Spectra Precision 
Ranger 3XC Data Collector

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.
Ranger™ 3 Data Collector

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

Customized Camera and Flash control including geo-tagging through Microsoft Pictures & Videos software

Operating system language options (customer provisionable): Simplified Chinese, English, German, Japanese, Spanish

Spectra Precision Field Software

- Survey Pro
- Layout Pro
- FAST Survey

Standard Accessories (included)

- 28.9 Wh Li-Ion battery
- International AC power supply
- USB cable (mini)
- Stylus with spring tip (pkg of 2)
- Radio antenna for integrated 2.4 GHz radio modem

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)

Electrical Specifications

Processor: Texas Instrument Sitara™ 815 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: 28.9 Wh Li-Ion rechargeable pack
Battery life of 30+ hours under normal operating conditions. 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

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 Mb/s 3G HSDPA GSM, Dual band CDMA2000 in Bands BC0 and BC1 (800/900MHz), 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.


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:

Contact Information:

AMERICAS
Spectra Precision Division
10368 Westmoor Drive
Westminster, CO 80021, USA
+1-720-587-4700 Phone
888-477-7516 (Toll Free in USA)

EUROPE, MIDDLE EAST AND AFRICA
Spectra Precision Division
Rue Thomas Edison
ZAC de la Fleuraye - CS 60433
44474 Carquefou (Nantes), France
+33 (0)2 28 09 38 00 Phone

ASIA-PACIFIC
Spectra Precision Division
80 Marine Parade Road
#22-06, Parkway Parade
Singapore 446269, Singapore
+65-6348-2212 Phone

www.spectraprecision.com

©2015 Trimble Navigation Limited. All rights reserved. Spectra Precision is a Division of Trimble Navigation Limited. Spectra Precision and the Spectra Precision logo are trademarks of Trimble Navigation Limited or its subsidiaries. All other trademarks are the property of their respective owners. (2015/02)