



# SYMBOL LS3408-ER

## EXTENDED RANGE RUGGED SCANNER

### REDEFINING PERFORMANCE FOR MAXIMUM INDUSTRIAL MOBILITY

The rugged LS3408-ER handheld scanner delivers superior performance and versatility for your scan-intensive industrial applications. In the yard, warehouse, distribution center, manufacturing plant or retail store, the LS3408-ER handheld scanner offers best-in-class performance, excellent reliability and user-friendly ergonomics to create a more productive mobile environment. Multiple on-board interfaces ensure flexible plug and play host connectivity.

### ADVANCED DATA CAPTURE FEATURES FOR INDUSTRIAL-GRADE APPLICATIONS

The LS3408-ER offers an outstanding reading range, providing the flexibility to enable a wide range of industrial applications. Industry leading impact tests ensure reliable performance in spite of the inevitable accidental drops. The device is impervious to dust and water, and its exit window is scratch-resistant and recessed for the highest level of durability. As a result, you avoid unnecessary equipment downtime or expensive equipment replacement costs. For applications requiring quick access and convenient storage, the LS3408-ER features a built-in metal hook for attachment to a pulley. Two large LED-enhancing windows and an extra loud 80 decibel (db) beeper are strategically placed on the scanner for clear and audible feedback to users.

### THE SMARTEST WAY TO CAPTURE MISSION CRITICAL INFORMATION

The extended range LS3408-ER is designed specifically for industrial applications. When you choose the LS3408-ER, you receive the added assurance of purchasing from Zebra — a company with proven advanced data capture capabilities and millions of scanner installations worldwide.

For more information on how the LS3408-ER can benefit your business, please visit us on the web at [www.zebra.com/ls3408er](http://www.zebra.com/ls3408er) or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact).

### FEATURES

**Wide working range:**  
.25"/.64 cm to 45 ft./  
13.7 m

Improves user productivity

**Ergonomic, rugged industrial design withstands up to 50 drops to concrete from 6.5 ft. (2m) and 2,500 3 ft. (1m) tumbles (5,000 hits)**

Ensures maximum reliability with less down time due to accidental drops

**IP65 sealing rating ( electronic enclosure)**

Protects against water and dust to ensure reliable performance in rough conditions

**Bright 650nm laser aiming dot**

Delivers clearly visible line for more accurate scanning

**Dual-scan angle switches from standard to wide under software control**

Offers fast, accurate bar code reading on menus and pick lists

**Multiple on-board interfaces**

Ensures flexible connectivity, allowing for host "future proofing"

**Advanced data formatting (ADF)**

Eliminates costly modifications to the host software

**Flash memory**

## SPECIFICATIONS CHART

PHYSICAL CHARACTERISTICS		USER ENVIRONMENT	
Dimensions	7.34 in. H x 4.82 in. W x 2.93 in. D 18.65 cm H x 12.25 cm W x 7.43 cm D	Operating Temp.	-22° to 122° F/-30° to 50° C
Weight (w/o cable)	Weight (w/o cable) 12.56 oz./356 g	Storage temperature	-40° to 158°F (-40° to 70°C)
Power Requirements	4.5 - 14 VDC	Humidity	5% to 95% relative humidity, noncondensing
Stand-by Current	50 mA	Sealing	Sealed to IP65 specifications
		Drop specifications	Unit functions normally after 50 drops to

<b>Power Sources</b>	Depending on host: • Host power • External power supply	concrete from 6.5 ft. (2m)	Facilitates updates and customization of product in the field
<b>Color</b>	Twilight Black/Yellow	<b>Ambient lighting tolerance</b>	Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED4: 450 Ft Candles (4,844 Lux) Sunlight: 8000 Ft Candles (43,040 Lux)
<b>PERFORMANCE CHARACTERISTICS</b>			
<b>Scanner type</b>	Retrocollective	<b>Electrostatic discharge</b>	Conforms to 20 kV air discharge and 8 kV of contact discharge
<b>Light source</b>	650 nm visible laser diode		
<b>Scan repetition</b>	36 scans per second typical		
<b>Minimum element width</b>	7.5 mil (0.191 mm)		
<b>Nominal working distance</b>	See decode zone		
<b>Print contrast</b>	25% minimum reflective difference	<b>REGULATORY</b>	
<b>Roll (Tilt)<sup>1</sup></b>	+/- 10 degrees from normal	<b>Input transient protection</b>	IEC 1000-4-(2,3,4,5,6,11)
<b>Pitch<sup>2</sup></b>	+/- 65 degrees from normal	<b>EMI/RFI</b>	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Japan VCCI/MITI/Dentori
<b>Skew (Yaw)<sup>3</sup></b>	+/- 60 degrees from normal	<b>Laser safety</b>	IEC825-1 Class 2
<b>Decode capability</b>	UPC/EAN, UPC/EAN with Supplementals, GS1-128 (formerly UCC/EAN 128), JAN 8 & 13, Code 39, Code 39 Full ASCII, Code 39 Trioptic, Code 128, Code 128 Full ASCII, Codabar (NW7), Interleaved 2 of 5, Discrete 2 of 5, Code 93, MSI, Code 11, Code 32, Bookland EAN, IATA, GS1DataBar (formerly RSS)	<b>WARRANTY</b>	
<b>Interfaces supported</b>	RS232, Keyboard Wedge, Wand Emulation, Scanner Emulation, IBM 468X/469X, USB and Synapse	The LS3408-ER is warranted against defects in workmanship and materials for a period of 3 years (36 months) from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions. See full warranty for details.	
		<b>RECOMMENDED SERVICES</b>	
		<b>Support Services</b>	Service from the Start - Bronze

- 1- Roll (Tilt): Controlled by rotating the wrist clockwise or counterclockwise
- 2- Pitch: Controlled by dropping or raising the wrist
- 3- Skew (Yaw): Controlled by rotating the wrist from left to right or vice versa
- 4- LED lighting with high AC ripple content can impact scanning performance

#### DEPTH OF FIELD

LABEL DENSITY	LS3408-ER	
Paper Label	English	Metric
Code 39 – 7.5 mil	0.25" – 20.00"	0.64 – 50.80 cm
Code 39 – 10 mil	2.00" – 32.00"	5.08 – 81.28 cm
Code 39 – 15 mil	3.00" – 69.00"	7.62 – 175.26 cm
Code 39 – 20 mil	3.00" – 94.00"	7.62 – 238.76 cm
Code 39 – 55 mil	15.00" – 180.00"	38.10 – 457.20 cm

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**REFLECTIVE LABEL**

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Code 39 – 70 mil	Up to 30 ft.	Up to 9.27 m
Code 39 – 100 mil	Up to 45 ft.	Up to 13.72 m

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For more detailed information, please see the Product Reference Guide in the Resource tab at [www.zebra.com/Is3408er](http://www.zebra.com/Is3408er)

**EN410** **CE**



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