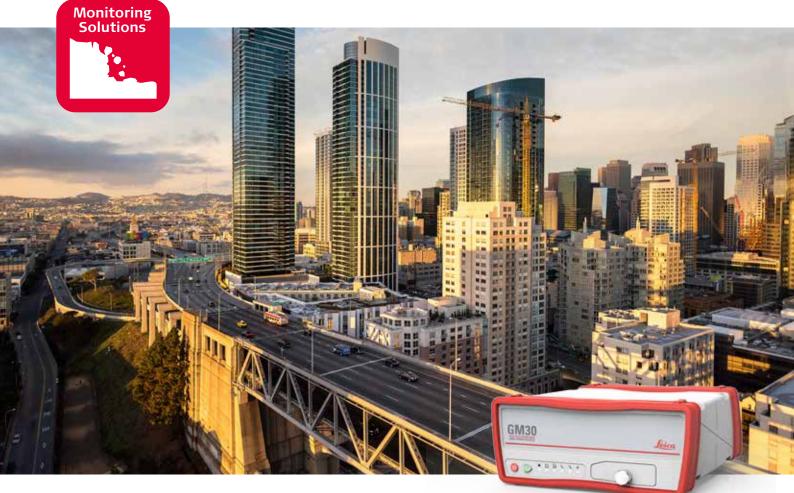
# **Leica GM30** Ready for today and tomorrow





## All-in-one-GNSS monitoring receiver

The GM30 is designed for continuous operation and a wide range of monitoring scenarios. It is packed with full feature onboard software including Site Monitor, Leica VADASE, data logging and FTP push. With low energy consumption, highly redundant communication capabilities and designed to withstand challenging environment conditions, this rugged receiver is ready for any challenge.



### High-end GNSS technology

Exceeding GNSS signal needs today and tomorrow by supplying 555 GNSS channels, the GM30 monitoring receiver is future-proof, reliably delivering the highest quality results 24/7. With the support of all available and future GNSS signals, specialists are guaranteed timely and accurate information on the status of sensitive structures to detect and react to potential problems.

## Versatile and customisable

The GM30 is ready to be customised for any monitoring scenario, from long-term static to dynamic high-frequency monitoring. It is easily combined with a variety of external devices and seamlessly connected with Leica Spider and Leica GeoMoS. In addition, the onboard data logging provides a direct connection with the Leica CrossCheck service.





