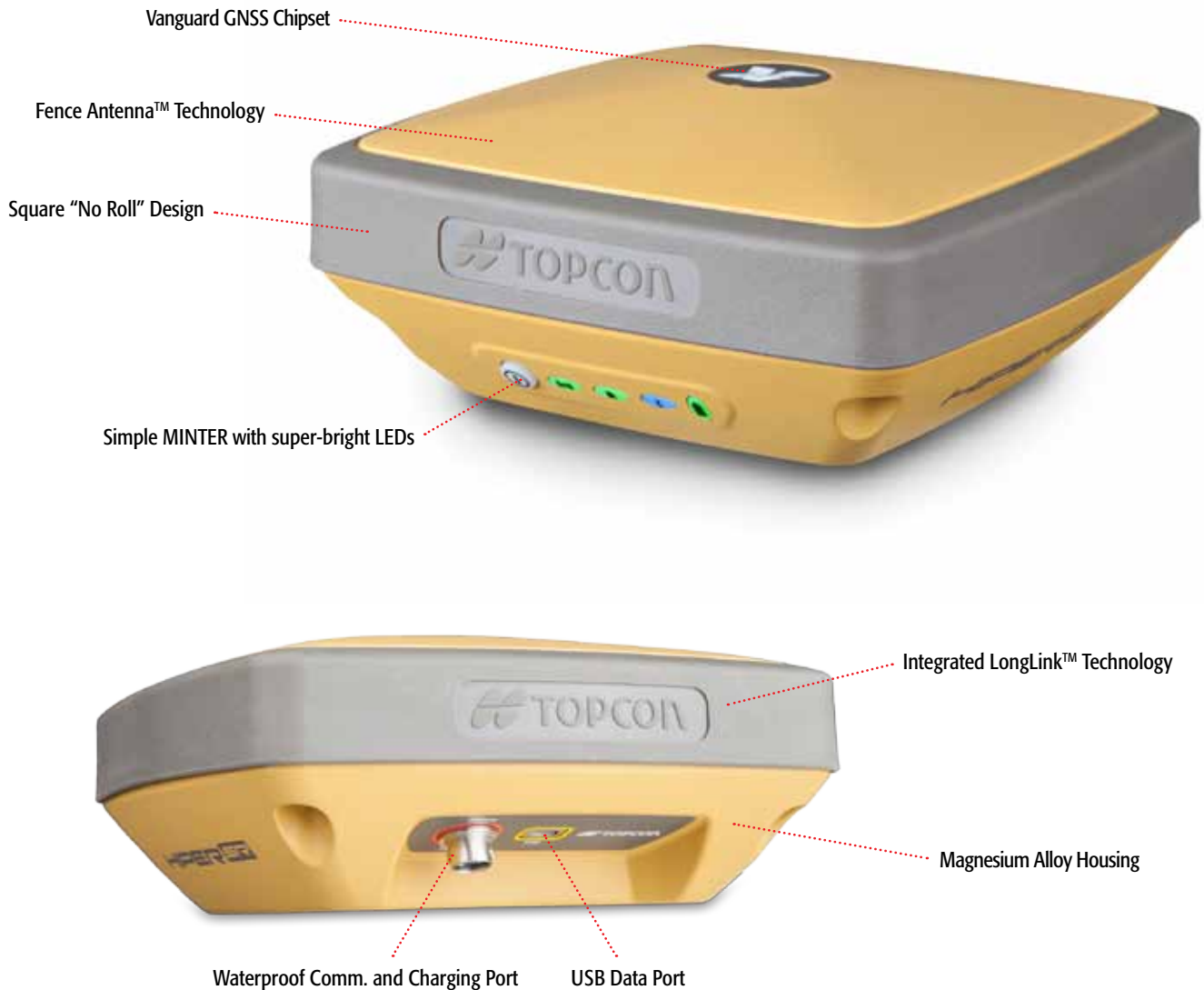
The latest Topcon GNSS chipset and firmware provide Universal Channel Tracking. The receiver firmware can read existing satellite signals, and new signals planned for the future.



Topcon's exclusive LongLink™ RTK technology provides the perfect short range RTK communication 1,000+ ft. (300+m) from the base station. With the HiPer SR, enjoy reliable, interference free RTK base-rover communication that doesn't require an FCC license to operate. LongLink™ RTK technology provides superior performance in the toughest radio environments such as around airports or city centers.



PRIMARY FEATURES



Fence Antenna™ Technology

Provides superior satellite tracking in difficult conditions. The true separator of precision GNSS systems is not how well they can track in open areas, but in real-life situations with a variety of obstructions. When compared to any other RTK receiver available today, the HiPer SR with Fence Antenna™ Technology provides more robust, cleaner signal tracking which means unparalleled results.



KIT COMPONENTS

System Components

- Main Unit
- Battery Charger
- Tribrach with adapter
- 10cm pole adapter
- Mini USB cable
- Carrying Case



SPECIFICATIONS

Tracking

Number of Channels	226 Channels
Signals Tracked	GPS, GLONASS, SBAS, QZSS, Galileo, and COMPASS*
Antenna Type	Integrated Antenna with Fence Antenna™ Technology

Positioning Accuracy

RTK (L1+L2)	H: 10 mm + 1.0 ppm V: 15 mm + 1.0 ppm
Fast Static (L1)	H: 3 mm + 0.8 ppm V: 4 mm + 1.0 ppm
Fast Static (L1+L2)	H: 3 mm + 0.5 ppm V: 5 mm + 0.5 ppm
DGPS:	H: .04 m V: .06 m
SBAS:	H: 1.0 m V: 1.5 m

Communication

RTK Broadcast	LongLink™ 300m+ Range, Up to 3 simultaneous rovers
I/O Communications	Bluetooth®, Serial, USB

Data and Memory

Memory	4GB internal (Firmware limit of 2GB of static data)
Real Time Data Output	TPS, RTCM SC104 v 2.x, 3.x; CMR/CMR+
ASCII Output	NMEA 0183 version 2.x and 3.0

Physical

Dimensions	6 x 6 x 1.5 in (w x d x h) 150 x 150 x 64 mm
Weight	1.87lbs., 850g
Status Display / Panel	MINTER
External Power Connector	Yes
Operation Time	Up to 20 hours

Environmental

Operating temperature	-20°C to +65°C with internal batteries -40°C to +65°C with external power
Storage temperature	-40°C to +70°C
Humidity	100%, condensing
Water / Dustproof	IP67

* Galileo and COMPASS support will be incorporated into HiPer SR when these constellations have matured and are ready for commercial use.

For more specification information:
www.topconpositioning.com/hiper-sr

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 touch 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

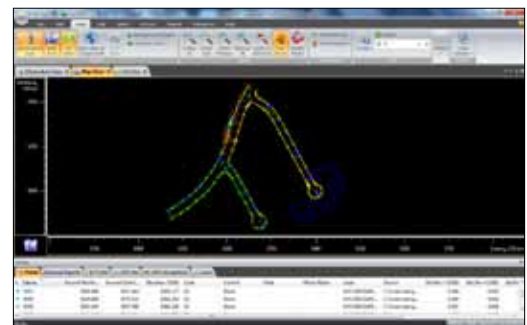
MAGNET Field not only controls the measurements of the instrument but also provides many COGO and adjustment calculations.



Office Tools

MAGNET Office Tools

Directly integrates into Autodesk products utilizing their CAD engine, or as a standalone installation with Topcon's Office Site and Office Topo. Either way, connect to MAGNET Enterprise directly from your CAD software.



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