Apex II ®

The Portable Data Collection Solution

COMPSEE ®

DESIGNED FOR THE END USER.
Whether your application needs include factory automation, sales automation, inventory tracking, order entry or warehousing distribution, you will find the Apex II portable data collection terminal the ideal solution, with its simple operation, lightweight and compact design, and ready-to-go state of operation.

A RUGGED, COMFORTABLE DESIGN.
The ergonomic design of the Apex II permits single-handed data collection—leaving one hand free to manipulate items. This feature, alone, contributes to a reduction in user fatigue and leads to increased productivity.

For applications requiring bar code reading, the Apex II, with either the integrated laser scanner or a tethered scanner, plus the ability to decode all popular symbologies, offers a cost-effective way to maximize your productivity. Ideal for scan-intensive applications, the design of the integrated scanner positions it at a 35-degree angle, which allows the operator to view the display at all times.

These features, along with a 4-line x 16-character display and full alphanumeric keyboard (which eliminates the need for a shift key), contribute to the enhanced throughput and user comfort of the Apex II.

ON-THE-JOB DURABILITY.
The statement "Portable Data Collection" calls for the highest standard of durable construction. The Apex II is designed to withstand real-world punishment and still retain the valuable data that has been collected. Typical applications include:

- Asset Management
- Shipping and Receiving
- Quality Control
- Inventory Control

- Work-in-Process Tracking
- Product Identification
- Material Management
- Product Tracking

POWERFUL PROCESSING.

These Intel-based units, with memory sizes ranging from 128K to 1MB, assure the speed and power needed for today's wide range of data tracking applications.

Available memory will increase the application effectiveness by letting the user access more file information, run multiple applications, or operate for an extended period of time at a remote site. The on-board flash memory eliminates the worry of program corruption and the need for backup.

APEX-TRAK.

Pre-loaded into each Apex II is Apex-Trak, a trio of easy-to-use tracking packages (Asset Inventory, Item Tracking and Physical Inventory) for immediate data collection usage. Included with the programs is the LinkMaster, a utility for easy uploading and downloading of programs and data.

Program features include user-definable field names, lengths and usage. Data transmission options include uploading via RS 232 to a PC or through a Keyboard Wedge. Print drivers are included for applications requiring that bar code labels be printed in a portable environment.

For general reading, Apex-Trak even includes a simple bar code reading program, allowing for the scanning and the display of the code interpretation and symbology type.

CUSTOM PROGRAM GENERATION.

The Apex II puts the user in control by allowing applications software to be written using a favorite program editor. The Apex II incorporates a non-proprietary BASIC interpreter, similar to the popular Microsoft BASIC interpreter. Valuable enhancements have been added to the language to give the programmer complete control of the Apex unit and the bar code reading capabilities.

BASIC gives programmers the flexibility of a fully implemented programming language with superior execution speed, built-in debugging features, and exceptional file handling capabilities.

APEX PROGRAM GENERATOR.

This optional Windows-based Program Generator has been designed to provide the user with the capability to visually create applications for the Apex without the need to write program code.

The Program Generator will assist the user in development and implementation of most standard data collection applications, and the modification of existing applications.

The program includes communications routines for program and data loading and retrieval, as well as management functions for the creation of application diskettes for distribution to the end user.

By responding to the menu-driven prompts regarding data collection, data validation and scanning features, the program generates structured BASIC code that can be used, as is, or can be further modified and enhanced using a text editor.

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EACH APEX II INCLUDES

Apex-Trak.................... Pre-loaded Apex-Trak programs—Asset
Inventory, Item Track, Physical Inventory
On-board Compsee BASIC Interpreter
RS 232 Cable (9-pin)
Four alkaline batteries
Diskette .... Apex-Trak programs, LinkMaster
programs, UpLoad/DownLoad
utility program
Manual .... Users' Guide, Apex-Trak Instructions,
Programmer's Instructions

TERMINAL

Display .... LCD—4-line x 16-character
Memory .... 128K to 1MB RAM, 128K flash
Clock .... Real-time clock calendar
Time and date stamping via software
Comm. Port .... RS 232 interface-XON/XOFF, CTS/RTS
Programmable baud rate
300 to 19,200 bits/second
Indicators .... Programmable audible beeper
Keyboard .... Full alphanumeric, 49-key
Software .... Programmable in BASIC
Program generator
Microprocessor .... 16-bit, Intel 80196NP

POWER SOURCE

Power Source .... Four AA alkaline batteries
Four AA NiMH or NiCd batteries
Rechargeable NiMH pack
Battery Pack Life .... 15 hours at use rate of 30 scans/minute
Indicator .... Low battery message
Back-up Battery .... Super Cap

ENVIRONMENTAL

Operating Temperature .... +32° to +122° F (0° to +50° C)
Storage Temperature .... -4° to +140° F (-20° to +60° C)
Humidity .... 90% relative (non-condensing)
ESD .... 15 KV electrostatic air discharge
to all surfaces without loss of data
Meets IEC 801-2 (1991)
Drop .... Unit functions normally after 4' (1.2 m)
drop to concrete
Construction .... Industrial high-strength polycarbonate
chemical and splash resistant
Reg. Agency Approvals ...... FCC Part 15, Class A; **CE**

MECHANICAL

Weight .... .934 lbs.
Size (L x W x D) .... 8.4" x 3.8" x 2.1"

BAR CODE SCANNING

Laser Diode .... 680 nm
Scan Rate .... 36 (±3) scans /second (bidirectional)
Skew .... ±65°
Pitch .... ±55°
Specular Dead Zone .... ±2°
Ambient Light Immunity.... Immune to direct exposure from normal
office and factory level lighting and
direct exposure to sunlight
Contrast Ratio .... 20% absolute dark/light reflectance
differential at 675 nm
Bar Code Symbologies ...... Code 3 of 9 (Standard and full ASCII)
UPC/EAN/JAN + addendums
Codabar
Code 11
Interleaved 2 of 5
Code 128
MSI/Plessey
Code 93
Standard 2 of 5
Matrix 2 of 5
The Apex II can Auto-discriminate
between the above codes
Opt. Bar Code Scanners .... Tethered light pen, laser or CCD
Integrated standard or long-range
laser scanner

DEPTH OF FIELD SPECIFICATIONS
Scanner Distance from Label

Narrowest Bar Width (Mils)	Standard Range (Inches)	Long Range (Inches)
6.0	4.4 to 6.0	
7.5	3.7 to 7.2	
10.0	3.9 to 9.8	14 to 20
15.0	2.5 to 13.0	6 to 25
20.0	3.8 to 15.6	6 to 35
40.0	3.9 to 21.9	6 to 55
55.0	5.3 to 23.4	12 to 65

CAUTION
LASER LIGHT DO NOT STARE INTO BEAM
680nm LASER
1.0 MILLIWATT
MAXIMUM OUTPUT
CLASS II LASER PRODUCT

DANGER
LASER LIGHT
AVOID DIRECT EYE
EXPOSURE
680nm LASER
50 MILLIWATT MAX OUTPUT
CLASS IIIa LASER PRODUCT

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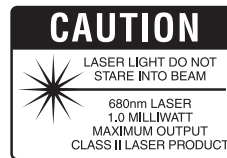
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