

Premier, Multi-Purpose Receiver

HiPer HR



Better things in smaller packages

The HiPer HR is smaller and lighter, but don't let its small size fool you. It is not only packed with the advanced GNSS technology, it also built to withstand the harsh field environments with a rugged magnesium-alloy housing.

TILT™

The HiPer HR incorporates a revolutionary 9-axis Inertial Measuring Unit (IMU) and an ultra-compact 3-axis eCompass. Topcon Integrated Leveling Technology compensates for mis-leveled field measurements out of plumb by as much as 15°**.

- Compact, lightweight, rugged design
- Field tested, field ready IP67 design
- Compact form factor ideal for Hybrid Positioning
- Revolutionary 9-axis IMU and ultra-compact 3-axis eCompass

* 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).

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

*** Varies with terrain and operating conditions.

(UHF radio only)

**** Please contact your local dealer for more information regarding available offerings in your area

| GNSS TECHNOLOGIES (SIGNAL TRACKING) | |
|-------------------------------------|---|
| GPS | L1 C/A, L1C, L1P(Y), L2P(Y), L2C, L5 |
| GLONASS | L1 C/A, L1P, L2C/A, L2P, L3C |
| Galileo | E1, E5a, E5b, E5 AltBOC, E6 |
| BeiDou | B1, B2, B3 |
| IRNSS (NavIC) | SPS-L5 |
| SBAS | WAAS/EGNOS/MSAS |
| QZSS | L1 C/A, L1C, L2C, L5, L6 |
| L-band | Yes |
| Universal Tracking Channels™ | 452 GNSS channels Vanguard Technology™ with Universal Tracking Channels™; 4 reserved for L-band |
| TILT™ | Topcon Integrated Leveling Technology™ |
| GNSS Antenna | Integrated Full wave Fence Antenna™ technology |
| POSITIONING PERFORMANCE | |
| Precision Static | H: 3 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm |
| Static/Fast Static* | H: 3 mm + 0.3 ppm V: 5 mm + 0.5 ppm |
| RTK | H: 5 mm + 0.5 ppm V: 10 mm + 0.8 ppm |
| Code Differential GNSS | H: <0.4 m V: <0.6 m |
| RTK, TILT Compensated | H: 1.3 mm/°Tilt; Tilt ≤ 10° H: 1.8 mm/°Tilt; Tilt > 10° |
| COMMUNICATIONS | |
| Internal Radio (Optional) | 405-470 MHz UHF or FH915 spread spectrum Max Transmit Power: 1W Range: 5-7 km typical; 15 km in optimal conditions.*** |
| Cellular | 4G (subject to regional offering)**** |
| LongLink™ Bluetooth® | Up to 300 m / 1000 ft. |
| Wi-Fi | Yes |
| Bluetooth® | Yes |
| Connectors | 1 Power, 1 Serial, 1 USB 1 external GNSS antenna (for variants without 4G cellular) 1 external cellular antenna (for 4G cellular variants only) |
| DATA FORMAT AND MEMORY | |
| Data Output | TPS, RTCM, CMR/CMR+, NMEA, BINEX |
| Internal Memory | 8 GB |
| Update Rate | Up to 20 Hz |
| POWER | |
| External Power Supply | 9.0 – 28.0 V DC |
| Battery | Internal: Li-ion 5,200 mAh, 3.7 V External: Li-ion 2,900 mAh, 7.2 V (Hot swappable) |
| Operating time with radio | Up to 9 hours with included batteries. (Refer to the operator's manual for more information) |
| HARDWARE | |
| Dimensions (L x W x H) | 11.5 x 11.5 x 13.2 cm (4.53 x 4.53 x 5.20 in.) |
| Weight | 1.172 kg (2.58 lb.) with batteries |
| Ingress Protection | Dust and water IP67 |
| Vibration | MIL-STD 810G |
| Drop test | 2m (6.56 ft.) pole drop on concrete surface |
| Operating Temperature | -40° C to 65° C (-40° F to 149° F) |
| Humidity | 100% |

Specifications subject to change without notice.

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