SPECTRA PRECISION®

RANGER™ DATA COLLECTOR

STANDARD SOFTWARE

Microsoft Windows Mobile 5.0 software programs including:
- Internet Explorer
- File Explorer
- Word Mobile
- Power Point Mobile
- Excel Mobile
- Outlook Mobile
- Windows Media® Player Mobile
- Microsoft ActiveSync® technology
- Microsoft Transcriber (handwriting recognition)
- Pictures, Picture & Videos, Calendar, Contacts, Tasks and Notes
- Online help

Field Application Software:
- Spectra Precision Survey Pro™

STANDARD ACCESSORIES

Rechargeable Lithium-Ion battery module
- International AC re-charger (100 V–240 V)
- Standard CF-Cap
- USB data cable
- Hand strap
- Stylus pen
- Stylus pen lanyard
- 2 screen protectors

CERTIFICATION

Class B Part 15 FCC certification, CE Mark approval and C-tick approval. Bluetooth type approvals and regulations are country specific.

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 No backlight, moderate temperature, no high power-consumption CompactFlash cards.
2 Not available on the NX version

Specifications are subject to change without prior notice.

TECHNICAL SPECIFICATIONS

Physical

Size . . . . 266 mm × 131 mm × 48 mm (10.5 in × 5.2 in × 1.9 in); 76 mm (3.0 in) at handgrip

Weight . . . . .0.95 kg (2.1lb) including battery; 1.09 kg (2.4 lb) including battery and optional internal radio

Memory. . . . . 128 MB SDRAM, 512 MB internal (500X) 64 MB SDRAM, 256 MB internal (300X) 64 MB SDRAM, 128 MB internal (NX) non-volatile storage memory

Expandable Memory[2] . . . . CompactFlash (CF) card Secure Digital (SD) card

Processor . . . . 520 MHz Intel® PXA 270 XScale CPU (500X) 312 MHz Intel® PXA 270 XScale CPU (300X, NX)

Wireless . . . . Integrated Bluetooth (500X/300X) Optional Integrated Wireless LAN, WiFi 802.11g

Power . . . . .Li-Ion rechargeable pack, 6600 mAh, battery life of 30 hours under normal operating conditions[1]. Fast charge to 80% in 2 hours; full charge in 4.5 hours. Battery charge status LED indicator.

Environmental

Temperature
   Operating Temperature. . . . .–30 °C to +60 °C (–22 °F to +140 °F)
   Storage Temperature . . . .–40 °C to +70 °C (–40 °F to +158 °F)

Humidity . . . . .100% condensing, MIL-STD-810F, Method 507.4

Sand & Dust . . . . . . .IP67, MIL-STD-810F, Method 510.3, Procedures I & II

Water . . . . . . .IP67, sealed against accidental immersion (1 m for 30 min.) MIL-STD-810F, Method 512.4, Procedure I

Drops . . . . .MIL-STD-810F, Method 516.5, Procedure IV 48" onto concrete, 26 drops at room temperature (all faces, edges, corners, one drop each) 6 face drops at 60 °C; 6 face drops at -30 °C

Vibration . . . . MIL-STD-810F, Method 514.5, Procedure I, Figs. 5 & 17

Altitude . . . . MIL-STD-810F, Method 500.4, Procedures I, II & III, 4,572 m (15,000 ft) at +23 °C (+73 °F)

Interface

Display . . . . .Color, illuminated TFT, daylight-readable touch screen displayed at 320 × 240 pixels (QVGA), backlight illuminated display.

Keyboard. . . . . 53 key alphanumeric keypad, 8-position spider key

Audio . . . . Integrated speaker and microphone for audio system events, warnings and notifications.

Operating system . . . . Microsoft Windows Mobile 5.0

Input/Output

Ports . . . . RS232 9-pin serial port USB Client USB Host DC Power Port

Expansion . . . . 1 × Type I CompactFlash (CF) slot 1 × Type II CompactFlash (CF) slot 1 × Secure Data (SD) memory card slot

Radio-modem (optional). . . . . .Internal 2.4 GHz frequency-hopping spread-spectrum radio-modem

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