



ANY BAR CODE. A NEW LEVEL OF PERFORMANCE. MORE VERSATILITY.

# SYMBOL DS4308

## SCAN ANY 1D OR 2D BAR CODE FARTHER AND FASTER WITH NEXT GENERATION SCANNING TECHNOLOGY.

The DS4308 is a feature-rich next generation 2D imager that resets the bar for scanning performance, scanning range, versatility and ease-of-use. Workers can capture virtually any bar code faster than ever, whether it is displayed on a smartphone, tablet or computer or printed on a label — even if it is scratched, damaged or dirty. Its small and lightweight design offers the ergonomics your workers need for all day comfort in the most scan intensive jobs. A variety of models meet a wide range of business needs — from the Point-of-Sale in a retail store to the light industrial manufacturing production line. Regardless of which model you choose, you get one powerful scanner that does the job of two. The Standard Range (SR) model offers an extraordinary range, eliminating the need to purchase separate standard and extended range scanners. The High Density (HD) model scans standard bar codes as well as the tiny, dense barcodes commonly found on jewelry tags, consumer electronics and electronic components — eliminating the need to purchase separate standard and high density specialty scanners. And driver's license parsing can be added to either model. The result? An extraordinary feature set and an extraordinary value.



### **PRZM Intelligent Imaging technology for next generation performance**

Resets the bar for 2D imaging by improving decode performance and snappiness, dramatically improving the user experience, user productivity, throughput and wait times.

### **Scan any bar code on any medium**

Scans 1D, 2D and PDF417 bar codes printed on paper labels or displayed on mobile devices or computer screens.

### **Megapixel sensor for maximum data capture flexibility**

Delivers the resolution required for longer-distance scanning, clear photos, sharp signatures and more accurate OCR data.

### **Largest "sweet spot" for can't-miss point-and-shoot scanning simplicity**

With a decode range that allows users to scan any bar code type at any density nearer and farther than any other scanners in its class, scanning is truly second nature — users just point and shoot.

### **Omni-directional scanning**

Enables true point-and-shoot scanning simplicity by eliminating the need to align bar code and scanner.

### **Durable design for superior uptime**

Built to survive a 6 ft./1.83 m drop to concrete, the DS4308 delivers reliable operation, despite the inevitable everyday drops.

### **Adjustable beeper volume and frequency tone**

You get the flexibility to adjust beeper characteristics for your environment — from a quiet boutique store to a noisy light industrial manufacturing production line.

### **Superior out-of-box experience**

Smart auto-host detect cables automatically determine which interface is attached, eliminating the need to scan numerous configuration bar codes. Over 90 international keyboards are hosted within the scanner for easy setup, all around the world.

### **Unsurpassed aiming technology**

Crisp and bright aiming dot has the reach and brightness needed for long distance scanning - as well as picklist mode.

### **Easy on the eyes**

Thanks to a special LED wavelength and recessed lighting, when a bar code is scanned, the light that is emitted is soft and unobtrusive, preventing eye fatigue and improving the environment for customers and workers.

### **Complimentary tools simplify and reduce the cost of everyday management**

123Scan<sup>2</sup> and Scanner Management Service (SMS) work hand-in-hand to reduce management time and cost by automating initial configuration and enabling remote management of your DS4308 scanners.

## GET NEXT GENERATION BAR CODE CAPTURE IN YOUR ENTERPRISE WITH THE DS4308.

For more information, visit [www.motorolasolutions.com/ds4308](http://www.motorolasolutions.com/ds4308) or access our global contact directory at [www.motorolasolutions.com/contactus](http://www.motorolasolutions.com/contactus)

