

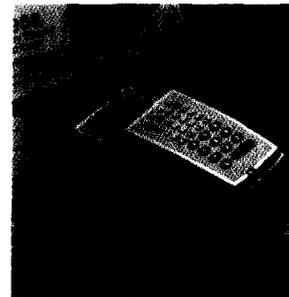
**RECEIVING** Lost shipments are often the result of incorrect labeling and misplaced storage in your warehouse. On the other hand, unwanted deliveries occupy valuable space that costs you money every day. Symbol's software, hand-held computers and laser scanners verify that what you order is what is shipped to you. Missing items are instantly identified and incorrect deliveries never make it through the back door. With data stored in hand-held computers, or available through real-time communication with your host computer, you can reduce mistakes and increase profits.

**PICK AND PUT-AWAY** In the warehouse, systematic picking transforms order processing into an effective means of responding directly to your customers' needs. By recognizing priorities and emergencies, our system keeps total customer satisfaction in mind. Our solutions can help you pick an order, a batch or a wave; and depending on your requirements, you can pick by zone, field, parallel zone or single thread.

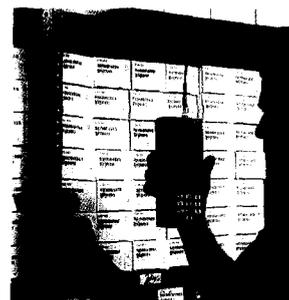
With the aid of portable scanners, the put-away function can be manual or automatic. Specialized material handling equipment, like forklifts, overhead rails, conveyors and guided vehicles, can be easily integrated. With our RF communication systems, the exact location of each item can always be identified in real-time.

**SHIPPING** For businesses large and small, shipping is the final step that fulfills the sales transaction. Therefore, expediting orders on a timely, accurate basis is critical. With our bar code data capture products, you can incorporate cost-effective methods into your everyday schedule. Shipments can be consolidated to optimize trailer capacity and weight factors. For easy offloading, they can be organized automatically. In addition, clean, accurate shipping manifests can be generated on the spot. Our systems ensure that what goes out the door is the right product headed for the right customer at the right time.

**INVENTORY MANAGEMENT** In many businesses, sales revenue can be directly linked to a company's inventory management program. In some cases, our systems have guided business toward total inventory accuracy. Virtually eliminating physical checks, our products can help you to reduce errors, stockouts, spoilage and obsolete stock. With flexible, accurate cycle counting, our data collection networks enable you to maintain excellent customer service and increase sales.



LRT 3800  
checks goods  
in receiving



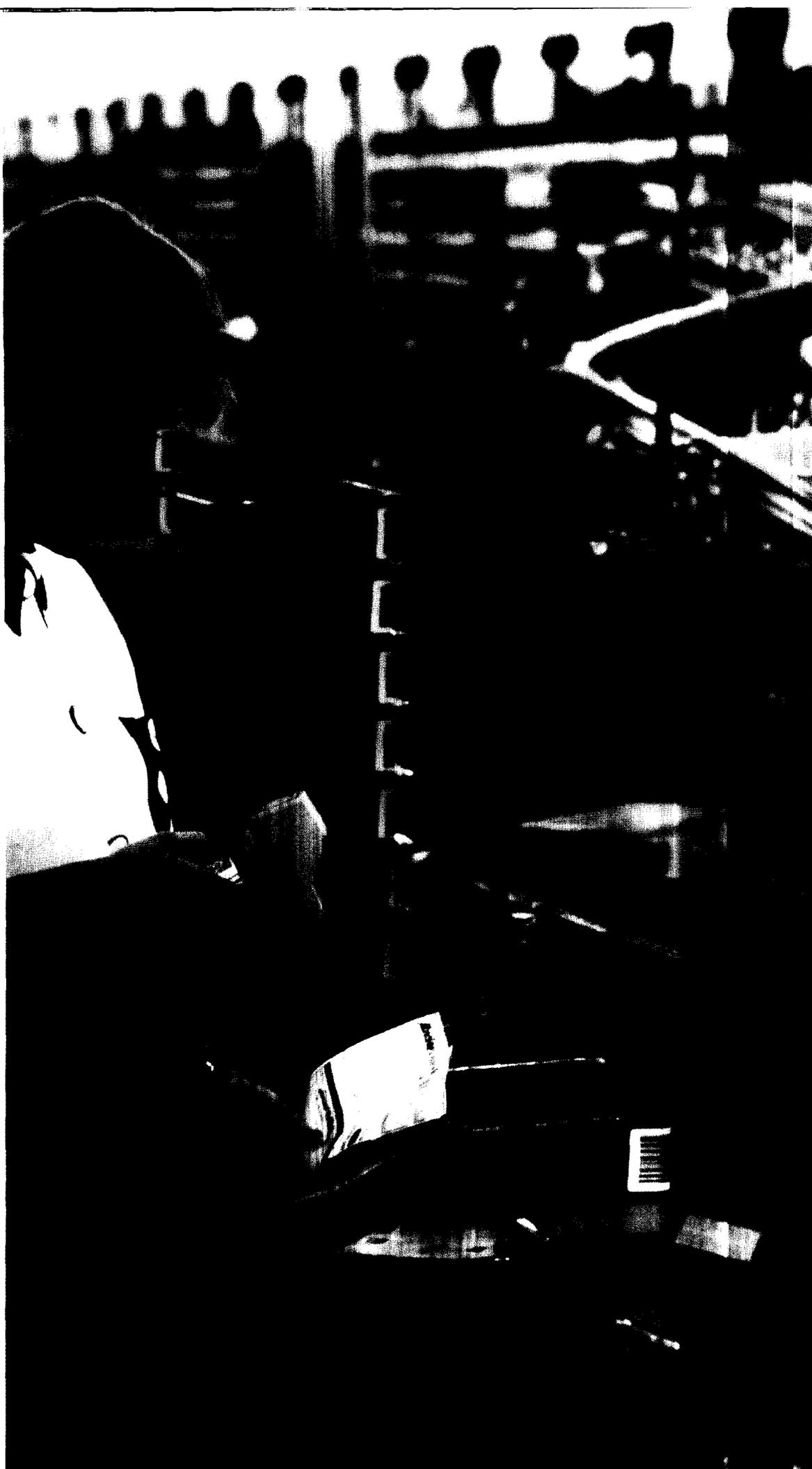
LS 2000  
and RFT 1530  
in inventory



**M**ANUFACTURING IS AT THE HEART OF THE BUSINESS WORLD. ITS MANY INTRICACIES AFFECT MOST BUSINESSES ON A DAILY BASIS. IN TODAY'S COMPETITIVE ENVIRONMENT, EFFECTIVE FACTORY AUTOMATION IS A MUST FOR SURVIVAL. ITS BENEFITS INCLUDE LABOR EFFICIENCY, REDUCED LABOR REQUIREMENTS, AND IMPROVED INVENTORY CONTROL, QUALITY CONTROL, PRODUCTIVITY AND CUSTOMER SERVICE.

OUR BAR CODE DATA CAPTURE SYSTEMS PROVIDE MANUFACTURERS WITH LIMITLESS OPPORTUNITIES TO MAKE THEIR FACTORIES MORE COMPETITIVE AND EFFICIENT. OPERATIONS THROUGHOUT THE WORK FLOW CAN REALIZE SUBSTANTIAL SAVINGS ON AN EVERYDAY BASIS. FROM RAW MATERIALS TO QUALITY ASSURANCE TO FINISHED GOODS INVENTORY AND SHIPPING, WE CAN HELP YOU WORK MORE EFFICIENTLY. AS YOUR TECHNOLOGY PARTNER, WE'LL WORK TOGETHER TO MAKE YOUR FACTORY MORE PRODUCTIVE AND, ULTIMATELY, MORE PROFITABLE.

*One  
workstation  
in a Symbol  
Data Collection  
Network*



# Manufacturing

## RAW MATERIAL INVENTORY

Depending on the manufacturer's product line, raw materials vary considerably from plant to plant. However, all factories need to be current on their raw materials inventory. They must be up-to-date on quantity, grade, source, lot, location and the status of the supplier's pipeline. Our systems can make the difference between "Just-In-Time," "too early," or "too late." Through our hardware and software products, we can enable you to see what's on hand today as well as what's being delivered tomorrow.

## PRODUCTION TRACKING

Detecting bottlenecks before they occur is one of the keys to success in manufacturing. If production is unit-oriented or bundled in lots, monitoring its flow is critical. By incorporating our systems into the process, you can alert operators to release raw materials as these units or lots approach final assembly points. Especially if kitting and picking actions must be accomplished, this up-to-the-minute prompting can dramatically improve your productivity.

## QUALITY ASSURANCE TEST REPORTING

Reporting problems at test points and inspections is another vital benefit of factory automation. With real-time RF networks, you can catch a defective part early in production, saving valuable time and expense. Our systems enable you to differentiate between an isolated problem and a factory-wide epidemic. This preventive assurance protects your business against defective products that can reach your customers and damage your reputation.

## WORK-IN-PROCESS INVENTORY

Monitoring work-in-process inventories is critical to total production efficiency. By keeping track of scrap parts and controlling the overall process, our integrated systems provide you with the total picture. There is no danger of over or under-estimating this vital element of inventory control. With this information, managers are always in touch with their current resources and its value.

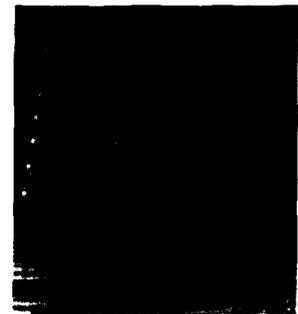
## FINISHED GOODS INVENTORY

When completed products pass inspection, they become valuable almost instantaneously.

With real-time RF communications, our bar code data capture systems follow your finished goods from the assembly line to the distribution center and onto the delivery truck. To ensure that pilferage or other shrinkage losses don't rob profits at this point, our systems enable you to maintain strict control over item movement and inventories.

## SHIPPING CONTROL

When customer orders are finally loaded onto the truck, manufacturers expect them to reach the correct destination every time. Shipping errors reflect poorly on the bottom line and can damage your business's reputation. Using our laser scanners and portable computers, you can minimize routing errors and control your shipping operation. Added benefits include expedient claims processing, reduced insurance expenses, and minimal demurrage.



Scan module, used in conveyor



Printed circuit board QA, using Symbol's True Data High Performance Network



**I**N THE WORLD OF TRANSPORTATION, REAL-TIME CONTROL OVER THE MOVEMENT OF CARGO AND PASSENGERS IS THE KEY TO BUSINESS SUCCESS. OUR BAR CODE DATA CAPTURE SYSTEMS PROVIDE YOU WITH THE INFORMATION YOU NEED, WHEN YOU NEED IT, TO SPEED YOUR CUSTOMERS, THEIR CARGO, OR BOTH TO THEIR PROPER DESTINATIONS, ON TIME, EVERY TIME.

FROM PASSENGER AND BAGGAGE RECONCILIATION TO AIRCRAFT MAINTENANCE RECORDS, WE HAVE THE AUTOMATIC BAR CODE DATA CAPTURE SOLUTIONS FOR TRANSPORTATION DILEMMAS. OUR SYSTEMS SPEED UP BAGGAGE RETRIEVAL, INCREASE SECURITY, AND ENHANCE VEHICLE SAFETY. WE MAKE OUR PRODUCTS TOUGH, TO WORK IN HARSH ENVIRONMENTS AND TO WITHSTAND PUNISHING USE, MAKING SURE THAT THE VITAL INFORMATION YOU NEED IS AT HAND ON SCHEDULE.

IN A TIME WHEN TRAVELERS ARE DEMANDING HIGHER SAFETY LEVELS AND INSTANT ANSWERS, YOU CAN BE THERE WITH SOLUTIONS THAT KEEP YOUR CUSTOMERS ON THE MOVE.

LRT 3800  
used for  
baggage  
reconciliation



## RAPID PACKAGE DELIVERY

Parcels shipped by delivery services can be closely tracked with systems designed by Symbol Technologies. Through our data capture products, bar coded information is input to your host system via batch down-loading or RF transmission. At any moment, your staff can locate a package or report its transit and delivery status. This results in on-time performance and quick response to lost goods inquiries.

## THE U.S. POSTAL SERVICE

Symbol products are at work in the oldest and largest delivery system in the United States – the Postal Service. Operators use our LDT 3805 to log in Express Mail packages as they are routed throughout the country. And carriers have our Scanning Data Terminal on their trucks to verify their shipments, ensuring that the right packages end up at the right destinations.

## AIRLINES

For smoother, more cost-effective operations, airlines are moving to automatic bar code data collection systems. With laser scanners and hand-held computers, or with our integrated products, we

can help you enhance safety and reduce accidental loss. Bar-coded baggage tags enable you to match travellers with their baggage on the spot. Therefore, security threats from unclaimed baggage can be eliminated.

For better customer service, misplaced bags can be logged into the system, offering passengers quick response to inquiries. Our products can also service your airplane maintenance program. Throughout each shift, you can record work functions, parts usage, and equipment repair data into the system. You can then download this data to your central computer at the end of each shift. For a business that depends on performance and safety, the accuracy and efficiency you gain can be crucial to your long-term future.

## FREIGHT TRUCKING

In the small window of time typical to scheduled motor freight shipping, freight loading allows a narrow margin of error. An LRT 3800 laser radio terminal can help search, locate, pick and load freight with a real-time link to your host computer system.

Operators won't waste time verifying information or sending the wrong goods, because the right information and numbers are displayed on the screen. As goods travel throughout the world, you have an accurate record of where your shipments are at any given moment.

