

# Falcon 320 & 325

## Portable Data Collection Terminals

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 Percon is the answer. Open standards, powerful applications and ease of use allow these portable data collection terminals to integrate seamlessly into the supply chain systems of companies involved in logistics, manufacturing, retail, warehousing and distribution.

Rugged enough for the shop floor, 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 TN to support VT100, VT220, HP700/92, IBM 3270 and IBM 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, our latest wireless data collection terminal, is particularly ideal for data collection over wide, on-campus areas or where physical distances prohibit hard-wired systems. 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 hardwires and cables.

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.



Falcon 320

Falcon 325

### Features

- Compact, ergonomic, rugged design
- 486 class processor, 33 MHz operating speed
- x86 architecture with Datalight DOS 6.22
- User accessible PC Card slot, Type 1/11
- Optional standard and long range lasers
- Y2K compliant
- Advanced power management
- 57 key alphanumeric keypad
- Wide operating temperature range (14°F - 122°F)

**PERCON**

Innovation has a new address.

[www.percon.com](http://www.percon.com)

# Falcon 320 & 325 Specifications

## Physical Dimensions

- Length: 8.65" (220 mm) without laser; 9.75" (248 mm) with integrated laser
- Weight (includes battery pack):  
No Laser/No Radio 15.5 oz (440g)  
No Laser/Radio 17.4 oz (493g)  
Laser/No Radio 17.9 oz (508g)  
Laser/Radio 19.8 oz (561g)

## Construction

- Industrial, high-strength polycarbonate/ABS-blend plastic

## Keypad

- 57-key alphanumeric keypad
- 5 dedicated function keys, 5 shifted
- Direct Western-European character support
- 2 programmable side triggers
- Large numeric keys

## Display

- Super-twist graphics LCD
- Backlight with programmable timeout
- 128 x 160 pixels
- Up to 16 x 26 characters; standard formats of 16 x 20 (default) and 8 x 20 (selectable)

## PC Card

- User-accessible PC Card Type I/II slot

## Radio Support (Falcon 325)

- Proxim Range LAN2, Symbol Spectrum 24
- Lucent WaveLAN 802.11 approvals pending

## Antenna (RF-Ready, RF versions)

- Integrated, dipole antenna

## Speaker

- Software-programmable for volume, duration and pitch

## Integrated Laser Scanner

- Choice of standard-range and long-range models
- Scanning module rotates 180° for right- and left-handed operation
- Scan rate: 36 ± 4 scans/sec
- Indicators: Good read; scan
- Ambient light immunity:  
Artificial: 450 ft-candles (4,844 lux)  
Sunlight: 8,000 ft-candles (86,112 lux)

## Serial communications

- RS-232
- RJ45 10-pin connector (COM 1 serial port and docking); X modem, Z modem protocols provided
- DOS UART (16550) access supports up to 115 Kbps
- Input devices
- Handheld 5V lasers
- Wands
- I.D. badge scanners

## Operating System

- ROM-DOS 6.22

## Microprocessor

- AMD 'ELAN® am486™ SC400 Low Power, 32-bit microprocessor with System Logic, and 8 KByte L1 cache

## Memory

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

## Power Options

- Rechargeable NiMH battery pack
- Falcon dock
- Falcon Battery Charger

## Advanced Power Management (without PC Card)

- Sleep/off mode with programmable time-out: ~2 mA
- Doze mode: ~50 mA
- Operating mode: >80 mA (depending on options, CPU speed and application)
- Rechargeable lithium backup battery
- Low battery indicator

## Environmental Specifications

- Operating Temperature: -10°C to +50°C (+14°F to +122°F)
- Storage Temperature: -20°C to +70°C (-4°F to +158°F)
- Drop: Multiple 4-ft. to concrete
- Chemical and splash resistant

## Regulatory Approvals

- FCC Part 15 - Class A
- CDRH and IEC Laser Class 2
- CE

## Bar Code Symbolologies:

- Auto discriminates between all symbolologies listed:
- Ames
- Codabar
- Code 11
- Code 39
- Code 39 full ASCII
- Code 93
- Code 128
- EAN-8/JAN-8
- EAN-13/JAN-13
- Interleaved 2 of 5
- ISBN conversion
- Label Codes 4/5
- Matrix 2 of 5
- MSI
- Standard 2 of 5
- UCC/EAN 128
- UPC A/E
- UPC/EAN/JAN extentions

## Decode Zone

Element Width (mil)	Working Zone			
	Standard-Range Inches	Standard-Range cm	Long-Range Inches	Long-Range cm
5	3-5	8-13	—	—
7.5	2.5-9	6-23	—	—
10	2.5-13	6-33	12-18	31-46
15	2.5-19	6-48	9-34	23-86
20	2.5-21*	6-53	9-39	23-99
40	2.5-30*	6-76	10-80	25-203
55	2.5-36*	6-91	10-90	25-228
70 (reflective)	—	—	70-162 (13.5')	178-411
100 (reflective)	—	—	84-210 (17.5')	213-533

\* Minimum distance determined by symbol length and scan angle

## Warranty

- One year limited warranty, Extended warranty & quick replacement available

©1999 Percon, Incorporated. Printed in the USA. March, 1999. Percon is a registered trademark and Falcon is a trademark of Percon Incorporated. Other brand and product names are trademarks of their respective owners. In a continuing effort to improve our products, Percon reserves the right to change specifications and features without prior notice.

Doc. No. FL320/250399VUSENG



# PERCON

## Corporate Headquarters

Percon Incorporated  
1800 Millrace Drive  
Eugene, OR 97403  
(800) 929-7899  
(541) 344-1189  
Fax: (541) 344-1399  
e-mail: info@percon.com

## European Headquarters

Percon Europe, S.A.  
13, avenue Gabriel  
78170 La Celle Saint Cloud  
France  
Tel: +33 1 30 78 44 80  
Fax: +33 1 39 18 53 94  
e-mail: info@europe.percon.com

www.percon.com

## Distributed by: