

Falcon® 340 & 345

Portable Data Collection Terminals



48-key Keypad

25-key Keypad

38-key Keypad

Ideal for:

- Retail In-Store
- Inventory control
- Warehouse Management
- Outdoor Data collection

Features:

- Standard, Long Range and Advanced Long Range integrated laser scanner options
- Removable handle with trigger
- Batch or Real-time Data Collection
- Powerful 486 Class Processor
- DOS 6.22 Operating System
- Three keypad options
- Supports leading wireless LANs including Cisco Aironet, Lucent (Agere) Orinoco, Proxim, Symbol

Solving Data Collection Needs

The Falcon® 340 & 345 are the most feature-rich members of the growing family of Falcon® Industrial handheld data collection terminals from PSC. They were designed for easy integration in the supply chain of companies involved in logistics, manufacturing, warehousing and distribution, and in-store retail.

A Favorite Among Users

These sleek portable terminals were ergonomically designed with the end-user in mind. They are the lightest weight unit in their class, only 16.3 oz. / 465 g. Engineered to reduce fatigue, this weight is ideally balanced over the hand using a removeable form-fit rubber-grip handle. Combine this with an integrated scan trigger, a large 16-line back-lit display and a three keypad options and the user enjoys hours of high performance data collection.

No Lack of Performance Here

At the heart of the Falcon® 340 & 345 portable data terminals is a powerful 32 bit 486 class processor, running at 33MHz, with 8MB of RAM and 2MB of Flash ROM. This flexible architecture also supports an internal PCMCIA Type II PC card for additional memory or wireless LAN connectivity. Because the Falcon® 340 & 345 use a standard operating system, DOS 6.22, you can run applications previously developed for other Falcon® terminals and other DOS terminals. Thin client systems can be instantly integrated with terminal emulation and text browser support. You can also use popular PC-based development tools like PSC's Universal Program Generator (UPG) or RF SDK to create custom applications for your data collection needs.

Batch and Wireless Models

The Falcon® 340 with the 486 processor and 8MB of RAM is one of the most powerful batch terminals on the market today. Fast lookup and validation of your data is critical to productivity.

The Falcon® 345 sets the standard for flexibility when it comes to wireless communications, providing connectivity for data collection applications where real-time information is critical. The Falcon® 345 can be configured with any of the leading 2.4GHz spread spectrum wireless LAN solutions including Cisco Aironet, Lucent (Agere) Orinoco, Proxim, and Symbol.

Additional flexibility comes when you can have a wireless connection of the Falcon® 345 terminals into your existing legacy system. With our PowerNet Twin Client product these new Falcon® terminals can support VT100, VT220, HP700/92, IBM 3270 and IBM 5250 terminal emulation, with screen formatter capabilities.



Specifications

Falcon® 340 & 345

These product 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 or contact your PSC representative for more information

Mechanical

Dimensions

Length: 7.8" / 19.8 cm
 Width at display: 3.4" / 8.6 cm
 Width at grip: 2.5" / 6.4 cm
 Height at grip: 1.6" / 4.1 cm

Weight (w/battery pack)

No radio, w/laser: 16.3 oz / 465 g
 Radio, w/laser: 17.3 oz / 490 g

Display

Super-twist graphics LCD;
 Backlight w/programmable timeout;
 128x160 pixels, plus 8 on-screen icons;
 Formats: 16x26, 16x20 & 8 lines x 20 characters
 International support for Japanese and Chinese

Keypad

38-key standard alphanumeric –
 Single and double-click alpha,
 5 dedicated function keys, 5 shifted,
 Western-European character support
 48-key full alphanumeric –
 Single stroke access to full alphabet,
 Function key support via function & numbers
 25-key large numeric –
 Alpha accessed via function key,
 5 dedicated function keys, 5 shifted

Construction

Industrial, high-strength polycarbonate/
 ABS-blend plastic

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 4.0' / 1.2m drops to concrete

Optical

Light source – Visible Laser Diode (VLD): 650nm

Scan rate: 35 scans/sec. nominal

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

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; programmable
 speeds up to 33 MHz; Real-time clock

Memory

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

IR Communications Port

Communication with Falcon® IR dock; Supports IR
 portable printer; IrDA compatible

