

## Dual-Frequency GNSS Receiver



- Vanguard Technology™
- 226 GNSS Channels
- Rugged, Magnesium Alloy Construction
- Integrated RTK and Static Receiver
- Fence Antenna™ Advanced Performance

# HiPer V Dual-Frequency GNSS Receiver

## Compact, cable-free solution with Vanguard Technology for all GNSS positioning applications.

In a continued commitment to improving the productivity of positioning professionals, Topcon enhances the HiPer family of products by adding Vanguard Technology to the HiPer V. In the early 2000's Topcon revolutionized GNSS receivers by integrating the design to be compact and light weight. Topcon continues the revolution with Vanguard Technology™.

Topcon raises the standard once again by adding Vanguard Technology's 226 channels and Fence Antenna™ into a versatile, configurable receiver, HiPer V. The additional channels and precision antenna element make RTK positioning faster and more productive than any other receiver on the market.

## Dual-Constellation Signal Tracking

Topcon's industry leading GPS+GLONASS dual-frequency signal tracking offers better performance than GPS only receivers. Urban canyons or woodlands are difficult locations for GNSS positioning. But with Topcon's dual-constellation solution you can work near tall obstructions and limited skyview.

## Internal Radio Configurations

The HiPer V can be configured with the radio and cellular modem that best fits your needs. You can choose from Digital UHF or Spread Spectrum radio. Further, you can choose from HSPA, CDMA, or no cellular module. Configure the system exactly for your region and needs. And if you start your HiPer V investment with static only receivers, they can later be upgraded to include radio and cellular modules at one of many Topcon repair facilities around the globe.

## Rugged and Waterproof

The HiPer V 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.



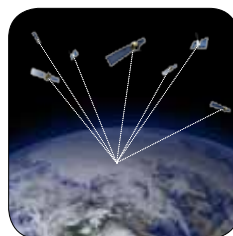
## Integrated Radio and Modem Choice

- Spread Spectrum Radio
- Digital UHF II Radio
- HSPA Cellular 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 oncoming traffic rather than looking for the word "Fixed".



## PRIMARY FEATURES



### Fence Antenna™ Technology

This superior GNSS antenna element is light-weight, rugged, and sensitive enough to track signals in environments where other receivers fail. The Fence Antenna™ captures satellite signals that are low strength due to the superior clarity of this antenna element. Obtain lock sooner, and track longer with Topcon's Fence Antenna™ technology.



### KIT COMPONENTS

#### System Components

- 2 HiPer V 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	226 Channels with Universal Tracking Technology
Tracked Signals	GPS L1 CA, L1/L2 P-code, L2C
	GLONASS L1/L2 CA, L1/L2 P-code
	SBAS WAAS, EGNOS, MSAS, QZSS

### Positioning Accuracy

Static	L1+L2	H: 3mm + 0.5ppm V: 5mm + 0.5ppm
	L1 only	H: 3mm + 0.8ppm V: 4mm + 1ppm
RTK, Kinematic	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 V receiver with battery
	-40°F to +149°F (-40°C to +65°C)
Battery	-4°F to +149°F (-20°C to +65°C)
	Cellular

### Physical

Enclosure	Magnesium alloy housing
Size	7.24" D x 3.74" H (184mm D x 95mm H)
Weight	HiPer V receiver 2.20 lb. to 2.82 lb. (1.0kg to 1.28kg)
Battery (BDC70)	7.23 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

For more specification information:  
[topconpositioning.com/hiper-v](http://topconpositioning.com/hiper-v)

## 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.



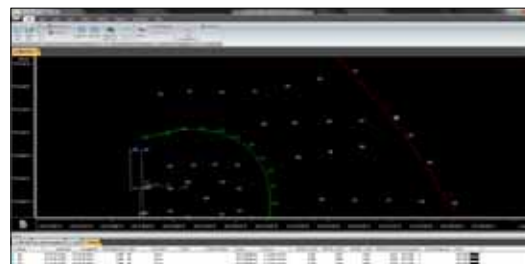
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### MAGNET Enterprise

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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