

# Performance, Comfort and Reliability for Retail and Commercial Applications




HAND-HELD SCANNERS

## LS 4000i Scanner Series



# The Benchmark in Hand-Held Laser Scanners: Nothing Else Measures Up to the LS 4000i Series

Features	Benefits
5 Year Plus warranty	Lower cost of ownership
Superior ergonomic design with patented two-finger trigger	Design permits triggering by index or middle fingers and provides user comfort even over extended periods of use
Flash memory	Facilitates custom settings and future upgrades
Advanced Data Formatting	Provides capability to modify scanned data before sending it to the host computer virtually eliminating software modifications
Adaptive Logic electronics	Improves productivity by ensuring good decode on both damaged and poorly printed symbols
Hands-free operation with Intellistand	Presentation scanning optimizes user's comfort and increases throughput
2-D PDF417 capable	Versatile decode capability enables adoption of PDF applications such as age verification and customer loyalty programs
Ease of host connectivity	Ease of system integration is provided with 4 versions: LS 4004i - RS-232 LS 4005i - IBM 468x/9x LS 4006i - Keyboard Wedge LS 4007i - USB In addition, each version incorporates Synapse interface technology to adapt to almost any host
 UNIVERSAL SERIAL BUS	
Rugged construction	Stands up to everyday abuse such as accidental drops and bumps in a wide variety of user environments from point-of-sale to back room
Cordless operation	LS 407X cordless version enables tether-free operation increasing productivity and reducing cable maintenance costs

For superior bar code scanning performance with maximum user comfort at a highly attractive price, the LS 4000i Scanner Series from Symbol Technologies establishes an award-winning standard of excellence that's backed by a 5 Year Plus warranty.

## More Innovation for More Performance

The LS 4000i Series is the result of Symbol's experience in the design of innovative, high-performance scanning solutions. The LS 4000i incorporates a 650 nm laser that provides a bright scan line ensuring easy aiming even in high ambient light conditions. Combine this with a robust working range of contact out to more than 16 in. (40 cm) on 100% UPC codes and bar code data capture is a snap. Plus built-in Adaptive Logic Signal Processing decodes poorly printed and damaged bar codes.

System integration is facilitated with Advanced Data Formatting (ADF), a Symbol innovation that enables the bar code data string to be modified before sending it on to the host computer. This enhances compatibility between bar coded data and the applications software by allowing the scanner to be programmed rather than modifying the host application – which could be costly.

Symbol's onboard interfaces: USB, RS-232C, IBM468x/9x, Keyboard Wedge, and the exclusive Synapse "Smart" technology simplify connection to virtually every host. In addition, Flash programming facilitates custom settings on specific applications enabling future upgrades and increasing the value and life of the scanner.

## Award-Winning Ergonomics

Symbol knows that ergonomics are just as important as scanner performance. The LS 4000i Series not only feels different, it looks different. You'll see at a glance that Symbol designed it to be rugged while adding features to enhance operability.

To maximize user comfort, the LS 4000i Series features a lightweight design with the handle optimized to fit comfortably into hands of all sizes. Reduced finger fatigue, even over extended periods of use, is achieved with a patented two-finger trigger. An overmolded rubber "chin" and "foot" on LS 4000i scanners achieves dual functionality of absorbing shock and raising the scanner off the counter for easy pickup and placement. Plus, a removable rubber cable boot guards the bottom of the scanner's handle providing superior cable and strain relief.



Faster throughput at point-of-sale improves productivity and enhances customer satisfaction.



The LS 4071 cordless scanner is ideal for scanning items too heavy or bulky to place on the checkstand.



Adjustable IntelliStand provides maximum flexibility at point-of-sale.

### Designed and Built for Maximum Reliability

With an installed base of millions of scanners, Symbol stands by its LS 4000i Series with a 5 Year Plus warranty. The Plus includes a limited lifetime warranty on the patented Mylar scan element\*, which eliminates engine wear with near frictionless motion.

Scanners in the LS 4000i Series are designed to stand up to everyday abuse such as accidental drops to the floor, impacts against counters, and the fluctuations of backroom temperatures. During the development of the LS 4000i, the product was subjected to a wide variety of demanding tests simulating everyday abuse with aggressive shock, vibration, temperature and tumble tests. Symbol's engineers have pushed this product beyond its design limits to identify and reinforce potential areas of concern. This ensures long-lasting use of the LS 4000i in a wide variety of applications from point-of-sale to back room.

