alcon[®] 4400 Series

Windows[®] Based Mobile Computer



Features

- Industry leading ergonomics combine superb balance, light weight and arched grip for ease of use
- Flexible configurations provide choice of two operating systems, six bar code scan engines and seven keypads
- Rugged construction survives industrial environments and multiple drops to concrete

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



The *Bluetooth*^{*} word mark and logos are owned by Bluetooth SIG, Inc. and any use of such marks by PSC Inc. is under license.



The Falcon 4400 Series has tested compatible logo signifies that PSCs product of the support and the series of the serie



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Mechanical

Dimensions

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

- Weight: 724 g / 23.3 oz (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, up to 400 NIT, anti-reflective

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; 52 key numbers up and 5250
- Construction: Industrial, polycarbonate/ABS-blend plastic shell with thermoplastic urethane overmold

Environmental

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

Humidity: 5 to 95% NC

Shock: Up to multiple 1.5 M / 5.0' drops to concrete

Water & Dust: CIE IEC 60529, Rating IP54

	,	0				
Ontical	Laser Sca	Linear Imager				
Optical	SR*	LR*/ALR*	Linear imager			
Light Source	650 nm	650 nm	645 nm			
Scan Rate	35 ± 5	35 ± 5	36 ± 5 scans/sec.			
	scans/sec.	scans/sec.	JU I J Stal IS/SEC.			
Ambient Light Immunity						
Artificial Light	4,844 Lux	4,844 Lux	100,000 Lux			
Sunlight	86,112 Lux	86,112 Lux	100,000 Lux			
* Key: SR = Standard Range, LR = Long Range, ALR = Advanced Long Range.						

DEPTH OF FIELD TABLE Typical Range Comparisons							
Label Density	Standard Range	Long Range	Advanced Long Range	Linear Imager	2D SR Imager	2D HD Imager	
5 mil	8-13 cm / 3-5"	-	-	8-13 cm / 3.0-5.0"	-	-	
6.6 mil PDF-417	_	_	_	_	11-16 cm / 4.0-6.5"	4-13 cm / 1.8 - 5.0"	
7.5 mil	6-23 cm / 2.5-9"	_	_	_	_	4-13 cm / 1.5-5.0"	
8 mil	_	_	_	_	8-20 cm / 3.3-8.0"	_	
10 mil	6-33 cm / 2.5-13"	37-42 cm / 14.5-16.5"	—	4-23 cm / 1.5-9"	8-23 cm / 3.2-9.2"	3-17 cm / 1.2-6.6"	
8.3 mil Data Matrix	_	_	_	_	_	6-12 cm / 2.4-4.7"	
8.3 mil QR Code	_	_	_	_	_	6-11 cm / 2.4-4.4"	
13 mil / 100% UPC	_	_	23-56 cm / 9-22"	4-27 cm / 1.5-10.5"	6-32 cm / 2.5-12.5"	3-20 cm /1.0-7.9"	
15 mil	6-48 cm / 2.5-19"	23-84 cm / 9-33"	51-127 cm / 20-50"	_	5-33 cm / 2.1-12.8"	-	
15 mil Data Matrix	_	_	_	_	9-17 cm / 3.7-6.5"	_	
20 mil	*6-53 cm / 2.5-21"	20-101 cm / 8-40"	_	4-30 cm / 1.5-12"	_	_	
30 mil	_	_	84-226 cm / 33-89"	_	_	_	
35 mil MaxiCode	_	_	-	_	5-33 cm / 2.0-13.0"	_	
40 mil	* 6-76 cm / 2.5-30"	33-211 cm / 13-83"	_	4-43 cm / 1.5-17"	_	_	
55 mil	* 6-91 cm / 2.5-36"	48-236 cm / 19-93"	97-305 cm / 38-120"	_	-	_	
70 mil (reflective)	_	119-376 cm / 43-148"	215-660 cm / 85-260"	_	_	_	
100 mil (reflective)	—	127-533 cm / 50-210"	241-813 cm / 125-320"	—	—	_	
*Minimum distance determined by symbol length and scan angle. Dependent upon printing resolution, contrast, and ambient light.							

Data Sheet

System

Operating System: Windows® CE v5.0, Windows Mobile® v5.0 Microprocessor: Intel® XScale™ PXA255, 400 MHz Memory:

64 MB RAM / 64 MB FLASH

128 MB RAM / 128 MB FLASH

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

PC Card: Internal card slot

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

Power Options

- Rechargeable Lithium Ion Battery Pack
- 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

WLAN: IEEE 802.11 b/g

WLAN Security: Cisco CCX; Windows Zero Configuration Bluetooth® wireless technology: Class 2 Version 1.2

- 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:

Embedded Visual C++, Visual C# NET, Visual Basic NET, Personal Java 1.1, Java Virtual Machine (JVM), Falcon® CE Developers Toolkit, Wavelink® Studio, Visual Studio 2005, and Wavelink® Studio.

Decoding Capability (auto-discrimination)+

1D Codes				
• Code 32, 39, 93				

D COUCO			
• Code 32, 39, 93	• EAN/JAN 8,13	Matrix 2/5	 EAN/UPC 2 digit ext.
 Codabar 	 EAN 128 	 MSI / Plessey 	 EAN/UPC 5 digit ext.
 Code 128 	• UPC A, E	Standard 2/5	 EAN/UCC Composite
 Code 128 ext. 	 Interleaved 2/5 	Code 39 Full AS	CII • RSS-14/RSS Limited
2D Codes			
• PDF-417	 RSS Expanded 	 Data Matrix 	QR Code
 Micro PDF-417 	Aztec Code	• Maxi Code	OCR-A/B
 U.S. Currency Serial Number 		 MICR E 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 (CAUTION: Laser Radiation, doined and 60825-1, Class 2; Class 3R for ALR devices Restriction of Hazardous Substances: RoHS version available



PSC Inc. 959 Terry Street Eugene OR 97402-9150 USA Tel: 800 695 5700 / 541 683 5700 Fax: 541 345 7140 www.psc.com

PSC Barcode Limited (UK Office) Axis 3, Rhodes Way Watford, England WD24 4TR7 Tel: 44 0 1923 809500 Fax: 44 0 1923 809505



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