

HIPER VR VERSATILE GNSS RECEIVER





Better things in smaller packages

The HiPer VR is smaller and lighter, but don't let its small size fool you. It's not only packed with the most advanced GNSS technology, it is also built to withstand the harshest field environments. Built with a rugged housing – not weak plastic – it can take the punishment of the job site.

Using the Topcon advanced GNSS chipset with Universal Tracking Channels™ technology, the receiver automatically tracks each and every satellite signal above – now and into the future.

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

TILT[™] – Topcon Integrated Leveling Technology

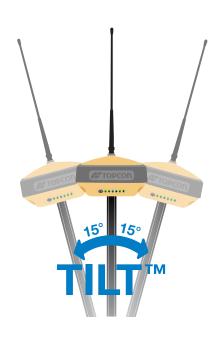
The HiPer VR incorporates a revolutionary 9-axis inertial measurement unit (IMU) and an ultra-compact 3-axis eCompass. This advanced technology compensates for mis-leveled field measurements out of plumb by as much as 15 degrees.

Awkward shots on steep slopes or hard to reach spots are now a breeze with TILT.

Complete, Cutting-Edge Performance

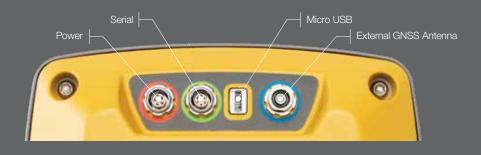
- Universal Tracking Channels[™] for all satellites, signals and constellations
- Field-tested, field-ready IP67 design
- Compact form factor ideal for Millimeter GPS and Hybrid Positioning[™]
- Revolutionary 9-axis IMU and ultra-compact 3-axis eCompass











GINOS ITACKII	ıξ
Channel Count	-

226 with Topcon's patented Universal Tracking Channels

technology.

Galileo

L-band

L1 C/A, L1C 1 L2C, L2P(Y), L5 GPS Signals L1C when signal available. L1 C/A, L1P, L2C/A, L2P, L3C 2 **GLONASS**

² L3C when signal available. E1/E5a/E5b/Alt-BOC

BeiDou/BDS B1. B2

IRNSS L5

SBAS WAAS, FGNOS, MSAS,

GAGAN (L1/L5 ³) 3. L5 when signal available. TopNET Global D & C

Corrections services QZSS L1 C/A, L1C, L1-SAIF, L2C, L5

Positioning Performance

Static/	H: 3 mm + 0.4 ppm
Fast Static	V: 5 mm + 0.5 ppm*
RTK	H: 5 mm + 0.5 ppm V: 10 mm + 0.8 ppm
RTK, TILT	H: 1.3 mm/°Tilt; Tilt ≤ 10°
Compensated	V: 1.8 mm/°Tilt; Tilt > 10°

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

DGPS 0.25 m HRMS

L-Band, D H: < 0.1 m (95%) Corrections V: < 0.2 m (95%) Service

Operational RX mode - 10hr TX mode 1W - 6hr

Use of external 12V battery is recommended when using HiPer VR with internal radio in transmit mode

425-470 MHz UHF radio Internal Radios

Max Transmit Power: 1W Range: 5-7 km typical; 15 km in optimal conditions.***

Memory Internal Non-removable 8 GB

Environmental Ingress Rating - IP67

Operating Temp -

-40°C to 70°C Humidity - 100%, condensing

Drop and Topple -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)

<1.15 kg Weight



Integrated radio and modem options

400 MHz UHF TX/RX Radio



L Band Ready Technology

L Band ready to receive advanced GNSS corrections data set globally¹



Highly configurable

Designed to grow with you, unique electronic option files empower you to activate available features instantly.



Future proof

The Topcon full wave antenna tracks all GNSS signals currently available and is designed to track the constellations and signals of tomorrow.

- Under nominal observing conditions and strict processing methods, including use of dual frequency GPS, precise ephemerides, calm ionospheric conditions, approved antenna calibration, unobstructed visibility above 10 degrees and an observation duration of at least 3 hours (dependent on baseline length). ¹ Contact your Topcon representative regarding availability.
- ** Subject to successful TILT calibration and operating environment free of magnetic disturbances.
- *** Varies with terrain and operating conditions.

TOPCON

For more information: www.topconpositioning.com/hiper-vr

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