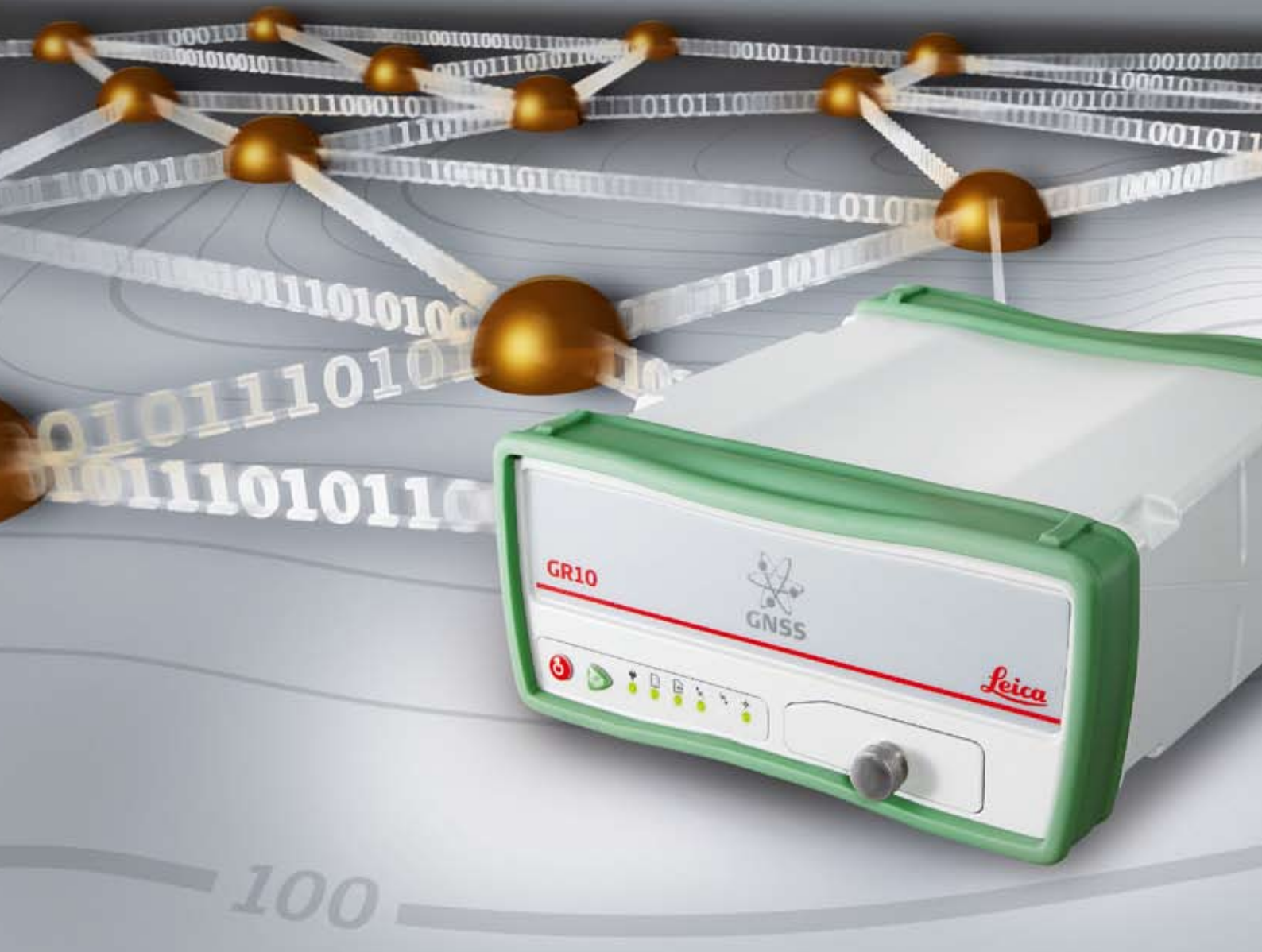
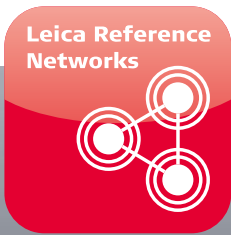


Leica GR10

Plug & Play

GNSS Reference Station



- when it has to be **right**

Leica
Geosystems

Leica GR10 GNSS Receiver Streamlined

Designed for a wide variety of GNSS Reference Station applications, the Leica GR10 offers new levels of simplicity, reliability and performance. With a focus on ease of use and efficiency, the GR10 helps streamline day to day operation and administration.

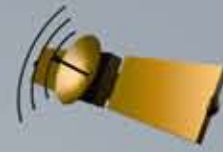
The GR10 provides excellent low noise code and phase data with logging and streaming rates up to 50 Hz. The powerful onboard RefWorx software features flexible data handling and communication, ensuring high performance and secure long term operation.