## CROSS DOCK CONTROL

The focal point for many logistics operations is the distribution center or hub facility. Rapid, accurate movement of goods from receiving bay to shipping bay is the business imperative here. Cross dock control systems built around our real-time bar code data capture building blocks reduce handling delays, prevent misloads, provide up-to-the-minute information about goods movement, and help to ensure that you deliver superior customer service.



*A Symbol Data Collection Network, freight receiving*



*United Parcel Service embedded a Symbol bar code laser scanner into their package tracking system*



**A**S INDUSTRY MOVES TOWARD THE FUTURE AND MAKES PLANS TO REALIZE THE FAR-REACHING BENEFITS OF AUTOMATIC BAR CODE DATA CAPTURE, MORE AND MORE BUSINESSES ARE TURNING TO SYMBOL TECHNOLOGIES... FOR IDEAS, ASSISTANCE, PRODUCTS AND SUPPORT. WE WORK TO UNDERSTAND YOUR CRITICAL BUSINESS ISSUES AND THEN, IN PARTNERSHIP WITH YOU, CONFIGURE SOLUTIONS AIMED AT IMPROVING YOUR BOTTOM LINE.

AROUND THE WORLD, IN AREAS AS DIVERSE AS HEALTH CARE, OFFICE AUTOMATION AND LAW ENFORCEMENT, WE ARE WORKING WITH OUR CUSTOMERS TO DEVELOP SOLUTIONS THAT MAKE THE BUSINESS WORLD FUNCTION MORE EFFICIENTLY.



*LS 8500 HV  
in VIN  
application*

*The LS 2000  
and PDT 3300  
used for patient  
identification*



## Expanding Markets

### UTILITIES

Government regulation burdens utilities with endless documentation. Our automatic bar code data capture systems, including rugged hand-held computers and real-time communications networks, allow utilities to improve inventory control, warehouse management, asset management, document tracking, time and attendance control, payment processing, and field service meter reading. Often, paper-based systems can be replaced with fully electronic alternatives. Where paper is still required, its flow is expedited, and productivity is boosted.

### TELEPHONE INDUSTRY

Industry changes such as deregulation have spurred an amazing surge of competition in the telephone industry. To survive in this intense environment, telephone companies must become more cost-efficient. With our portable computers and integrated systems, we offer telephone companies new ways to compete.

Via portable terminals, dispatching, diagnostic and reporting capabilities are available to field personnel. Laser scanners stationed at counting centers keep track of pay telephone coin collection. Tracking

expensive plug-in circuit boards that have recently replaced phone switching relays is an emerging application. Finally, telephone directories are a fast-growing profit source. By tightly controlling their distribution, we can help telephone companies be more profitable.

### FEDERAL GOVERNMENT

In the public sector, efficiency and service are paramount. Our automatic bar code data capture systems can help government spend our tax dollars wisely by improving its complex operations. At all levels, we enable government agencies to be more cost conscious. Asset and document tracking for law enforcement and fiscal control, security systems for government offices, parcel tracking for the U.S. Postal Service, and inmate management for federal correction facilities are some examples of how our products make a difference in the way government works.

### STATE & LOCAL GOVERNMENTS

At the state and local levels, our products help government run more efficiently in a wide variety of applications. In state prisons, our laser scanners and hand-held computers track inmate identification and movement. We help state and local

institutions (colleges, museums, parks) save funds by reducing paper-processing time. Local police and sheriffs rely on our systems to keep track of their records from parking violations to criminal evidence. We also help automate state motor vehicle departments by processing drivers' licenses, vehicle registrations, and monitoring emissions to name just a few examples.

### HEALTH CARE

More than ever before, health care providers are facing unprecedented challenges to improve service and reduce costs. Our automatic bar code data capture systems can help them meet these challenges. Tracking patient registration, medical records and billing; eliminating pharmaceutical dispensing errors; safeguarding medical supplies; and ensuring radiology management as well as overall hospital security are vital ways that our systems support the health care industry.

### COMMERCIAL SERVICES

When Symbol systems are used in office automation, the

physical assets of any company can be monitored, reducing theft and accidental misplacement. With the installation of bar coded security systems, real-time information on employee ID and time and attendance is also accurately reported. You'll see improvements immediately with instant response time and complete, accurate information. Bar coded documentation means fast and easy reference, speeding up your information and work flow.

### AUTOMOTIVE

When the California Bureau of Auto Repair mandated that all vehicles shipped to the state after 1990 carry a bar coded Vehicle Identification Number (VIN), Symbol first helped in the design of the bar code label. Then, we developed a high visibility scanner that can read the bar code in the brightest ambient light. In addition to the emissions testing process, these LS 8500 HV scanners are used in vehicle inventory, shipping, law enforcement, and other field applications where bar codes must be read in outdoor environments.

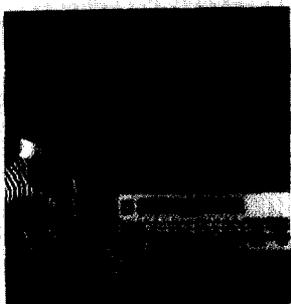
Symbol...The Bar Code Data Capture Company



**B**EYOND PRODUCT AND SYSTEM SOLUTIONS, WE EXTEND OUR TECHNOLOGY PARTNERSHIPS WITH CUSTOMER SUPPORT AND SERVICE. WE OFFER A WIDE RANGE OF SERVICES, FROM EDUCATION TO CONSULTATION TO SYSTEM ENGINEERING SUPPORT, TO MAKE SURE THAT OUR AUTOMATIC DATA CAPTURE SYSTEMS MEET ALL YOUR INFORMATION MANAGEMENT NEEDS.

AS YOUR BUSINESS PARTNER, WE WORK HAND-IN-HAND TO HELP YOU SELECT THE PROPER BAR CODE SYMBOLOGY, THE MOST APPROPRIATE HARDWARE PLATFORMS, THE RIGHT SOFTWARE SOLUTIONS TO COMPLEMENT THE EQUIPMENT, AND THE BEST SERVICE OPTIONS FOR YOUR BUSINESS SITUATION.

BOTTOM LINE, WE UNDERSTAND THAT OUR RESPONSIBILITY IS TO ENABLE YOU TO SHAPE YOUR BUSINESS OPERATIONS TO MEET THE COMPETITIVE CHALLENGES OF TODAY, AND TOMORROW. OUR COMMITMENT TO A TOTAL PARTNERSHIP IS THE WAY IN WHICH WE LOOK TO FULFILL THAT RESPONSIBILITY.



*Symbol  
Customer Service  
Representative*

*Symbol Associate  
repairs circuitry*



## Service and Support

Symbol  
Service Locations,  
worldwide

**YOUR SINGLE SOURCE** Within the data capture industry, Symbol scanners, hand-held computers and RF systems set the standard for quality, durability, and innovation. Our worldwide reputation for technological leadership is complemented by our comprehensive support services.

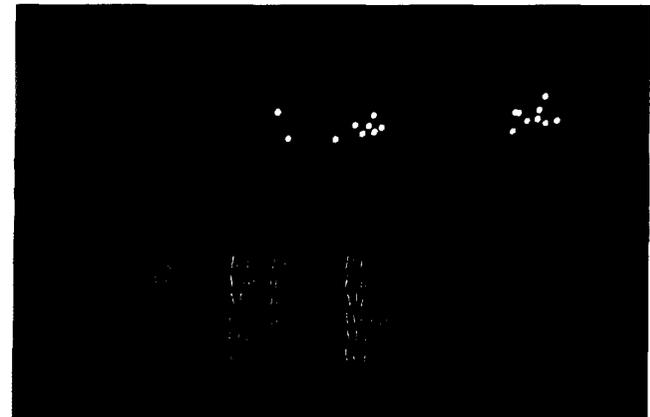
**SYMBOLGY PRODUCTS AND CONSULTATION** To help you in the transition to bar code implementation, we offer a variety of bar code education courses and consultation services. From courses that focus on the advantages of bar coding to consultation on system design, hardware, software, symbology selection and industry specifications and standards, our services will help you determine how to best meet your information needs.

**VERIFICATION** Our LASERCHEK II® symbol verifier will analyze your bar code's quality and scannability. It will help you with package label design, color selection and print compensation decisions, and will ensure that the symbols used in your bar code data capture systems meet all specifications and reading performance requirements.

**SYMBOL SERVICE** For the life of our systems, we're committed to total customer satisfaction. Symbol associates are always available for consultation, advice, problem-solving, maintenance and operator training. We're working every day to make sure that you are receiving the full benefits of our products.

Symbol offers a variety of service plans to ensure that your Symbol products and data collection systems operate effectively. On-site service, central service or depot service puts damaged equipment back in operation quickly. We also have a time and materials plan, coupon service and a self-maintenance program available.

**SYSTEMS ENGINEERING SUPPORT** Your business, its challenges, needs, and problems, are unique. The job of our Systems Engineering group is to configure the right bar code data capture solution for your particular situation. From analysis, to design, throughout implementation and roll out, these professionals work with you and our marketing representative each step of the way to ensure that your goals are met. Located throughout our network of sales offices, and supported by a dedicated headquarters based staff, the Systems



Engineering group offers focused expertise in distributed systems design, networking and connectivity, RF systems, and applications development.

**SYMBOL EXPRESS** As a self-contained express order fulfillment center, Symbol Express can ship selected available products within 48 hours to any location within the continental United States. Any authorized U.S. Symbol reseller can place orders through Symbol Express. In addition, end user customers can order products directly from Symbol by using the Symbol Express catalog.

Symbol Express can be contacted from any location in the continental United States during normal business hours (9:00 am to 5:00 pm) by telephoning our toll-free number – 800 SCAN 234. We also

offer a 24-hour FAX communication line at (516) 244-4130.

**SYMBOL CENTRAL** You can contact our central resource group for product and application information by dialing our toll-free number – 800 SCAN 234. Symbol Central gives you instant access to an extensive library of information between 8:30 am and 5:00 pm Eastern time (or you can leave a message at our message center after hours).

**SYMBOL LEASE** The SYMBOLEASE program is designed to meet all of our customers' equipment leasing needs. It offers you a full range of financing programs, including leasing, operating leases, financing, and special lease terms.

Symbol...The Bar Code Data Capture Company



**symbol**<sup>®</sup>

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SPC 3430 SPEED CHECK



## MOBILE, WIRELESS TRANSACTIONS WITH HAND-HELD POINT-OF-SALE

### **INTEGRATED POS ERGONOMICS**

*Expand your merchandising capability.* With its unique form factor, Speed Check SPC 3130 integrates a portable computer, a laser scanner, a magnetic stripe reader, and a portable printer into one self-contained unit that handles all standard point-of-sale transactions.

### **PORTABLE/TRANSPORTABLE**

*Provide point-of-sale services wherever and whenever they are needed.* Because this wireless Speed Check can be put into operation instantly, this enables you to react to real-time check-out demands.

### **SPECTRUM ONE® NETWORK**

*Increase productivity with real-time data throughput.* Speed Check operates on the Spectrum One® wireless store network. This adds real-time data transaction capability to your retail operation and enables increased efficiency.

### **MODULAR/EXPANDABLE**

*Customize your unit to meet your automatic data transaction needs.* You can connect Speed Check to a cash drawer or a document/journal printer which adapts it to specific sales applications.

### **CUSTOMER SATISFACTION**

*Create satisfied customers – instantly.* Symbol's unique Spectrum One® Network makes the flexibility of the wireless store a reality today – enabling you to offer personal service and respond to your customers' needs anywhere, anytime.



## SPECIFICATIONS

<b>Dimensions:</b>	10.5 in. (26.8 cm) wide x 9 in. (22.9 cm) long x 2.5 in. (6.4 cm) high
<b>Weight:</b>	Under 5 lbs (2.3 kg)
<b>PRC 3310 System Unit:</b>	20-character by 8-line display 35 and 46 hard-key keyboard options 52 soft-key keyboard options Easily removed for traditional hand-held applications, e.g., inventory
<b>Speed Check Adaptor:</b>	Dual-track magnetic stripe reader Thermal printer: 42 column, bar code capable IS 2000 integration



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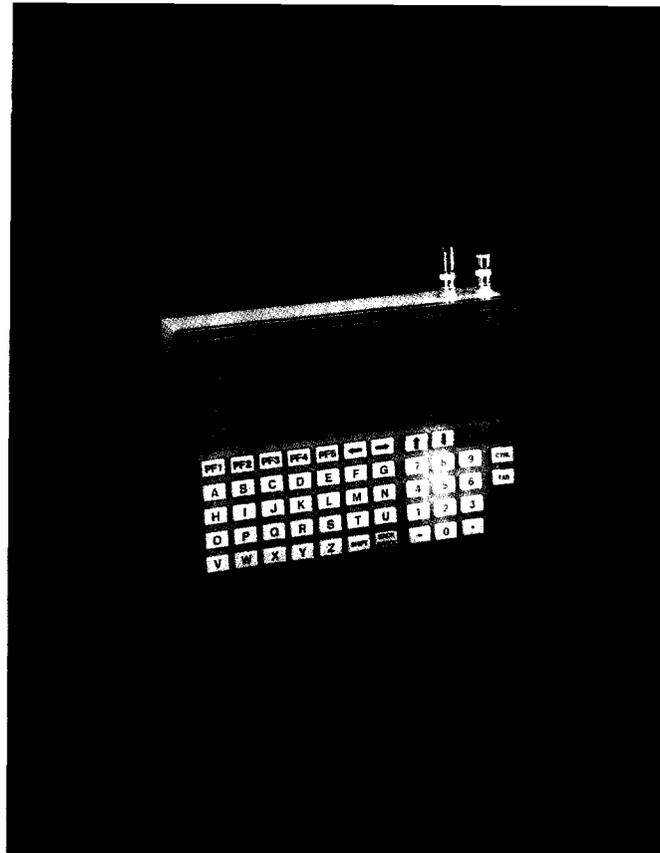
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# VRC 3910 VEHICLE RADIO COMPUTER

**High Performance  
Spectrum One<sup>®</sup> RF  
Technology**

*Achieve real-time efficiency with spread spectrum RF communications.* Symbol's Spectrum One<sup>®</sup> RF Network enables you to rely on wireless data transmission to expedite each transaction, and better manage the information flow.

