

# Falcon® 320 & 325

Portable Data Terminals



## Features:

- Lightweight, ergonomic, compact design
- Open architecture design
- DOS 6.22, 486 PC-compatible
- User-accessible PC Card slot
- Integrated laser options
- 16 x 20 graphics backlit LCD
- Wireless options:
  - Choice of 2.4 GHz spread spectrum radios
  - Long range mobility
  - High throughput network capacity
  - Advanced power management
  - Seamless roaming
  - Access points, antennas and cables
  - Network and Terminal emulation software

## Portable Data Collection Terminal Solution

Fast, accurate, customizable real time Automatic Data Collection—this is the need of today's businesses striving for greater efficiency, productivity and cost-effectiveness. The Falcon® series 320/325 by PSC is the answer. Open standards, powerful applications and ease of use allow these portable data collection terminals to integrate seamlessly into the supply chain of companies involved in logistics, manufacturing, retail, warehousing and distribution.

Rugged enough for the warehouse, but ergonomically designed for ease of use, the Falcon® 320 and 325 offer a 16-line screen, 486-class processor, 33 MHz operating speed, integrated scanning, and a user-accessible PC Card slot. Their open architecture affords easy application development. And the Falcon® 325 is available with PowerNet Twin Client to support VT100, VT220, HP700/92, IBM 3270 and 5250 terminal emulations, with screen formatter, allowing swift and simple integration into your existing legacy system.

While the Falcon® 320 provides ideal batch data collection solutions, the Falcon® 325, a wireless data collection terminal, is particularly ideal for data collection throughout the supply chain where real-time access to data is required. Our 2.4 GHz spread spectrum radio terminals have raised the bar in information management data collection, allowing information to be transmitted instantly, in real-time, without the use of wired connections.

With the international quality standards set by ISO 9000, Computer Integrated Manufacturing (CIM), Just In Time (JIT) and Total Quality Control (TQC), companies are required to have documented procedures and effective automated data capture applications, such as inventory control, work in progress, labor tracking, receive-putaway and pick-ship systems. The aptly named Falcon® soars in this environment.

## Choose From a Variety of Accessories for the Falcon® 320 & 325:

- Single or 4-slot Docks
- Softcase, Holster
- Falcon-to-Host Serial Cable
- Nicad Battery Pack
- ATA Flash Cards (8, 16, and 32 MB versions)
- Single or 4-slot Chargers
- 56K Modem
- Dock-to-Host Serial Cable
- NiMH Battery Pack



# Specifications

Falcon® 320 & 325

## PRODUCT and SYSTEM

### Mechanical

#### Dimensions

Length no laser: 8.65" / 22.0 cm  
 Length w/laser: 9.75" / 24.8 cm  
 Top width: 3.50" / 8.9 cm  
 Grip width: 2.75" / 7.0 cm  
 Height: 1.45" / 3.7 cm

#### Weight (w/battery pack)

No radio, no laser: 15.6 oz. / 440 g  
 No radio, w/laser: 17.9 oz. / 508 g  
 Radio, no laser: 17.4 oz. / 493 g  
 Radio, w/laser: 19.8 oz. / 561 g

#### Display

Super-twist graphics LCD;  
 Backlight w/programmable timeout;  
 128x64 pixels;  
 Up to 16 lines x 26 characters,  
 standard formats of 16x20 (default) and  
 8x20 (selectable)

#### Keypad

57 large alphanumeric keys;  
 5 dedicated function keys, 5 shifted;  
 Direct Western-European character support;  
 2 programmable side triggers

#### Construction

Industrial, high-strength polycarbonate/  
 ABS-blend plastic;  
 Chemical and splash resistant

### Environmental

#### Temperature rating

Operating: 14° to 122° F / -10° to 50° C  
 Storage: -4° to 158° F / -20° to 70° C

#### Humidity: 5 to 95% NC

#### Shock: multiple 4' / 1.2 m drops to concrete

### Optical

#### Light source – Visible Laser Diodes (VLD)

Standard Range: 650nm  
 Long Range: 650 nm

#### Scan module:

Rotates 180° for right- & left-handed operation

#### Scan rate: 36 ± 4 scans/sec.

#### Depth-of-Field: Refer to chart on this page

#### Indicators: Good read; scan

#### Ambient light immunity

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

### Decoding Capability

(autodiscriminates between)

UPC A, E / EAN 8,13 / JAN 8, 13  
 (P2 / P5, Code 128 EAN add-ons)  
 Code 128 Interleaved 2 of 5  
 Code 39 Standard 2 of 5  
 Code 39 Full ASCII Matrix 2 of 5  
 Code 93 MSI / Plessey  
 Code 11 Ames  
 Codabar Label Codes 4/5  
 ISBN conversion UCC/EAN 128

