

Extended Range Site Receiver



- Universal Tracking Channel Technology
- Advanced Fence Antenna™ Technology
- Compact, Lightweight, Rugged and Cable Free Design
- Fully Integrated LongLink™ and Cellular Configuration (optional)
- Dual SIM Card Support

HiPer SR Site Receiver

Compact. Rugged. Advanced. Affordable.

Providing leading edge technology in a smart, rugged design, the new HiPer SR provides superior performance at an affordable price. The compact, integrated receiver design includes the 226-channel Vanguard GNSS technology with Universal Tracking, industry leading Fence Antenna™, sealed long-life power supply, and memory storage.

The HiPer SR comprises two different communication options including Topcon's innovative LongLink™ communication technology and integrated cellular module (optional).

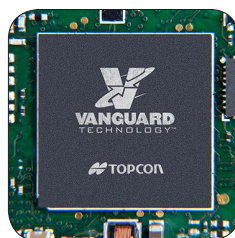
With the HiPer SR you don't have to sacrifice durability and performance to have a versatile 3D job site system. HiPer SR – a compact lightweight receiver that is built to take the most intense environmental conditions and job site punishment.

In addition to ruggedness, the HiPer SR is the most versatile, configurable, compact receiver system available. Use just two units in many configurations, depending on the demands of the project site. Use as a job site base and rover with interference-free LongLink communication up to 300 m or base and rover with MAGNET Relay cellular communication RTK up to 35 km baselines.

A pair of HiPer SR receivers can also be used with internal SIM cards as network rovers with Topcon TopNET/live GNSS Reference Network, two network rovers with internet capable field controllers, two dual frequency static receivers, or in conjunction with a robotic instrument for Hybrid Positioning. All these configurations from just two receivers that can fit into any laptop carrying bag.

MAGNET® Relay Service

In cellular mode, MAGNET Relay RTK service, allows the HiPer SR to be used as a mobile RTK base "relaying" corrections from the base to up to 10 rovers, through the MAGNET Enterprise "cloud." MAGNET Relay is an RTK forwarding service that allows users to broadcast in-field base stations to their company MAGNET Enterprise cloud for the purpose of distributing the base station RTK messages to their own rover receivers.



226-Channel Vanguard Technology™ with Universal Tracking

Topcon's exclusive channel tracking technology provides unmatched GNSS signal flexibility and expandability.



Integrated Cellular Module (Optional)

When cellular coverage is available, the HiPer SR is versatile enough for short or long range. The HiPer SR as base and rover is a simple way to do RTK through MAGNET Relay.



Smart Design

HiPer SR brings an innovative combination of compact, lightweight, environmentally sealed, rugged and cable free design. It is guaranteed to survive a 2 m on the pole drop to concrete.

