

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)
- Drop26 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
- Altitude4,572 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 conditions¹.
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, IP 67, 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.

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.

¹ 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.



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OPTRON

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