Ranger™ 3 Data Collector

TECHNICAL SPECIFICATIONS

Standard software

Windows Mobile® 6.5 Professional operating system, including:

• Calculator

Videos

application

Messenger

· Microsoft Pictures and

· Flashlight mode control

· Windows Media Player

software application)

SatViewer (GPS interface

Calendar / Contacts

- Microsoft Office Mobile:
- Word Mobile
- Word Mobile
 Excel Mobile
- PowerPoint Mobile
- Outlook Mobile
- Internet Explorer Mobile
- SMS Text Messaging Support
- Notes / Tasks
- Task Manager
- Adobe Acrobat Reader
- Customized Camera and Flash control including geotagging through Microsoft Pictures & Videos software*
- Operating system language 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-lon battery
 International AC power
- International AC power supplyUSB cable (mini)
- Stylus with spring tip (pkg of 2)
- Radio antenna for integrated 2.4 GHz radio modem*
- Screen protectors
- · Audio port dust cover
- I/O port dust covers
- Standard soft case
 Hand strep
- Hand strap
- · Stylus tether

HARDWARE

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) 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

FLECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS
Processor Texas Instrument Sitara™ 3715 series
ARM® Cortex™-A8 Processor (800 MHz)
Memory
Storage 8 GB non-volatile NAND Flash onboard
Expansion SDHC memory slot, USB host
Batteries
28.9 Wh Li-lon rechargeable pack
Battery life of 30+ hours under
normal operating conditions ¹ .
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,

with dual white light LLD 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.

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









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PRECISION



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Please visit www.spectraprecision.com for the latest product information and to locate your nearest distributor. Specifications and descriptions are subject to change without notice