Leica Geosystems GNSS Comparison Chart













	Leica GS18 I	Leica GS18 T	Leica GS16	Leica GS07	Leica GS10	Leica GS25
Signal tracking	Multi-frequency	Multi-frequency	Multi-frequency	Multi-frequency	Multi-frequency	Multi-frequency
GPS / GLONASS / Galileo / BeiDou / QZSS / SBAS	✔ / ✔ / ✔ / ✔ / ✔ / ✔	✔ / ✔ / ✔ / ✔ / ✔ / ✔	✔ / ✔ / ✔ / ✔ / ✔ / ✔	✔ / ✔ / ✔ / ✔ / ✔ / ✔	✔ / ✔ / ✔ / ✔ / ✔ / ✔	✔ / ✔ / ✔ / ✔ / ✔ / ✔
SmartLink fill /SmartLink	✔ / ✔	✔ / ✔	✔ / ✔	✗ / ✗	✔ / ✔	✔ / ✔
Imaging functionality	✔	✗	✗	✗	✗	✗
Tilt compensation	✔	✔	✗	✗	✗	✗
Single baseline RTK	Hz 8 mm + 1 ppm / V 15 mm + 1 ppm	Hz 8 mm + 1 ppm / V 15 mm + 1 ppm	Hz 8 mm + 1 ppm / V 15 mm + 1 ppm	Hz 10 mm + 1 ppm / V 20 mm + 1 ppm	Hz 8 mm + 1 ppm / V 15 mm + 1 ppm	Hz 8 mm + 1 ppm / V 15 mm + 1 ppm
Network RTK	Hz 8 mm + 0.5 ppm / V 15 mm + 0.5 ppm	Hz 8 mm + 0.5 ppm / V 15 mm + 0.5 ppm	Hz 8 mm + 0.5 ppm / V 15 mm + 0.5 ppm	Hz 10 mm + 0.5 ppm / V 20 mm + 0.5 ppm	Hz 8 mm + 0.5 ppm / V 15 mm + 0.5 ppm	Hz 8 mm + 0.5 ppm / V 15 mm + 0.5 ppm
Static (phase) with long observations	Hz 3 mm + 0.1 ppm / V 3.5 mm + 0.4 ppm	Hz 3 mm + 0.1 ppm / V 3.5 mm + 0.4 ppm	Hz 3 mm + 0.1 ppm / V 3.5 mm + 0.4 ppm	Hz 3 mm + 0.5 ppm / V 6 mm + 0.5 ppm	Hz 3 mm + 0.1 ppm / V 3.5 mm + 0.4 ppm	Hz 3 mm + 0.1 ppm / V 3.5 mm + 0.4 ppm
Static and rapid static (phase)	Hz 3 mm + 0.5 ppm / V 5 mm + 0.5 ppm	Hz 3 mm + 0.5 ppm / V 5 mm + 0.5 ppm	Hz 3 mm + 0.5 ppm / V 5 mm + 0.5 ppm	Hz 5 mm + 0.5 ppm / V 10 mm + 0.5 ppm	Hz 3 mm + 0.5 ppm / V 5 mm + 0.5 ppm	Hz 3 mm + 0.5 ppm / V 5 mm + 0.5 ppm
Reliability	99.99%	99.99%	99.99%	99.95%	99.99%	99.99%
5 Hz / 20 Hz positioning	✔ / ✔	✔ / ✔	✔ / ✔	✔ / ✔	✔ / ✔	✔ / ✔
Raw data / RINEX data logging / NMEA out	✔ / ✔ / ✔	✔ / ✔ / ✔	✔ / ✔ / ✔	✔ / ✔ / ✗	✔ / ✔ / ✔	✔ / ✔ / ✔
RTK reference station functionality	✔	✔	✔	✗	✔	✔
Cellular / UHF radio (receive & transmit) modem	4G / ✔	4G / ✔	3G / ✔	Controller internal / Receive only	3G / ✔	3G / ✔
Storage	SD card	SD card	Micro SD card	Controller internal	SD card	SD card
User interface (buttons / LEDs / display)	2 / 8 / ✗	2 / 8 / ✗	2 / 7 / ✗	1 / 3 / ✗	2 / 7 / ✗	7 / 7 / ✔
Power, Bluetooth®, USB, RS232	✔	✔	✔	✔	✔	✔
Event and PPS	✗	✗	✗	✗	✗	✔
Operating temperature	-30°C to +50°C (camera active) -40°C to +65°C (camera inactive)	-40°c to + 65°C	-40°c to + 65°C	-40°c to + 65°C	-40°c to + 65°C	-40°c to + 65°C
IP68 proof against water, sand and dust	✔	✔	✔	✔	✔	✔
Weight (without battery)	1.25 kg	1.20 kg	0.93 kg	0.70 kg	1.20 kg	1.84 kg
Operating time with internal UHF radio (Rx / Tx)	7 h / 5 h	7 h / 5 h	7 h / 5 h	7 h / NA (device in controller)	15 h / 13 h	14 h / 12 h
Operating time with internal phone	6 h	6 h	6 h	7 h (device in controller)	14 h	13 h

✔ = Standard ✗ = Not available

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