

Falcon® 4410/4420

Windows® CE.NET Color Mobile Computer

Data Sheet



Falcon 4420 Color

Falcon 4410 Color

Features

- Intel® XScale™ PXA255 400MHz
- Windows CE .NET Operating System
- Bright 64K Color TFT Active Matrix QVGA Display
- 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 (802.11b)

Accessories

- Single-Slot Dock
- Four-Slot Dock
- Battery Charger
- Spare Lilon Battery Pack
- Handle/Handstrap Conversion Kit
- Holsters/Softcases
- USB Charging Cable
- Serial Charging Cable
- Printer Cable

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 (with scanner and battery pack)

Model	Radio	Weight	
4410	no	179 oz	508 g
4420	no	20.0 oz	567 g
4410	yes	19.3 oz	547 g
4420	yes	21.4 oz	607 g

Display: 3.5" active matrix TFT QVGA display; 320 x 240, pixels; 64K colors

Indicators: Good read LED; scan LED

Keypads

26-Key Standard Alphanumeric, 5 dedicated function keys, 5 shifted, navigation rocker
52-Key Full Alphanumeric, 5 dedicated function keys, 15 shifted, navigation rocker, 5250 support

Construction: Industrial, polycarbonate/ABS-blend plastic

Environmental

Temperature Rating

Operating: 14° to 122° F / -10° to 50° C
Storage: -13° to 158° F / -25° to 70° C

Humidity: 5 to 95% NC

Shock: Multiple 4.0' / 1.2m drops to concrete

Water & Dust: IEC52 Rating IP54DW

Optical

Light Source: Laser: 650nm

Scan Rate: 1D: 35 ± 5 scans/sec.

Depth of Field: Refer to the Depth of Field Table, below.

Ambient Light Immunity

Standard Range

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

DEPTH OF FIELD TABLE Typical Range Comparisons			
LABEL DENSITY	STANDARD RANGE	LONG RANGE	ADVANCED LONG RANGE
5 mil	30-50' / 80-130 cm	—	—
75 mil	2-5' / 60-230 cm	—	—
10 mil	25-130' / 60-330 cm	90-220' / 230-560 cm	—
100% +/- 13 mil	—	—	190-290' / 48.3-99.1 cm
15 mil	25-190' / 60-480 cm	70-380' / 180-960 cm	200-500' / 510-1270 cm
20 mil	*210' / 60-530 cm	70-450' / 180-1140 cm	—
30 mil	—	—	330-980' / 840-2490 cm
40 mil	*300' / 60-760 cm	100-900' / 250-2290 cm	—
55 mil	*360' / 60-910 cm	100-1000' / 250-2500 cm	270-1090' / 690-2770 cm
70 mil (reflective)	—	620-2400' / 1520-4570 cm	1140-2500' / 2900-6350 cm
100 mil (reflective)	—	600-2400' / 1570-6100 cm	1250-3600' / 3180-9140 cm

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

System

Operating System: Windows® CE .NET v4.2

Microprocessor: Intel® XScale™ PXA255, 400 MHz

Memory: RAM: 64 MB; Flash: 64 MB

Communications Port: USB 1.1 (ActiveSync) & RS232 (ActiveSync and other RS232 protocols)

Dock Communications: USB 1.1 (ActiveSync) & RS232 (ActiveSync and other RS232 protocols)

PC Card: Internal PC Card Type I/II slot

Beep Tone: 86dBA (at 24" / 61cm) / 100dBA (at 10 cm) (typical) Programmable for pitch and duration

Power Options

Rechargeable Lithium Ion battery pack (2000 mAh)

Falcon Single and Four-Slot Dock with power supply

Falcon Battery Charger

Advanced Power Management: (without PC Card & backlight): Sleep/off mode with programmable timeout: 5 mA; Idle mode: 60 mA (typical); Operating mode: 155 mA (typical). Rechargeable lithium backup battery; Low battery indicator (display icon)

Radio Support: Cisco Aironet (802.11b)

System Support: VT100/220, HP700/92, IBM 3270/5250 terminal emulators; Browser support via Microsoft® Internet Explorer; TCP/IP Communications

Management Tools: Falcon Desktop Utility (FDU) for security & configuration. Falcon Management Utility (FMU) or Wavelink® Avalanche for remote device management & software distribution

Development Environments

Many standard Windows CE development tools, (Embedded Visual C++, Visual C# .NET, Visual Basic .NET, Personal Java 1.1), Java Virtual Machine (JVM), Falcon® CE Developers Toolkit, and Wavelink® Studio.

Decoding Capability (autodiscrimination)

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

Safety and Regulatory

Electrical: EN60950, UL60950, CSA60950

Battery: IATA/UN

Emissions: FCC Part 15C, EN55022, VCCI, ICES-003, CNS 13438, AS/NZS 3548

Radio: FCC Part 15.247, EN 300 328

Laser classification: CDRH Class II

(CAUTION: Laser Radiation—do not stare into beam); IEC 60825-1

Class 2



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Product specifications are subject to change without notice.

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