HiPer V

TOPCON

www.rusgeocom.ru

Dual-Frequency GNSS Receiver





- Vanguard Technology™
- Universal Tracking Technology
- Rugged, Magnesium Alloy Construction
- Integrated RTK and Static Receiver
- Fence Antenna™ Advanced Performance

HiPer V Dual-Frequency GNSS Receiver

www.rusgeocom.ru

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

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 with 226 channels, Universal Tracking Technology, and the Fence Antenna into the versatile and configurable HiPer V. Universal Tracking Technology is an advanced firmware process that allows each of the 226 channels to be assigned to any satellite signal.

GPS, GLONASS, and Galileo Signal Tracking

The HiPer V is capable of tracking GPS, GLONASS, and Galileo signals. The recent addition of Galileo E1 band of signals will provide better performance in difficult environments such as urban canyons and forested areas.

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. 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 service facilities around the globe.



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, GLONASS, Galileo

- USA based GPS satellites
- Russian based GLONASS satellites
- European based Galileo satellites



Housing Features

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

Rugged and Waterproof

The HiPer V is designed rugged enough to perform in a real jobsite. It is also waterproof IP67, which means it can be submersed into water. The ports, speaker and battery door are all completely sealed from dust and water.



Voice Alerts

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".



TOPCON

www.rusgeocom.ru

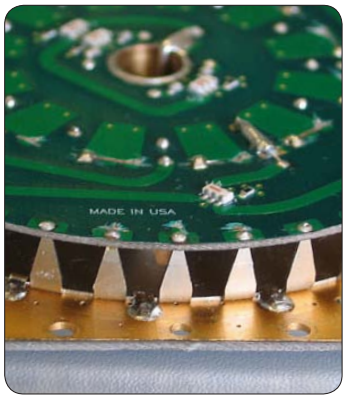
PRIMARY FEATURES

VANGUARD TECHNOLOGY™



Fence Antenna™ Technology

This superior GNSS antenna element is light-weight, rugged, and sensitive enough to track signals in environments where other receivers fail. Obtain lock sooner, and track longer with Fence Antenna™ technology.



KIT COMPONENTS BASE AND ROVER

System Components

- 2x HiPer V Receivers
- 4x Batteries, 2x Chargers and Cables
- Radio Antenna
- Carrying Case
- 10cm Spacer and 3m Tape Measure
- Tribrach and Adapter w/Optical Plummet



HiPer V Dual-Frequency GNSS Receiver

TOPCON

www.rusgeocom.ru

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
	Galileo	E1*
	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		6.56 ft. (2m) pole drop
Operating Temperature		
External Power		-40°F to +149°F (-40°C to +65°C)
Battery		-4°F to +149°F (-20°C to +65°C)
Cellular		-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 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

** Support for Galileo will be available via option file upgrade when the constellation is fully operational and ready for commercial use.*

For more specifications information:
www.topcon-positioning.eu

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.





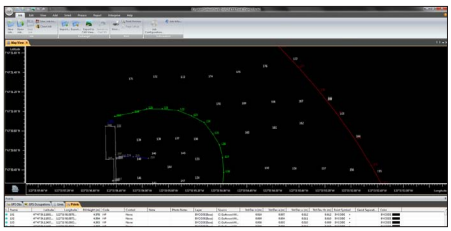
© 2013 Google Map Data

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.

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.



TOPCON

topcon.eu

Topcon Europe Positioning, B.V ▪ Essebaan 11
▪ 2908 LJ - Capelle a/d IJssel ▪ The Netherlands
(+31) 10 4585077

Specifications subject to change without notice. ©2013 Topcon Corporation All rights reserved. P/N: T722EN Rev. A TF

The *Bluetooth*® word mark and logos are registered trademarks owned by *Bluetooth* SIG, Inc. and any use of such marks by Topcon is under license. Other trademarks and trade names are those of their respective owners.

Your local Authorized Topcon dealer is: