

## Product Profile

- Large, programmable display ensures flexibility and increased efficiency by allowing an application to display more text or larger fonts
- Standard development and connectivity tools enable rapid deployment and maximize return on investment
- Rugged, sealed case and cold temperature option work in the harshest environments
- Full-shift battery performance extends productivity on the job
- RF connectivity delivers real-time supply chain information for manufacturing, warehousing, distribution and retail applications



### 2 4 3 5 H A N D H E L D C O M P U T E R

The rugged 2435 handheld computer is the newest member of Intermec's versatile wireless thin-client 2400 product family, which includes the 2415 & 2425 handhelds, 2455 vehicle mount, and 2485 & 2486 stationary computers. For years, manufacturing, warehousing, distribution and retail customers have favored the 2400 series' reliability, ease of integration and inherent investment protection. Customers' applications run seamlessly on all products within the family without the need to reprogram or recompile.

Intermec's ergonomic 2435 handheld computer excels in scan-intensive applications such as retail price verification and cycle counting that require rapid, reliable scanning, while minimizing user fatigue. Additionally, whether in the store, warehouse or factory, workers will appreciate the long lasting battery designed to provide full-shift productivity.

A large, high-contrast and programmable display accommodates applications showing up to 21 lines of 31 characters each. The non-glare, backlit screen is highly scratch resistant and easily readable indoors and out. The large

display provides continuity and investment protection for customers whose applications require it.

The 2435 keypad comes in a variety of layouts with large elastomer keys that provide positive tactile feedback and are polyurethane capped for unprecedented durability. A loud-to-soft customizable beep confirms scans in noisy environments. For greater scanning comfort and convenience, the 2435 offers single-handed operation with center and side scanning buttons, as well as an optional, removable pistol grip handle. The battery can be easily changed even with the handle in place.

As with all 2400 series computers, the 2435 supports the Wi-Fi IEEE 802.11b wireless and TCP/IP standards, and can be factory configured with VT/ANSI or IBM terminal emulation. All 2400 series computers support Microsoft® C++ programming for client/server applications, in addition to text based browsing via Intermec's acclaimed dcBrowser™, and terminal emulation via Intermec's TE2000 client application.

**Physical Characteristics**

**Length:** 25.4 cm (10 in)  
**Width:** 10.16 cm (4 in) at display  
**Height:** 4.57 cm (1.8 in) at grip  
**Weight:** 708.7 g (25 oz) with battery

**Environment**

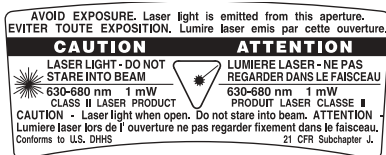
**Operating Temperature:**  
 -20 to 50 degrees C (-4 to 122 degrees F)  
**Optional Heater:**  
 -30 degrees C (-22 degrees F)  
**Storage Temperature:**  
 -20 to 50 degrees C (-4 to 122 degrees F)  
**Recharging Temperature:**  
 0 to 40 degrees C (32 to 39.2 degrees F)  
**Humidity:** 0 – 90% relative humidity (non-condensing)  
**Shock and Vibration Protection:** 10 to 100 Hz @ 2g'sRMS (Random) on three axes; 50-250 Hz @ .25g's RMS (Random) when in Dock  
**Rain and Dust Resistance:** IP54  
**Drop Survival:** Withstands multiple 5-foot drops to concrete

**Power**

**Battery Pack:** 7.4V, 1500 mAh Lithium ion  
**Battery Life:** 8 hr. minimum at typical usage level  
**AC Adapter/Recharging:** Internal battery via AC adapter, powered vehicle dock or multi-battery gang charger.

**Hardware**

**Memory:** 1MB RAM / 4 MB Flash  
**Interfaces:** RS-232, RF.  
 Connector module supports 6-pin mini-DIN for serial, unit cloning and power, 9 pin-D sub for either decoded or non-decoded scanner support and vehicle dock connector for serial comm. and power

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**Display:** Configurable LCD display supporting up to 21 lines by 31 characters (160 x 128 pixels) with black on white electroluminescent backlighting. Lens is scratch resistant for durability and non-glare for maximum readability indoor and outdoor.

