Washington

Data Collector

The Carlson Washington Data Collector is a powerful, rugged, keyboard-equipped data collector designed for working in difficult environments. Running Windows 10 IOT, the Washington is built to run Carlson's full-featured field software, SurvPC.

Ergonomics, Performance, Connectivity

The Washington Data Collector brings modern high performance to a rugged, ergonomic form factor with a physical keyboard. Whether connected to a robotic total station such as the Carlson CRx, a GNSS receiver such as the Carlson Viking or BRx7, or using the Washington's own survey-grade internal GNSS, users can enjoy advanced connectivity and total freedom in the field.

Power for the Day

Each of the two long-life 49 Wh lithium batteries included with every Washington provide seven hours of use. The hot-swappable design allows you to replace batteries without interrupting your workflow, and the included battery charging dock allows easy charging.

AMERICAN MADE

The Advantages of American Made

Entirely developed by Carlson, the Washington is built in Maysville, Kentucky for North American markets and in York, England for international markets.

Powered By GAMA RTK

Powerful GNSS Built-in†

The Washington can be configured with Carlson's Gama RTK Navigation engine, allowing centimeter-level accuracy with the addition of pole-mounted antenna.

BREAK NEW GROUND

Carlson Washington - Specifications

PROCESSOR & MEMORY
- Intel® Atom™ x7-E3950, 4x 1.6 GHz, 2MB L2 Cache
- 8 GB DDR3L RAM

OPERATING SYSTEM & SOFTWARE
- Windows 10 IOT Enterprise LTSC
- Language Support (English, French, Spanish, Portuguese, and many more)
- Adobe Reader®

MEMORY AND DATA STORAGE
- 32 GB eMMC Flash
- 256 GB SSD

DISPLAY & TOUCHSCREEN
- 5" Active Viewing Area
- 720 x 1920 Landscape TFT-LCD
- Projected Capacitive Touch Interface
- Scratch Resistant, Chemically Toughened Touch Screen

KEYBOARD
- Full Numeric and QWERTY keypad
- Dedicated Carlson Launch Key
- Programmable function keys

PORTS
- USB A
- RS-232C 9 pin D Connector

BATTERY
- Hot Swappable 49 Wh
- Internal 28.12 Wh battery
- 7 hours of use on a single charge
- Charges in less than 1 hour
- Charging dock included

PHYSICAL
- 2.4 lbs, (1.1 kg) without swappable battery
- 11 x 6.3 x 2 in (280 x 160 x 50 mm) (H x W x D)
- Durable hardened plastic in a shear proof shock resistant design
- Strong chemical resistance
- Shock absorbing bumpers

ENVIRONMENTAL
- IP65 waterproof and dustproof
- Operating Temp: -4°F to 113° F (-20° C to 45° C)
- Storage Temp: -4° F to 140° F (-20° C to 60° C)
- Shockproof: multiple drops from 1 m onto concrete

CONNECTIVITY
- Long Range Bluetooth® v2.0 + EDR wireless technology
- Bluetooth® v5.1
- Wi-Fi Certified 6™ 802.11a/b/g/n/ac
- 4G Cellular Modem Worldwide Frequencies

CAMERA
- 13MP resolution with Autofocus
- Full HD (1080p) @ 60fps

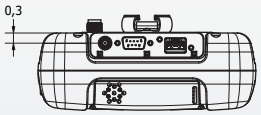
GNSS†
- Multi-Frequency
- Multi-Constellation (GPS + GLONASS + Galileo + BeiDou + QZSS)
- RTK[1,2]
  - Horizontal accuracy: 0.008 m + 1 ppm
  - Vertical accuracy: 0.011 m + 1 ppm
- Update rate up to 5 Hz
- Convergence time: < 10 sec
- Initialization times:
  -Cold starts 24 s
  -Reacquisition 2 s

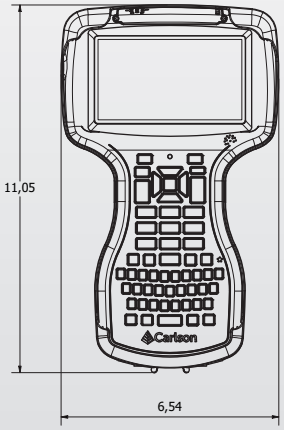
CERTIFICATIONS & STANDARDS
- FCC Class B
- Industry Canada
- EN60950 Safety

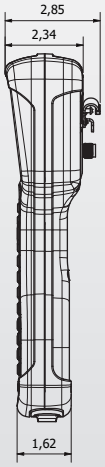
STANDARD ACCESSORIES
- Spare 49 Wh battery
- Battery charger
- AC Wall charger
- Stylus
- Charging dock

† GAMA RTK is an optional feature enabled at an additional cost
1 Depends on multipath environment, number of satellites in view, satellite geometry, and ionospheric activity
2 Depends also on baseline length

Carlson products are constantly being improved, and all specifications are subject to change without notice.







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