



# CE5320B HANDHELD DATA COLLECTOR



Neptune's newest handheld computer — the CE5320B — complete with Microsoft® Windows® CE.NET operating system, ushers in a new era in handheld data collectors. The CE5320B is powered by Neptune's meter reading software, either ARB® N\_SIGHT™ Mobile, ARB® N\_SIGHT™ FixedBase, or ARB® N\_SIGHT™ Hybrid. Neptune's meter reading software is designed to automate the meter reading process with a comprehensive feature set that allows utilities to reliably manage meter reading schedules regardless of size or industry type.

With Neptune's ARB® Utility Management Systems™, utilities can read their meters using a variety of data collection technologies – walk-by, mobile, and targeted fixed network. The CE5320B is just one component of Neptune's hybrid meter reading approach, allowing the meter reader to collect meter readings manually (keyed entry), probed, or via RF. Regardless of the method, the CE5320B offers the capability to reliably collect and store meter readings throughout the entire work day.

The CE5320B handheld is loaded with meter reading routes through an Ethernet communication/charging cradle using Neptune's meter reading software. Communication/charging cradles are connected directly to a PC, to a server supporting multiple computers, or to the company LAN. To retrieve meter reading data, the CE5320B is again inserted into the cradle at the office. Data is then downloaded to the meter reading software and prepared for transfer to the billing system. The CE5320B remains in the cradle to recharge so it is ready for work the next day.

Utilities also have a choice with respect to RF AMR capabilities. The CE5320B is equipped with an HR2650i integrated receiver. This receiver is designed to automatically read Neptune R900® radio transmitters as well as Itron® R300®, R300HP, and electric ERT® transmitters. With this integrated receiver, meter reading becomes a more user-friendly and ergonomic task, as the handheld is now more lightweight and balanced.

Additionally, the CE5320B supports various types of meter probes. In the water industry, walk-by probed meter reading is supported via a wireless RF link between the probe and the handheld computer. In the electric industry, the CE5320B supports optical probing across a wide variety of electric meters and file types for time-of-use and mass memory meters.



KEY FEATURES

- AMR capable – fully compatible with R900s, R300s, and electric ERTs
- Windows CE.NET operating system
- 54 multi-functional raised tactile keys with backlighting
- Color touch-screen display
- Designed for extreme durability – complies with IP67 & MIL-STD-810F
- Replaceable long-life lithium ion battery – intelligent fast charge system

KEY BENEFITS

- Integrated RF receiver for improved ergonomics
- Offers true multi-tasking capability
- Provides maximum field performance
- Multi-utility meter reading capability
- Flexible, easy-to-use software application functionality
- Migrates from multiple data collection methods – manual keyed entry, probed, and walk-by RF
- Supports rich contrasts that are easy to read both indoors and outdoors
- Courteous, prompt, and conscientious Support Specialists available if needed



