

Falcon® 340 & 345

Portable Data Collection Terminals

Data Sheet



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

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

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 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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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	25" — 90" / 60 — 230 cm			
10 mil	25" — 130" / 60 — 330 cm	145" — 165" / 37 — 42 cm		177" — 1398" / 45 — 355 cm
12 mil				138" — 1457" / 35 — 370 cm
13 mil			9" — 22" / 23 — 56 cm	
15 mil	25" — 190" / 60 — 480 cm	9" — 33" / 23 — 84 cm	20" — 50" / 51 — 127 cm	
20 mil	*25" — 210" / 60 — 530 cm	8" — 40" / 20 — 101 cm		138" — 1555" / 35 — 395 cm
30 mi			33" — 89" / 84 — 226 cm	
40 mil	*25" — 300" / 60 — 760 cm	13" — 83" / 33 — 211 cm		138" — 1969" / 35 — 50 cm
55 mil	*25" — 360" / 60 — 910 cm	19" — 93" / 48 — 236 cm	38" — 120" / 97 — 305 cm	
70 mil	(Reflective)	43" — 148" / 119 — 376 cm	85" — 260" / 215 — 660 cm	
100 mil	(Reflective)	50" — 210" / 127 — 533 cm	125" — 320" / 241 — 813 cm	

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



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