

Leica Viva Uno GNSS Handhelds Datasheet



Reliable data and measurements

High quality measurement engine and proven antenna technology provide the highest quality measurement data.

- 14 channel L1 GPS, GLONASS, SBAS sensor
- Post processing accuracy 10 mm + 2 ppm
- DGPS accuracy < 0.4 m
- Leica MDB and RINEX raw data logging



Simply productive surveying software

With clear graphics, non-technological terminology and simplified workflows SmartWorx Viva is incredibly easy to use.

- Survey, coding and linework
- Advanced coordinate system handling
- Wide range of apps for all surveying and staking tasks

IP67

Built for the field

Packed with features and designed for use in extreme environments.

- IP67, operating temperature -30 to +60° C
- SD and CF cards and USB stick support
- Camera, WLAN, Bluetooth, colour VGA touch screen

- when it has to be **right**

Leica
Geosystems

Technical Specifications

Leica Viva Uno 10/15 GNSS-Sensor		Uno 10	Uno 15
Ergonomic and cable-free GNSS Handheld			
Operating System	Windows CE 6.0	●	●
Display	8.9 cm (3.5 in) 640 x 480 pixel (VGA) colour TFT, touch screen, sunlight-readable, LED backlight	portrait	landscape
Camera	Integrated 2 MPixel fixed focus camera	●	●
I/O	SD slot (SDIO), CF Type I / II slot, 5-pin custom connector (USB) RS232 module: RS232, USB A Host, USB Mini AB OTG, 7-pin connector, Power Lemo module: Lemo (USB and serial), USB A Host, 7-pin connector, Power	● ○ ○	● ○ ○
Interface	Touch screen, Ergonomic cable-free Handheld with fully illuminated keyboard, virtual keyboard	Numeric 26 keys	QWERTY 65 keys
Processor	Freescaler iMX31 533 MHz ARM Core	●	●
Memory	512 MB DDR SDRAM	●	●
Storage	1 GB (non-volatile NAND Flash)	●	●
Audio	Integrated sealed speaker and microphone	●	●
LEDs	Battery and Bluetooth® status LED	●	●
Wireless connectivity	Integrated Bluetooth® 2.0 Class 2	●	●
Software			
Application Software	Leica SmartWorx Viva. In addition, a number of regional solutions are available. For more information on the field software that's best for you, contact your local Leica authorized distribution partner.	○	○
Standard Software	Internet Explorer Mobile, File Explorer, Word Mobile, Microsoft Windows Media™ Player, Camera Software, Online Help	●	●
Power Management			
Removable Battery	GEB211 (7.4 V / 2400 mAh Li-Ion rechargeable)	●	●
Battery Charging Time	2 hours	●	●
Power	Nominal 12 V DC, Range 10.5 – 28 V DC	●	●
Operating Time	10 hours	●	●
Dimensions and Weight			
Size	Uno 10: 278 mm / 102 mm / 45 mm (10.94 in / 4.01 in / 1.77 in) Uno 15: 323 mm / 125 mm / 45 mm (12.72 in / 4.92 in / 1.77 in)	●	●
Weight ¹	Uno 10: 0.74 kg (1.63 lbs) Uno 15: 0.90 kg, (1.98 lbs)	●	●
Environmental Specifications			
Operating / Storage temperature range	Operation: -30 to 60° C (-22 to 140° F), Storage: -40 to 80° C (-40 to 176° F)	●	●
Dust and Water / Humidity	IP67 (IEC 60529) / 100% non-condensing (MIL-STD-810F, Method 507.4-1)	●	●
Drop / Vibration	1.2 m (4 ft) ² MIL-STD-810F, Method 514.5 – Cat24	●	●
GNSS – integrated high-performance GNSS (GPS, Glonass and SBAS) receiver and L1 Antenna			
Channels	GNSS satellite channels	14	14
GNSS	GPS Glonass	● ○	● ○
Integrated Real-Time	SBAS (WAAS, EGNOS, MSAS, GAGAN) ³	●	●
External Antenna	Connector for an external antenna	●	●
Real-Time and Post-processed	Support of real-time correction service and post-processing to achieve 40 cm positioning accuracy	●	●
Update Rate	Position and raw data logging update rate	5 Hz	5 Hz
Time to first fix (typical)	Frozen Start 120 sec, Hot Start 35 sec	●	●
Real-Time Protocols	Leica, Leica 4G, RTCM 2.x, RTCM 3.0, CMR, CMR+	●	●
Post-processed Accuracy ⁴	Baseline mode L1 Phase: 10 mm + 2 ppm (rms), Baseline mode L1 Code: <0.4 m (rms)	●	●
Real-Time Accuracy (SBAS or external source) ⁴	SBAS <1.2 m, DGPS typically <0.4 m (rms)	●	●
Accessories			
Anti-glare screen protectors (2-pack), Stylus		●	●
Documentation CD		●	●
100 – 240 V AC Power supply for all regions		●	●
Soft bag, Hand-strap		○	○
External battery charger, Vehicle power adapter		○	○
Docking station for convenient data transfer and battery charging		○	○
Container		○	○
AS05 external antenna, Pole-mountable bracket, 2 meter range pole		○	○

¹ Without battery

² Onto plywood over concrete

³ WAAS available in North America only, EGNOS available in Europe only, GAGAN available in India only, and MSAS available in Japan only

⁴ Position accuracy depends on available sat, proximity to base station, multipath effects, used antenna, etc.

● = Standard

○ = Optional



Total Quality Management – our commitment to total customer satisfaction.

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