**Vehicle-Mount Design**

*Make forklift operations more productive with on-line automatic data transactions.* The VRC 3910 is designed to mount directly to your forklift. It includes features to meet your operational demands, including a fluorescent display and an enlarged-key keyboard.

**Large 8 x 40 Fluorescent  
Display and 54-Key  
Alphanumeric Keyboard**

*Reduce operator fatigue with easy viewing and typing.* The enlarged keys allow easy operation by workers wearing gloves, and the large display is easy to read, making operators more comfortable and productive.

**Heater Option**

*Enhance productivity by automating operations in cold environments.* The VRC 3910 expands the automatic data transaction capabilities of your forklift operators, even in locations with temperatures as low as -22°F, such as in freezers.

**Single-Source Solution**

*Simplify systems installation.* With a total systems approach to set up and operation, you can count on Symbol to enhance your long-term productivity.

**Change The Way Your  
Business Works... With A  
Vehicle-Mount Radio  
Computer From Symbol**

The VRC 3910 extends real-time interactive data communications to workers operating forklifts and other factory vehicles in industrial sites. With on-line transmission to your host system via the Spectrum One<sup>®</sup> Network, you can better manage your business information and operate more profitably.

The computer's 16-bit microprocessor handles the most demanding data applications. The DOS operating system allows your programmers to use standard Microsoft<sup>®</sup> C software for application development. And, Symbol's STEP software, IBM 3270/5250 emulation, or custom software offers you connectivity flexibility.

# SPECIFICATIONS

## GENERAL CHARACTERISTICS

- Keyboard:** 54-key large hard key, alphanumeric. Terminal Emulation: STEP (Symbol Terminal Emulation Program), 3270 emulation, 5250 emulation
- Display:** 8-line x 40-character (5 x 7 dot matrix), large vacuum fluorescent
- Real-Time Clock:** Time and date stamping
- Interfaces:** Rugged DE 9 connector for laser scanners  
Rugged DB 25 connector for industry standard RS-232-C port
- Power Input:** 14-50 Proprietary Input Circuitry provides protection for complete loss of volge (up to one second) and voltage spikes - excess of 100 VDC  
12 VDC - optional 12-24 VDC power converter required. 115 VAC/60 Hz - optional AC power adaptor required.  
220 VAC/50 Hz - optional AC power adaptor required

## RF DATA COMMUNICATIONS

- Network:** Spectrum One\* RF network (used with 3850 transceiver)
- RF Output Power:** 850 mw (approx.), transmitter output
- Antenna:** Dual BNC connectors, diversity capability
- Frequency:** 902-928 MHz (spread spectrum modulation)
- Spreading Code:** Multiple, software controlled
- Data Rate (effective):** 60.6 kbps

## COMPUTER

- Microprocessor:** V25; 16-bit (80c88 type), 8 MHz
- Operating System:** 128 KB EPROM; Runs DOS, BIOS, diagnostic
- Application Storage:** 256 KB flash EPROM for program and data storage
- RAM Storage:** 256 KB, 640 KB RAM options for program and data storage
- Tools:** Microsoft "C" programmable and PDT 3000 series compatible

## PERIPHERALS

- Scanners:** Supports all Symbol 5-volt solid-state laser scanners
- Printers:** Supports designated Symbol printers

## PHYSICAL AND ENVIRONMENTAL

- Dimensions:** 11.5 in. (29.2 cm) L x 9.0 in. (22.9 cm) W x 2.5 in. (6.4 cm) D
- Weight:** 8.75 lbs (4 kg)
- Operating Temperature:** 32° to 122°F (0° to 50°C). -30° to 60°C (optional with heater)
- Storage Temperature:** -40° to 167°F (-40° to -75°C)
- Humidity:** Up to 95% non-condensing at 122°F (50°C)
- Shock/Vibration:** Designed for industrial truck-mounted configuration
- ESD:** 20 kV all surfaces, with no RAM data loss
- EMI:** FCC, Part 15, Class A requirements for computing devices
- EMS:** 30 volts/meter (0-1 GHz)
- Altitude:** 10,000 ft (3048 m) above sea level



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Germany (Dietzenbach)  
FAX: 49-60-74-427-95/TEL: 49-60-74-490-20  
(Duesseldorf)

