

GNSS and Network Solutions ► HiPer VR



HiPer VR

With a compact, rugged design the HiPer VR is packed with the most advanced GNSS technology.

 **SEE TESTIMONIAL VIDEO**

 **Product Info**



Better things in smaller packages!

The HiPer VR^{*} is compact, light and packed with the most advanced GNSS technology in a design built to withstand the harshest field environments. Using Topcon's advanced GNSS chipset with Universal Tracking Channels Technology, the HiPer VR automatically tracks every satellite signal above – now and into the future.

All signals, all satellites and all constellations — in a compact, rugged design, with an integrated IMU and eCompass.

The HiPer VR is a complete solution and versatile in many ways. It can be used for static or kinematic GNSS post-processed surveys, as a network RTK rover with the FC-5000's internal 4G/LTE cellular modem, as a UHF/FH/Longlink jobsite RTK rover, and also in Topcon's patented Hybrid Positioning workflow.

Top features include:

- Universal tracking technology for all satellites and constellations (GPS, GLONASS, Galileo, Beidou, IRNSS, QZSS, SBAS) covering all modernized signals
- Field tested, field ready IP67 design
- Compact form factor ideal for Millimeter GPS and Hybrid Positioning
- Revolutionary 9-axis IMU and ultra-compact 3-axis eCompass
- Integrated 400 MHz UHF Tx/Rx Radio Modem

- Integrated License free 900 MHz Radio Modem, FH915 protocol

* Product might not be immediately available in all regions

⊕ Specifications

HiPer VR Specifications

GNSS Tracking

Number of Channels 226 with Topcon's patented Universal Tracking Channels™ technology.

Signals Tracked*

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GPS Signals: L1 C/A, L1C* L2C, L2P(Y), L5

GLONASS: L1 C/A, L1P, L2C/A, L2P, L3C*

Galileo: E1/E5a/E5b/Alt-BOC

BeiDou/BDS: B1, B2

IRNSS: L5

SBAS: WAAS, EGNOS, MSAS, GAGAN (L1/L5§)

L-band: TopNET Global D & C Corrections services

QZSS: L1 C/A, L1C, L1-SAIF, L2C, L5

*L1C when signal available.

**L3C when signal available.

***L5 when signal available.

Accuracy

Fast Static (L1+L2) H: 3 mm + 0.4 ppm V: 5 mm + 0.5 ppm

RTK (L1+L2) H: 5 mm + 0.5 ppm V: 10 mm + 0.8 ppm

Compensator Tilt Sensor* H: 1.3 mm/°Tilt; Tilt ≤ 10° H: 1.8 mm/°Tilt; Tilt > 10°

DGPS 0.25 m HRMS

*Maximum recommended angle for tilt compensation is 15°. **

Power and Electrical

Operation Time RX mode - 10hr TX mode 1W - 6hr

General

Radio 425-470 MHz UHF radio **Max Transmit Power:** 1W **Range:** 5-7 km typical; 15 km

Memory Internal Non-removable 8 GB SDHC

Physical and Environmental

Ingress Protection IP67

Operating Temperature -40°C to 65°C

Humidity 100%, condensing

Drop Test 1.0 m drop to concrete. 2.0 m pole drop to concrete.

Dimensions 150 x 100 x 150 mm (w x h x d)

Weight <1.15 kg

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For more information, and to locate a dealer closest to you, visit:

<https://www.topconpositioning.com/#dealerModal>

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