

## Product profile

# CK31

## Handheld Computer



- Brilliant backlit ¼ VGA display with touch screen
- Based on industry standard platform Microsoft® Windows® CE .NET
- Integrated 1D (standard, long range)/ 2D Intermec scanning technology
- Cisco compatible 802.11b/g radio with industry standard wireless security protocols
- Non-Incendive option for hazardous locations
- Advanced ergonomic design for comfort in scan intensive applications

The Intermec® CK31 mobile data collection terminal continues the tradition of delivering on Intermec's promise of rugged, reliable computing, thoughtful ergonomic design and high throughput.

The CK31 delivers the right blend of features and performance with the Microsoft® Windows® CE .NET operating system to provide the optimum combination of real time operation, tools support and standard connectivity.

Intermec has added features that enhance mobile data collection such as simplified setup menus and display icons to provide intuitive, graphic-based status information. Web-based applications can easily be implemented with Microsoft Internet Explorer or Intermec's browsers.

The Intel® XScale™ processor provides more than enough power to drive the bright color display, a range of peripherals, repetitive scanning and wireless network traffic. It delivers the level of response time and throughput required for real time, mission-critical applications in warehousing and distribution or retail (store) operations.

The CK31 screen can be read in a variety of indoor and outdoor conditions. Its full "quarter VGA" resolution features a

touch screen, so the CK31 is able to run both traditional, text-based applications or today's more graphic interface.

Multiple keyboard options provide flexibility for applications that range from shipping and receiving, put-away and picking to cycle counting for the warehouse floor. An optional user-installable and removable pistol grip handle is ideal for highly repetitive scanning.

The device offers a new area imager for the greatest scanning flexibility by supporting all significant 1D and 2D symbologies. For usage in hazardous locations, the CK31 is available with non-incendive (Div 2) certification.

The CK31's Wi-Fi® certified 802.11b/g radio, including compatibility with a Cisco infrastructure, insures the best available wireless network throughput and reliability. A convenient communication dock provides wired host connectivity.

Security features of the CK31 support the highest level of protection. The CK31 complies in full with 802.1x standards including the Windows standard EAP-TLS and PEAP, EAP-TTLS and compatibility with many existing networks with LEAP support.



The CK31 includes a high capacity lithium-ion battery for at least a full shift of usage without having to change the battery.

With the addition of Intermec's SmartSystems™, the CK31 can be used to remotely manage peripherals as well as to remotely and easily manage global deployments.

#### Physical Description

The CK31 is a rugged handheld mobile data collection computer featuring an embedded Microsoft® Windows® CE .NET operating system and an Intel™ XScale™ PXA255 processor.

#### Physical Characteristics

**Length:** 233 mm (9.2 in.)  
**Height:** 41 mm (1.6 in.) at grip area  
**Width at grip:** 71 mm (2.8 in.)  
**Weight:** 611 grams (21 oz).  
743 grams (26 oz) with handle.

#### Hardware

**Microprocessor:** Intel XScale PXA255, 400 MHz  
**Memory:** 64 MB RAM and 64 MB non-volatile flash  
**Memory/Storage extensions:** Secure Digital (SD) card slot, user accessible.  
**Display:** 240 x 320 (1/4 VGA) backlit transreflective display with 3.5" diagonal supporting 16-bit color depth (65K colors) and resistive panel touch screen. Integrated stylus storage slot on backside of computer.  
**Keypad:** Bezeled elastomeric keypad with multiple layout options: 52-key alphanumeric including 4 function (F) keys; 42-key function/numeric and 50-key alphanumeric layouts.  
**Interfaces:** Options for Bluetooth™ USB version 1.1 (through dock) or serial RS-232 (through dock or adapter)

#### Operating System

Microsoft Windows CE .NET 4.2

#### Software

**Terminal Emulation:** VT/ANSI, 5250, 3270. Supports Intermec TE2000 and third party solutions, RDP/Remote Terminal Services  
**Development Environments:** Embedded Visual C++ 4.0, .NET Compact Framework (VB .NET and C#)  
**Browser support:** IE6 and Intermec dcBrowser and iBrowse  
**Software Development Kit:** Supports device specific features and bar code scanning  
**Bundled Productivity Applications:** WordPad, Transcriber and Imager scan demo program

#### Bar Code Scanning

Options for 1D linear imager, 2D area imager and multiple lasers (standard and long range).

