

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 denvironments. 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 ded 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, Ind-ready IP67 design
- Compact form factor ideal for Millimeter GPS and Hybrid Positioning™
- Revolutionary 9-axis IMU and ultra-compact 3-axis eCompass









GNSS Tracking

Channel Count 226 with Topcon's patented Universal Tracking Channels

technology.

Signal

0788

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

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

E1/E5a/E5b/Alt-BOC Galileo

BeiDou/BDS B1, B2

IRNSS L5

SBAS WAAS, EGNOS, MSAS, GAGAN (L1/L5*)

*L5 when signal available.
TopNET Global D & C L-band

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

Positioning Performance

H: 3 mm + 0.4 ppm V: 5 mm + 0.5 ppm Static/ Fast Static

RTK H: 5 mm + 0.5 ppm

H: 1.3 mm/°Tilt; Tilt ≤ 10° H: 1.8 mm/°Tilt; Tilt > 10° RTK, TILT Compensated

Maximum recommended angle for tilt compensation is 15° Subject to successful TILT calibration & operating environment free of magnetic disturbances

DGPS 0.25 m HRMS

H: < 0.1 m (95%) V: < 0.2 m (95%)

L-Band, D Corrections Service

Environmental

Weight

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.

Internal Radios

425-470 MHz UHF radio Max Transmit Power: 1W

Range: 5-7 km typical; 15 km in optimal conditions

Internal Non-removable 8 GB SDHC Memory

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

150 x 100 x 150 mm

Dimensions (w x h x d)

<1.15 kg



Integrated radio and modem options

- · 400 MHz UHF TX/RX Radio
- · License-free 900 MHz radio, FH915 protocol



L Band Ready Technology

· L Band ready to receive advanced GNSS corrections data set globally



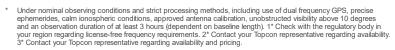
Highly con gurable

Designed to grow with you, unique electronic option les 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.



- ** Subject to successful TILT calibration and operating environment free of magnetic disturbances.

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

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