



Advanced Technology

The advanced positioning technology of STReAM360, X-motion hybrid drives & accXess EDM Technology incorporated in Carlson's super reliable CR2+ and CR5+ robotic total stations provides the most efficient way to survey. Carlson works for you.

Made for Carlson SurvCE

Get all you need for your daily work with Carlson SurvCE data collection software on the Carlson CR2+ and CR5+ robotic total stations – these instruments are quick to set up and have easy-to-use functions that simplify the entire process even more.



BREAK NEW GROUND



X-MOTION[™] Hybrid Drives

The CR2+ and CR5+ incorporate highly innovative X-motion hybrid drives, promoting up to 20% automation performance compared to conventional drives. It follows your target at 90 km/h at 100m distances.

Full Connectivity

The CR2+ and CR5+ are made to meet all connectivity needs. Use its built-in Bluetooth[®] for medium range data transfer or its Bluetooth® handle for high performance Long-Range Bluetooth[®]. Either way, it is ideal for one-man robotic surveys.

Store data on the extra large internal memory, on the removable SD card or the USB stick using plug and play technology.

Robustness

The CR2+ and CR5+ instruments are built to withstand the toughest conditions and designed and tested to be dust-proof and fully protected against water jets.

accXess[™] EDM Technology

cXessEDM Technology. The extra small laser footprint and the tomatically with consistently high and repeatable dependability.

Technical specifications:

Angle Measurements Interface 1" (0.3 mgon), 2" (0.6 mgon), 5" (1.5 mgon) Keyboard Accuracy Two full alphanumeric; 35 keys; **Display resolution** 0.1" (0.1 mgon) illuminated (2nd optional) Method Display Full VGA 640 x 480 color and touch Absolute, continuous, diametrical Compensation Quadruple axis with LED backlight Data recording 1 GB internal memory; removable Telescope SD card and USB stick Magnification 30x Ports Serial; USB; internal Bluetooth; long- range Bluetooth handle and **Distance Measurements – Prism** external power Range Accuracy Time Standard mode: 3500 m / 1 mm + **Operating system** Microsoft Windows CE 6.0 1.5 ppm / typ. 0.8sec* **Physical Specifications** Long mode: >10,000 m / 5 mm + 2 ppm / typ. 2.5sec Weight 5.0 - 5.3 ka (w/o battery and tribrach) Distance Measurements – Reflectorless Operating / storage temperature 500m Range accXess5 -20°C to 50°C / -40°C to +70°C Accuracy 2 mm + 2 ppm** Protection class IP55 dust and waterproof rating Time typ. 3sec Humidity 95%, non-condensing Precise capture 8x20 mm at 50 m **Power Supply** Motorization Internal battery Removable Li-Ion 4.4 Ah / 7.4 V Hybrid Drives Technology **Operating time** 7-10 h*** Scout Plummet Range 300m at round prism Type Laser point, adjustable brightness TRack 1.5 mm at 1.5 m instrument height Accuracy 500 m at round prism Range Max speed 90 km / h at 100 m * Fast mode: ** > 500 m: 4 mm + 2 ppm: at 25° C. Battery time may be shorter depending on conditions. AIM Range 500 m at round prism Distance meter (reflector mode): Laser Hz/V accuracy 1″ class 1 in accordance with IEC 60825-1 resp. EN 60825-1; Laser plummet: Laser Technique Image processing class 2 in accordance with IEC 60825-1 resp. EN 60825-1; Distance meter (reflectorless mode): Laser class 3R in accordance with IEC 60825-1 resp. EN **NavLight**[™] Range 5 m at 150 m Accuracy 5 cm at 150 m 60825-1

sophisticated signal-processing technology ensure maximum accuracy - regardless of the distance or conditions.

NavLight[™]

Fitted as standard in the telescope, the NavLight is an efficient alignment aid, helping to speed up work while setting out. Its flashing red and yellow lights will guide you quickly and exactly to the line of sight.

STReAM360: Fully Robotic

Scout

Scans the entire working area within seconds to quickly find the target.

TRack

Continuously track targets. Once locked onto, the instrument remains accurately aimed on the moving target.

AiM

The telescope is accurately aimed at any prism, without needing Get leading reflectorless measurements up to 500m with ac- to look through the telescope. Measurements are performed au-