### The Mark of a Top Performer – Application Versatility

The Symbol LS 4000i Series are the scanners of choice for a wide variety of retail and commercial applications, from small neighborhood businesses to major retailers and corporations.

They are ideal for **Point-of-Sale** scanning, price markdowns and verification, and in-store inventory management in retail segments such as mass merchandise, specialty retail, department stores, warehouse clubs and grocery stores.

In **Warehouse and Manufacturing** applications LS 4000i scanners improve productivity and accuracy in shipping and receiving, performing applications such as inventory management, assembly line processes and document tracking.

LS 4000i scanners can be used anywhere where efficiency needs to be improved. For example, in **Healthcare** for patient information tracking, medical inventory management and also for **Office** use with staff time and attendance.

### Accessories and More

Symbol's IntelliStand for "hands-free" presentation scanning maximizes user comfort and productivity. The stand's height as well as scan angle are adjustable. Placing the scanner in the IntelliStand turns it on; there is no need to trigger the scanner for operation. A Multi-Mount Holder is available for countertop or wall-mount use. Easily installed, the wall-mount version adapts to suit a variety of workplace needs.



Counter Holder



IntelliStand



The LS 4071 in its cradle/base station

LS 407X Scanning Systems, comprising an LS 4071 cordless scanner, base station, cable and power supply, broaden the LS 4000i product line by enabling mobility and flexibility without cable restrictions. With the ability to freely move around the workplace, lifting heavy or bulky items is virtually eliminated making the workplace more convenient for both customers and workers.

To find out how your workforce can be more productive using LS 4000i Series scanners, visit us at [www.symbol.com/barcode](http://www.symbol.com/barcode) or call any of the locations listed on the back page of this brochure.

# LS 4000i Series Accessories and Specification Highlights

## Physical Characteristics

Dimensions:	6.3 in. H x 5 in. L x 2.8 in. W (16 cm H x 12.7 cm L x 7.1 cm W)
Weight:	Approximately 6 oz. (170 gm)
Cable Support:	Removable rubber cable boot for superior cable and strain relief
Mounting Options:	Adjustable IntelliStand with user adjustable height: 5-10 in. (12.7-25.4 cm) and angle: 0-90° Desktop & wall-mount holders

## Performance Characteristics

Light Source:	650 nm laser diode
Roll (Skew):	± 25°
Pitch:	± 55°
Yaw:	± 55°
Print Contrast:	1-D: 25% minimum reflectance 2-D (PDF): 35% minimum reflectance differential
Decode Capability:	1-D: UPC/EAN and with supplementals, Code 39, Code 39 Full ASCII, Tri-optic Code 39, Code 93, Codabar, Interleaved 2 of 5, Code 128, UCC/EAN 128, Discrete 2 of 5, MSI/Plessey, Bookland EAN 2-D: PDF417
Interfaces:	LS 4004i: RS-232C (Standard, Nixdorf, ICL, Omron & Fujitsu) LS 4005i: IBM 468x/469x LS 4006i: Keyboard Wedge LS 4007i: USB (Standard, IBM SurePOS, Macintosh) LS 4074: RS-232C on the Base Station LS 4075: IBM 468x/469x on the Base Station In addition, Synapse Adaptive Connectivity allows for connectivity to all of the above plus Laser/Wand Emulation, OCR, & OCIA
Durability:	Withstands multiple 4-ft./1.2-m drops to concrete

## User Environment

Operating Temperature:	32° to 104° F (0 to 40° C)
Storage Temperature:	-40° to 140° F (-40 to 60° C)
Humidity:	5% to 95%, noncondensing
Ambient Light:	Immune to normal artificial indoor and natural outdoor (direct sunlight) lighting conditions
Electrical Requirements:	IBM 46xx, RS-232C, and Keyboard Wedge: 4.8-14 VDC @ 180-200 mA. (nominal 5V) USB: 4.625-5.25 VDC @ 200 mA. (nominal 5V)

## Input Transient Protection:

IEC1000-4- (2, 3, 4, 5, 6, 11)

## Regulatory

Electrical Safety:	Certified to UL1950, CSA C22.2 No. 950, EN60950/IEC950
Laser Safety:	CDRH Class II, IEC Class 2
EMI/RFI:	FCC Part 15 Class A, ICES-003 Class A, European Union EMC Directive, Australian SMA

Visit [www.symbol.com/barcode](http://www.symbol.com/barcode) for LS 4071 specifications

Specifications are subject to change without notice.