# SPECIFICATIONS CHART

## PHYSICAL CHARACTERISTICS

|                      |   |
|----------------------|---|
| Dimensions           | 6.48 in. H x 3.86 in. L x 2.64 in. W<br>16.5 cm H x 9.8 cm L x 6.7 cm W)  |
| Weight (w/o cable)   | 5.71 oz. / 162 g  |
| Power                | 5 VDC ± 10% @ 360 mA (RMS typical)  |
| Interfaces Supported | USB, RS232, Keyboard Wedge, RS485 (IBM 46xx), SSI<br><u>The scanner supports the following protocols over USB:</u> HID Keyboard (default mode), SNAPI, IBM SurePOS (Yellowstone) (IBM Handheld, IBM Tabletop, OPOS), USB CDC, SSI over USB CDC, Toshiba TEC<br><u>The scanner supports the following protocols over RS232:</u> Standard, Wincor Nixdorf, ICL, Fujitsu, Olivetti, Omron and CUTE |

## PERFORMANCE CHARACTERISTICS

|                      |   |
|----------------------|---|
| Light Source         | Aiming pattern: 617 nm LED<br>Illumination: 660 nm LEDs |
| Imager Field of View | 36° (H) x 22.5° (V)                                     |
| Roll                 | 0 - 360°  |
| Pitch                | ± 65° or greater  |
| Yaw                  | ± 60° or greater  |
| Print Contrast       | 20% minimum reflective difference                       |
| Motion Tolerances    | Up to 30 in. / 76.2 cm per second                       |

## SYMBOLGY DECODE CAPABILITY

|                    |  |
|--------------------|--|
| 1D                 | UPC/EAN, UPC/EAN with supplementals, Bookland EAN, ISSN, UCC Coupon Extended Code, Code 128, GS1-128, ISBT 128, Code 39, Code 39 Full ASCII, Trioptic Code 39, Code 32, Code 93, Code 11, Matrix 2 of 5, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI, Chinese 2 of 5, GS1 DataBar variants, Korean 3 of 5, ISBT Concat |
| 2D                 | PDF417, MicroPDF417, Composite Codes, TLC-39, Data Matrix, Maxicode, QR Code, MicroQR, Aztec, Han Xin  |
| Postal             | Australian Post, US PLANET, Royal Mail 4 State Customer, US POSTNET, KIX Code (Dutch), UK Postal, Japan Post, UPU 4 State Postal FICS (Post US4), USPS 4 State Postal (Post US3), Canadian Post (Postbar)  |
| Minimum Resolution | SR: Code 39 4 mil, UPC 60% 7.8 mil, PDF417 5 mil, Datamatrix 7.5 mil<br>HD: Code 39 3 mil, UPC 60% 7.8 mil, PDF417 4 mil, Datamatrix 5 mil   |

## USER ENVIRONMENT

|                        |  |
|------------------------|--|
| Operating Temp.        | 32° F to 122° F/0° C to 50° C  |
| Storage Temp.          | -40° F to 158° F/-40° C to 70° C   |
| Humidity               | 5% to 95%, non-condensing  |
| Drop Specification     | Withstands multiple 6 ft./1.83 m drops to concrete                                   |
| Ambient Light Immunity | Immune to normal indoor lighting up to 1600 Lux; immune to sunlight up to 86,000 Lux |

## ACCESSORIES

|                    |  |
|--------------------|--|
| Hands-Free Options | Gooseneck Intellistand   |
| Power Supplies     | Power supplies are available for applications that do not supply power over the host cable |

## REGULATORY

|                   |  |
|-------------------|--|
| Electrical Safety | UL60950-1 2nd ed, CSA C22.2 No. 60950-1 2nd ed, EN60950-1/IEC60950-1 2nd ed.                               |
| LED Safety        | IEC 62471:2006 and EN 62471:2008   |
| EMI/RFI           | FCC Part 15 Class B, ICES-003 Class B, EN55022 Class B, EN55024, Medical Electrical Equipment: EN60601-1-2 |
| Environmental     | Compliant with RoHS directive 2011/65/EU   |

## WARRANTY

Subject to the terms of Motorola's hardware warranty statement, the DS4308 is warranted against defects in workmanship and materials for a period of 5 years from the date of shipment. For the complete Motorola hardware product warranty statement, go to: <http://www.motorolasolutions.com/warranty>

## RECOMMENDED SERVICES

Enjoy easy access to fast repair and expert support with Service from the Start; add "next business day" replacement with Advanced Exchange.