- when it has to be right

## Leica GM30

#### **GNSS TECHNOLOGY**

( f fr G G G A S C ND ACCURACY <sup>4</sup> H ositioning modes: aseline (< 30 km): Network RTK: network RTK: Network RTK: PSG	PAC) multipath mitigation techno ast acquisition time and jamming PS (L1, L2P(Y), L2C, L5); GLONAS ialileo (E1, E5a, E5b, AltBOC); Bei yailable as GPS+GLONASS L1 only 55 universal tracking channels iold start: <40s / hot start: <30s lz: 0.25 m + 1 ppm / V: 0.5 m + Reference Station (smoothed) Hz: 6 mm +1 ppm V: 10 mm +1 ppm V: 10 mm +1 ppm V: 10 mm +1 ppm	SS (L1, L2P, L2C) <sup>2</sup> ; Dou (B1, B2) <sup>3</sup> ; GONOS, GAGAN, MSAS) y receiver. (typical) / signal reacquisition: < 1s (typical) / signal reacquisition: < 1s Monitoring (instantaneous) Hz: 8 mm +1 ppm V: 15 mm +1 ppm Hz: 8 mm +1 ppm V: 15 mm +1 ppm	Excellent low elevation tracking, Network RTK (instantaneous) Hz: 8 mm +1 ppm V: 15 mm +1 ppm Hz: 8 mm +1 ppm
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engine) V Tr IUNICATIONS P Si G	V: 10 mm +1 ppm elocity accuracy: Hz: 0.003	V: 15 mm +1 ppm	
۳ IUNICATIONS Si G	elocity accuracy: Hz: 0.003 ypical velocity derived displaceme	m/s 1/10 005 m/s	V: 15 mm +1 ppm
P' Si G		ent sensitivity: Hz: 1 cm/s, V: 2	2 cm/s
Si			
O E <sup>t</sup>	PWR: Lemo-1 female, 5 pin Serial P1: Lemo-1 female, 8 pin GNSS antenna: TNC female P3 slot-in antenna: TNC female Oscillator: MMCX female, 24QMA-50 2-3/133, 5/10 MHz Ethernet: RJ45 ruggedised, 10/100 Mbit USB client: Type Mini B		
	Exchangeable radio/GSM/GPRS/UMTS devices supported. Automatic gateway routing provides backup of internet access for continuity of communications.		
-			
N	Nominal 24 V DC, range 10.5 – 28 V DC.		
E	External. Can serve as primary power source or as UPS backup.		
3	3.5 W typical, 24 V at 145 mA		
ipers) 2	220x200x94 mm / 1.67 kg		
0	Operating: -40 to 65 °C, Storage: -40 to 80 °C		
	Up to 100% non-condensing. Compliance with ISO9022-13-06, ISO9022-12-04 and MILSTD-810G - 507.5-I		
	With stands strong vibration during operation. Compliance with ISO9022-36-08 and MIL-STD-810G - 514.6-Cat.24.		
W	Withstands 1 m drop onto hard surfaces.		
	IP67 (IEC 60529) and MIL-STD-810G - 512.5-I Dust tight. Protected against water jets. Waterproof up to 1 m temporary submersion.		
V	Web interface for full receiver control and status information.		
0	ON/OFF Button. 1x Function button. 6x LED for power, memory, logging, RT out, RT in, position		
	Removable SD card up to 32 GB. 12 parallel logging sessions. Data rates up to 50 Hz. RINEX 2.11/3.01/3.02, Hatanaka and Leica MDB formats including Zip compression.		
S	Up to 20 parallel data streams with multiple connections. Data rates up to 50 Hz. Supports Leica, Leica 4G, CMR, CMR+, RTCM v2.1/2.2/2.3/3.2, BINEX, NMEA 0183 V 2.20 and proprietary formats via TCPIP, Ntrip and serial.		
U ai N Si	Full control and configuration of the receiver over a web browser through Ethernet, mobile internet, serial or USB. Integrated watchdog for maximum quality and uptime. Backup and restore feature. Detailed event log and onboard messaging service. Ntrip server (source), Ntrip client and Ntrip caster functionality with unlimited number of mount points. Secure access using HTTP5, SSL certificates, access management and port blocking. FTP Server and FTP Client (push), Email notification, SNMP support.		
A	utomatic on-site and real-time c	nline support service.	
	N appers) 2 C C C C C C C C C C C C C	Nominal 24 V DC, range 10.5 - 28         External. Can serve as primary pow         3.5 W typical, 24 V at 145 mA         apers)       220x200x94 mm / 1.67 kg         Operating: -40 to 65 °C, Storage:         Up to 100% non-condensing.         Compliance with ISO9022-13-06, I         Withstands strong vibration during Cat.24.         Withstands 1 m drop onto hard su         IP67 (IEC 60529) and MIL-STD-810         Dust tight. Protected against wate         Web interface for full receiver con         ON/OFF Button. 1x Function butto         Removable SD card up to 32 GB. 1         RINEX 2.11/3.01/3.02, Hatanaka a         Up to 20 parallel data streams wit         Supports Leica, Leica 4G, CMR, CMR         and proprietary formats via TCPIP,         Full control and configuration of til         USB. Integrated watchdog for max and onboard messaging service.         Ntrip server (source), Ntrip client a Secure access using HTTPS, SSL ce	Nominal 24 V DC, range 10.5 - 28 V DC.         External. Can serve as primary power source or as UPS backup.         3.5 W typical, 24 V at 145 mA         apers)       220x200x94 mm / 1.67 kg         Operating: -40 to 65 °C, Storage: -40 to 80 °C         Up to 100% non-condensing.         Compliance with ISO9022-13-06, ISO9022-12-04 and MILSTD-810G - 507.         Withstands strong vibration during operation. Compliance with ISO9022-3: Cat.24.         Withstands 1 m drop onto hard surfaces.         IP67 (IEC 60529) and MIL-STD-810G - 512.5-1         Dust tight. Protected against water jets. Waterproof up to 1 m temporary         Web interface for full receiver control and status information.         ON/OFF Button. 1x Function button. 6x LED for power, memory, logging, R         Removable SD card up to 32 GB. 12 parallel logging sessions. Data rates u         RINEX 2.11/3.01/3.02, Hatanaka and Leica MDB foremats including Zip com         Up to 20 parallel data streams with multiple connections. Data rates up to         Supports Leica, Leica 4G, CMR, CMR+, RTCM v2.1/2.2/2.3/3.2, BINEX, NME/ and proprietary formats via TCPIP, Ntrip and serial.         Full control and configuration of the receiver over a web browser through USB. Integrated watchdog for maximum quality and uptime. Backup and re and onboard messaging service.         Ntrip server (source), Ntrip Client and Ntrip caster functionality with unlimil Secure access using HTTPS, SSL certificates, access management and port

<sup>1</sup> The tracking capability for a specific satellite system is based on publicly available information. For cases where public information is subject to change or not yet available Leica Geosystems cannot guarantee full compatibility.
 <sup>2</sup> Hardware ready for L3 and L5
 <sup>3</sup> Designed for BeiDou Phase 2, Phase 3, B1, B2 and B3 compatibility
 <sup>4</sup> Measurement precision, accuracy in position and height, reliability and time for initialisation are dependent upon various factors including the number of satellites tracked, the observation time, the ephemeris accuracy, the atmospheric conditions, multipath and resolved ambiguities. Figures quoted are RMS (root mean square) and assume normal to favourable conditions.

### Leica Geosystems AG

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