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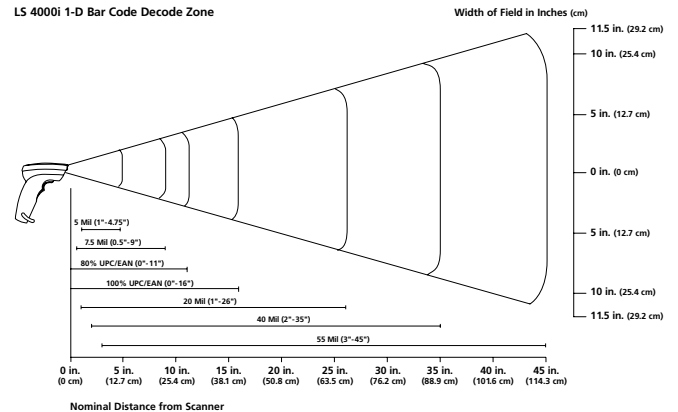
Part No. GJ Printed in USA 4/01 ©2001 Symbol Technologies, Inc.  
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## Warranty

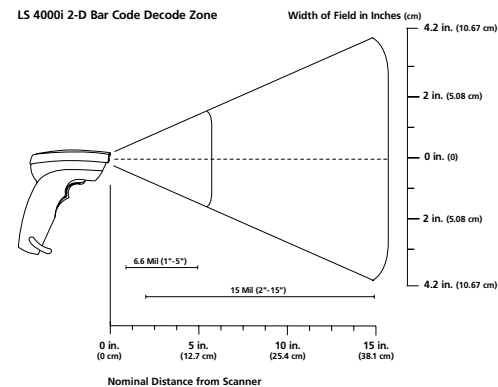
Symbol's LS 4000i Scanner Series is warranted against defects in workmanship and materials for a period of 60 months from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions. The Mylar® scan element is covered by Symbol's limited lifetime warranty. The Mylar scan element consists of a Mylar strip, frame, mirror assembly and magnet. See the complete warranty for details.



LS 4000i 1-D Bar Code Decode Zone



LS 4000i 2-D Bar Code Decode Zone



\*The Mylar scan element consists of a Mylar strip, frame, mirror assembly and magnet. The entire unit carries Symbol's standard warranty. All Symbol warranties apply to the original owner and do not cover repair due to misuse or physical abuse. Standard warranty and warranty service information are described on the warranty card enclosed with each product or can be obtained directly from Symbol.

Mylar is a registered trademark of the DuPont Company.



For system, product or services availability and specific information within your country, please contact your local Symbol Technologies office or Business Partner.

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## About BarcodesInc

### Who We Are

BarcodesInc is North America's leading provider of barcode and mobile computing solutions. We are a leading provider of barcode and mobile computing solutions. We are a leading provider of barcode and mobile computing solutions.

### We Owe Our Success To You

Our success is due to the support and partnership of our customers. We are a leading provider of barcode and mobile computing solutions. We are a leading provider of barcode and mobile computing solutions.

## Why Choose BarcodesInc?

### Dedicated Account A UbU Yf

Our Account Managers will not compromise when it comes to providing you top-notch service. Your Account Manager is the primary point of contact for your business and makes it a priority to get to know you, your company and all your needs.

### Highly-Trained Technical Support

Our technical staff has the broadest knowledge and every significant certification in the industry. One of our friendly experts is always available to suggest products and solutions for any situation.

### Incredible Value

Our purchasing power means big savings for you. Whatever your project, our team will work hard to deliver a solution that fits your budget.

### Largest Inventory in the Industry and Same-Day Shipping

Whatever your barcoding, mobile computing, or printing needs, we will fill your order and ship it the same day.

### Premier Access to Top Manufacturers

BarcodesInc maintains strong strategic partnerships with the leading manufacturers in barcoding, mobile computing, printing and RFID.

### Responsive Customer Service

Every phone call and email is responded to promptly, completely and accurately by our customer service team.

### Easy Returns

Damaged, defective or incorrectly ordered goods may be returned without hassle.

## BRANDS



AND MORE