

ARB® UTILITY MANAGEMENT SYSTEMS™



TRIMBLE NOMAD HANDHELD DATA COLLECTOR

The Trimble Nomad (Nomad), powered by Neptune's N_SIGHT™ R900® meter reading software, provides a comprehensive feature set that allows utilities to reliably manage and automate the meter reading process.

With Neptune's ARB® Utility Management Systems™, utilities can read their meters using a variety of data collection technologies – walk-by, mobile, or fixed network. The Nomad is just one component of Neptune's meter reading approach, allowing the meter reader to collect readings manually (keyed entry), probed, or via radio frequency (RF) with the R900® Belt Clip Receiver (BCR). Regardless of the method, the Nomad offers the capability to reliably collect and store meter readings throughout the entire work day.

The Nomad is loaded with meter reading routes through an Ethernet communication/charging cradle using Neptune's meter reading software or via USB with Windows Mobile Device Center. Communication/charging cradles are connected directly to a PC, a server supporting multiple computers, or the utility's LAN. Any meter reading data on the handheld is backed up to the Nomad's SD card until the unload process is completed. To unload meter reading data, the Nomad is inserted into the cradle at the office. Data is downloaded to the meter reading software and prepared for transfer to the billing system. The Nomad remains in the cradle to recharge so it is ready for work the next day.

For RF capabilities, the Nomad is paired via Bluetooth with the R900 BCR. The R900 BCR is Neptune's latest walk-by meter reading receiver and contains the latest in software defined radio (SDR) technology. Historically, receivers were integrated into the handheld; but with a separate belt clip device, the capabilities of the receiver are increased. In fact, the R900 BCR has a 50-channel receiver capable of processing eight readings simultaneously and 70 readings per second. This receiver is fully compatible with Neptune's R900 MIU as well as Advantage and Pocket ProReader probe devices. For more information please refer to the R900 BCR product sheet.

The Nomad is available in two models – the 900B (B) and the 900LE (LE). The B version is perfect for utilities that only want to utilize the handheld for meter reading purposes and pair via Bluetooth with the R900 BCR. The LE version is for those utilities who want additional advanced hardware features such as a third-party work order system or field geocoding. To support the requirements of these work order systems, the LE provides camera, GPS, and barcode



KEY FEATURES

- AMR capable – fully compatible with the R900 Belt Clip Receiver
- SD card backup of meter reading data
- Integrated GPS, barcode scanner, and 5MP camera*
- High-resolution, sunlight-readable VGA display with LED backlighting
- Designed for extreme durability – complies with IP68 & MIL-STD-810F
- Replaceable long-life lithium ion battery – 10+ hours on a single charge

KEY BENEFITS

- Reduces meter reading time and increases productivity when paired with R900 Belt Clip Receiver
- Supports multiple data collection methods – manual keyed entry, probed, and walk-by RF
- Supports full work day with high-capacity battery
- Fully capable of operations in harsh environmental conditions
- Hardware support for multiple utility functions such as meter reading and work orders*

*Requires 900LE model.

SPECIFICATIONS

Operating System	Windows Mobile 6.1
Software Application	N_SIGHT R900 (version 4.5 or later)
Processor	Marvell PXA320 806MHz
Memory	128 MB DDR SDRAM, 1GB Flash (900LE) & 512MB Flash (900B)
Display	Sunlight-readable 480 x 640 pixel (VGA) 16-bit color TFT with LED backlighting
Keyboard	Physical numeric On-screen alpha-numeric keypad accessible via touchscreen
Power Supply	Rechargeable lithium ion battery pack – 5000 mAh capacity Intelligent fast charge system (4-6 hours) Power management system Integrated charge status and low battery indicator Typical 10+ hour work day
Communication	WiFi (CCX v4 ASD) (802.11 b/g) Bluetooth 2.0 + EDR
Audio	Integrated speaker and microphone
AMR RF Receiver	Compatible via Bluetooth with R900 Belt Clip Receiver
Dimensions	Height: 1.96" (5 cm) Width: 3.92" (10 cm) Length: 6.92" (17.6 cm)
Weight	1.3 lbs. (596g) including rechargeable battery
Temperature Range	Operating: -22°F to +140°F (-30°C to +60°C) Storage: -40°F to +158°F (-40°C to +70°C) Humidity: 90% RH temp cycle 32°/+158°F (0°C/+70°C)
Environmental	Meets or Exceeds: <u>Water:</u> MIL-STD-810F, Method 510.3, Procedure I, IEC-529, IP68 <u>Sand & Dust:</u> MIL-STD-810F, Method 510.3, Procedure I, II, IEC-529, IP68 <u>Drop:</u> MIL-STD-810F, Method 516.5, Procedure IV <u>Vibration:</u> MIL-STD-810F, Method 514.5, Procedure I, II <u>Operating and Storage Temperature:</u> MIL-STD-810F, Method 501.4 – Procedure I, II, Method 502.4 – Procedure I, II, III <u>Temperature Shock:</u> MIL-STD-810F, Method 503.4, Procedure I <u>Humidity:</u> MIL-STD-810F, Method 507.4 <u>Altitude:</u> MIL-STD-810F, Method 500.5, Procedure I, II, III
Approvals	FCC, CE/R & TTE, IC (Canada), RoHS Compliant, PTCRB, Section 508 compliant, CCX v4 ASD, MIL-STD-461E RE102, MIL-STD-461E RS103
Accessories	Ethernet communications and charging cradle Spare battery charger Hand strap AC power adapter Anti-glare screen protector Replacement lithium ion battery Stylus
Warranty	Two-year comprehensive warranty Hardware and software maintenance contracts available

scanner capabilities. Both versions come with a Marvell 806 MHz processor to maximize field performance.

One of the most important requirements of a meter reading handheld is that the battery should last a full work day. The Nomad can do that and then some with its high-capacity 5000mAh battery capable of performing for 10+ hours even in cold weather conditions. During such a length of time in an outdoor environment, it's no surprise that the Nomad must be able to withstand harsh conditions. The Nomad meets rigorous MIL-STD-810F military standards for impact, vibration, humidity, altitude, and extreme temperatures. It also comes with an IP68 rating which means that the handheld is completely sealed against dust and can survive immersion in up to a meter of water for four hours.

To add even more value to the Nomad's high-value package, Neptune is offering the new Nomad with a two (2) year comprehensive warranty.



Trimble Nomad with charging cradle.

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