<b>Operating System</b>	Windows CE.NET 5.0
<b>Software Application</b>	ARB N_SIGHT Mobile, ARB N_SIGHT FixedBase, or ARB N_SIGHT Hybrid.
<b>Processor</b>	Intel 520 MHz Bulverde PXA 270
<b>Memory</b>	128 MB SRAM, 256 MB Flash for WIN CE and file system
<b>Display</b>	3.5" (89mm) QVGA TFT touch screen transfective color LCD with backlighting 320 x 240 pixels with full graphics
<b>Keyboard</b>	Highly ergonomic backlit keyboard, 54 multi-function keys Ergonomic key grouping to facilitate data entry Alphanumeric keys with large, separate numeric keypad Tactile and programmable audible feedback Customized keyboard templates to support ARB N_SIGHT Mobile, ARB N_SIGHT FixedBase, or ARB N_SIGHT Hybrid. Standard two-zone keyboard backlighting
<b>Power Supply</b>	Rechargeable lithium ion battery pack -2600 mAh capacity Intelligent fast charge system (4 hours) Power management system Integrated charge status and low battery indicator Typical 7-9 hour work day Rechargeable nickel metal hydride backup battery ON/OFF switch, manual and automatic shutoff 5 volt power for external devices
<b>Communication</b>	Ethernet 10 Base T, 10 Mbps Bluetooth 2.0 802.11 b/g 1 RS232 on Lemo connector, up to 230 kbps full duplex
<b>Audio</b>	Speaker output
<b>AMR RF Receiver</b>	HR2650i (R900, Itron R300, Itron electric ERT)
<b>Dimensions</b>	<u>Without AMR RF Receiver</u> Height: 1.53" min., 2.36" max (39 mm min., 60 mm max.) Width: 3.53" min., 4.08" max (90 mm min., 104 mm max.) Length: 9.74" (248 mm) <u>With AMR RF Receiver</u> Height: 1.53" min., 3.25" max (39 mm min., 83 mm max.) Width: 3.53" min., 4.08" max (90 mm min., 104 mm max.) Length: 10.5" (267 mm)
<b>Weight</b>	<u>Without AMR RF Receiver</u> 1.94 lbs (880g) with battery pack <u>With AMR RF Receiver</u> 2.0 lbs (907g) with battery pack
<b>Temperature Range</b>	Operating: -4°F to 122°F (-20°C to +50°C) Storage: -22°F to +140°F (-30°C to +60°C) Humidity: 95% non-condensing
<b>Environmental</b>	MIL-STD-810F method 512.4 procedure I IP67 (1 meter immersion) MIL-STD-810F method 506.3 procedure I (wind blown rain) <u>Shock Resistance</u> *Exceeds 2 meter drop on concrete *MIL-STD-810F method 516.5 procedure IV <u>Electrostatic Discharge</u> Meets EN61000-42
<b>Approvals</b>	FCC Class B CE Certification ISO9001 ROHS compliant
<b>Accessories</b>	Ethernet communications and charging cradle 110 V AC power supply Ergonomic hand strap adjustable for either left or right handed users Shoulder carrying strap
<b>Warranty</b>	One year comprehensive warranty Hardware and software maintenance contracts available

The CE5320B incorporates an Intel® 520MHz Bulverde processor to maximize field performance. 128Mb of RAM and 256Mb of internal Flash memory provide ample storage for multiple routes of meter reading data. Communication of data from the CE5320B is conducted through an Ethernet cradle at speeds up to 10Mbps — almost 100 times faster than conventional serial communications. The cradle also serves as a charging device designed to intelligently “fast charge” the unit’s rechargeable lithium ion batteries in only four hours. The CE5320B power supply is designed to provide a minimum 8 hours of continuous use which minimizes downtime and ensures a full, productive work day.

Neptune’s commitment to quality and long-term service is backed by a qualified Systems Support Center. Neptune’s System Support team is easily accessible through our toll-free number (1.800.647.4832). Neptune provides access to qualified professionals who provide prompt and courteous assistance. Comprehensive hardware and software warranties as well as maintenance services are also available to keep all equipment operating at peak performance.



*CE5320B with charging cradle*

Neptune engages in ongoing research and development to improve and enhance its products. Therefore, Neptune reserves the right to change product or system specifications without notice.

**Neptune Technology Group Inc.**

1600 Alabama Highway 229  
Tallahassee, AL 36078  
USA  
Tel: (800) 645-1892  
Fax: (334) 283-7299

**Neptune Technology Group (Canada) Ltd.**

7275 West Credit Avenue  
Mississauga, Ontario  
L5N 5M9  
Canada  
Tel: (905) 858-4211  
Fax: (905) 858-0428

**Neptune Technology Group Inc.**

Ejército Nacional No. 418  
Piso 12, Desp. 1201-1202  
Col. Chapultepec Morales  
Delegación Miguel Hidalgo  
11570 México, Distrito Federal  
Tel: (525) 55203 5294 / (525) 55203 5708  
Fax: (525) 55203 6503

