

### 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
  - Customized Camera and Flash control including geo-tagging through Microsoft Pictures & Videos software\*
- Calculator
  - Microsoft Pictures and Videos
  - Flashlight mode control application
  - Calendar / Contacts
  - Windows Media Player
  - Messenger
  - Adobe Acrobat Reader
  - SatViewer (GPS interface software application)

Operating system languages options (customer provisionable):

- Simplified Chinese, English, French, German, Japanese, Spanish

#### Spectra Precision Field Software

The Spectra Precision Ranger data collector runs Spectra Precision Survey Pro field software.

#### Standard Accessories (included)

- 28.9 Wh Li-Ion battery
- International AC power supply
- USB cable (mini)
- Stylus with spring tip (pkg of 2)
- Stylus tether
- Radio antenna for integrated 2.4 GHz radio modem\*
- Screen protectors
- I/O port dust covers
- Audio port dust cover
- Standard soft case
- Hand strap

### HARDWARE

#### Physical Specifications

- Size . . . . . 141 mm x 278 mm x 64 mm (5.6 in x 10.9 in x 2.5 in)  
80 mm (3.2 in) at handgrip
- Weight . . . . . 1.04 kg (2.3 lb) including rechargeable battery  
1.10 kg (2.4 lb) including rechargeable battery and internal 2.4 GHz radio-modem\*
- Housing . . . . . Polycarbonate (case), Hytrel® (overmold)

### 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)  
MIL-STD-810G, Method 507.5
- Sand & dust . . . . . IP6x: 8 hours of operation with blowing talcum powder (IEC-529)
- Water . . . . . IPx7: 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  
MIL-STD-810G, Method 516.6, Procedure IV
- Vibration . . . . . General Minimum Integrity and Loose Cargo test  
MIL-STD 810G, Method 514.6, Procedures I, II
- Altitude . . . . . 4,572 m (15,000 ft) at 23 °C (73 °F)  
and 12,192m (40,000 ft.) at -30 °C (-22 °F)  
MIL-STD-810G, Method 500.5, Procedures I, II, III

### ELECTRICAL SPECIFICATIONS

- Processor . . . . . Texas Instrument Sitara™ 3715 series  
ARM® Cortex™-A8 Processor (800 MHz)
- Memory . . . . . 256 MB RAM
- Storage . . . . . 8 GB non-volatile NAND Flash onboard
- Expansion . . . . . SDHC memory slot, USB host
- Batteries . . . . . 11.1 V, 2600 mAh, 28.9 Wh Li-Ion rechargeable pack  
Battery life of 30+ hours under normal operating conditions<sup>1</sup>.  
Full charge in 3.0 hours.
- Notification LEDs . . . . . 3 x tri-colored notification LEDs
- Display . . . . . 107 mm (4.2 in) landscape VGA display, 640 x 480 pixels  
sunlight-readable color TFT with LED backlight, resistive touchscreen
- Keyboard . . . . . "ABCD" style keypad with 10-key number pad,  
directional buttons, and 4 programmable buttons
- Audio . . . . . Integrated speaker and microphone with 3.5 mm stereo  
headset/microphone port
- I/O . . . . . USB Host, USB Client  
DC power port, 9-pin serial RS-232
- Wireless . . . . . integrated Bluetooth 2.0 +EDR, integrated Wi-Fi 802.11 b/g  
integrated quad-band GSM/GPRS/EDGE: 850/900/1800/1900 MHz,  
2/6 Mbit/s 3G HSDPA GSM WWAN\*  
integrated 2.4 GHz frequency-hopping spread-spectrum radio modem\*
- Camera\*/GPS/Compass/Accelerometer . . . . . 5 MP auto focus camera  
with dual white light LED flash, LED flashlight function;  
integrated GPS (WAAS enabled); integrated compass;  
integrated accelerometer

### 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, UAE

### RECYCLING INFORMATION

For product recycling instructions and more information, please go to [www.spectraprecision.com/ev.shtml](http://www.spectraprecision.com/ev.shtml).

#### Recycling in Europe:

To recycle Spectra Precision WEEE (Waste Electrical and Electronic Equipment products that run on electrical power), call +31 497 53 24 30, and ask for the "WEEE Associate". Or, mail a request for recycling instructions to: Spectra Precision, c/o Menlo Worldwide Logistics, Meerheide 45, 5521 DZ Eersel, NL.

<sup>1</sup> Unit is idle with backlight turned on, no radios turned on, moderate temperatures.

\* Only available on select models

Specifications are subject to change without prior notice.



SPECTRA PRECISION  
10355 Westmoor Drive, Suite #100  
Westminster, CO 80021  
USA  
+1-720-587-4700 Phone  
888-477-7516 (Toll Free in USA)  
[www.spectraprecision.com](http://www.spectraprecision.com)

[www.spectraprecision.com](http://www.spectraprecision.com)  
[sales@spectraprecision.com](mailto:sales@spectraprecision.com)  
[support@spectraprecision.com](mailto:support@spectraprecision.com)