

Nomad® Data Collector

TECHNICAL SPECIFICATIONS

- Windows Mobile 6.1 (Professional in WWAN models; Classic in all other models)
- Marvell 806 MHz XScale processor
- 128 MB DDR SDRAM
- 512 MB to 2 GB non-volatile internal flash storage
- Full VGA touchscreen display, sunlight-readable color TFT
- Environmentally rugged design
- Integrated speaker and microphone
- Integrated Bluetooth 2.0
- Secure Digital (SD/SDHC) slot
- Numeric style keypad
- Notification LEDs
- USB host and client
- Audio jack
- 15-hour battery life with active use (default settings)
- Keypad backlighting for night use
- 12-month limited warranty

Spectra Precision Field Software

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

Configuration Options

- Integrated WWAN Quad-band GSM GPRS/EDGE capability
- Integrated GPS (SIRFstarIII, WAAS Capable, SIRFInstantFixII)
- Integrated WLAN Wi-Fi wireless capability
- CompactFlash (CF) (Type II) slot (on 900B model only)
- Integrated digital camera (color, 5 megapixel resolution, with flash)

Standard software

- Microsoft Office Mobile
 - Word Mobile
 - Excel Mobile
 - PowerPoint Mobile
 - Outlook Mobile
 - Pocket OneNote
- Online help
- Internet Explorer Mobile
- Notes/Tasks
- Calculator
- Windows Media Player
- Microsoft Pictures and Videos
- Contacts/Calendar
- Microsoft ActiveSync®

Standard accessories

- Rechargeable Li-Ion battery module
- Hand strap
- Stylus lanyard
- USB boot
- Getting Started CD with ActiveSync
- Rugged stylus with spring-loaded tip
- User's guide
- International AC charger
- Screen protectors
- USB data cable

HARDWARE

Physical Specifications

Size 17.6 cm x 10.0 cm x 5.0 cm
(6.92 in x 3.92 in x 1.96 in)

Weight 596 g (21oz) including rechargeable battery

ENVIRONMENTAL SPECIFICATIONS

Meets or exceeds:

Sand & dust MIL-STD-810F, Method 510.3, Procedures I, II, IEC-529, IP68

Water Protects against long periods of immersion in liquids; MIL-STD-810F, Method 512.4, Procedure I, IEC-529, IP68

Water Jet 12.5 mm (0.49 in) dia. @ 2.5 m–3 m (8.2 ft–9.84 ft), 100 liter (26 gal)/min; MIL-STD-810F, Method 512.4, Procedure I, IEC-529, IP68

Drop 26 drops at room temperature from 1.22 m (4 ft) onto plywood over concrete

6 additional drops at –30 °C (–22 °F)

6 additional drops at 60 °C (140 °F)

MIL-STD-810F, Method 516.5, Procedure IV

Vibration General Minimum Integrity and Loose Cargo test

MIL-STD 810F, Method 514.5, Procedure I, II

Operating Temperature –30 °C to 60 °C (–22 °F to 140 °F)

MIL-STD 810F, Method 501.4, Procedure II

MIL-STD 810F, Method 502.4, Procedure I, II, III

Storage Temperature –40 °C to 70 °C (–40 °F to 158 °F)

MIL-STD 810F, Method 501.4, Procedure I

MIL-STD 810F, Method 502.4, Procedure I, II, III

Temperature shock –35 °C/+65 °C (–31 °F/149 °F)

MIL-STD-810F, Method 503.4, Procedure I

Humidity 90%RH temp cycle 0 °C/+70 °C (32 °F/158 °F)

MIL-STD-810F, Method 507.4

Altitude 4572 m (15,000 ft) at 23 °C (73 °F) and 12,192 m (40,000 ft) at –30 °C (–22 °F)

MIL-STD-810F, Method 500.4, Procedures I, II, III

ELECTRICAL

Processor Marvell PXA320 XScale 806 MHz

Memory 128 MB DDR SDRAM; ~30 MB reserved

Storage 512 MB to 2 GB onboard non-volatile NAND Flash; ~50 MB reserved

Expansion 1x SD/SDHC slot (all models), 1x Type II CF slot (900B)

Display 480 x 640 pixel (VGA) 16-bit color TFT with LED backlight

Batteries 5200 mAh Li-Ion rechargeable pack*

I/O USB Host and client, power, audio jack

Radios Bluetooth 2.0 + EDR; WLAN: WiFi (CCX) 802.11b/g

WWAN: Quad-band GSM GPRS/EDGE



CERTIFICATIONS

FCC, CE/R & TTE, IC (Canada), C-Tick, RoHS Compliant, PTCRB, GCF Compliant, AT&T network compatible, Section 508 compliant, CCX v4, MIL-STD-461E RE102, MIL-STD-461E RS103

RECYCLING INFORMATION

For product recycling instructions and more information, please go to: www.spectraprecision.com/ev.shtml.

To ensure best performance when temperatures are below –20 °C (–4 °F), be sure battery is inserted in the device only when in use. When device is not in use at these temperatures, keep batteries in a pocket or stored in a warmer area.

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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.

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