The third generation Spectra Precision® Ranger™ Data Collector offers a large, bright touch-screen, full alpha-numeric, easy to operate keypad, and is packed with the features surveyors depend on. Built rugged, it meets rigorous MIL-STD-810G military standard for drops, vibration, humidity and extreme temperatures, and with an IP67 rating, it’s designed to keep your investment and your data safe. The Ranger 3 comes standard with 8 GB of onboard memory for storing data. Move your data fast and easily using a SDHC card, Bluetooth, USB cable, USB memory stick, Wi-Fi, or WWAN modem.

- Optional 2.4GHz built-in radio provides real-time communications with your Spectra Precision FOCUS 35 robotic total station.
- Large 4.2 inch high resolution, field rugged touch screen that is designed for use outdoors in all light and weather conditions.
- Optional WWAN modem for network RTK and data connectivity. Connect to Spectra Precision Central for productive data synchronization and coordination.
- Full alphanumeric keyboard with direction keys and multiple Enter keys make for easy use and fast data entry, even when wearing gloves.
- Comes with Spectra Precision Survey Pro or Layout Pro field software for survey and construction professionals.
### Technical Specifications

**Standard Software**
- Windows Mobile 6.5 Professional operating system, including:
  - Microsoft Office Mobile
  - Word Mobile
  - Excel Mobile
  - PowerPoint Mobile
  - Outlook Mobile
  - Internet Explorer Mobile
  - SMS Text Messaging Support
  - Notes / Tasks
  - Task Manager
  - Adobe Acrobat Reader

**Hardware**
- 28.9 Wh Li-Ion battery
- International AC power supply
- USB cable (mini)
- Stylus with spring tip
- Radio antenna for integrated 2.4 GHz radio modem*

**Software**
- Screen protectors
- Audio port dust cover
- I/O port dust covers
- Standard soft case
- Hand strap
- Stylus tether

**Display**
- 107 mm (4.2 in) landscape VGA display, with LED backlight, resistive touchscreen

**Expansion**
- SDHC memory slot, USB host port

**Electrical Specifications**
- 11.1 V, 2600 mAh, 28.9 Wh Li-Ion rechargeable pack
- 3 x tri-colored notification LEDs

**Contacts**
- USB Host, USB Client DC power port, 9-pin serial RS-232

**Certifications**
- Class B Part 15 FCC certification
- CE Mark approval and C-tick approval
- RoHS compliant
- Bluetooth type approvals and regulations are country specific
- MIL-STD-810G, IP67, MIL-STD-461, PTCRB, GCF compliant, Wi-Fi Alliance certified
- Country type certifications: USA, Canada, EU, New Zealand, Australia,
- Pending certifications: Brazil, China (PRC), India, Japan, Republic of Korea, Russia, Taiwan, Thailand, UEA

### Environmental Specifications

**Meets or exceeds:**
- Operating Temperature: –30 °C to 60 °C (–22 °F to 140 °F)
- Storage Temperature: –40 °C to 70 °C (–40 °F to 158 °F)
- Temperature shock: MIL-STD-810G, Method 503.5, Procedure I
- Humidity: 90% RH temp cycle –20 °C/60 °C (–4 °F/140 °F)

**Water:** Immersed in 1 m of water for 30 minutes (IEC-529)

**Drop:** .26 drops at room temperature from 1.22 m (4 ft) onto plywood over concrete

**Altitude:** 15,000 ft (4572 m) at 23 °C (73 °F) and 12.192 m (40,000 ft) at -30 °C (–22 °F) MIL-STD-810G, Method 500.5, Procedures I, II, III

**Vibration:** General Minimum Integrity and Loose Cargo test MIL-STD-810G, Method 514.6, Procedures I, II

**Temperature shock:** MIL-STD-810G, Method 500.5, Procedures I, II, III

### Recycling Information

For product recycling instructions and more information, please go to: www.spectraprecision.com/ev.shtml

[1] Unit is idle with backlight turned on, no radios turned on, moderate temperatures. Only available on select models.

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