



## PROTECT PATIENT HEALTH WITH NEXT GENERATION BAR CODE SCANNING

# SYMBOL DS4308-HC

### IMPROVE PATIENT SAFETY AND INCREASE CAREGIVER PRODUCTIVITY WITH NEXT GENERATION SCANNING.

Bar code scanning at patient bedside is crucial in preventing medication and specimen mixups — two of the potentially deadliest errors in a hospital. But scanning bar codes in a hospital can be a challenge. There are many types of bar codes including traditional paper-based, those displayed on an electronic screen, codes printed on curved surfaces, high density codes printed on very small items and bar codes in all types of conditions — from smudged to scratched and poorly printed. Now, you can give your healthcare workers the ability to scan them all with the DS4308-HC. This feature-rich next generation 2D imager resets the bar for scanning performance, scanning range, versatility and ease-of-use. The result? The priceless peace of mind that the right patient received the right medication and the right test results, every time. The DS4308-HC — the ideal companion for laptops on workstation-on-wheels (WOWs) and other types of carts in your hospital.



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

Resets the bar for 2D imaging by improving decode performance and snappiness, ensuring the virtually instant capture of bar codes required in the mission critical world of healthcare.

#### **Megapixel sensor and advanced algorithms enable first time capture of any bar code, on any medium — in virtually any condition**

Give your healthcare workers true peace of mind with the ability to scan virtually any 1D, 2D or PDF417 bar code, as well as the many challenging bar codes in healthcare — including the tiny dense codes wrapped around the curved surface of a vial to bar codes that are stained or smudged.

#### **Largest “sweet spot” for can’t-miss point-and-shoot scanning simplicity**

A decode range allows healthcare workers to scan any bar code type at any density nearer and farther than any other scanners in its class, making scanning truly second nature. And with omni-directional scanning, healthcare workers never need to waste valuable time aligning bar code and scanner.

#### **Withstands constant disinfecting**

IP42 sealing and a specially designed disinfectant-ready plastic housing allow safe wipe-down with a wide variety of harsh chemicals to help prevent the spread of germs.

#### **Unsurpassed aiming technology**

The crisp and bright aiming dot has the reach and brightness needed to ensure the fast capture of data.

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

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

#### **Day and night ‘do-not-disturb’ modes**

Healthcare workers can choose to mix and match the decode feedback that is right for the moment: visual (green light/red light), haptic (vibration) and an audible tone.

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

The DS4308-HC is up and running almost instantly. 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.

#### **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 patients and healthcare workers.

**GIVE YOUR HEALTHCARE WORKERS THE POWER TO CAPTURE ANY BAR CODE, ON ANY MEDIUM, IN ANY CONDITION — AND MAKE YOUR HOSPITAL A SAFER PLACE.**

For more information, visit [www.motorolasolutions.com/ds4308hc](http://www.motorolasolutions.com/ds4308hc) 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 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 <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 <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 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 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-HC 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-HC IDEAL FOR...

- Medication administration
- Blood product administration
- Specimen tracking
- Medication tracking in the pharmacy and on the pharmacy cart
- Electronic healthcare record access
- Patient identification

## COMPLIMENTARY MANAGEMENT TOOLS

Simplify and reduce the cost of everyday management with our no-cost tools. 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-HC scanners.

### 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)