

Falcon™ 320 & 325 Portable Data Terminals

Portable Data Collection Terminals

- **Compact, ergonomic, rugged design**
- **486 class processor, 33 MHz operating speed**
- **DOS 6.22, 486 PC-compatible**
- **User-accessible PC Card slot, Type I/II**
- **Optional standard and long range laser scanner**
- **Advanced power management**
- **57 key alphanumeric keypad**
- **Wide operating temperature range – 14° to 122° F (-10° to 50° C)**



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 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 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 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 PSC 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 Accessories

- Single or 4-slot Docks
- Single or 4-slot Chargers
- Softcase, Holster
- Falcon-to-Host serial cable
- Dock-to-Host serial cable
- ATA Flash cards (8, 16 and 32MB versions)
- 56K Modem
- NiMH battery pack



EXPANDING TECHNOLOGY. FOCUSING SOLUTIONS.

Falcon™ 320 & 325 Portable Data Terminals

SPECIFICATIONS

MECHANICAL

Dimensions

- **Length** without laser: 8.65" (220 mm)
with laser: 9.75" (248 mm)
- **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** 15.5 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**
- **128x160 pixels**
- **Up to 16x26 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-ft. drops to concrete

OPTICAL

Light source Standard & Long Range: 650nm Visible Laser Diodes (VLD)

Scan module rotates 180° for right- and left-handed operation

Scan rate 36 ±4 scans/sec.

Depth of Field

(printing resolution, contrast and ambient light dependent; *Minimum distance determined by symbol length and scan angle)

Standard 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)
15 mil	2.5	to	19.0"	(6.0 to 48.0 cm)
*20 mil	2.5	to	21.0"	(6.0 to 53.0 cm)
*40 mil	2.5	to	30.0"	(6.0 to 76.0 cm)
*55 mil	2.5	to	36.0"	(6.0 to 91.0 cm)

Long Range

10 mil	9	to	22"	(23 to 56 cm)
15 mil	7	to	38"	(18 to 96 cm)
20 mil	7	to	45"	(18 to 114 cm)
40 mil	10	to	90"	(25 to 229 cm)
55 mil	10	to	100"	(25 to 250 cm)
(reflective) 70 mil	60	to	180"	(152 to 457 cm)
(reflective) 100 mil	62	to	240"	(157 to 610 cm)

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)

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

SAFETY / 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** AMD ELAN™ Am486™ SC400 Low Power, 32-bit microprocessor with system logic; 8 KByte L1 cache
- **Memory** Flash: 2MB (DOS, BIOS, applications and data storage); RAM: 8MB (for system operation, virtual-disk data storage)
- **Serial communications** RS232; RJ45 10-pin connector (COM1 serial port and docking); X modem, Z modem protocols provided; DOS UART (16550) access support up to 115 kbps; Input devices: Handheld 5V lasers, Wands, I.D. badge scanners
- **PC Card** User-accessible PC Card Type I/II slot
- **Speaker** Software programmable for volume, duration and pitch
- **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 (option dependent, CPU speed and application); Rechargeable lithium backup battery; Low battery indicator
- **Antenna** (RF-Ready, RF versions) Integrated, dipole
- **Radio Support** (Falcon 325) Cisco (Aironet); Lucent WaveLAN 802.11; Proxim Range LAN2; Symbol Spectrum 24



Specifications are subject to change without notice.
For further information, contact your PSC representative.

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For product information, technical support, answers to frequently asked questions, product documentation, software updates, repair information, and how to contact PSC, visit the PSC Website at: www.pscnet.com



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