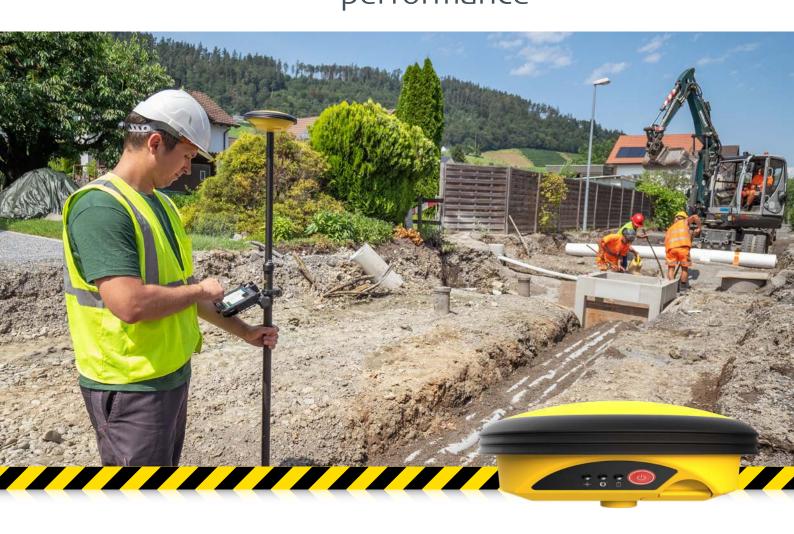
Leica iCON gps 30Access the iCON GNSS performance



LEICA iCON gps 30 – Compact and trustworthy GNSS RTK rover for construction

- Entry-point into Leica iCON GNSS performance:
 Easy to use and equipped with the construction tailored
 Leica iCON site field software, the iCON gps 30 facilitates
 your entry into the Leica iCON GNSS portfolio.
- Lightest pole weight: The light, compact and balanced design makes it comfortable to use and carry in the field.
- Reliable and accurate measurement results: With the highest level of position reliability in its class, the iCON gps 30 delivers accurate results and increases productivity.

Take the first step into Leica iCON construction workflows with Leica Geosystems' entry-level GNSS RTK rover. The iCON gps 30 is designed to assist construction companies move forward from traditional, to modern digital stakeout and measurement methods. Experience faster workflows, with accurate results and higher efficiency in construction projects, such as utility or road construction. Using advanced RTK technologies the rover delivers consistently accurate and reliable positions. Integrated into the well-established and construction tailored iCON site field software, the iCON gps 30 speaks the language of construction site professionals.



leica-geosystems.com













Leica iCON gps 30



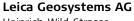
GNSS PERFORMANCE

| GNSS Technology | Leica RTKplus | Adaptive on-the-fly satellite selection |
|---|--|---|
| Leica SmartCheck | Continuous check of RTK solution | Reliability 99.95% |
| Signal tracking | SmartTrack | GPS (L1, L2, L2C, L5), Glonass (L1, L2, L3¹), BeiDou (B1, B2, B3¹), Galileo (E1, E5a, E5b, Alt-BOC, E6¹) |
| Number of channels | | 320 hardware channels |
| MEASUREMENT PERFORMANCE & ACCU | RACY ² | |
| Time for initialisation | | Typically 6 s |
| Real-time kinematic (Compliant to ISO17123-8 standard) | RTK, Multifrequency | Hz 10 mm + 1 ppm / V 20 mm + 1 ppm |
| Code differential | DGPS / RTCM | Typically 25 cm |
| COMMUNICATIONS | | |
| Communication ports | Lemo Bluetooth® | USB and RS232 serial Bluetooth® 4.1 class 1 & sealed and protected 8-pin Lemo combined USB / Serial232 port |
| Communication protocols | RTK data protocols Network RTK | Leica, Leica4G, CMR, CMR+, RTCM 2.2, 2.3, 3.0, 3.1, 3.2 MSM VRS, FKP, iMAX, MAC (RTCM SC104) |
| External data links | | UMTS / LTE / CDMA phone modem |
| GENERAL | | |
| Field software and controller | Leica iCON site | Leica iCON CC70 / CC80 field controller |
| User interface | Buttons and LEDs | On / Off button, 3 status LEDs |
| Power management | Internal power supply External power supply Operation time ³ | Exchangeable Li-Ion battery (2.6 Ah / 7.4 V) Nominal 12 V DC, range 10.5 - 28 V DC 8 h GNSS 7 h receiving RTK data with CC70 modem |
| Weight and dimensions | Weight Diameter x Height | 0.7 kg / 2.5 kg standard RTK rover setup on pole 186 mm x 71 mm |
| Environmental | Temperature Drop Proof against water, sand and dust Vibration Humidity Functional shock | -40 to 65°C operating, -40 to 80°C storage Withstands topple over from a 2 m survey pole onto hard surfaces IP66/IP68 (IEC60529 / MIL STD 810G CHG-1 510.6I / MIL STD 810G CHG-1 506.6 II / MIL STD 810 G CHG-1 512.6 I) Withstands vibration (IS09022-36-05 / MIL STD 810G 514.6 Cat.24) 95% (IS09022-13-06 / IS09022-12-04 / MIL STD 810G CHG-1 507.6 II) 40 g / 15 to 23 msec (MIL STD 810G 516.6 I) |
| | | |

| SUPPORTED GNSS SYSTEMS | | |
|---|-----------------|--|
| Multi frequency | ✓ | |
| GPS / GLONASS / Galileo / BeiDou | √ /·/·/· | |
| RTK PERFORMANCE | | |
| DGPS / RTCM, RTK Unlimited, Network RTK | ✓ | |
| POSITION UPDATE & DATA RECORDING | | |
| 5 Hz positioning | ✓ | |
| ADDITIONAL FEATURES ⁴ | | |
| UMTS / CDMA phone modem | • | |

^{✓ =} Standard • = optional

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 $^{^{\}mathrm{1}}$ Glonass L3, BeiDou B3 and Galileo E6 will be provided through future firmware

upgrade.

Measurement precision, accuracy, reliability and time for initialisation are dependent upon various factors including number of satellites, observation time, atmospheric conditions, multipath etc. Figures quoted assume normal to favourable conditions.

A full BeiDou and Galileo constellation will further increase measurement performance and accuracy.

Might vary with temperature, age of battery, transmit power of data link device.

Depending on the used iCON field controller.