Dock Communications

RS232; X modem; Z modem; 16550 UART,
 up to 57,600 bps

PC Card

Internal PC Card Type I/II slot

Speaker

Programmable for volume, duration and pitch

Power Options

Rechargeable NiCd & 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 and application)

Rechargeable lithium backup battery

Low battery indicator (display icon)

System Support

VT100/220, HP700/92, IBM 3270 & 5250

emulation via PowerNet Twin client

Simple VT100/220 support via VT-Lite

Browser support via Falcon® Lynx

Wireless software distribution via FAST Update

TCP/IP Communications

Development Environments

Many standard DOS development tools; Falcon®

Developer's Toolkit; UPG; RF SDK; RFBUILDER

Radio Support (Falcon® 345 w/Internal Antenna)

Cisco Aironet 350 Series

Lucent (Agere) Orinoco

Proxim Range LAN2

Symbol Spectrum24®

Depth-of-Field Chart (printing resolution, contrast and ambient light dependent; *Minimum distance determined by symbol length and scan angle)			
Label Density	Typical Standard Range	Typical Long Range	Typical Advanced Long Range
5 mil	3.0" – 5.0" / 8.0" – 13.0 cm		
7.5 mil	2.5" – 9.0" / 6.0 – 23.0 cm		
10 mil	2.5 – 13.0" / 6.0 – 33.0 cm	9.0" – 22.0" / 23.0 – 56.0 cm	
13 mil			19.0" – 29.0" / 48.0 – 74.0 cm
15 mil	2.5" – 19.0" / 6.0 – 48.0 cm	7.0" – 38.0" / 18.0 – 96.0 cm	20.0" – 50.0" / 51.0 – 127.0 cm
20 mil	*2.5" – 21.0" / 6.0 – 53.0 cm	7.0" – 45.0" / 18.0 – 114.0 cm	
30 mil			33.0" – 98.0" / 84.0 – 249.0 cm
40 mil	*2.5" – 30.0" / 6.0 – 76.0 cm	10.0" – 90.0" / 25.0 – 229.0 cm	
55 mil	*2.5" – 36.0" / 6.0 – 91.0 cm	10.0" – 100.0" / 25.0 – 250.0 cm	27.0" – 115.0" / 69.0 – 292.0 cm
70 mil	(Reflective)	60.0" – 180.0" / 152.0 – 457.0 cm	114.0" – 250.0" / 290.0 – 635.0 cm
100 mil	(Reflective)	62.0" – 240.0" / 157.0 – 610.0 cm	125.0" – 360.0" / 318.0 – 914.0 cm

Falcon® Dock
 also available



Falcon® IR to RS232 Adapter
 also available



PSC Inc.

959 Terry Street
 Eugene OR 97402-9150 USA
 Tel: 800 695 5700 or 541 683 5700
 Fax: 541 345 7140

PSC Worldwide Sales and Service locations

Australia Tel: 61 2 9878 8999
 Belgium Tel: 32 2 414 74 09
 Fax: 61 2 9878 8688 Fax: 32 2 410 11 63

Hong Kong Tel: 852 25846210
 Fax: 852 25210291
 India Tel: 91 11 464 1662
 Fax: 91 11 464 1662

Turkey Tel: 90 212 23691 15
 Fax: 90 212 23691 16
 United Kingdom Tel: 44 1923 809500
 Fax: 44 1923 809505

Brazil Tel: 55 11 5507 7721
 Fax: 55 11 5507 7696

Italy Tel: 39 039 629031
 Fax: 39 039 6859496

Chile Tel: 562-339-7000
 Fax: 562-339-7985

Japan Tel: 81 3 3491 6761
 Fax: 81 3 3491 6656

China Tel: 86 10 6857 9048
 Fax: 86 10 6857 8699

Latin America Tel: 1 305 539 0111
 Fax: 1 305 539 0206

China - South Tel: 86 20 8765 9955
 Fax: 86 20 8765 9955

Singapore Tel: 65 435 1311
 Fax: 65 226 1242

France Tel: 33 1 64 86 71 00
 Fax: 33 1 64 46 72 44

Spain Tel: 34 91 203 65 00
 Fax: 34 91 203 65 01

Germany Tel: 49 6151 93580
 Fax: 49 6151 935858

Sweden Tel: 46 4010 84 92
 Fax: 46 4010 84 91