### Safety and Regulatory

#### Electrical: Complies to CE

#### Emissions: FCC Part 15 - Class A

#### Laser classification: CDRH Class II;

(CAUTION: Laser Radiation –  
 do not stare into beam);  
 IEC 60825 Class 2



### System

#### Operating System

ROM-DOS 6.22

#### Microprocessor

486 low power, 32-bit microprocessor with  
 system logic; 8 KByte L1 cache, programmable  
 speeds up to 33MHz; real-time clock

#### Memory

Flash: 2MB (DOS, BIOS, applications &  
 data storage);  
 RAM: 8MB (for system operation,  
 virtual-disk data storage)

#### Serial Communications

RS232: RJ45 10-pin connector (COM1 serial port  
 & docking); X modem, Z modem protocols  
 provided; DOS UART (16550) supports up to  
 115 kbps; Input devices; Handheld 5V laser,  
 Wands, ID badge readers

#### PC Card

User-accessible PC Card Type I/II slot

#### Speaker

Software programmable for volume, duration  
 & pitch

#### Power Options

Rechargeable NiMH battery pack; Falcon® dock;  
 Falcon® battery charger

#### Advanced Power Management (without PC Card)

Sleep/off mode with programmable timeout:  
 ~2 mA; Doze mode: ~50 mA; Operating mode:  
 >80 mA (option dependent, CPU speed  
 & application); Rechargeable lithium backup  
 battery; Low battery indicator

#### Antenna (RF-Ready, RF versions)

Integrated, dipole

#### Radio Support (Falcon® 325)

Cisco Aironet 350 Series; Lucent Orinoco;  
 Proxim RangeLAN2; Symbol Spectrum24®

### Depth-of-Field Chart – (printing resolution, contrast and ambient light dependent; \*Minimum distance determined by symbol length and scan angle)

Standard Range (25% min. contrast; 5 mil min. resolution)		Long Range (40% min. contrast; 10 mil min. resolution)
Label Density	Range	Range
5 mil	3.0" to 5.0" (8.0 to 13.0 cm)	
7.5 mil	2.5" to 9.0" (6.0 to 23.0 cm)	
10 mil	2.5" to 13.0" (6.0 to 33.0 cm)	9.0" to 22.0" (23.0 to 56.0 cm)
15 mil	2.5" to 19.0" (6.0 to 48.0 cm)	7.0" to 38.0" (18.0 to 96.0 cm)
20 mil	*2.5" to 21.0" (6.0 to 53.0 cm)	7.0" to 45.0" (18.0 to 114.0 cm)
40 mil	*2.5" to 30.0" (6.0 to 76.0 cm)	10.0" to 90.0" (25.0 to 229.0 cm)
55 mil	*2.5" to 36.0" (6.0 to 91.0 cm)	10.0" to 100.0" (25.0 to 250.0 cm)
70 mil	(reflective)	60.0" to 180.0" (152.0 to 457.0 cm)
100 mil	(reflective)	62.0" to 240.0" (157.0 to 610.0 cm)



Falcon® Dock also available

### Corporate Headquarters

PSC Inc.  
 959 Terry Street  
 Eugene OR 97402-9150 USA  
 Tel: 800 547 2507 or 541 683 5700  
 Fax: 541 344 1399

### Specifications are subject to change without notice.

Additional information concerning this product or other PSC products  
 and services can be found at the PSC website: [www.pscnet.com](http://www.pscnet.com);  
 or contact your PSC representative for more information.



### PSC Worldwide Sales and Service locations

Australia Tel: 61 2 9878 8999 Fax: 61 2 9878 8688	Australia - VIC Tel: 61 3 9281 3288 Fax: 61 3 9243 5510	Belgium Tel: 32 2 414 74 09 Fax: 32 2 410 11 63	Brazil Tel: 55 11 5507 7721 Fax: 55 11 5507 7696	Chile Tel: 562-339-7000 Fax: 562-339-7985	China Tel: 86 10 6857 9048 Fax: 86 10 6857 8699	China - South Tel: 86 20 8765 9955 Fax: 86 20 8765 9955	France Tel: 33 1 64 86 71 00 Fax: 33 1 64 46 72 44
Germany Tel: 49 6151 93580 Fax: 49 6151 935858	Hong Kong Tel: 852-25846210 Fax: 852-25210291	Italy Tel: 39 039 629031 Fax: 39 039 6859496	Japan Tel: 81 3 3491 6761 Fax: 81 3 3491 6656	Latin America Tel: 1 305 539-0111 Fax: 1 305 539-0206	Singapore Tel: 65 435 1311 Fax: 65 226 1242	Spain Tel: 34 91 203 65 00 Fax: 34 91 203 65 01	Sweden Tel: 46 4010 84 92 Fax: 46 4010 84 91
Turkey Tel: 90 212 2369115 Fax: 90 212 2369116	United Kingdom Tel: 44 1923 809500 Fax: 44 1923 809505						