FAX: 49-211-32-04-70/tel: 49-211-32-04-52

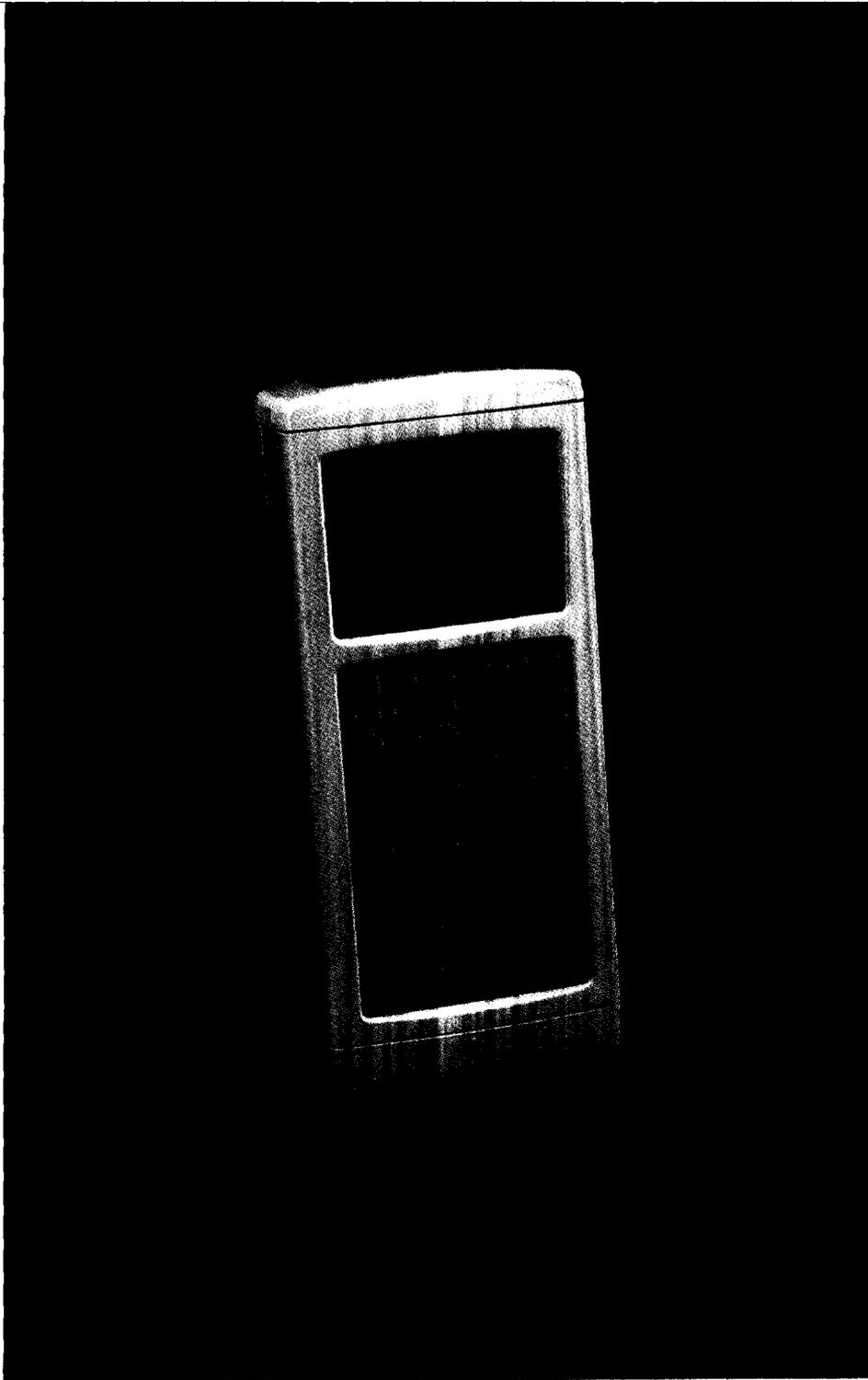
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PRC 3310 PORTABLE  
RADIO COMPUTER

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## HAND-HELD, WIRELESS DATA TRANSACTIONS FOR KEY-INTENSIVE APPLICATIONS

**HIGH PERFORMANCE SPECTRUM  
ONE™ TECHNOLOGY**

*Achieve on-line efficiency with spread spectrum RF communications.* Symbol's Spectrum One™ Network enables you to rely on wireless data transmission to expedite each transaction, and better manage information flow.

**MODULAR/EXPANDABLE**

*Customize your data capture needs to your business.* As your business evolves and grows, the PRC 3310's modular design allows you to expand its capabilities while preserving your initial equipment investment.

**POWERFUL DOS ARCHITECTURE**

*Benefit from the use of standard software development tools.* Built with 16-bit DOS architecture, this powerful, portable wireless unit offers you advanced programming capabilities without requiring you to learn new software languages.

**RUGGED CONSTRUCTION**

*Save on replacement/repair costs with these durable devices.* Built to last, the PRC 3310 will stand up to punishing treatment in the workplace, reducing the expense of repairs or replacements.

**SINGLE-SOURCE SOLUTION**

*Simplify systems integration.* With a total systems approach to set up and operation, you can count on Symbol to enhance your overall productivity for the long term.

## CHANGE THE WAY YOUR BUSINESS WORKS... WITH PORTABLE, INTERACTIVE DATA PROCESSING

For businesses that demand key-intensive, interactive data processing, the PRC 3310 Portable Radio Computer incorporates Spectrum One<sup>®</sup> wireless technology. This hand-held computer adds real-time communications to your current system, making your operation more efficient with optimum transaction time and on-line management control. With 16-bit architecture, the PRC 3310 is powerful enough to manage most wireless data transaction requirements, allowing the use of demanding applications with extensive databases. And, new applications can be developed using standard Microsoft<sup>®</sup> C software. This allows your programmers to get to work fast.

The PRC 3310 is designed for modular expansion to accommodate your applications as they grow. Multiple options and peripherals, as well as plug-in support for Symbol laser scanners and portable printers, are available to meet the changing demands of wireless data transactions. Whether you customize for indoor or rugged

outdoor use, the PRC 3310 provides total applications flexibility. Built to withstand a four-foot drop to concrete, it keeps working to help you improve your productivity in virtually any workplace.

### *Retail*

The PRC 3310 is an invaluable asset to the retailer with its real-time data interchange. Featuring a programmable display, it can handle payroll processing, inventory control, warehouse trafficking and in-store transfers. With one of Symbol's laser scanners or portable printers, this unit can perform shelf price audits, print new bar code labels on the spot, and monitor direct store deliveries in real time.

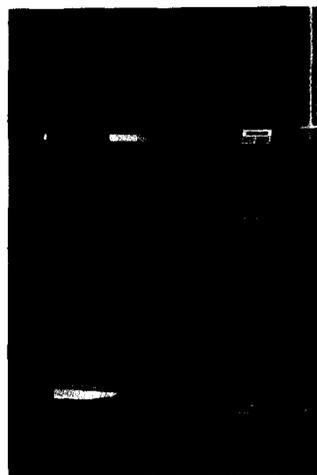
### *Industrial Applications*

In the industrial world, the PRC 3310's radio communications keeps close track of business. For warehouse and distribution applications, these portable radio computers can monitor the business pipeline from the receiving dock to completed orders. Increasing the efficiency of your delivery process, they can help you cut the labor-intensive expense of locating lost shipments. Typically, they can be applied to process transactions rapidly for the airline industry, rental car operations, and rail-road or shipping freight lines.

### *Peripherals and Accessories*

A range of application-specific peripherals and options enables you to customize the PRC 3310 to your business.

- The Enhanced Universal Four-Slot Cradle charges four internal batteries simultaneously.
- The Single-Slot Charger charges one internal battery.
- The Battery Charging Adaptor recharges internal batteries for one unit.
- The Scan Module adds scanning capability to the PRC terminal with a simple snap-on operation.
- The Integrated Printer adds portable receipt printing capability for portable transactions.
- Two Keyboard Options are available: enlarged hard key or "touch sensitive" membrane keyboard.
- The Holster attaches to the user's belt to protect and safely carry the PRC 3310.



