

## PRODUCT SPEC SHEET

Zebra LS4208



# Zebra LS4208

## Handheld scanner

### Increase performance with Zebra's next-generation scanner for customers who value productivity

With the LS4208 handheld laser bar code scanner, you're able to effortlessly speed throughput, even with bar codes in poor condition. Wherever you need to quickly capture and process data — such as at the retail checkout counter, and in light warehouse environments — this ergonomically designed scanner helps you increase accuracy, improve productivity, cut maintenance costs and reduce the risk of downtime.

### Benefit from innovative features never before delivered by a single scanner

The LS4208 delivers intuitive, productivity enhancing functionality that allows even your novice users to quickly capture data. Its innovative multi-line rastering scan pattern virtually eliminates the need for end-user training, and lets you scan all types of one-dimensional (1D) bar codes, including damaged symbols or stacked GS1 DataBar bar codes. The PDF configuration expands the decoding capabilities to include PDF417, microPDF and composite symbologies. In addition, the scanner's 19-inch scanning range and superior motion tolerance gives users greater flexibility to rapidly and accurately capture data from a variety of items without pausing between scans, while recently added faster scanning and decoding capabilities mean employees are able to process more items more rapidly and spend less time keying in data.

### Minimize your chances of downtime

Designed for constant, rigorous use in retail, office and light industrial settings, the LS4208 provides you with reliability you'll be able to depend on. Along with a 6 ft. drop spec that allows the scanner to keep on running even after dropped repeatedly to concrete, the LS4208 also offers single circuit-board construction. By eliminating the failure points commonly found with interconnect ribbon cables, this unique design feature helps to lower your total cost of ownership.

### Future-proof your investment

The LS4208 provides you with next generation technology today and the adaptability to meet your needs in the future. The scanner's multi-interface and universal cables enable connection to a variety of hosts, allowing you to easily update your systems. In addition, since the LS4208 is designed for the newest and emerging 1D symbologies such as GS1 DataBar bar codes, as well as PDF and other variants (PR configuration), you'll be able to continue using the same device for all your scanning requirements, even though your requirements may change.

### Protect your investment with comprehensive services and support

Even the most durable scanners require a support plan. That's why Zebra's Services cover every aspect of your LS4208 — to ensure all of your support needs are met.

Zebra's Service from the Start Advance Exchange Support provides next-business-day delivery of a replacement device for true service peace of mind. This offer also includes our unique Comprehensive Coverage, which extends normal wear and tear to cover accidental damage to exit windows, scan elements and more at no extra charge — virtually eliminating your unforeseen repair expenses.

For more information about the LS4208, visit [www.zebra.com/ls4208](http://www.zebra.com/ls4208) or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

## FEATURES

### 1D, PDF and composite code scanning

Available in both 1D only (SR) and PDF/Composite (PR) configurations to support a wide range of productivity-enhancing applications

### Multi-line rastering scan pattern

Improves productivity by reducing the need to rescan bar codes or key in data, resulting in shorter lines at the retail point of sale

### Superior motion tolerance

Enables end users to quickly move from one bar code to the next without hesitation

### Wide working range

Reads good quality as well as poor quality codes at similar ranges, reducing the need for the user to move the scanner back and forth

# LS4208 Specifications

| PHYSICAL CHARACTERISTICS    |  |
|-----------------------------|--|
| <b>Dimensions:</b>          | 6.7 in. H x 3.7 in. L x 2.7 in. W<br>17 cm H x 9.3 cm L x 6.8 cm W |
| <b>Weight:</b>              | Approximately 6.4 oz. (181 g)                                      |
| <b>Voltage and current:</b> | 5 +/-10%VDC @ 140 mA<br>(Stand by: <35 mA)                         |
| <b>Color:</b>               | Cash Register White or Twilight Black                              |

