

Falcon[®] 4410/4420

Portable Data Collection Terminals



Falcon 4420

Falcon 4410

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 86dBA (at 24" / 61cm)/100dBA (at 10cm)
- Instant-On Trigger (Falcon 4420 Only)
- Open architecture – PC Card Slot for RF, Memory, etc.
- Supports Cisco Aironet

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 (-20C), and an 86dBA (at 24") / 100dBA (at 10 cm) 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.



Specifications

Falcon® 4410/4420

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 4.0" / 1.2m drops to concrete

Water & Dust: IEC529 rating IP54DW

Optical

Light source:

Laser: 650nm

Scan rate:

1D: 35 ± 5 scans/sec.

Depth of Field: Refer to chart below

Indicators: Good read LED; scan LED

Ambient light immunity

Standard

Artificial light: 450 ft-candles /4,844 lux
 Sunlight: 8,000 ft-candles /86,112 lux

Long Range/Advanced Long Range

Artificial light: 450 ft-candles /4,844 lux
 Sunlight: 8,000 ft-candles /86,112 lux

Decoding Capability (autodiscriminates between)

1D Scan Engine

UPC A, E / EAN 8, 13
 EAN 128
 Code 128
 Code 93
 Interleaved 2 of 5
 Standard 2 of 5
 Code 39
 Code 39 Full ASCII
 Code 32
 Codabar
 MSI / Plessey

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



DEPTH OF FIELD CHART

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

Label Density	Standard Range	Long Range	Advanced Long Range
5 mil	3.0" - 5.0" / 8.0 - 13.0 cm		
7.5 mil	2.5" - 9.0" / 6.0 - 23.0 cm		
10 mil	2.5" - 13.0" / 6.0 - 33.0 cm	9.0" - 22.0" / 23.0 - 56.0 cm	
100% UPC / 13 mil			19.0" - 29.0" / 48.0 - 74.0 cm
15 mil	2.5" - 19.0" / 6.0 - 48.0 cm	7.0" - 38.0" / 18.0 - 96.0 cm	20.0" - 50.0" / 51.0 - 127.0 cm
20 mil	* - 21.0" / 6.0 - 53.0 cm	7.0" - 45.0" / 18.0 - 114.0 cm	
30 mil			33.0" - 98.0" / 84.0 - 249.0 cm
40 mil	* - 30.0" / 6.0 - 76.0 cm	10.0" - 90.0" / 25.0 - 229.0 cm	
55 mil	* - 36.0" / 6.0 - 91.0 cm	10.0" - 100.0" / 25.0 - 250.0 cm	27.0" - 109.0" / 69.0 - 277.0 cm
70 mil (reflective)		62.0" - 240.0" / 152.0 - 457.0 cm	114.0" - 250.0" / 290.0 - 635.0 cm
100 mil (reflective)		60.0" - 240.0" / 152.0 - 610.0 cm	125.0" - 360.0" / 318.0 - 914.0 cm

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