

Windows® Based Mobile Computer



At A Glance

"We usually receive several truckloads of inventory every morning. The lightweight 4420 with triggered handle provides my operators with an ideal product for scan intensive inventory functions, especially when used at high volume."

— Warehouse Manager, PSC Warehouse Customer



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FEATURES	BENEFITS
Ergonomic and Durable Design	 The lightweight form factor fits comfortably in the user's hand and reduces fatigue during long duration usage. Rugged design survives multiple 5 ft / 1.5 M drops to concrete.
Flexible Input Options	 Select from Standard, Long Range, and Advanced Long Range Laser, Linear Imager and 2D Imager scan engines Select from 26-Key Standard Alphanumeric; 48-Key Full Alphanumeric and 5250 support; 52-Key Full Alphanumeric and 5250 support
Industry Leading Mobile Computing	 Microsoft® Windows Mobile® and Windows® CE provide easy-to-use graphical user interfaces and a host of powerful computing technologies. Intel XScale Microprocessor and 802.11b/g radios deliver superior mobile computing performance.
Usability & Productivity	 The 3.5" QVGA 64K Color Active Matrix Display provides superior low-light and outdoor visibility while maximizing data displayed, yielding higher productivity. The loudest beeper available for audio feedback in noisy industrial environments.

Accessories

- Powered Vehicle Mount Dock
- Single-Slot and Four-Slot Dock
- Four-Slot Battery Charger
- Optional Handstrap Conversion Kit
- Holsters/Softcases
- USB Data Cable
- Serial Charging Cable
- Serial Printer Adapter
- Stylus Tether
- Extended Warranty
- Service Options

Alternative PSC Solutions

- Falcon® 4410 Mobile Computer
- Falcon® 4220 PDA
- Falcon[®] 5500 Hybrid Computer

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The Falcon 4400 Series has tested compatible with Cisco's wireless solution. The Cisco Compatible logo signifies that PSCs product has undergone interoperability testing by PSC together with Cisco and a third party test house based on testing orienia set by Cisco. PSC is solely responsible for the support and warranty of its product. Cisco makes no warranties, express or implied, with respect to PSCs product or its interoperation with the lated Cisco product(s) and disclaims any implied warranties of merchantability, fibress for a particular use or against infringement.



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Falcon[®] 4400 Series

Windows® Based Mobile Computer



Features

- Choice of Microsoft® Windows Mobile® or Windows® CE Operating Systems
- Supports 802.11b and 802.11g Radios
- Standard/Long Range/Advanced Long Range Integrated Laser Scanner, or Linear/2D Imager Options
- Keypad options include 26-key, 48-key, 52- key, and 5250 emulation versions
- Ergonomic Design
- Rugged design survives multiple 5 ft / 1.5 M drops to concrete
- Tethered Stylus provides enhanced stylus security
- Intel® XScale™ PXA255 400MHz
- Bright 64K Color TFT Active Matrix QVGA display
- Industry leading beeper volume
- Instant-On Trigger (Falcon 4420 Only)

Accessories

- Powered Vehicle Dock
- Single-Slot Dock and Four-Slot Dock
- Four-Slot Battery Charger
- Handle/Handstrap Conversion Kit
- Holsters/Softcases
- USB Data Cable
- Serial Charging Cable
- Serial Printer Adapter



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Mechanical

Dimensions

Length: 9.0" / 22.6 cm Width at display: 3.5" / 8.6 cm Width at grip: 2.5" / 6.4 cm Height at grip: 1.6" / 4.1 cm

Weight: 23.3 oz / 724 g (Will vary depending upon the configuration selected. Falcon 4400 model shown with radio, scanner, and battery pack)

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; 48-Key (handled version only) Full Alphanumeric and 5250 support; 52-Key Full Alphanumeric and 5250 support

Construction: Industrial, polycarbonate/ABS-blend plastic shell with thermoplastic urethane overmold

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 5.0' / 1.5 M drops to concrete Water & Dust: IEC529, Rating IP54DW

Optical	Laser Scan Engine		Linear	2D	
Optical	SR*	LR*/ALR*	Imager	Imager	
Light Source	650 nm	650 nm	645 nm	626 nm	
Scan Rate	35 ± 5	35 ± 5	36 ± 5	N/A	
	scans/sec.	scans/sec.	scans/sec.		
Ambient Light Immunity					
Artificial Light	4,844 Lux	4,844 Lux	100,000 Lux	N/A	
Sunlight	86,112 Lux	86,112 Lux	100,000 Lux	100,000 Lux	
* Key: SR = Standard Range, LR = Long Range, ALR = Advanced Long Range.					