## SPECIFICATIONS

### GENERAL CHARACTERISTICS

- Keyboard:** 56 soft key sealed; 35 hard key (optional). Soft keyboard is field replaceable, keyboard and functions can be redefined.  
**Display:** 8 line x 20 character (5 x 7 dot matrix); 64 x 120 pixel addressable Supertwist backlit, with high resolution display and software-controlled viewing angle  
**Real-Time Clock:** Time and date stamping; software controlled  
**Interfaces:** DE 9 port connection to Symbol laser scanners, contact wand scanners, printers. DB 25 port for RS-232-C connection to host  
**Power:** 10 cell NiCad pack (800 Ma/hr) and 2 lithium cells (backup)

### RF DATA COMMUNICATIONS

- Network:** Spectrum One\* spread spectrum RF network. Symbol LRT 3800, VRC 3910, 3850 transceiver compatibility  
**Output Power:** 850 mw (approx.) transmitter output  
**Antenna:** Omni-directional stub  
**Frequency:** 902-928 MHz spread spectrum modulation  
**Spreading Code:** Multiple. Software controlled  
**Data Rate (effective):** 60.6 kbps

### COMPUTER

- Microprocessor:** V25; 16-bit (80c88 type), 8 MHz  
**Operating System:** 128 KB EPROM; Runs DOS, BIOS, diagnostic  
**Application Storage:** 256 KB flash EPROM for program and data storage  
**RAM Storage:** 256 KB, 640 KB, 1.1 MB RAM options for program and data storage  
**Tools:** Microsoft "C" programmable and PDT 3000 Series compatible. Symbol Terminal Enabler Program (STEP) for operation without custom programming

### PHYSICAL AND ENVIRONMENTAL

- Size:** 7.8 in (20 cm) L x 3.5 in (8.9 cm) W x 1.75 in. (4.4 cm) D  
**Weight:** 21 ounces (596 gm) without batteries  
**Operating Temperature:** 32°F to 122°F (0°C to 50°C)  
**Storage Temperature:** 4°F to 140°F (-20°C to 60°C)  
**Humidity:** 95% non-condensing at 122°F (50°C)  
**Shock:** Withstands 4 foot (1.2 m) drop to concrete  
**Altitude:** 10,000 feet (3048 m) operating and storage  
**Environmental:** Sealed against wind-blown dust and rain  
**ESD:** 15 kV all surfaces, with no RAM data loss  
**EMI:** FCC, Part 15, Class B  
**EMS:** FCC, Class A  
**Compliance:** FCC, Part 15 (U.S. use only)



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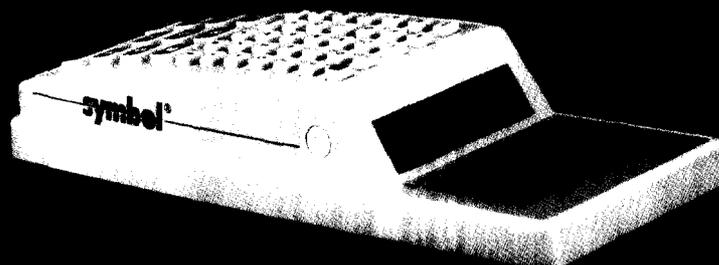
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LRT 3800 INTEGRATED  
LASER RADIO TERMINAL

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## INTEGRATED WIRELESS DATA TRANSACTION FOR SCAN-INTENSIVE APPLICATIONS

### **HIGH PERFORMANCE SPECTRUM ONE TECHNOLOGY**

*Acquire real-time efficiency with spread spectrum RF communications.* Symbol's Spectrum One® Network enables you to rely on wireless data transmission to expedite each transaction, and better manage information flow.

### **INTEGRATED LASER SCANNING**

*Increase productivity in scan-intensive applications.* Integrating bar-code laser scanning and portable computing in one lightweight unit, the LRT 3800 leaves one hand free to manipulate hang tags or bar coded products.

### **ERGONOMIC DESIGN**

*Enhance working conditions by increasing user comfort.* The LRT 3800's lightweight, well-balanced design reduces fatigue throughout the work shift, allowing employees to manage their tasks more easily.

### **POWERFUL DOS ARCHITECTURE**

*Benefit from the use of standard software development tools.* Built with 16-bit DOS architecture, this powerful, portable wireless unit offers you advanced programming capabilities without requiring you to learn new software languages.

### **LARGE NUMERIC KEYS**

*Facilitate easy alphanumeric data input.* A 46-key keyboard enables users to input both alpha and numeric data from the same keyboard state (no shift key required).

## CHANGE THE WAY YOUR BUSINESS WORKS... WITH LASER SCANNING, COMPUTING AND REAL-TIME COMMUNICATIONS COMBINED IN ONE COMPACT UNIT

The LRT 3800 is an integrated laser data terminal combining the benefits of visible laser diode scanning, manual key entry, advanced computing, and RF communications into a lightweight, portable unit. With on-line transmission to your host system via the Spectrum One® Network, this high performance product allows you to improve employee productivity and better manage your business information.

Ergonomically designed for scan-intensive applications, the LRT 3800 frees the employee's other hand to expedite business tasks. And when alphanumeric input is required, the 46-key sealed rubber tactile keyboard makes manual keying simple and accurate. A Supertwist LCD backlit display features large characters for easy reading. The 16-bit DOS architecture provides easy development of demanding interactive programs for retail and industrial applications.

Constructed to withstand a four-foot drop to concrete, the LRT 3800 is also environmentally sealed against severe weather conditions. Because it is rugged, it delivers extended product life. Its real-time data transmission, coupled with powerful programming capabilities that are flexible and easy to use, allows you to quickly put the LRT 3800 to use for strategic management decision-making.

### *Retail*

In the retail marketplace, where Quick Response translates into rapid delivery, reduced inventory and improved customer service, the LRT 3800 provides real-time data management. Equipped with the RF link, these terminals can be adapted for a variety of applications requiring instant access to different databases. For inventory counts, shelf price audit, receiving, stock transfers, price markdowns and purchasing, the LRT 3800's real-time access dramatically improves productivity. Employees can process data instantaneously as they adjust hand tags, shelf merchandise, and stockroom inventory. And by connecting the LRT 3800 to a PS 1000 Series portable printer, employees can generate new bar code labels for price markdowns or shelf label changes.

### *Industrial Applications*

The LRT 3800 increases productivity at all levels of operation with a real-time database access in warehouses, transportation hubs, distribution centers, and manufacturing floors. In industrial settings, a long range version offers decoding at up to 60 inches away and a High Visibility version reads accurately in bright outdoor sunlight. The Extended Temperature Range model ensures reliable operation in cold environments, even at temperatures as low as -23°C. The LRT 3800's rugged construction can tolerate four-foot drops to concrete; plus its packaging is environmentally

sealed against wind-blown dust and rain.

### *Peripherals and Accessories*

Symbol's complete line of peripherals is designed to tailor our portable RF terminals to your business application.

- The CCM 3860 Charging Module charges four internal and four external batteries at one time.
- The CBM 3866 Cradle Base Module charges four internal batteries.
- The CBU 3865 Single-Slot Cradle Base Unit charges one internal and one external battery for an LRT terminal.
- The Universal Battery Charger charges four batteries, offering deep cycle discharging for battery conditioning.
- The Printer Interface Module connects the LRT terminal to Symbol's PS 1000 Series portable printers for "scan, print, and apply" applications.
- The Holster attaches to the user's belt to protect and safely carry the LRT.

