



# LS 3200ER Extended-Range Scanner Series



### From 4 Inches to 35 Feet, the Focus is on Best-of-Class Performance

In warehousing, transportation and other industrial applications... when a scanner has to be rugged yet versatile in order to read a broad range of symbol densities – both close up and at long range... in temperature extremes or rigorous conditions... the scanner to choose is Symbol Technologies' LS 3200ER Extended-Range Scanner.

The LS 3200ER reads bar codes as far away as 35 feet (10 m) or more, and as close as 4 inches (10 cm) – giving it the greatest range of any scanner on the market today.

### One Scanner that Does the Work of Many

Because the LS 3200ER reads all symbol densities over the broadest



range, it's able to perform multiple tasks in the same location. For receiving and put-away, it reads UPC product codes; it also reads 20 to 40 mil case codes from close up to several feet away. For picking and shipping, it reads 70 to 100 mil retroreflective symbols on distant storage locations or shelf edges.



Symbol offers the LS 3200ER in two models to meet your application needs: an undecoded version (model LS 3200ER) for use with a portable terminal with decode capability; and, a multi-interface decoded version (model LS 3203ER) providing both wand emulation and RS-232C connectivity. The LS 3203ER model can also use Symbol's exclusive Synapse™ "smart cables" for connection to many different hosts without a separate interface controller.

What's more, this series of extended range scanners is not only flexible, it's rugged, making it ideal for fixed station, portable terminal and fork lift duty.

### Tough Yet Easy

Like all members of Symbol's LS 3000 family of hand-held scanners, the LS 3200ER combines aggressive scanning performance, toughness and durability, and ease of operation. It withstands repeated six-foot (1.8 m) drops to concrete, yet it's light weight

and ergonomic design assure user comfort.

A key source of the reliability inherent in the LS 3200ER is Symbol's patented Mylar® scan element – a technological innovation that represents a major improvement over conventional scanner motors. The frictionless Mylar scan element makes these scanners remarkably long-lasting because it completely eliminates engine wear. It also provides another benefit – lower power usage because no energy is expended overcoming friction. Symbol has so much confidence in the LS 3200ER that we back it with a limited lifetime warranty on the scan element... a Symbol exclusive.\*



**More Features ... More Benefits**  
Loaded with performance-oriented features, the LS 3200ER offers benefits you won't find in any other all-range scanner:

- Enhanced optics offer superior performance over all ranges.
- Intuitive "aim and shoot" operation automatically adjusts for symbol size and distance from the scanner.
- Synapse "smart cables" eliminate the need for a separate interface controller, making the LS 3200ER easy to install, maintain and use.
- Rubber bumper improves sealing against windblown rain and prevents the scanner from sliding off countertops.

*continued on back page*

· Ultrasonically welded window and sealed housing ensure that the LS 3200ER will resist the intrusion of dust and dirt.

· Operation in temperature extremes of -22° to 122°F (-30° to 50°C) allows the LS 3200ER to be used in harsh environments.

### Another Symbol of Leadership

The LS 3200ER Extended-Range Scanner: viewed from any distance, it's another best-of-class product from Symbol Technologies, the world leader in bar code-driven data management systems, with more than 6 million scanners and terminals installed.

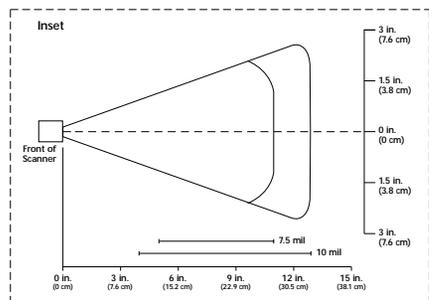
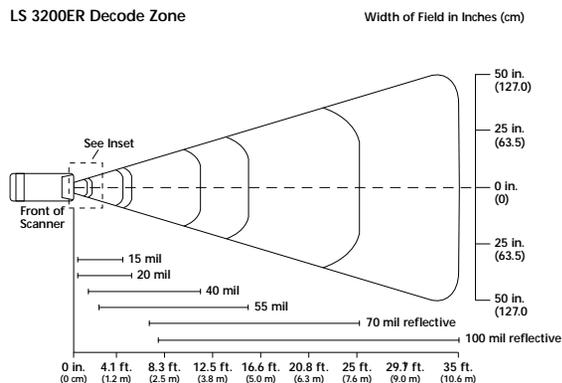
\* The Mylar scan element consists of a Mylar strip, frame, mirror assembly and magnet. The entire unit carries Symbol's standard warranty. All Symbol warranties apply to the original owner and do not cover repair due to misuse or physical abuse. Standard warranty and warranty service information are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