**Keyboard:** Polyurethane capped elastomeric 57-key with full alphanumeric and function keys or 39-key larger numeric with function keys and shifted alpha. U.S. and European character sets, IBM 3270 and IBM 5250, and VT/ANSI template overlays.

**Software**

**Programmable:** Microsoft® C, PSK Terminal Emulation: 5250, 3270, VT220  
**Connectivity:** TCP/IP with DHCP, Berkeley socket interface; UDP Plus

**Bar Code Symbologies**

Code 39, UPC/EAN, Code 128, Interleaved 2 of 5 and non-Interleaved 2 of 5, Codabar, Code 93, Code 11, Plessey, MSI, PDF-417(\*)  
 (\*) Supported via tethered scanner

**Bar Code Scanning Module Options**

Integrated visible laser diode scanner. Adapter module for use with Intermec cable scanners and wands is standard.

**Standard and Long Range Scanners:** USA/Canada Class II, International Class 2  
**Advanced Long Range Scanner option:** USA/Canada Class II, International Class 3A

**Depth of Field\* - Standard Range (670 nm)**

|                         |                |               |
|-------------------------|----------------|---------------|
| 5 mil                   | 9.4 – 15.7 cm  | 3.7 – 6.2 in  |
| 10 mil                  | 7.4 – 35.3 cm  | 2.9 – 13.9 in |
| 20 mil                  | 10.2 – 63.5 cm | 4 – 25 in     |
| 30 mil                  | 10.2 – 86.4 cm | 4 – 34 in     |
| 40 mil                  | 12.7 – 99 cm   | 5 – 39 in     |
| 55 mil                  | 19.1 – 126 cm  | 7.5 – 49 in   |
| 55 mil retroreflective  | 105 – 151 cm   | 41 – 59 cm    |
| 100 mil retroreflective | 113 – 227 cm   | 44 – 89 in    |

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**Depth of Field\* - Long Range (650 nm)**

|                         |                 |                 |
|-------------------------|-----------------|-----------------|
| 5 mil                   | 29.5 – 49.8 cm  | 11.9 – 19.6 in  |
| 10 mil                  | 21.8 – 85.3 cm  | 8.6 – 33.6 in   |
| 20 mil                  | 21.8 – 98 cm    | 8.6 – 38.6 in   |
| 30 mil                  | 24.4 – 192 cm   | 9.6 – 75.6 in   |
| 40 mil                  | 24.4 – 204.7 cm | 9.6 – 80.6 in.  |
| 70 mil                  | 192 – 410.5 cm  | 76.6 – 161.6 in |
| 100 mil retroreflective | 212.3 – 532 cm  | 83.6 – 209.6 cm |

\*Measured for Code 39.

**Integrated RF module****Internal Antenna:****Wi-Fi compliant IEEE 802.11b**

**Radio type:** Direct Sequence Spread Spectrum

**Output power:** 100 mW max

**Data speed:** 11 / 5.5 / 2 / 1 Mbps with auto-fallback for increased range

**Coverage:** >80 m

**Range at 11 Mbps:** 160 m (525 ft) outdoors, 24 m (80 ft) indoors

**2.4 GHz WLI Forum OpenAir Compatible**

**Radio type:** Frequency Hopping Spread Spectrum

**Output power:** 100 mW max

**Data speed:** 11 Mbps

**Coverage:** >80 m

**Range at 1.6 Mbps:** Up to 150 m (500 ft) indoors and up to 300 m (1,000 ft) outdoors

**Accessories**

Powered and non-powered vehicle dock, handstrap, pistol grip handle, battery charger, battery pack, user's manual, power and serial adapter (Mini-DIN and DB9), Programmers Tool-Kit (PSK & EZBuilder™)

**Regulatory Approvals**

UL Listed, UL 1950 and C22.2 No. 950, TÜV, Rheinland GS, EN 60950 and EN 60825-1, FCC Part 15, Canada, ICES-300 Class B, EN 55022 / CISPR 22, Class B, EN 55024. Compliant with all European directives, CE marked.

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