

Leica Viva Controller CS10 & CS15 Datasheet



IP67

Built for the field

Designed for extreme environments, you can always rely on your CS10 & CS15. Comfortable in the hand, and easy-to-use for all tasks.

- IP67 and operating temperature -30°C to 60°C
- Tactile, fully illuminated, rubber keypad (numeric on CS10, alphanumeric QWERTY on CS15)
- 2 Megapixel camera (perfectly placed for taking pictures when in hand or mounted on pole)
- Color, VGA touch screen, illuminated



Flexible communication and data handling

Stay connected with a wide range of communication and data storage options. Your CS10 & CS15 is ready for all challenges.

- Fully integrated wireless Intenna technology (*Bluetooth*[®], WLAN, TPS Radio, GSM/UMTS 3.5G)
- Choice of 2 connector modules
 - Lemo module:** Lemo (USB and serial), USB A host, 7-pin connector, power
 - RS232 module:** RS232, USB A host, USB mini AB OTG, 7-pin connector, power
- Data storage using SD Card, CF Card, USB memory stick



Work how you like

Designed as part of the Leica Viva series, but versatile to work with many instrument and software combinations.

- Ideal for use with all Leica Viva Series Total Stations and GNSS sensors
- Perfectly designed to be used with SmartWorx Viva surveying software
- Powerful ARM core processor for many software applications

- when it has to be **right**

Leica
Geosystems

Technical Specifications

CS15 and CS10 Hardware Specifications		CS10	CS15
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 2MP 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	Freescall i.MX31 533 MHz ARM Core	•	•
Memory	512 MB DDR SDRAM	•	•
Storage	1 GB (non-volatile NAND Flash)	•	•
Audio	Integrated sealed speaker and microphone Bluetooth® audio headset support	• •	• •
LEDs	Battery and Bluetooth® status LED	•	•
Wireless connectivity	Bluetooth® 2.0 Class 2 Wireless LAN 802.11b/g Integrated 2.4 GHz FHSS total station radio with fully integrated internal antenna Integrated GSM/UMTS 3.5G module with fully integrated internal antenna	• ○ ○ ○	• ○ ○ ○
Software			
Application Software	Viva Controller runs Leica SmartWorx Viva and SmartWorx Viva LT. 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	GEB212 (7.4 V / 2600 mAh Li-Ion rechargeable)	•	•
Battery Charging Time	2 hours	•	•
Power	Nominal 12 V DC Range 10.5 – 28 V DC	•	•
Operating Time	10 hours (depending on use of embedded devices)	•	•
Dimensions and Weight			
Size	CS10: 200 mm / 102 mm / 45 mm (7.87 in / 4.01 in / 1.77 in) CS15: 245 mm / 125 mm / 45 mm (9.65 in / 4.92 in / 1.77 in)	•	•
Weight ¹	CS10: 0.56 kg (1.23 lbs) CS15: 0.71 kg (1.57 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	•	•
Accessories			
100 – 240 V AC power supply for all regions		•	•
Stylus		•	•
2 x anti-glare display foils		•	•
Documentation CD		•	•
Docking station		○	○
12 V DC vehicle charger		○	○
Additional cables		○	○
Hand strap		○	○
Pole holder set		○	○
Soft bag		○	○

¹ without battery 110g
² onto plywood over concrete

• = Standard
○ = Optional



Total Quality Management – our commitment to total customer satisfaction.

The Bluetooth® word mark and logos are owned by Bluetooth SIG, Inc. and any use of such marks by Leica Geosystems AG is under license.

Windows CE, Internet Explorer Mobile, File Explorer, Word Mobile & Microsoft Media Player are either registered trademarks or trademarks of Microsoft Corporation in the United States and / or other countries.

Other trademarks and trade names are those of their respective owners.

Illustrations, descriptions and technical data are not binding. All rights reserved. Printed in Switzerland – Copyright Leica Geosystems AG, Heerbrugg, Switzerland, 2010. 774172en – IX.10 – RDV