

Topcon HiPer XR

Precision you can always trust



The HiPer XR GNSS receiver boosts performance, helping you stay ahead even in the toughest conditions

Learn more at topconpositioning.com

 **TOPCON**

For Work That Matters™



Elevate Accuracy, Ignite Efficiency Gain Your Edge Today!

The HiPer XR delivers precision and efficiency, tackling your challenges with RTK accuracy and Dynamic TILT Compensation technology for effortless measurements even in difficult conditions. Its anti-jamming capabilities ensure reliable performance, while the lightweight, rugged design withstands harsh environments. Offering versatile connectivity and long battery life at an affordable price, the HiPer XR is the ultimate tool for surveying and construction professionals seeking accuracy, reliability, and adaptability.

The HiPer XR's lightweight design ensures effortless portability, allowing you to work efficiently across any job sites. Its multi-constellation support delivers improved accuracy by tracking multiple satellite systems simultaneously, ensuring reliable data even in challenging conditions. With fast charging that reaches 50% in just 30 minutes, downtime is minimized. These features work together to give you the efficiency and reliability you need superior efficiency and reliability, making tough tasks simpler and smarter.

- » Calibration-free and immune to magnetic interference tilt compensation up to 60°
- » GNSS interference monitoring and mitigation technology for anti-jamming and anti-spoofing
- » Improved RTK performance for more reliable results
- » Universal USB-C connectivity and battery charging
- » Integrated web user interface for easy access and control

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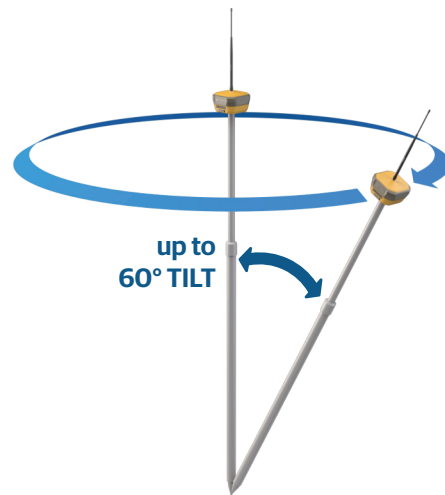
- 1 Radio antenna
- 2 GNSS drum antenna
- 3 Shock absorbing bumper
- 4 Power button
- 5 Minter (status indication)
- 6 USB-C port

Model without internal radio:



TILT - Topcon Integrated Leveling Technology

The HiPer XR features innovative TILT technology, which enables accurate pole-tip measurements without requiring calibration and is resistant to magnetic interference. Its advanced anti-jamming capabilities ensure reliable signal performance, even in demanding environments. Designed to be both durable and lightweight (<1 kg), it can endure tough conditions while remaining easy to handle. With support for multiple constellations, flexible connectivity options, and a cost-effective design, the HiPer XR is a practical and adaptable solution for modern surveying needs.





A GNSS Receiver you can trust

The HiPer XR GNSS receiver delivers precise performance with TILT technology for streamlined workflows, even in interference-prone environments. Its durable design, anti-interference features, and user-friendly interface maximize productivity and minimize downtime.

Backed By Experts

Expert support is available to assist with troubleshooting, guidance, and optimizing your experience. Whether in need of quick advice or detailed help, our team is here to make sure you can always count on your HiPer XR.

Discover the HiPer XR today

The HiPer XR is built to streamline your workflow with precise and efficient GNSS technology. Built to handle complex tasks, it delivers accurate results to help you work smarter and boost productivity. Ready to see what the XR can do for you? Reach out to your local dealer or visit our website to learn more!



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Tracking

Signals	GPS: L1 C/A, L1P, L2P, L2C, L5 GLONASS: L1 C/A, L2P, L2C/A, L3 Galileo: E1, E5a, E5b, E5 AltBOC, E6 BeiDou: B1, B1C, B2, B2a, B2b, B3 IRNSS (NavIC): L5 SBAS: L1, L5 QZSS: L1C/A, L1 C/B, L2C, L5
Channels	448 hardware channels for simultaneous tracking of all visible supported satellite signals
TILT	Topcon Integrated Leveling Technology™ Calibration-free and magnetically immune IMU
Signal integrity	GNSS interference monitoring and mitigation technology for anti-jamming and anti-spoofing Ionospheric scintillation monitoring and mitigation Multipath estimation and mitigation

Positioning performance

Precision Static	H: 3 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm
Static/Fast Static*	H: 3 mm + 0.5 ppm V: 5 mm + 0.8 ppm
RTK**	H: 5 mm + 0.5 ppm V: 10 mm + 0.8
RTK, TILT Compensated	RTK ¹ + 5 mm + 0.5 mm / ° tilt Compensation up to 60°

Communications

Internal Radio (Optional)	403-473 MHz UHF 902-928 MHz spread spectrum Max Transmit Power: 1 W
Cellular	Integrated 4G/LTE cellular modem
LongLink™	Up to 300 m range, with clear line of sight Supports up to three (3) simultaneous rover connections
Bluetooth®	v5.3 BR/EDR and low energy long range
Wi-Fi	802.11a/b/g/n/ax 2.400 to 2.500 GHz
Ports	USB-C

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Data format and memory

Output formats	RTCM 3.1, RTCM 3.2, NMEA
Input formats	RTCM 2.x, RTCM 3.x, CMR, CMR+, TPS
Internal Memory	20 GB
Update Rate	Up to 10Hz

Power

External Power Supply	USB Type-C Power Delivery 3.0, 5-20 VDC 60 W maximum
Battery	Two internal, non-removable, Lithium-Ion battery packs each battery pack rated at 7.2 V, 3.5 Ah
Operating time	15 hours - STATIC (1 Hz data logging) 7 hours - RTK BASE STATION (1 W UHF/FH) 10.5 to 13 hours*** - RTK ROVER (UHF/FH, internal cell or LongLink)

Hardware

Dimensions (L x W x H)	13.9 x 13.9 x 9.7 cm (5.47 x 5.47 x 3.82 in.)
Weight	995 g (2.19 lb.)
Ingress Protection	Dust and water IP67
Vibration	MIL-STD 810G
Drop	Survive 2 m pole drop on concrete surface
Operating Temperature	-40°C to 65°C (-40°F to 149°F)
Humidity	100%

* 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).

** Baselines <40 km

*** Operating time depends on the communication method

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