## DECODE RANGES

| SR FOCUS RANGE |                | TYPICAL WORKING RANGES |                     |
|----------------|----------------|------------------------|---------------------|
| Bar Code Type  | Symbol Density | Near                   | Far                 |
| Code 39        | 3.0 mil        | 1.5 in. / 3.8 cm       | 5.4 in. / 13.7 cm   |
| Code 39        | 5.0 mil        | 0 in. / 0 cm           | 11.0 in. / 27.9 cm  |
| PDF417         | 6.6 mil        | 1.1 in. / 2.8 cm       | 8.0 in. / 20.3 cm   |
| UPC            | 13.0 mil       | 0 in. / 0 cm           | 28.0 in. / 71.1 cm  |
| Data Matrix    | 10.0 mil       | 2.0 in. / 5.1 cm       | 9.0 in. / 22.9 cm   |
| Code 39        | 20.0 mil       | 0 in. / 0 cm           | 53.0 in. / 134.6 cm |
| QR             | 10.0 mil       | 1.1 in./2.8 cm         | 8.5 in./21.6 cm     |
| QR             | 20.0 mil       | 0.9 in./2.3 cm         | 16.2 in./41.1 cm    |

| HD FOCUS RANGE |                | TYPICAL WORKING RANGES |                   |
|----------------|----------------|------------------------|-------------------|
| Bar Code Type  | Symbol Density | Near                   | Far               |
| Code 128       | 3.0 mil        | 1.0 in / 2.5 cm        | 3.0 in / 7.6 cm   |
| Code 39        | 3.0 mil        | 0.5 in / 1.3 cm        | 5.8 in / 14.6 cm  |
| Code 39        | 5.0 mil        | 0.0 in / 0.0 cm        | 10.0 in / 25.4 cm |
| Micro PDF      | 4 mil          | 1.0 in / 2.5 cm        | 4.7 in / 11.9 cm  |
| PDF417         | 6.6 mil        | 0.2 in / 0.5 cm        | 7.8 in / 19.7 cm  |
| UPC            | 13 mil         | 0 in / 0 cm            | 16.5 in / 41.9 cm |
| DataMatrix     | 5 mil          | 1.2 in / 3.0 cm        | 3.5 in / 8.9 cm   |
| DataMatrix     | 7.5 mil        | 1.0 in / 2.5 cm        | 6.5 in / 16.5 cm  |
| DataMatrix     | 10.0 mil       | 0.8 in / 1.9 cm        | 8.2 in / 20.8 cm  |
| Code 39        | 20.0 mil       | 0 in / 0 cm            | 30.0 in / 76.2 cm |
| QR             | 10.0 mil       | 0 in / 0 cm            | 7.0 in / 17.8 cm  |
| QR             | 20.0 mil       | 0.5 in / 1.3 cm        | 11.0 in / 27.9 cm |

## THE DS4308 IS AT HOME IN...

### Retail

- Point-of-Sale (POS)
- Mobile loyalty
- Mobile coupons
- Driver's license parsing (DL model required)

### Hospitality

- Mobile loyalty
- Mobile coupons
- Event check-in

### Logistics

- Postal

### Light Manufacturing: Electronic Components

- Error proofing
- Quality control

## COMPLIMENTARY MANAGEMENT TOOLS

### 123Scan<sup>2</sup>

Programs scanner parameters, upgrades firmware, provides scanned bar code data and prints reports. [www.motorolasolutions.com/123Scan](http://www.motorolasolutions.com/123Scan)

### Scanner Management Service (SMS)

Remotely manages your Motorola scanner and queries its asset information. [www.motorolasolutions.com/sms](http://www.motorolasolutions.com/sms)

### Scanner SDK

Generates a fully-featured scanner application, including documentation, drivers, test utilities and sample source code. [www.motorolasolutions.com/windowsSDK](http://www.motorolasolutions.com/windowsSDK)



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