## LS 3200ER Extended-Range Specification Highlights

Performance Characteristics	
Light Source:	675 nm laser diode
Scan Rate:	36 (±3) scan/sec. (bidirectional)
Yaw:	± 45° from normal
Roll (Skew):	± 10° from normal
Pitch:	± 45° from normal
Print Contrast:	50% minimum reflectance
Decode Capability:	(Decoded Version) UPC/EAN, UPC/EAN with supplementals, Code 39, Code 39 Full ASCII, Code 128, EAN 128, Codabar, Interleaved 2 of 5, Discrete 2 of 5, MSI/Plessey
Interface Type:	(Decoded Version) Wand Emulation, RS-232-C, PC and terminal keyboard wedges, OCR, Dual RS-232-C, IBM 468X/469X, OCIA, Bi-directional OCIA
Electrical:	Complies with UL, CSA and VDE; conforms to FCC Class A and Class B limits; conforms to CISPER Class A
Voltage:	4.8 to 14 VDC
Current:	110 mA undecoded; 150 mA decoded
Laser Class:	CDRH Class II, IEC 825 Class 2
Weight:	8.5 oz. (240 gm) without cable
Color:	Dark grey

User Environment	
Ambient Light Immunity:	Incandescent light: 350' candles/3766 LUX Fluorescent light: 450' candles/4842 LUX Sodium vapor light: 350' candles/3766 LUX Mercury vapor light: 450' candles/4842 LUX
Operating Temperature:	-22° to 122°F (-30° to 50°C)
Storage Temperature:	-40° to 140°F (-40° to 60°C)
Humidity:	5% to 95% (noncondensing)
Durability:	Multiple 6 ft. (1.8 m) drops to concrete
Environmental:	Sealed against windblown dust and rain

Specifications are subject to change without notice. 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.



**Corporate Headquarters**  
Symbol Technologies, Inc.  
One Symbol Plaza, Holtsville, NY 11742-1300  
TEL: 1-800-722-6234/1-516-738-2400  
FAX: 1-516-738-5990

**For Canada**  
Symbol Technologies Canada, Inc.  
2540 Matheson Boulevard East  
Mississauga, Ontario, Canada L4W 4Z2  
TEL: 1-905-629-7226/FAX: 1-905-629-9765

**International Headquarters**  
Symbol Technologies International  
Symbol Place  
Winnersh Triangle  
Berkshire, England RG41 5TP  
TEL: 44-118-945 7000/FAX: 44-118-945 7500

**For Europe & the Middle East**  
Symbol Technologies International  
Symbol Place  
Winnersh Triangle  
Berkshire, England RG41 5TP  
TEL: 44-118-945 7000/FAX: 44-118-945 7500

**Asia Pacific Division**  
Symbol Technologies Asia, Inc.  
230 Victoria Street  
#04-05 Bugis Junction Office Tower  
Singapore 188024  
TEL: 65-337-6588/FAX: 65-337-6488

**For Latin America**  
Symbol Technologies  
7900 Glades Road  
Suite 340  
Boca Raton, FL 33434  
TEL: 1-800-347-0178/1-407-438-1275  
FAX: 1-407-483-3922

**For Africa**  
Symbol Technologies Africa, Inc.  
Block B2  
Rutherford Estate, 1 Scott Street  
Waverley 209, Republic of South Africa  
TEL: 27-11-4405668/FAX: 27-11-4406191

**Symbol World Wide Web Internet Site**  
For a complete list of Symbol subsidiaries and Business Partners worldwide contact us at:  
<http://www.symbol.com>  
E-mail: [info@symbol.com](mailto:info@symbol.com)



BH 3/98