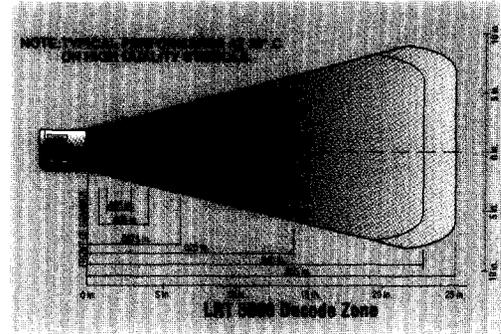


## SPECIFICATIONS

<b>Microprocessor:</b>	Integrated 80c88 compatible including DMA, Serial I/O, timers, V.25
<b>Operating System:</b>	ROM-executable DOS (MS DOS v.3.3 compatible)
<b>Base Configuration Memory:</b>	128 KB EPROM for operating system, BIOS, diagnostics, 128 KB RAM, 128 KB NV RAM for user applications software.
<b>Optional Additional Memory:</b>	Up to 640 KB RAM, 256 KB NV RAM
<b>Clock Speed:</b>	Real-Time Clock, 2/4/8 MHz software switchable

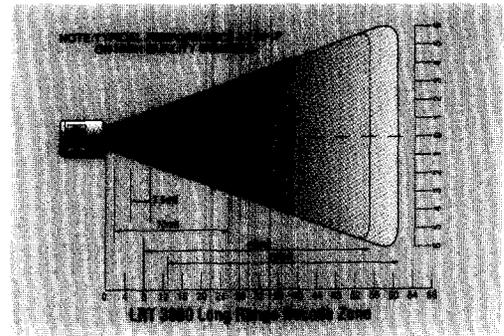
### SCANNING SYSTEM

<b>Type:</b>	Solid-state VLD, bidirectional, retrocollective
<b>Scan Element:</b>	Low mass, double mirror
<b>Light Source:</b>	675 nm, laser diode
<b>Scan Rate:</b>	36 scans/sec.
<b>Field Width:</b>	20 in. (51 cm) max.
<b>Working Distance:</b>	25 in. (64 cm) max., Long Range 60 in. (152 cm)
<b>Print Contrast Medium:</b>	25% absolute reflectance as measured at 675 nm.
<b>Skew Angle:</b>	±65° (from normal)
<b>Pitch:</b>	±55° min. (I.R. of normal)
<b>Decode Capability:</b>	UPC/EAN, Code 39, Codabar, Interleaved 2 of 5, Code 128, Discrete 2 of 5, Code 93, Code 39 full ASCII (full autodiscrimination as required)



### SPECTRUM ONE® RF DATA COMMUNICATIONS MODULE

<b>Operating Frequency:</b>	905-928 MHz (spread spectrum modulation)
<b>Spreading Code:</b>	Software generated
<b>Effective Data Rate:</b>	60.6 kbps
<b>Output Power:</b>	500 mw (approx.)
<b>Typical Indoor Range:</b>	500 feet (152 m)
<b>Compliance:</b>	Meets FCC part 15 (for U.S. use only)



### PHYSICAL AND ENVIRONMENTAL

<b>Dimensions:</b>	7.1 in. H x 8.4 in. L x 3.3 in. W (18.1 cm x 21.4 cm x 8.4 cm)
<b>Weight (without batteries):</b>	23 oz. (652.6 gm)
<b>Laser Class:</b>	CDRH Class II
<b>Power Source:</b>	Rechargeable, removable NiCad battery pack
<b>Power Optional:</b>	9-volt alkaline
<b>Humidity:</b>	5% to 95% (non-condensing)
<b>Operating Temperature:</b>	-9° to 104° F (-23° to 40° C)
<b>Non-Operating Temperature:</b>	-9° to 140° F (-23° to 60° C)
<b>Shock:</b>	Unit functions normally after 4-foot (122 cm) drop to concrete
<b>Static:</b>	15 kV electrostatic discharge to all exposed surfaces without loss of data in RAM
<b>EMI:</b>	Conforms to FCC Class A limits

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**PRODUCT ORDERING GUIDE (Addendum, Also see EPOG)**

Product number	Description	Price
<b>LRT 35 KEY</b>		
3800-NEREO5E-F	8LBL-256KB-256NVM-ETR-35K-F	3395.00
3800-NMREO5E-F	8LBL-640KB-256NVM-ETR-35K-F	3595.00
3800-NMREL5E-F	8LBL-640KB-256NVM-ETR-LR-35K-F	3895.00
<b>LRT 46 KEY</b>		
3800-NEREO6E	8LBL-256KB-256NVM-ETR-46K-F	3395.00
3800-NEVEO6E	8LBL-256KB-256NVM-ETR-HV-46K-F	3445.00
3800-NEREL6E	8LBL-256KB-256NVM-ETR-LR-46K-F	3695.00
3800-NMREO6E	8LBL-640KB-256NVM-ETR-46K-F	3595.00
3800-NMVEO6E	8LBL-640KB-256NVM-ETR-HV-46K-F	3645.00
3800-NMREL6E	8LBL-640KB-256NVM-ETR-LR-46K-F	3895.00
<i>Intrinsically Safe</i>		
3800-NEREO6E-IS	8LBL-256KB-256NVM-ETR-46K-F-IS	3895.00
3800-NMREO6E-IS	8LBL-640KB-256NVM-ETR-46K-F-IS	4095.00
<b>5250/3270</b>		
3800-NMREO66	8LBL-640KB-256NVM-ETR-46K-F-5250/SDLC	3795.00
3800-NMREL66	8LBL-640KB-256NVM-ETR-LR-46K-F-5250/SDLC	4095.00
3800-NMREO67	8LBL-640KB-256NVM-ETR-46K-F-5250/TWINAX	3795.00
3800-NMREL67	8LBL-640KB-256NVM-ETR-LR-46K-F-5250/TWINAX	4095.00
3800-NMREO68	8LBL-640KB-256NVM-ETR-46K-F-3270	3795.00
3800-NMREL68	8LBL-640KB-256NVM-ETR-LR-46K-F-3270	4095.00

Product number	Description	Price
<b>VRC 3910</b>		
3910-NE0P04E	8L-256KB-256NVM-54K	4895.00
3910-NM0P04E	8L-640KB-256NVM-54K	5095.00
3910-NEHP04E	8L-256KB-256NVM-54K-HEATER	5395.00
3910-NMHP04E	8L-640KB-256NVM-54K-HEATER	5595.00
3910-NM0P046	8L-640KB-256NVM-54K-5250/SDLC	5295.00
3910-NM0P047	8L-640KB-256NVM-54K-5250/TWINAX	5295.00
3910-NM0P048	8L-640KB-256NVM-54K-3270	5295.00
3910-NMHP046	8L-640KB-256NVM-54K-5250/SDLC-HEATER	5795.00
3910-NMHP047	8L-640KB-256NVM-54K-5250/TWINAX-HEATER	5795.00
3910-NMHP048	8L-640KB-256NVM-54K-3270-HEATER	5795.00