SmartTrack+

The GR10 is able to simultaneously observe up to 60 satellites for all in view tracking. The GR10 supports parallel tracking of multiple signals per satellite including

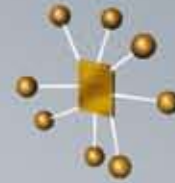
- GPS L1/L2P/L2C/L5
- GLONASS L1/L2
- Galileo E1/E5a/E5b/Alt-BOC



Up to 60 tracked satellites

Smart Logging

Create up to 10 parallel logging sessions using MDB, RINEX and Hatanaka, including zip compression and data rates up to 50 Hz. Supports removable SD card based storage up to 32 GB and FTP push to multiple locations.



Up to 10 parallel logging sessions

Smart Clean-up

Prioritized clean up of data allows full usage of the available storage space and ensures the most important data is preserved in case capacity is reached.



Storage optimization

Smart Streaming

Up to 20 parallel data streams are available, each supporting multiple user connections. Streaming rates up to 50 Hz can be configured and a wide range of RTK and raw data formats are supported.



Up to 20 parallel data streams



Communication Module Slot

Ruggedized Ethernet

External Oscillator

Leica GR10 GNSS Receiver

Straightforward

The intelligent RefWorx software has an intuitive and straightforward workflow so that status and configuration can be checked and updated easily. Simply plug the GR10 into your network and start working – no pre-configuration is needed!

All status and configuration options are available via the brand new web interface. Should you need assistance, tool tips, hints and built-in comprehensive online help are only a click away.



Easy installation

The GR10 is designed for straightforward installation and offers various mounting options including IT rack, wall mount, cabinet, tripod and stacking. The low power consumption and dual power input ensure low demand on the power supply infrastructure.

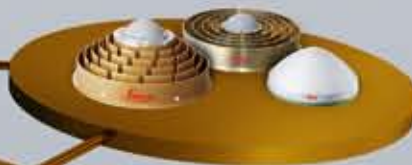
Integrated Solution

The GR10 is fully integrated into the Leica Reference Network Solution. It works seamlessly with Leica GNSS Spider, SpiderWeb and SpiderQC.

Software



Antennas



Receivers



Receiver hostname	GR1700015
IP settings	
Obtain an IP address automatically	<input checked="" type="checkbox"/>
IP address	192.168.1.16
Subnet mask	255.255.254.0
Default gateway	192.168.1.1
DNS settings	
Preferred DNS server	194.11.92.70
Alternative DNS server	194.11.92.70

	<input checked="" type="checkbox"/>	100 %
	<input checked="" type="checkbox"/>	30.89 GB (97.00%) free
	<input checked="" type="checkbox"/>	4 active data stream(s)
	<input checked="" type="checkbox"/>	1 active log session(s)
		2d 09h 21min

Contents Index Search

Type in the word(s) to search for

RIHEX

Highlight search results

- Configure a RIHEX logging session step-by-step
- Configure coordinates and site name step-by-step
- Directory Structure of the Memory Device
- External Devices: Overview
- Getting started: Overview
- GNSS management: Logging sessions
- GNSS management: Overview
- GNSS management: Site name and coordinates

Easy setup

Plug and play setup using a unique receiver hostname means no pre-configuration of IP address is needed. Simply connect to the Local Area Network (LAN) or the USB port on your PC and start working!

Streamlined workflow

The state-of-the-art web interface makes configuration easier than ever, reducing time and training requirements. Key status information including the unique event log is available at a glance on every page.

Integrated help

Comprehensive online help, tool tips and multiple languages make the receiver easy to manage. In case assistance is required, the support tool will collect all the necessary system information and send it directly to our highly trained support team.



Leica GR10 GNSS Receiver

Secure

Featuring a strong security concept, robust software design and built in tools for backup, restore and system monitoring, the GR10 offers reliable and uninterrupted operation.



Designed for high security

The viewer/manager/administrator user levels and web interface restrictions together with HTTPs and SSL encryption prevent unauthorized access to the receiver. The integrated firewall and IP address filtering provide additional layers of security.



High reliability

An integrated watchdog service ensures quality of service and maximises uptime, giving you extra peace of mind.



Backup and Restore

The system backup and restore feature protects against accidental changes in settings and allows for easy copy and paste of configuration from one receiver to another.



Integrated messaging

The detailed event log and onboard email messaging service keep the user fully up to date with the operation of the receiver.



With Active Assist, Leica Geosystems is redefining customer support to guarantee your satisfaction.

Active Assist is an online support service. Through a secure web service you can request a trained support technician to access the receiver and diagnose issues and perform trouble-shooting. Active Assist works even if the receiver is behind a firewall, ensuring quick and comprehensive support.



