

Falcon[®] 320 & 325

Portable Data Collection Terminals

Data Sheet



Features:

- Lightweight, ergonomic, compact design
- Open architecture design
- DOS 6.22, 486 PC-compatible
- User-accessible PC Card slot
- Integrated laser options
- 16 x 20 graphics backlit LCD
- Wireless options

Accessories:

- Single Slot and Four Slot Dock
- Single Slot and Four Slot Battery Charger
- Holsters/Softcases
- Serial Cable
- Power Supply/Line Cord Kit
- NiMH / Nicad Battery Packs

Mechanical

Dimensions

Length, no Laser: 8.65" / 22.0 cm
 Length w/Laser: 9.75" / 24.8 cm
 Top Width: 3.50" / 8.9 cm
 Grip Width: 2.75" / 7.0 cm
 Height: 1.45" / 3.7 cm
 Weight (w/battery pack)

Radio	Laser	Weight
No	No	15.6 oz. / 440 g
No	Yes	17.9 oz. / 508 g
Yes	No	17.4 oz. / 493 g
Yes	Yes	19.8 oz. / 561 g

Display: Super-twist graphics LCD; backlight w/programmable timeout; 128x64 pixels; up to 16 lines x 26 characters, standard formats of 16x20 (default) and 8x20 (selectable)

Keypads

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' / 1.2 m drops to concrete

Optical

Light Source – Visible Laser Diodes (VLD)

Standard Range: 650nm
 Long Range: 650 nm

Scan Module:

Rotates 180° for right- & left-handed operation

Scan Rate: 36 ± 4 scans/sec.

Indicators: Good read; scan

Ambient Light Immunity

Artificial Light: 450 ft-candles / 4,844 lux
 Sunlight: 8,000 ft-candles / 86,112 lux

System

Operating System: ROM-DOS 6.22

Microprocessor: 486 low power; 32-bit microprocessor with system logic; 8 KB L1 cache, programmable speeds up to 33MHz; real-time clock 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 printers; IrDA compatible

Dock Communications (to host): RS-232; 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 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)

Radio Support (Falcon[®] 325): Cisco Aironet 350 Series

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

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
- Codabar
- ISBN conversion
- Interleaved 2 of 5
- Standard 2 of 5
- Matrix 2 of 5
- MSI/Plessey
- Ames
- 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



DEPTH OF FIELD

Label Density	Standard Range (25% min. contrast; 5 mil min. resolution)	Typical Range (40% min. contrast; 10 mil min. resolution)
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	9.0" to 22.0" / 23.0 to 56.0 cm
15 mil	2.5" to 19.0" / 6.0 to 48.0 cm	7.0" to 38.0" / 18.0 to 96.0 cm
20 mil	*2.5" to 21.0" / 6.0 to 53.0 cm	7.0" to 45.0" / 18.0 to 114.0 cm
40 mil	*2.5" to 30.0" / 6.0 to 76.0 cm	10.0" to 90.0" / 25.0 to 229.0 cm
55 mil	*2.5" to 36.0" / 6.0 to 91.0 cm	10.0" to 100.0" / 25.0 to 250.0 cm
70 mil	(reflective)	60.0" to 180.0" / 15.2 to 45.7 cm
100 mil	(reflective)	62.0" to 240.0" / 15.7 to 61.0 cm

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

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