# Leica Viva NetRover

## Datasheet





#### **Built for the Field**

Designed for the extreme environments, you can always rely on your CS10 field controller. Comfortable in the hand and easy-to-use for all tasks.

- Integrated 3.5G mobile broadband for high-speed connection in the field
- With intenna technology, not an antenna in sight that can be lost or broken
- IP67 and operating temperature -30°C to +60°C
- Tactile, fully illuminated, numeric rubber keypad
- 2 Megapixel camera (perfectly placed for taking pictures when in hand or mounted on pole)



#### **Proven GNSS technology**

Built on years of knowledge and experience, the GS08 SmartAntenna delivers the hall-

- Built on years of knowledge and experience, SmartCheck RTK data-processing to guarantee correct results
  - SmartTrack Excellent signal tracking for best possible performance
- marks of Leica GNSS reliability and accuracy. SmartRTK delivers consistent results in all networks



#### Simply productive surveying software

With clear graphics, non-technological terminology and simplified workflows.

- Survey, coding and linework
- Full support of RTCM 3.1 transformation message
- SmartWorx Viva LT is incredibly easy to use. 

  Wide range of apps for all surveying and staking tasks



### **Technical Specifications**

Microsoft Windows CE 6.0
Freescale iMX31 533 MHz ARM Core with 512 MB DDR SDRAM
8.9 cm (3.5") 640 x 480 pixel (VGA) colour touch screen, sunlight-readable, backlight
26 keys, numeric keypad, fully illuminated
1 GB internal flash, SD-card slot, CF-card Type I / II slot, USB connector port
Integrated sealed speaker and microphone
Integrated 2 Megapixel fixed focus camera
Bluetooth® 2.0 Class 2, Wireless LAN 802.11b/g (option), high speed broadband 3.5G GSM & UMTS (option)
Leica SmartWorx Viva LT
Internet Explorer Mobile, File Explorer, Word Mobile, Windows Media Player, Camera Software, Online Help
Leica SmartTrack technology:  • Advanced measurement engine  • Jamming resistant measurements  • High precision pulse aperture multipath correlator for pseudorange measurements
72 channels
GPS: L1, L2, L2C (C/A, P, C Code) GLONASS: L1, L2 (C/A, P narrow Code)
On / Off key. Satellite tracking, Bluetooth® communication & battery power LED status indicators
Bluetooth® 2.0 Class 2, 8-pin Lemo combined USB / power port
By Bluetooth® or with GEV237 Lemo plug cable
Horizontal: 5 mm + 0.5 ppm (rms) Vertical: 10 mm + 0.5 ppm (rms)
Horizontal: 10 mm + 1 ppm (rms) Vertical: 20 mm + 1 ppm (rms)
Horizontal: 3 mm + 0.5 ppm (rms) Vertical: 6 mm + 0.5 ppm (rms)
Better than 99,99 % using Leica SmartCheck technology
Typically 8 sec <sup>2</sup>
Leica proprietary formats (Leica, Leica 4G), CMR+, RTCM2.x, RTCM3.x, full support of RTCM 3.1 transformation messa
1 Hz standard, Optional 5 Hz (0.2 sec)
VRS, FKP, iMAX, MAX, Nearest Station
2.80 kg for complete rover setup, including batteries and telescopic pole
-30°C to +60°C (-22°F to +140°F), GS08 only: -40°C to +65°C (-40°F to +149°F) <sup>3</sup>
-40°C to +80°C (-40°F to +176°F) <sup>3</sup>
100 % 4
IP67: Temporary submersion into water (max. depth 1m) Protected against blowing rain and dust
Withstands vibrations in compliance with ISO9022-36-08
Withstands 1 m drop onto hard surface
Withstands topple over from a 2 m survey pole onto hard surface
No loss of lock to satellite signals when used on a pole setup and submitted to pole bumps up to 150 mm
5 Pole of the control
Nominal 12V DC, Range 10.5 – 28V DC
Removable & rechargable Li-lon battery, 2.6 Ah / 7.4 V (1x in CS10 and 1x in GS08) 7 hours using Bluetooth® and 3.5G devices 5
2 hours with GKL211 charger or with GEV235 field controller power supply

<sup>&</sup>lt;sup>1</sup> Measurement precision, accuracy and reliability are dependent upon various factors including number of satellites, geometry, obstructions, observation time, ephemeris accuracy, ionospheric conditions, multipath etc. Figures quoted assume normal to favorable conditions. GPS and GLONASS can increase performance and accuracy by up to 30% relative to GPS only.

- May vary due to atmospheric conditions, multipath, obstructions, signal geometry and number of tracked signals.
   Compliance with ISO9022-10-08, ISO9022-11-special and MIL-STD-810F Method 502.4-II, MIL-STD-810F Method 501.4-II
- $^{\rm 4}$  Compliance with ISO9022-13-06, ISO9022-12-04 and MIL-STD-810F Method 507.4-I
- <sup>5</sup> May vary with temperature, battery age and transmit power of data link device.





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