Supports all popular symbologies including Code 39, I 2 of 5, S 2 of 5, Matrix 2 of 5, Code 128, Code 93, Code 93i, Codabar, Codablock, MSI, Plessey, UPC, EAN/EAN128, ISBT128, Code 11, RSS, Telepen, PDF417, Micro-PDF417 plus 2D support for UCC-EAN Composite, Maxicode, Datamatrix, QR Code

#### Integrated Radio

**Data Rates:** Up to 54 Mbps per 802.11g; 11 Mbps per 802.11b  
**Antenna:** Internal  
**Standards Compliant:** IEEE 802.11g (2.4 GHz - OFDM), IEEE 802.11b (2.4 GHz - DSSS)  
**Radio Power:** 50 mW Security: WEP, WPA2, 802.1x (EAP-TLS, TTLS, LEAP, PEAP), Microsoft VPN\*  
**Certifications:** Wi-Fi, WPA2 Cisco Compatible logo indicates compatibility with a Cisco infrastructure

#### Device Management

**SmartSystems™ Support:** Centralized remote support capability; Configures, updates and maintains single devices or entire populations; Real-time or batch, wired or wireless; Based on Wavelink Avalanche™ with Intermec's value added utilities

#### Speaker

Programmable "beeper" with adjustable frequency and duration for scanning feedback or audio indicator under program control

#### Power

**Battery Type:** Lithium-Ion 2400 mAh,  
7.4V with 10 min. RAM backup (supercap)  
**Battery Life:** 8 or more hours at typical usage level

#### Environment

**Operating Temperature:** -20° to 50°C (-4° to 122°F). Can be used at -30°C (-22°F) for limited periods.  
**Storage Temperature:** -20° to 60°C (-4° to 140°F)  
**Humidity:** 10 to 95% non-condensing  
**Electrostatic Discharge:** 6KV contact, 12KV air  
**Environmental protection:**  
IP64 - completely sealed for dirt and dust, and protected from splashing water and rain.  
**Drop Survival:** Multiple 1.8m/6 ft. drops to steel or concrete  
**Vibration and shock protection:** Tested to MILPRF-28800F standards

#### Accessories

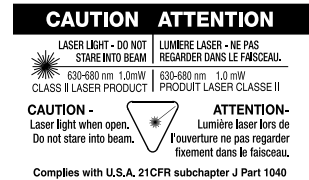
**Vehicle mount cradles:** Non-powered. 3rd party powered docks available.  
**Communications and charging docks:** Single bay communications cradle with serial/USB/Ethernet, 4-slot communications dock with serial/Ethernet.  
**Chargers:** 4-slot battery charger, 4-slot terminal charge-only dock.  
**Serial adapters:** Snap-on for DB9 interface for decoded and undecoded tethered scanners.  
**User Accessories:** Pistol grip handle; holster; hand strap; wrist strap; protective case, protective boot, swiveling belt clip

#### Regulatory Approvals

cULus Listed, GS, NOM-NYCE, GOST, CE, TISI, DGT, BSMI, IDA, NTC, MIC, SRRC, VNPT, MIC, FCC Part 15/ICES-003/EN55022/CISPR 22 Class B, CDRH 21 CFR 1040 Class II (LASER version only)

#### Regulatory Approvals

(Non-Incendive Option)  
UL Listed, UL 1604 and C22.2 No. 157  
**Gases:** Class I - Groups A, B, C, D  
**Dusts:** Class II - Groups F, G  
**Fibers and flyings:** Class III North America only



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