

Product Profile

- **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**



CK31 HANDHELD COMPUTER

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.

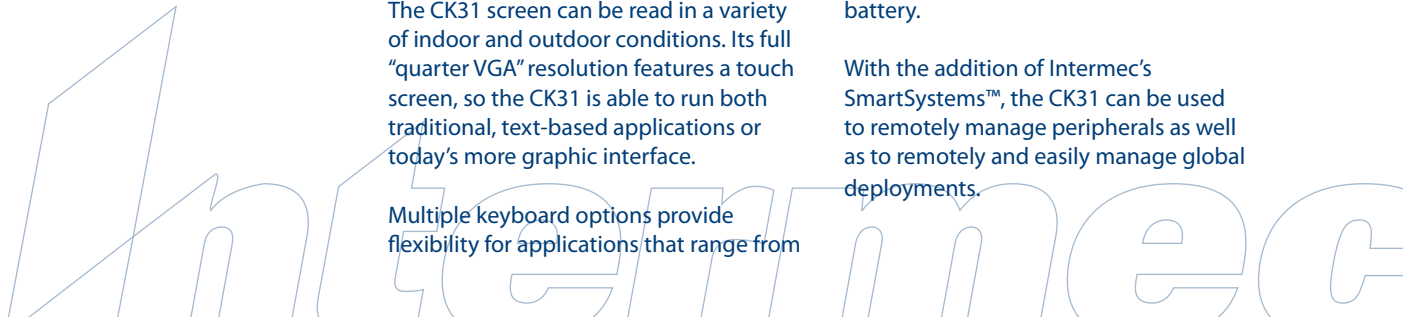
The device offers a new area imager for the greatest scanning flexibility by supporting all significant 1D and 2D symbologies. For usage in hazardous locations, the CK31 is available with non-incendive (Div 2) certification.

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

North America

Corporate Headquarters
 6001 36th Avenue West
 Everett, Washington 98203
 tel: 425.348.2600
 fax: 425.355.9551

550 2nd Street S.E.
 Cedar Rapids, Iowa 52401
 tel: 319.369.3100
 fax: 319.369.3453

Media Supplies
 9290 Le Saint Drive
 Fairfield, Ohio 45014
 tel: 513.874.5882
 fax: 513.874.8487

Canada

7065 Tranmere Drive
 Mississauga, Ontario
 L5S 1M2 Canada
 tel: 905.673.9333
 fax: 905.673.3974

**Europe/
Middle East & Africa
Headquarters**

Reading International Business Park
 Basingstoke Road
 Reading RG2 6DD
 United Kingdom
 tel: 44.118.923.0800
 fax: 44.118.923.0801

Asia

Asia Regional Office
 #05-02A/03 New Tech Park
 151 Lorong Chuan
 Singapore 556741
 tel: 65.6324.8391
 fax: 65.6324.8393

Beijing Representative Office

29 FL, Unit A1, China Merchant Tower
 118 Jian Guo Road
 Chaoyang District, Beijing 100022
 Tel: 86.10.5165.5922
 Fax: 86.10.6567.6778

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, I2 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

Australia

Level 4, 1-3 Atchison Street
 St. Leonards, NSW 2065
 Australia
 tel: 61.2.9330.4400
 fax: 61.2.9437.0204

South America & Mexico

Intermec South America Ltda.
 Rua Samuel Morse 120 9 andar
 Brooklin CEP04576-060
 São Paulo, SP
 Brazil
 tel: 55.11.5502.6770

Intermec Technologies de Mexico

Av Tamaulipas #141, Primer Piso
 Col. Hipodromo Condesa
 Mexico, DF, 06140 Mexico
 tel: 525.55.241.4800
 fax: 525.55.211.8121

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.

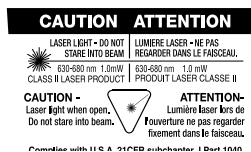
User Accessories: Pistol grip handle; holster; hand strap; wrist strap; protective case, protective boot, swiveling belt clip

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

**Internet**

www.intermec.com

Sales

800.934.3163
 (toll free in N.A.)
 tel: 425.348.2726

OEM Sales

tel: 425.348.2762

Customer Service and Support

800.755.5505
 (toll free in N.A.)
 tel: 425.356.1799

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