

GNSS versatile receiver

Hiper VR



Photos may include optional equipment.

Advanced and total efficiency

- Universal Tracking Channels™ for all satellites, signals, and constellations.
- Tested and field ready IP67 design.
- Ideal and compact form for mmGPS and Hybrid Positioning™.
- Revolutionary 9-axis IMU and ultra-compact 3-axis eCompass.

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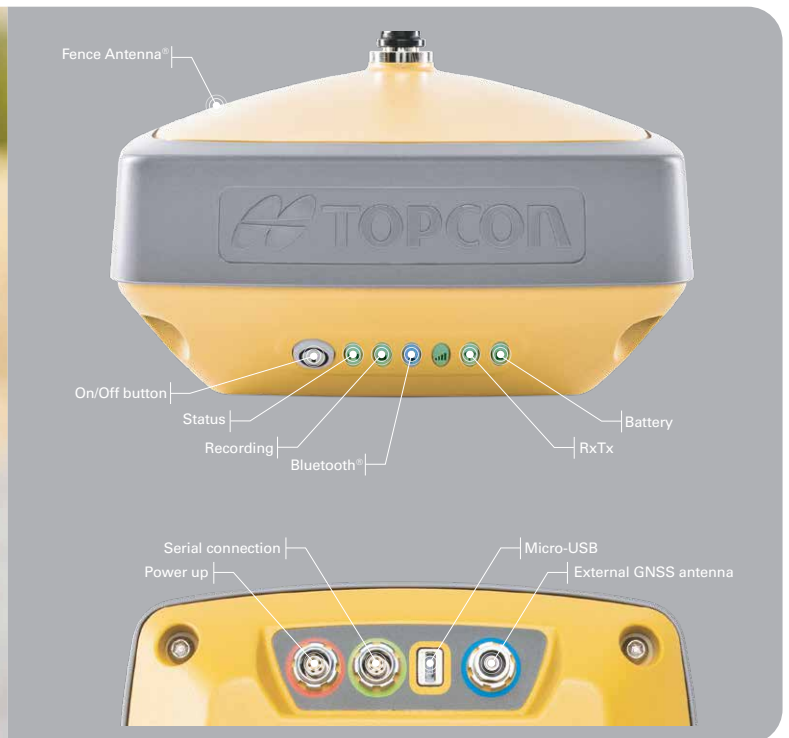
"Best things come in small packages"

- HiPer VR is smaller and lighter, but do not let it fool you. It not only incorporates the most advanced GNSS technology but was also designed to stand the most hostile environments. Built with a robust case (no unstable plastic) it can stand job site conditions.
- Through the advanced GNSS chipset with Universal Tracking Channels™ technology, this receiver tracks automatically every satellite signal, from now on.
- All signals, satellites, and constellations, all in a robust and compact design, with built-in IMU and eCompass.



TILT™: Topcon built-in levelling technology

- HiPer VR adds a 9-axis revolutionary inertial measurement unit (IMU) and an ultra-compact 3-axis eCompass. This advanced technology compensates uneven measurements on off plumb surfaces up to 15 degrees.
- Complex shots on steep grades or places hard to reach are very simple now due to TILT technology.



GNSS tracking	
No. of channels	226 with Universal Tracking Channels™ technology, Topcon patented
Signal	
GPS signals	L1 C/A, L1C † L2C, L2P(Y), L5 † L1C if signal is present.
GLONASS	L1 C/A, L1P, L2C/A, L2P, L3C † † L3C if signal is present.
Galileo	E1/E5a/E5b/Alt-BOC
BeiDou/BDS	B1, B2
IRNSS	L5
SBAS	WAAS, EGNOS, MSAS, GAGAN (L1/L5 [‡]) [‡] L5 if signal is present.
Banda L	Correction services TopNET Global D & C
OZSS	L1 C/A, L1C, L1-SAIF, L2C, L5
Positioning performance	
Static/ Static fast	H: 3 mm + 0.4 ppm V: 5 mm + 0.5 ppm*
RTK	H: 5 mm + 0.5 ppm V: 10 mm + 0.8 ppm
RTK, compensation TILT	H: 1.3 mm/tilt angle; Tilt ≤ 10° V: 1.8 mm/tilt angle; Tilt > 10° Maximum recommended angle for tilt compensation: 15°***
DGPS	0.25 m HRMS
L-band, D correction services	H: < 0.1 m (95%) V: < 0.2 m (95%)
Operating time	RX mode: 10 h TX mode 1 W: 6 h The use of a 12 V external battery is recommended when using HiPer VR with internal radio in transmission mode
Internal radios	425-470 MHz UHF radio Max. transmission power: 1 W Scope: 5-7 km, typical; 15 km in optimum conditions***
Storage	Internal non-extractable 8 GB SDHC
Environmental data	Protection standard: IP67 Operating temperature: -40 °C to 70 °C Humidity: 100%, condensation Fall: Fall from a 1.0 m to concrete Pulling fall from 2.0 m to concrete
Dimensions	150 x 100 x 150 mm (WxHxL)
Weight	< 1.15 kg



Built-in radio and modem options

400 MHz TX/RX UHF radio.



L-Band Ready technology

L Band Ready to receive advanced GNSS data corrections from any location¹.



Extremely configurable

Designed to adapt to your needs. Exclusive option files will allow you to activate available functions instantaneously.



Facing the future head-on

Multi-directional Topcon antenna tracks all available GNSS signals and is designed to track future constellations and signals.

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