DEPTH OF FIELD TABLE

Typical Range Comparisons Laser Scan Engine 2D Label Density LR* Imager Imager 5 mil 3.0-5.0"/ 3.0-5.0". _ **UPCA** 8-13 cm 8-13 cm 2.5-9.0"/ 75 mil _ _ 6-23 cm 2.5-6.6"/ 8 mil 6-17 cm 10 mil 25-130"/ 15.5-24"/ 1.5-7.0"/ 2.1-8.0"/ Code 39 6-33 cm 39-61 cm 4-18 cm 5-20 cm 15.0-45.0"/ 1.5-8.0"/ 2.5-12.5"/ 13 mil Code 39 38-114 cm 4-20 cm 2.5-19"/ 9-33"/ 21-12.8"/ 15 mil 20-50"/ 6-48 cm Code 39 23-84 cm 51-127 cm 5-33 cm 15 mil 2.3-9.2"/ 6-23 cm Data Matrix 15 mil 3.1-7.8"/ QR Code 8-20 cm 1.0-29"/ 11-47" 1.5-11.5" / 20 mil Code 39 3-74 cm 28-119 cm 4-29 cm 30 mil 32-85"/ Code 39 81-216 cm 2-11"/ 35 mil 5-28 cm MaxiCode 40 mil 3.0-15.0" 2.5-30"/ 13-83"/ Code 39 6-76 cm 33-211 cm 8-38 cm 26-100"/ 55 mil 40-45"/ 16-100"/ Code 39 10-114 cm 41-254 cm 66-254 cm 70 mil 47-199"/ 113-249"/

Key: SR = Standard Range, LR = Long Range, ALR = Advanced Long Range. Minimum distance determined by symbol length and scan angle. Dependent upon printing resolution, contrast, and ambient light

287-632 cm

124-350"/

315-889 cm

119-5<u>05</u> cm

59-240"/

150-610 cm

(reflective)

100 mil

(reflective)

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Data Sheet

System

Operating System: Windows® CE v4.2 or v5.0, Windows Mobile® v5.0

Microprocessor: Intel® XScale™ PXA255, 400 MHz

Windows® CE: RAM: 64 MB or 128 MB; Flash: 64 MB Windows Mobile®: RAM: 64 MB: Flash: 64 MB

Dock Communications: USB 1.1 (ActiveSync) & RS-232 (ActiveSync and other RS-232 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 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

Windows CE: 802.11b or 802.11g Windows Mobile®: 802.11g

System Support: VTI00/220, 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 managment & software distribution.

Development Environments:

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

Windows Mobile®: Visual Studio 2005 and Wavelink® Studio.

Decoding Capability (auto-discrimination)†

1D Codes

- Code 32. 39. 93
 EAN/IAN 8.13
 Matrix 2/5 • EAN/UPC 2 digit ext.
- MSI / Plessey Codahar • FAN 128 EAN/UPC 5 digit ext.
- UPC A, E • Standard 2/5 • EAN/UCC Composite Code 128
- Interleaved 2/5 Code 39 Full ASCII RSS-14/RSS Limited Code 128 ext. 2D Codes
- PDF-417 • RSS Expanded • Data Matrix OR Code
- Micro PDF-417
 Aztec Code • OCR-A/B Maxi Code
- U.S. Currency Serial Number MICR F 13 B Postal Codes
- † Please refer to the appropriate Product Reference Guide (PRG) for specific symbology support for the laser scan engine or imaging scan engine options.

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: Class 3R for ALR devices

Restriction of Hazardous Substances: Complies to FU RoHS













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