



The *Apex IV* hand held terminal brings to the market, a rugged water and dust-resistant pistol-grip terminal for the warehouse, and manufacturing automation environments. *Apex IV* offers a unique combination of features and functions not available in any other device, such as two user-accessible PC Card Slots, custom End Caps and an array of user-selectable Li-Ion batteries ranging in capacity from 3100 mAh to an impressive 4650 mA h.

The *Apex IV* features include a full alpha-numeric keypad, full graphic display (240 x 160 pixels) with user activated backlighting, 8MB of Flash memory and 4MB of on-board RAM. The *Apex IV* incorporates a 32 bit Microcontroller @ 33 MHz and is a Wi-Fi™ (IEEE 802.11b) compliant wireless LAN product.



# Apex IV™

## *Portable Data Collection Terminal*

The *Apex IV* supports Batch or RF operations via an internal type III PC Card port (capable of simultaneously supporting two type I or II devices). This port provides the user with numerous options for connectivity and memory expansion including, but not limited to network interface adapters, high speed modems (both wired and wireless), Flash drives and RAM disks.

Integrated into the *Apex IV* is a laser scanner. Laser options include standard, long range, very high density or advanced long range.

For immediate batch data collection usage, each *Apex IV* is shipped with the following tracking applications.

- ◆ Physical Inventory
- ◆ Asset Inventory
- ◆ Check-in/Check-out
- ◆ Route Accounting

High Speed Data transmission to and from the *Apex IV* can be accomplished via the infrared interface or the Serial RS-232 Interface port contained within the standard *Apex IV* end cap. The *Apex IV* comes with Communications software.

The *Apex IV* incorporates a DOS based operating system (ROM-DOS 7.1), thereby supporting DOS applications, graphic displays and existing DOS user software. An optional full-featured Windows based program generator can assist the user in implementing most data collection applications.

# Apex IV™ Specifications Highlights

## Terminal

### Display

- Fully programmable graphics LCD
- Backlight
- 240 x 160 pixel LCD matrix
- Standard format of 30 x 10 (default), Up to 30 x 20 (selectable)

### Keypad

- 56-key, full alphanumeric, non-glare
- 12 function keys (4 dedicated, 8 shifted)
- 1 keypad scan trigger
- 2 Enter Keys (right/left hand accessible)
- Large numeric keys

### Beeper

- Software-programmable for volume, duration, and pitch

### Operating System / BIOS

- Industry Standard – DataLight ROM-DOS 7.1 Operating System
- Industry Standard - Phoenix BIOS

### Microprocessor

- AMD Élan® AM486™ SC400 Low Power, 32-bit Microcontroller with System Logic, and 8 KByte L1 cache Memory, 33 MHz Clock Speed

### Memory

- FLASH: 8MB (applications and data storage)
- RAM: 4MB (for system operation and virtual-disk data storage)
- PCMCIA support for up to 64MB linear cards, 512MB ATA cards

### Communications

- IR serial data transfer (up to 115 kbps)
- RS-232 (end cap)
- YMODEM protocol provided between PDT & PC
- High Speed UART(16550-compatible) supports up to 115 Kbps RS-232 serial data transfer

### PC Card

- User-accessible PC Card Slot (One - Type III or two-2 Type I or II, user accessible)

## Power Source

### Power Options

- Rechargeable 3100 mAh, Li-Ion battery pack, standard
- Stand alone Li-Ion Charger
- Optional High Capacity Rechargeable Li-Ion battery pack (4650 mAh)

### Advanced Power Management (without PC Card)

- Standby mode with programmable time-out: ~10 mA
- Low Speed mode: ~100 mA
- Operating mode: ~300 mA (depending on options, CPU speed, and application)
- SuperCap memory back-up
- Low battery indicator

## User Environment

### Environmental Specifications

- Operating Temperature: -10° C to +50° C (+14° F to +122° F)
- Storage Temperature: -20° C to +70° C (-4° F to +158° F)
- Drop: Multiple (x-5) 5-ft. to concrete (all four corners)
- IP 54

### Regulatory Approvals

- FCC Part 15 – Class B
- CDRH and IEC Laser Class 2
- CE



## Mechanical

### Construction

- Industrial, high-strength polycarbonate/ABS-blend plastic, U/L Rated 94V0

### Physical Dimensions

- Length: 8.4"
- Width: 3.32"
- Height: 7.75"
- Weight (includes battery pack):
  - Without Radio 25 oz
  - With Radio 27 oz

## Input Connectivity

### Integrated Laser Scanner

- Standard-range -
  - Display can be read while scanning
  - Scan rate: 35 ± 5 scans/sec
  - Indicators: Good read; Scan
  - Ambient light immunity:
    - Artificial: 450 ft-candles; (4,844 lux)
    - Sunlight: 8,000 ft-candles; (86,112 lux)
- Optional - Long Range
  - Very High Density
  - Advanced Long Range

### Bar Code Symbolologies:

Auto discriminates between all symbolologies listed below:

- |                      |                              |
|----------------------|------------------------------|
| • Codabar            | • Interleaved 2 of 5         |
| • Code 11            | • Identicode 2 of 5          |
| • Code 39            | • Industrial 2 of 5          |
| • Code 39 full ASCII | • Matrix 2 of 5              |
| • Code 93            | • MSI Plessey                |
| • Code 128           | • UPC A/E                    |
| • EAN-8/13           | • UPC/EAN/JAN 2/5 extensions |
| • JAN                | • PDF (via Serial Input)     |



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