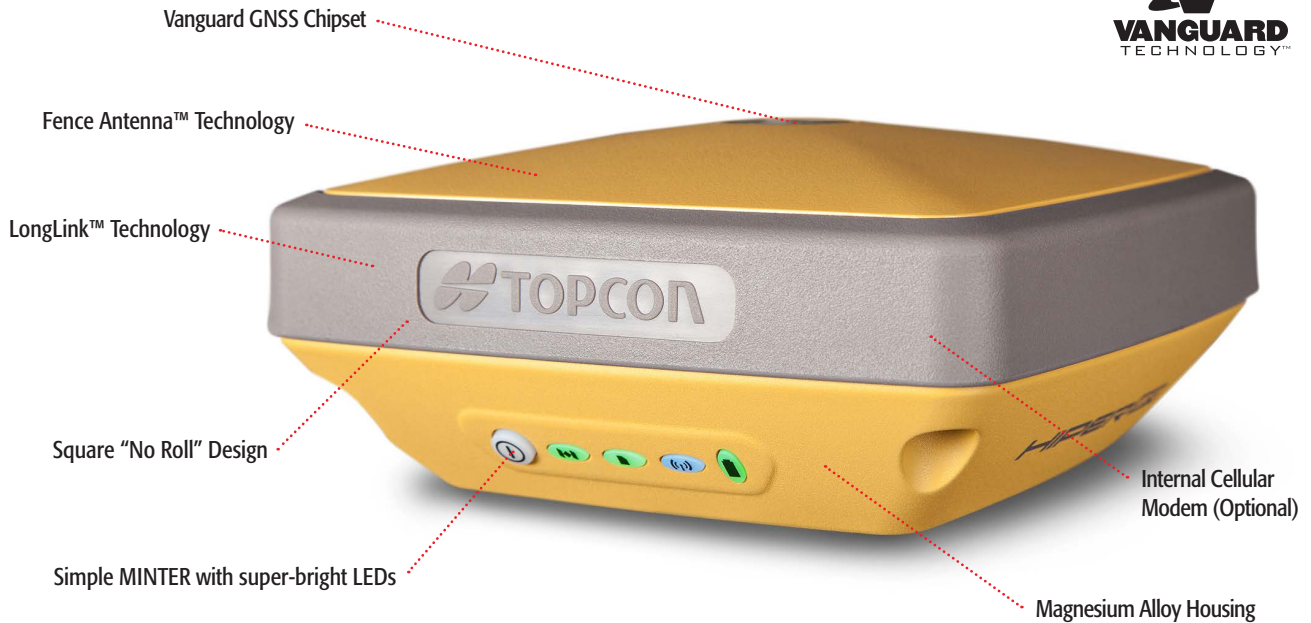


Fence Antenna™

When compared to any other RTK receiver available today, the Fence Antenna™ technology provides more robust, cleaner signal tracking which means unparalleled results.



PRIMARY FEATURES



Waterproof Communication and Charging Port

USB Data Port

Cellular Antenna Port

LONGLINK™

Topcon's exclusive LongLink™ RTK technology provides the perfect short range RTK communication 300+m from the base station. With the HiPer SR, enjoy reliable, interference free RTK base-over communication that doesn't require an FCC license to operate.



KIT COMPONENTS

System Components

- Main Unit with Case
- Battery Charger
- Tribrach with adapter
- 10 cm pole adapter
- Mini USB cable
- Cellular Antenna (Optional)



SPECIFICATIONS

Tracking

Number of Channels	226-channel Vanguard Technology™ with Universal Tracking Channels
Signals	GPS: L1, L2, L2C GLONASS: L1, L2, L2C SBAS - QZSS: L1, L2C
Antenna Type	Fence Antenna™ Technology

Positioning Accuracy

RTK (L1+L2)	H: 10 mm + 1.0 ppm V: 15 mm + 1.0 ppm
Fast Static (L1+L2)	H: 3 mm + 0.5 ppm V: 5 mm + 0.5 ppm
DGPS	H: 0.4 m, V: 0.6 m
SBAS	H: 1.0 m, V: 1.5 m

Communication

RTK Broadcast	LongLink™ 300 m+ range, Up to 3 simultaneous rovers
I/O Communications	Bluetooth®, Serial, USB
Cellular	Integrated HSPA+ (Optional)
Dual Sim Card available	

Data and Memory

Memory	2GB internal
Data Update/Output Rate	Up to 10 Hz
Real Time Data Output	TPS, RTCM SC104 v 2.x, 3.x; CMR/CMR+
ASCII Output	NMEA 0183 version 2x and 3.0

Physical

Dimensions (w x d x h)	150 x 150 x 64 mm
Weight	850 g – Basic 925 g – Cellular
Status Display / Panel	MINTER
External Power Connector	Yes
Operation Time	Up to 20 hours

Environmental

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

For more specification information:
www.topconpositioning.eu

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 user interface has been optimized to provide both text and images to easily view data and enter information. 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.



TopNET^{live}

RTK Positioning Service

TopNET^{live} is a subscription based, real-time GNSS Reference Network delivering high quality, GNSS correction data to rovers used for surveying, construction, GIS mapping and agricultural applications. TopNET^{live} is the fastest growing RTK worldwide network. Visit www.topnetlive.com to view network coverage maps and join TopNET^{live}.



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