

# Falcon® 340 & 345

Portable Data Collection Terminals

# Data Sheet



## Features:

- Options of Standard, Long Range and Advanced Long Range Integrated Laser Scanners or Linear Imager
- Removable handle with trigger
- Batch or Real-time RF Data Collection
- Powerful 486 Class Processor
- DOS 6.22 Operating System
- Three Keypad options
- Supports leading Wireless LAN Cisco Aironet

## Accessories

- Single Slot and Four Slot Dock
- Single Slot and Four Slot Battery Charger
- Holsters/Softcases
- Serial Cable for IR/RS232 Adaptor & Dock
- Power Supply/Line Cord Kit

## 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 and 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 characters accessed with function key; 5 dedicated function keys, 5 shifted keys

**Construction:** Industrial, high-strength polycarbonate/ABS-blend plastic

## Environmental

### Temperature Rating

Operating: -4° to 122° F / -20° to 50° C  
 Storage: -22° to 158° F / -30° to 70° C

**Humidity:** 5 to 95% NC

**Shock:** Withstands multiple 4' / 1.2m drops onto concrete

### Optical

**Light Source:** 650nm Visible Laser Diode (VLD)

**Scan Rate:** 35 scans/sec. (nominal)

**Indicators:** Good read, scan

### Ambient Light Immunity

**Artificial Light:** 450 foot candles / 4,844 Lux

**Sunlight:** 8,000 foot candles / 86,112 Lux

**Depth of Field:** Refer to Chart below

### DEPTH OF FIELD\*

#### Range Comparisons

LABEL DENSITY	TYPICAL STANDARD RANGE	TYPICAL LONG RANGE	TYPICAL ADVANCED LONG RANGE	LINEAR IMAGER
5 mil	30" — 50" / 80 — 130 cm			205" — 1150" / 52 — 292 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		177" — 1398" / 45 — 355 cm
12 mil				138" — 1457" / 35 — 370 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		138" — 1555" / 35 — 395 cm
30 mi			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		138" — 1969" / 35 — 50 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	

\* Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.

## 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; i6550 UART, up to 57,600 bps

**PC Card:** Internal PC Card Type I/II slot

**Speaker:** Programmable for volume, duration and pitch 84 dB @ 24"

**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 Wavelink or PowerNet TwinClient; Browser support via Falcon® Lynx; TCP/IP Communications

**Development Environments:** Many standard DOS development tools: Falcon® Developers Toolkit and Wavelink

**Radio Support:** (Falcon® 345 w/Internal Antenna)  
 Cisco Aironet 350 Series


## Decoding Capability (autodiscriminates between)

- UPC A, 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
- Codabar
- ISBN conversion
- Interleaved 2 of 5
- Standard 2 of 5
- Matrix 2 of 5
- MSI/Plessey
- Ames
- Label Codes 4/5

## Safety & Regulatory

**Electrical:** EN60950, UL60950, CSA60950

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

**Laser Classification:** CDRH Class II; 

 (Caution: Laser Radiation - do not stare into beam); IEC 60825 Class 2

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R140-0130-US A 0605