

Here's the Carlson Surveyor 2 — the world's most reliable data collector just got better!



- Faster Processor — More on-board storage space — now 8GB; and 1.0 GHz processor
- Long-Range Bluetooth — Up to 1500 feet paired with class I device
- Extended Battery Life — Up to 20 hours

## Carlson Surveyor2

Fast, Durable and Powerful

The speed you need!  
The reliability you deserve!

Powered with [Carlson SurvCE](#)

The Carlson Surveyor 2 is even more rugged than its popular predecessor — IP68 water & dustproof; shock resistant. Still just 2 pounds and the QWERTY keyboard speeds data entry.

Comes with a larger, brighter display screen with a higher resolution, easier-to-read color display with scratch-resistant glass.

Available options include an integrated camera, 3G modem, and GNSS receiver.

Considering the purchase of an RTK GPS (GNSS) receiver? Take a look at the [Carlson Surveyor+ GPS solution!](#)

### DISPLAY

- Active viewing area: 4.3" (109 mm) VGA LCD TFT (640 x 480) Landscape Display
- High-visibility backlit LCD

### OPERATING SYSTEM AND SOFTWARE

- Microsoft® Windows Embedded Handheld 6.5.3
- Multiple OS languages (English, French, Spanish, German, Portuguese)
- Adobe Reader® LE

### PROCESSOR AND MEMORY

- 1.0 GHz ARM Cortex A8 i.MX53 processor
- 512 MB RAM

### MEMORY AND DATA STORAGE

- 8 GB flash storage
- User-accessible micro SD/SDHC slot

### PORTS

- COM1, RS-232C 9-pin D connector with 5VDC power output on pin 9 software-enabled
- USB host (Full A), USB client (Micro B)
- 12, 24VDC input, 10-36V unregulated
- 3.5 mm audio jack, supports speaker/ microphone or stereo output (pin detect)
- IO docking ports for charging, USB port connector protector
- USB port connector protector

### TOUCHSCREEN

- Projected capacitive touch interface
- Chemically-strengthened glass
- Scratch-resistant screen

### KEYBOARD

- Full numeric and QWERTY keypad
- Adjustable backlit keys

### BATTERY

- Intelligent Li-Ion battery 3.7VDC @ 10600 mAh, 38.7 Whr
- Operates 20+ hours on a single
- Charges in 2 to 4 hours
- Battery easily changeable in field
- Optimized for excellent performance in cold temperatures

### PHYSICAL

- Size, Standard models: 5.4" w x 10.2" l x 1.6" d (138 mm x 256 mm x 40 mm)
- Weight: 2 lbs (908 g), with battery
- Durable hardened plastic in a shear-proof and shock-resistant design
- Strong chemical resistance
- Comfortable, wide hand strap
- Easy-to-grip, impact-absorbing bumpers

### WIRELESS CONNECTIVITY OPTIONS

- Bluetooth® wireless technology, 2.1 +EDR, Class 1.5, line-of-sight range up to 1500 feet (450 meters) when paired with Class 1 Bluetooth device
- Wi-Fi® 802.11b/g/n with extended range
- 3.75G modem(3G Models) – Pentaband Worldwide
- Frequencies: HSPA+/UMTS: 800/850/900/1800/1900/2100MHz
- Data communication interface

### ENVIRONMENTAL

- IP68 waterproof and dustproof
- Operating temperature: -22 F to 140 F (-30 C to 60 C)
- Storage temperature: -22 F to 158 F (-30 C to 70 C)
- Note: Bluetooth® wireless technology is rated to -4 F (-20 C)
- Shockproof: multiple drops from 5' (1.5 m) onto concrete
- MIL-STD-810G test procedures: Method 500.5 Low Pressure (Altitude); Method 501.5 High Temperature; Method 502.5 Low Temperature; Method 503.5 Temperature Shock; Method 506.5 Rain; Method 507.5 Humidity; Method 510.5 Sand and Dust; Method 512.5 Immersion; Method 514.6 Vibration; Method 516.6 Shock

### CAMERA (GEO MODELS)

- 5 MP resolution with autofocus and LED illuminator + video capture
- Juniper Geotagging™: embed and emboss photo with date, time, and GPS position

### GPS/GNSS (GEO MODELS)

- High-sensitivity GPS/GLONASS/SBAS receiver
- User settings for enhanced performance under canopy
- Accuracy: SBAS 2 meters; autonomous 5 meters
- NMEA and BINR output
- 32 channel all-in-view tracking
- JNav GNSS positioning and navigation app

### CERTIFICATIONS AND STANDARDS

- FCC Class B
- CE Marking (applicable EMC, R&TTE, and LVD directives)
- Industry Canada
- EN60950 Safety

### STANDARD ACCESSORIES

- 10600 mAh battery
- AC wall charger with international plug kit
- Micro USB client sync cable
- Quick Start Guide
- Adjustable hand strap
- Screwdriver
- Stylus with tether
- 2-year warranty