Falcon® 4410/4420
Portable Data Collection Terminals

The Falcon 4410 and 4420 package the power of the latest mobile computing technology in a rugged and ergonomic mobile computer designed to master your inventory management applications. Whether in the harsh environment of a distribution center or in a fast-paced retail-in-store environment, the Falcon 4410/4420 has the feature set, accessories, and tools to meet your needs.

Built for the Warehouse

The Falcon 4410 and 4420 were designed to excel in warehouse and distribution center environments. Coupled with the widest range of scanning options (Standard, Long Range, and Advanced Long Range), low operating temperature specification (-20°C), and an 84dB speaker, the Falcon 4410/4420 meets the unique needs of these industrial environments.

With a multiple 4-foot drop specification and an IP54 environmental seal rating, the Falcon 4410/4420 is well suited to withstand the rigors of your commercial or industrial environment.

Cutting Edge Mobile Technology

Inside the sleek Falcon 4410/4420 are cutting edge technologies from the leaders in mobile and wireless technology, such as Microsoft, Intel, Cisco, and others. The Falcon 4410/4420 features the Intel® XScale™ PXA255 400MHz processor and the Microsoft™ Windows CE .NET operating system, providing you with the power and flexibility to deploy sophisticated mobile applications in your enterprise.

The Intel XScale processor provides you with the highest performing mobile processor available today along with advanced power management capabilities for extended battery life. Microsoft's Windows CE .NET operating system gives you the freedom to select the software solution that best meets your needs.

Ergonomic Scanning

The Falcon 4410 is contoured to fit comfortably in an operator's hand for extended periods of fatigue-free data collection activities. The Falcon 4420 with its integrated handle is ergonomically designed for scan-intensive applications. The Falcon 4420 also allows for greater scanning efficiency when used with either the Long Range or Advanced Long Range laser, especially when scanning pallet labels on the top rack shelf.

Features:

- Intel® XScale™ PXA255 400MHz
- Windows CE .NET Operating System
- Standard, Long Range, Advanced Long Range Integrated Laser Scanner Options
- Industry Leading Beeper Volume of 84dB
- Instant-On Trigger (Falcon 4420 Only)
- Open architecture - PC Card Slot for RF, Memory, etc.
- Supports leading 802.11b wireless LANs, including Cisco Aironet, Lucent/Proxim Orinoco, Symbol Spectrum24 HighRate
Specifications
Falcon™ 440/4420

Mechanical

Dimensions
Length: 8.9” / 22.6 cm
Width at display: 3.4” / 8.6 cm
Width at grip: 2.5” / 6.4 cm
Height at grip: 1.6” / 4.1 cm

Weight (w/battery pack)
4410, Laser: no radio: 17.6 oz / 499 g
4420, Laser: no radio: 19.4 oz / 550 g
4410, Laser: radio: 18.9 oz / 536 g
4420, Laser: radio: 20.7 oz / 587 g

Display
3.3” diagonal VGA display;
320 x 240 pixels;
256-Level grayscale

Keypad
26-key standard alphanumeric - multi-click alpha characters,
5 dedicated function keys, 5 shifted, navigation rocker
52-key full alphanumeric
5 dedicated function keys, 15 shifted, navigation rocker
5250 support

Construction
Industrial, high-strength polycarbonate/
ABS-blend plastic

Environmental

Temperature rating
Operating: -4° to 122° F / -20° to 50° C
Storage: -40° to 158° F / -40° to 70° C

Humidity: 5 to 95% NC

Shock: multiple 40” / 12m drops to concrete

Water & Dust: IEC529 rating IP54/ DW

Printing resolution, contrast and ambient light dependent; *Minimum distance determined by symbol length and scan angle

Optical

Light source:
Laser: 650nm
Scan rate:
ID: 35 ± 5 scans/sec.

Depth of Field: Refer to chart below

Standard
Artificial light: 450 ft-candles / 4844 lux
Sunlight: 8000 ft-candles / 8632 lux

Range/Advanced Long Range
Artificial light: 450 ft-candles / 4844 lux
Sunlight: 8000 ft-candles / 8632 lux

Decoding Capability (autodiscriminates between)

1D Scan Engine
UPC A, E / EAN 8, 13
EAN 128
Code 128
Code 93
Code 39 Full ASCII
Code 52
Codabar
MSI / Plessey

System

Operating System
Windows CE.Net

Microprocessor
Intel® XScale™ PXA255

Memory
RAM: 64 MB
Flash: 64 MB standard

IR Communications Port
IrDA, ActiveSync

Dock Communications
ActiveSync, up to 155 kbps

Power Options

Rechargeable lithium ion battery packs (2000 mAh)
Falcon® dock, Falcon® battery charger
Advanced Power Management (without PC Card)

Sleep off mode with programmable timeout: ~6 mA;
Idle mode: ~50 mA (min)
Operating mode: ~125 mA (min)

Rechargeable lithium backup battery;
Low battery indicator (display icon)

Radio Support
Cisco Aironet 350 (802.11b)
Lucent/Proxim Orinoco 802.11b
Symbol Spectrum 24“ High Rate (802.11b)

System Support

VT100/220, HP700/92, IBM 3270 & 5250
via PowerNet Twin Client™

Web browser support via Microsoft® Pocket Explorer
Software distribution and terminal configuration via Falcon Management Utility (FMU)

TCP/IP Communications

Development Environments

Many standard Windows CE development tools

Insignia J2me Java Virtual Machine (JVM)
Falcon® CE Developers Toolkit
RFBuilder™

Wavelink Studio

Safety and Regulatory

Electrical: Complies to CE

Emissions: FCC Part 15 - Class A, CISPR B

Laser classification: CDRH Class II
(CAUTION: Laser Radiation - do not stare into beam):
IEC 60825 Class 2

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