

CK31ex

Mobile Computer



- **Highly versatile scanning with integrated near-far area imaging technology**
- **Image capture capability eliminates need for digital camera**
- **Omni-directional scanning increases productivity**
- **Ready for the increased use of 2D and stacked symbologies**
- **Cisco compatible 802.11b/g radio with industry standard wireless security protocols**
- **Ideal support for WMS applications**

The rugged CK31ex mobile computer delivers the ultimate in warehouse productivity. By integrating breakthrough auto-focus area imaging technology, the CK31ex enables users to quickly scan any type of bar code, in any orientation, from six inches to 50 feet away, opening up new efficiencies and application opportunities across the warehouse.

The CK31ex eliminates the need for multiple devices and substantially reduces total cost of ownership. With the CK31ex, users can scan 1D, 2D, composite and postal codes; capture images, signatures and documents; read at near and far distances; and successfully cope with damaged, poorly printed or partially obscured codes in variable lighting conditions.

This combination of features and capabilities cannot be matched by any long range product on the market.

Available with factory-loaded Terminal Emulation support, the feature-rich CK31ex meets a variety of needs, from users on the manufacturing line who scan small 2D bar codes, all the way to those in the warehouse that need to scan large, linear bar codes on the fourth tier of the pallet racking. Multiple keyboard options and a user-installable pistol grip handle also provide application flexibility. With the CK31ex, companies

can standardize their training, support and maintenance, substantially reducing total cost of ownership.

With omni-directional scanning, laser pointer auto-determining illumination and centered decoding, the CK31ex makes it easy to scan at variable distances, lighting conditions and angles, improving worker productivity and accuracy. In addition, the CK31ex touch screen, with full quarter VGA resolution, can be read in a variety of indoor and outdoor conditions.

The CK31ex positions your enterprise for the future with a combination of best-in-class features and functionality 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 CK31ex incorporates all the leading industrial mobile computing technologies – Microsoft® Windows CE.NET operating system, 802.11 b/g, Intel XScale™ processor, integrated scanning, and USB—to deliver the optimum combination of real time operation and throughput required for real time, mission-critical applications in warehousing and distribution or store operations.

In addition, the CK31ex also supports: SmartSystems™, Wavelink Avalanche Remote Device Management, Cisco Client Extensions (CCX), Wi-Fi, .NET, Java and the Intermecc Developer Library (IDL). This commitment allows customers to further maximize their investments by providing a strategy for on-going, industry leading technology updates, as well as support for fast application development and deployment.

The CK31ex enables companies to more effectively address their current data capture needs while providing built-in readiness for tomorrow's new warehouse management requirements.

Physical Description

The CK31ex is a rugged mobile computer with integrated near/far area imaging technology, ideal for warehouse management applications. It features 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: 651 grams (23 oz)
783 grams (27.6 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 touch panel 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 Intermecc 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 Intermecc 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

2D near-far, auto-focusing area imager

Supports all popular symbologies including Australian Post, Aztec, BPO, Codabar, Codablock A and F, Code 11, Code 39, Code 93/93i, Code 128, ISBT 128, EAN 128, DataMatrix, Dutch Post, Canada Post, EAN.UCC composite, Interleaved 2 of 5, Japan Post, Matrix 2 of 5, MaxiCode, MSI Code, PDF417/MicroPDF417/MacroPDF417 (unbuffered mode), Planet, Plessey, Postnet, QR Code, RSS, Industrial and Standard 2 of 5, Telepen, TLC39, UPC/EAN/ISBN/ISSN/ISMN/GTIN processing

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 Intermecc'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. third-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 un-decoded tethered scanners.
User Accessories: Pistol grip handle; holster; hand strap; wrist strap; protective case, 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 I laser

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