Falcon® PT40

Compact Bar Code Data Collection Terminal

Features

- Compact – size of a cell phone
- Integrated bar code laser
- Lightweight – 119 g / 4.2 oz
- 26 key numeric keypad (cell phone layout)
- Up to 2MB of memory
- Large capacity Lithium Ion main battery
- Rechargeable Lithium backup battery
- Supports task switching – up to 4 applications
- Powerful program generator (PPG) to develop applications

Accessories

- Single Slot Docking Station
- AC Adaptor
- Belt Clips/Softcases
- Serial/Charging Cable
- Rechargable Li-Ion Battery

Docking Station

Mechanical

Dimensions
- **Length:** 136 mm / 5.35"
- **Width:** 48 mm / 1.89"
- **Height:** 24 mm / .93"

Weight: 119 g / 4.2 oz including battery

Display:
- **Type:** Backlit Graphics FSTN LCD
- **Size:** 96 x 48 pixels
- **Text:** 6 lines x 16 characters wide (small font); 4 lines x 12 characters wide (large font)
- **Double Byte (Chinese):** 3 lines x 8 characters wide

Keypads
- 26 keys with full alphanumeric capability (cell phone layout); Four function keys

Construction: ABS plastic, chemical resistant

Environmental

Temperature Rating
- **Operating:** 0° to 50° C / 32° to 122° F
- **Storage:** -20° to 70° C / -4° to 158° F

Humidity: 5 to 95% RH (non-condensing)

Shock: Multiple 1.2 m / 4' drops to concrete

Optical

Light Source: 650nm Visible Laser Diode (VLD)
Rate: 50 ± 6 scans/sec. bi-directional
Scan Angle: 46.5° typical
Ambient Light Immunity:
- **Artificial Light:** 4,844 lux / 450 ft-candles
- **Sunlight:** 86,112 lux / 8,000 ft-candles

Depth of Field: Refer to Chart below

DEPTH OF FIELD Range Comparisons	
LABEL DENSITY	**TYPICAL RANGE**
5 mil	6.6 — 15.0 cm / 2.6" — 5.9"
7.5 mil	5.0 — 23.4 cm / 2.0" — 9.2"
10 mil	4.3 — 31.5 cm / 1.7" — 12.4"
13 mil	4.6 — 36.8 cm / 1.8" — 14.5"
20 mil	* — 51.6 cm / * — 20.3"
40 mil	* — 75.4 cm / * — 29.7"
55 mil	* — 87.4 cm / * — 34.4"

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

System

Hardware: 16-bit CMOS Microprocessor, Real-time Clock and Calendar
- **RAM:** 256 KB to 2 MB
- **FLASH:** 512 KB

Beeper: Software programmable speaker volume, duration, and pitch

Data Communications
- **PT40**
  - Serial (requires serial cable)
  - RS-232C; ASCII 7- or 8-bit; Selectable Parity; 300 to 38,400 baud programmable; Supports CTS/RTS and Xon/Xoff
- **Docking Station**
  - Serial (cable included with dock)
  - RS-232C; ASCII 7- or 8-bit; Selectable Parity; 300 to 38,400 baud programmable; Supports CTS/RTS and Xon/Xoff

Protocols: ACK/NAK; X Modem; Carriage return only

Power
- **Main Battery:** 830 mAh rechargable Li-Ion.
- **Typical Recharge Time:** 3-4 hours
- **Backup Battery:** Rechargeable lithium protects RAM and real time clock

AC Adaptor: (required for dock)
- **Input:** 100-240v, 50-60Hz, 0.3A
- **Output:** 9VDC, 1.3A

Software Support: Programs generated with PT Program Generator (PPG)**,** Supports task switching between up to 4 applications

Decoding Capability (autodiscriminates between)

- UPC A, E / EAN 8, 13 / JAN 8, 13 (extensions)
- Code 128
- Interleaved 2 of 5
- Code 39
- Codabar
- Code 39 Full ASCII
- Code 93

International Character Sets
Supports Chinese Traditional (Big 5) and Chinese Simplified

Safety & Regulatory

Electrical: Complies to CE
Emissions: FCC Part 15 - Class A
Laser: CDRH Class II;
(CAUTION: Laser Radiation -do not stare into beam) IEC Laser Class 2

CE

Specifications are subject to change without notice.

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