Technical Specifications

Leica GR10	
GNSS technology	<p>Leica patented SmartTrack+ technology:</p> <ul style="list-style-type: none"> ■ Very low noise GNSS carrier phase measurements with < 0.5 mm precision ■ High precision pulse aperture multipath correlator for pseudorange measurements ■ Excellent low elevation tracking ■ Fast acquisition time ■ Jamming resistant
GNSS Signals	<p>120 channels. Flexible configuration with up to 60 Satellites tracked including:</p> <ul style="list-style-type: none"> ■ GPS: L1, L2, L2C, L5 ■ GLONASS: L1, L2 ■ Galileo (Test): GIOVE-A, GIOVE-B ■ Galileo: E1, E5a, E5b, E5a+b (Alt-BOC) ■ Compass¹ ■ SBAS: WAAS, EGNOS, GAGAN, MSAS <p>¹ Test signals have been tracked in a test environment. As changes in the signal structure may still occur, Leica Geosystems cannot guarantee full Compass compatibility.</p>
GNSS measurements	<p>Fully independent code and phase measurements of all frequencies</p> <ul style="list-style-type: none"> ■ GPS: carrier phase full wave length, Code (C/A, P, C Code) ■ GLONASS: carrier phase full wave length, Code (C/A, P narrow Code) ■ Galileo: carrier phase full wave length, Code
Web & FTP Services	<p>Full control and configuration of the receiver over a web browser through Ethernet or USB. Secure access using HTTPs, SSL certificates, access management and port blocking. FTP Server and FTP Client (push), Email notification</p>
Optional control software	<p>Leica GNSS Spider. For managing single stations and reference networks.</p>
Data Logging	<p>Removable SD card up to 32 GB. 10 parallel logging sessions. Data rates up to 50 Hz. Supports RINEX, Hatanaka and Leica MDB formats including Zip compression.</p>
Data Streaming	<p>Up to 20 parallel data streams with multiple connections. Data rates up to 50 Hz. Supports Leica, Leica 4G, CMR, CMR+, RTCM v2.1/2.2/2.3/3.0/3.1, BINEX, NMEA 0183 V 2.2.0 and proprietary formats via serial, USB and TCP/IP. Supports Ntrip.</p>
Communication Slot	<p>Exchangeable Radio/GSM/GPRS/UMTS devices supported.</p>
Ports and Connectors	<p>1 x ruggedized RJ45 Ethernet 1 x serial RS232 Lemo 1 x USB client (for connection to a PC or tablet) 1 x external oscillator 1 x UART serial & USB (for removable internal communication devices)</p>
Buttons	<p>ON/OFF button and Function button</p>
Status indicators	<p>6 LED indicators for power, logging, memory, RT out, RT in, position</p>
Power input and management	<p>Nominal 12 V DC, range 10.5 – 28 V DC. Two external power inputs.</p>
Power consumption	<p>3.5 W typically, 24 V@150 mA</p>
Temperature range	<p>Compliance with ISO9022-10-08, ISO9022-11-special, MIL STD 810F – 502.4-II, MIL STD 810F – 501.4-II</p>
Operating	<p>-40° C to +65° C</p>
Storage	<p>-40° C to +80° C</p>
Humidity	<p>100%, compliance with ISO9022-13-06, ISO9022-12-04 and MIL STD 810F – 507.4-I</p>
Weight	<p>1.67 kg</p>
Dimensions	<p>220 mm x 200 mm x 94 mm (including removable rubber bumpers)</p>
Proof against: water, sand and dust	<p>IP67 according IEC60529 and MIL STD 810F – 506.4-I, MIL STD 810F – 510.4-I and MIL STD 810F – 512.4-I</p> <p>Protected against blowing rain, sand and dust and temporary submersion into water (max. depth 1 m)</p>
Vibration	<p>Withstands strong vibration during operating, compliance with ISO9022-36-08 and MIL STD 810F – 514.5-Cat.24</p>



Instant access to product information, updates and knowledge

Active Customer Care provides a range of support and maintenance services. With myWorld you can update firmware & software, purchase software options, access service and support status & history and conduct online training at your convenience.

myWorld.leica-geosystems.com



Whether providing corrections from just a single reference station, or an extensive range of services from a nationwide RTK network – innovative reference station solutions from Leica Geosystems offer tailor-made yet scalable systems, designed for minimum operator interaction whilst providing maximum user benefit. In full compliance with international standards, Leica Geosystems' proven and reliable solutions are based on the latest technology.

Precision, value, and service from Leica Geosystems.

When it has to be right.



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Total Quality Management – our commitment to total customer satisfaction.

Ask your local Leica Geosystems dealer for more information about our TQM program.



Receivers:
Leica GRX1200+ Series
Leica GMX902 Series
Leica GMX901



Antennas:
Leica AR25
Leica AR10



Software:
Leica GNSS Spider
Leica SpiderWeb
Leica SpiderQC



Services:
Leica CrossCheck

ACTIVE customer care

Leica Geosystems' customers benefit from service and support that spans time zones and geography. Our Active Customer Care program has packages to suit your needs, whether you use our simplest distance measuring device or the most sophisticated integrated solution.