

Leica Viva GS08plus

GNSS PERFORMANCE

GNSS technology	Leica SmartTrack	Advanced measurement engine
Leica SmartCheck	Continuous check of RTK solution	Reliability 99.95%
Signal tracking		GPS (L1, L2, L2C), Glonass (L1, L2), SBAS (WAAS, EGNOS, MSAS, GAGAN)
Number of channels		120 (up to 60 satellites simultaneously on two frequencies)

MEASUREMENT PERFORMANCE & ACCURACY¹

Time for initialisation		Typically 6 s
Real-time kinematic (Compliant to ISO17123-8 standard)	Single baseline Network RTK	Hz 10 mm + 1 ppm / V 20 mm + 1 ppm Hz 10 mm + 0.5 ppm / V 20 mm + 0.5 ppm
Post processing	Static (phase) with long observations Static and rapid static (phase)	Hz 3 mm + 0.5 ppm / V 6 mm + 0.5 ppm Hz 5 mm + 0.5 ppm / V 10 mm + 0.5 ppm
Code differential	DGPS / RTCM	Typically 25 cm

COMMUNICATIONS

Communication ports	Lemo Bluetooth®	USB and RS232 serial Bluetooth® v2.00 + EDR, class 2
Communication protocols	RTK data protocols Network RTK	Leica, Leica 4G, CMR, CMR+, RTCM 2.2, 2.3, 3.0, 3.1, 3.2 MSM VRS, FKP, iMAX, MAC (RTCM SC 104)
Built-in data links ²	3.75G GSM / UMTS / CDMA phone modem Radio modem	Fully integrated, internal antenna Fully integrated, receive and transmit, external antenna 403 - 470 MHz, 1 W output power
External data links		Bluetooth GSM / GPRS / UMTS / CDMA phone modem

GENERAL

Field controller and software	Leica Captivate software Leica SmartWorx Viva software	Leica CS20 field controller Leica CS10 and CS15 field controller
User interface	Buttons and LEDs	On / Off button, 3 status LEDs
Data recording	Storage ³ Data type and recording rate	Removable SD card, 8 GB Leica GNSS raw data and RINEX data at up to 5 Hz
Power management	Internal power supply External power supply Operation time ⁴	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 CS modem
Weight and Dimensions	Weight Diameter x Height	0.7 kg (GS08plus) / 2.70 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 IP68 (IEC60529 / MIL STD 810G 506.5 I / MIL STD 810G 510.5 I / MIL STD 810G 512.5 I) Withstands strong vibration (ISO9022-36-05 / MIL STD 810G 514.6 Cat.24) 100% (ISO9022-13-06 / ISO9022-12-04 / MIL STD 810G 507.5 I) 40 g / 15 to 23 msec (MIL STD 810G 516.6 I)

LEICA VIVA GS08plus – GNSS SMART ANTENNA

SUPPORTED GNSS SYSTEMS

GPS	✓
GLONASS	•

RTK PERFORMANCE

DGPS/RTCM. RTK Unlimited, Network RTK	•
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POSITION UPDATE & DATA RECORDING

1 Hz / 5 Hz positioning	✓ / •
Raw data / RINEX data logging	• / •

ADDITIONAL FEATURES²

3.75G / CDMA phone modem	•
UHF radio modem	•

✓ Standard

• Optional