| PERFORMANCE CHARACTERISTICS        |  |
|------------------------------------|--|
| <b>Light source:</b>               | 650 nm laser diode   |
| <b>Motor frequency:</b>            | 50Hz   |
| <b>Decode rate:</b>                | 200 decodes per second   |
| <b>Roll:<sup>1</sup></b>           | ± 35°  |
| <b>Pitch:<sup>2</sup></b>          | ± 60°  |
| <b>Yaw:<sup>3</sup></b>            | ± 60°  |
| <b>Print contrast:</b>             | 25% minimum reflectance  |
| <b>Nominal working range:</b>      | See chart below  |
| <b>Multi-line aiming coverage:</b> | At 5 in. distance: approx. 0.5 in. (1.3 cm)<br>At 10 in. distance: approx. 1 in. (2.5 cm)  |
| <b>Motion tolerances:</b>          | Horizontal velocity: 200 in.<br>(508 cm)/second<br>Vertical velocity: 200 in.<br>(508 cm)/second<br>Angular velocity: 200 in.<br>(508 cm)/second   |
| <b>Decode capability:</b>          | UPC/EAN and with supplementals, Code 39, Code 39 Full ASCII, Tri-optic Code 39, GS1 DataBar Variants, UCC/EAN 128, Code 128, Code 128 Full ASCII, Code 93, Codabar (NW1), Interleaved 2 of 5, Discrete 2 of 5 MSI, Codell, IATA, Bookland EAN, Code 32   |
| <b>Interfaces supported:</b>       | On-board multiple interface with: RS-232C (Standard, Nixdorf, ICL, & Fujitsu); IBM 468x/469x; Keyboard Wedge; USB (Standard, IBM SurePOS, Macintosh); Laser/Wand Emulation. In addition, Synapse Adaptive Connectivity allows for connectivity to all of the above plus many non-standard interfaces |

| USER ENVIRONMENT                   |  |
|------------------------------------|--|
| <b>Operating temp.:</b>            | 32° to 122° F (0° to 50° C)  |
| <b>Storage temp.:</b>              | -40° to 158° F (-40° to 70° C)   |
| <b>Humidity:</b>                   | 5% to 95% (non-condensing)   |
| <b>Drop specs:</b>                 | Withstands repeated 6 ft. (1.8m) drops to concrete   |
| <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 (86,111 Lux) |
| <b>EAS support:</b>                | Optional Checkpoint EAS  |

| REGULATORY                |   |
|---------------------------|---|
| <b>Electrical safety:</b> | UL1950, CSA C22.2 No. 950, EN60950/IEC950   |
| <b>Laser safety:</b>      | CDRH Class II, IEC Class 2  |
| <b>EMI/RFI</b>            | FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Australian SMA |

| ACCESSORIES              |   |
|--------------------------|---|
| <b>Mounting options:</b> | Intellistand with adjustable height of 5 – 10 in. (12.7 – 25.4 cm) and adjustable angle (0° – 90°); Desktop and wall-mount holders also available |
| <b>Power supplies:</b>   | Power supplies available for applications that don't supply power over the host cable   |

**WARRANTY**  
Subject to the terms of Zebra's hardware warranty statement, the LS4208 handheld scanner products are warranted against defects in workmanship and materials for a period of five years from the date of shipment. The Liquid Polymer Scan Element includes a limited lifetime warranty. For the complete Zebra hardware product warranty statement, go to <http://www.zebra.com/warranty>

**SERVICES AND SUPPORT**  
Service from the Start Advance Exchange Support  
**NOTICE:** Repairs of this product may require the use of Zebra proprietary parts (and/or Zebra proprietary information). Zebra will sell these parts (and provide this proprietary information) only to end-user customers for self-service. It is Zebra's policy not to sell these parts to third-party service providers and not to allow a third-party service provider to act as an ordering or receiving agent for the parts necessary to repair this product. Applicable in the U.S. For all other countries, please contact your Zebra account manager or the local Zebra Customer Service representative in your area for further details.

- 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          | LS4208      |                 |
| Paper Label            | English     | Metric          |
| Code 39 - 5 mil        | 1.5 - 5.5"  | 3.81 - 13.97 cm |
| Code 39 - 10 mil       | 0.0 - 14"   | 0.00 - 35.56 cm |
| 100% UPC /EAN - 13 mil | 0.0 - 19.0" | 0.00 - 48.25 cm |
| Code 39 - 20 mil       | 0.0 - 29.0" | 0.00 - 73.66 cm |

## Checkpoint Electronic Article Surveillance (EAS)

Offers dual functionality to improve return on investment and save critical counter space

**Durable construction and patented, single circuitboard design able to withstand multiple 6-ft (1.8 m) drops to concrete**

Lowers the total cost of ownership by protecting against downtime from accidental drops

**Plug-and-play setup, intuitive scanning**

Enables rapid deployment and immediate use without formal training, allowing new and experienced employees to immediately help improve operational efficiency

**Remote management-ready**  
Reduces total cost of ownership by enabling remote, network-based device management

**Optional hands-free Intellistand**  
Enables presentation scanning and automatic switching between handsfree and handheld modes

**GS1 DataBar bar code support**  
Supports the latest symbologies to future-proof your investment

LS4208 Handheld scanner

