



# Symbol DS3400 Series



## FEATURES

### Ability to read both 1D and 2D bar codes

Increases productivity and lowers costs by providing one device that can be used to read all industry-standard bar codes

### Ability to capture high density bar codes (HD unit only)

Increases productivity by enabling users to read high density 2D matrix codes in addition to all industry-standard bar codes.

### Ability to read a wide variety of DPM marks (DPM unit only)

Enhances quality processes and improves lifetime product traceability

## Capture bar codes, images and direct part marks with laser-like precision

The Symbol DS3400 Series of rugged digital scanners uses digital imaging technology to accurately read a wide variety of one-dimensional (1D) and two-dimensional (2D) bar codes and direct part marks (DPM) while offering the high performance typically found only in laser scanners. For capturing images and bar codes, the DS3408-SF is ideal. If you also need to capture high density 2D matrix codes, choose the DS3408-HD. The DS3407-SF not only reads bar codes, it also captures and transfers images. For direct part marks, select the DS3407-DP.

## High performance that speeds productivity

With the Symbol DS3400 Series, you benefit from a scanning solution designed specifically for fast-paced production environments. The Symbol DS3400 Series comes equipped with charge-coupled device (CCD) image sensors, which allow them to more accurately capture and process bar codes at a faster pace than other digital scanners. In addition, the scanners' omni-directional scanning functionality lets operators quickly capture bar codes from any angle, eliminating the need to line up bar codes with laser lines. The Symbol DS3400 Series has the widest working range of any scanner in its class. Its two-position smart focus technology, unique to Motorola, allows you

to read bar codes regardless of the size or density of the code with the This means that this single device can work well for all your scanning needs.

## Ruggedized for industrial-grade applications

As innovative as it is rugged, the DS3400 Series delivers the ergonomic and operational features for scan-intensive industrial applications under the harshest operating conditions. During industry tumble tests, it continued to provide reliable performance even when subjected to multiple drops of 6.5 feet (2 meters) to concrete. An IP65-rated seal makes it 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.

## An investment for now and the future

In addition to the productivity-enhancing features you need to keep business moving, the DS3400 Series provides you with investment protection. Onboard support for multiple interfaces, a standard feature, allows you to use your scanner with many different types of systems for seamless integration now, as well as painless migration to new ones in the future. We back up our leading scanner design with a full three-year warranty. And to help protect your investment, Motorola Enterprise Mobility Services offers Service from

## SPECIFICATION SHEET

Symbol DS3400 Series

### Omni-directional scanning

Speeds reading time by eliminating the need to line up the bar code with the scan line

### Rugged and reliable design that includes a 6.5 ft. drop-to-concrete specification and IP65 seal rating

Ensures reliability and performance in rough environments by protecting against damage

### Integrated image capture and transfer capabilities (Symbol DS3407 only)

Reduces the costs associated with operating and maintaining multiple devices by integrating the technology needed for image capture and transfer

### Multiple interfaces (Symbol DS3408 only)

Protects your investment by allowing migration to future hosts with only a cable change

### Two-position smart focus

Unique to the Symbol DS3400 Series, this feature allows users to optimize the scanner for their application by providing them with a choice of two focus positions

the Start with Comprehensive Coverage. This unique service goes far beyond normal wear and tear to include accidental damage to exit windows, scan elements and more at no additional charge.

For more information about the Symbol DS3400 Series, please contact us at +1.800.722.6234 or +1.631.738.2400 or visit us on the Web at [www.symbol.com/ds3400](http://www.symbol.com/ds3400).

# Symbol DS3400 Series Specifications

## Physical Characteristics

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
Weight (w/o cable):	12.56 oz./356 gm
Input Voltage:	5 volts +/- 10%
Operating Current:	250mA (average)
Power Sources:	Depending on host: Host power; External power supply
Color:	Twilight Black/Yellow

## Performance Characteristics

Light Source	650 nm visible laser diode
Resolution	640 x 480
Min Element Width:	5 mil/0.127 mm
Nominal Working Distance:	From 1 in./2.5 cm to 14 in./35 cm on 100% UPC/EAN symbols
Print Contrast:	25% minimum reflective difference
Roll (Tilt) <sup>1</sup> :	+/- 180 degrees from normal
Pitch <sup>2</sup> :	+/- 60 degrees from normal
Skew (Yaw) <sup>3</sup> :	+/- 50 degrees from normal

## Decoding Capability

1D Codes:	UPC.EAN, UPC.EAN with Supplementals, 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, UCC/EAN RSS and RSS variants
2D Codes:	PDF417, microPDF417, MaxiCode, DataMatrix (ECC 2000), Composite Codes, QR Code

Postal Codes:	U.S. Postnet, U.S. Planet, U.K. Postal, Japan Postal, Australian Postal, Dutch Postal
DPM Marks (DPM unit only):	Data matrix marks applied by dot peening, laser etching, molding, stamping or casting methods to multiple substrates including metal, plastic or glass
Interfaces Supported:	RS232, Keyboard Wedge, Wand Emulation, Scanner Emulation, IBM 468X/469X, USB and Synapse

## User Environment

Operating Temp:	32° to 122° F/0° to 50° C
Storage Temp:	-40° to 158° F/-40° to 70° C
Humidity:	5% to 95% relative humidity, noncondensing
Drop Specs:	Unit functions normally after repeated 6.5 ft./2 m drops to concrete
Ambient Light Immunity:	Immune to direct exposure to normal office and factory lighting conditions, as well as direct exposure to sunlight
Sunlight:	10,000 ft. candles/107,644 LUX
Electrostatic Discharge (ESD):	Conforms to 15 kV air discharge and 8 kV of contact discharge

## Regulatory Information

Electrical Safety:	Certified to UL1950, CSA C22.2 No. 950, EN60950/IEC950
Laser Safety:	CDRH Class II, IEC Class 2
EMI/RFI:	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Australian SMA

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



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