

# DS3400 Series

**symbol**  
The Enterprise Mobility Company™

## DIGITAL SCANNERS

### Capture Bar Codes with Laser-Like Precision

The DS3400 Series industrial bar-code scanners from Symbol Technologies use digital imaging technology to accurately capture all types of two-dimensional (2D) and one-dimensional (1D) bar codes while offering the high performance typically found only in laser scanners. For capturing images and bar codes, the DS3408 is ideal. But if image capture and transfer capability is what you need, the DS3407 is perfect for today's applications, such as digital document storage and processing, as well as for image capture applications of the future.

### High Performance That Speeds Productivity

With the DS3400 Series, you benefit from a scanning solution designed specifically for fast-paced production environments. The DS3407 and DS3408 come 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 DS3400 Series has the widest working range of any scanner in its class. Its two-position smart focus technology, unique to Symbol, allows you to read bar codes regardless of the size or density of the code. This means that this single device can work well for all your scanning needs.

### Ruggedized for Industrial-Grade Applications

The DS3400 Series provides resilience and performance in a ruggedized package. The scanners' exit windows are scratch-resistant and recessed for a high level of durability, while their rugged housing, sealed to industry-leading IP65 standards against rain and dust, is designed to withstand repeated drops of up to six-and-a-half feet (two meters) onto concrete. In fact, the DS3407 and DS3408 maintained their reliability when subjected to drops in a specialized tumble test conducted in the widely recognized Symbol Industrial Design Labs. Their design virtually eliminates the chances of downtime occurring as a result of damage from being dropped.

### An Investment for Now and the Future

The DS3400 Series doesn't just provide you with a scanning solution that meets current and future needs—it can also help



Feature	Benefit
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
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 foot 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 (DS3407 only)	Reduces the costs associated with operating and maintaining multiple devices by integrating the technology needed for image capture and transfer
Multiple interfaces (DS3408 only)	Protects your investment by allowing migration to future hosts with only a cable change
Two-position smart focus	Unique to the DS3400 Series, this feature allows users to optimize the scanner for their application by providing them with a choice of two focus positions

protect your past investments as well. Both scanners offer the technology you need to scan newer bar-code symbologies such as 2D bar codes as well as 1D bar codes. The DS3407 offers the USB functionality and faster transfer rates that make it ideal for newer production environments, as well as the ability to capture and transfer images. In addition, the DS3408 includes a multi-interface that allows it to work with a variety of hosts. With the DS3400 Series, you can choose the scanner that is right for you without having to worry about making a large investment in your overall architecture.

### Reduce the Chances of Downtime

Symbol Enterprise Mobility Services are designed to ensure that every aspect of your mobility solution—from network design to ongoing service and support—works seamlessly and at maximum efficiency.

# DS3400 Specification Highlights

The DS3407 and DS3408 are backed by world-class service and support designed to reduce downtime by ensuring that any problems that may occur with the scanner are quickly resolved. It's this reliability, combined with their ruggedized features, that makes the Symbol DS3400 Series of scanners ideal for the manufacturing environment.

While the DS3407 and DS3408 come with standard three-year warranties, Symbol offers a range of service programs, including the Service-from-the-Start Bronze Service Contract, a prepaid five-year Service Center program. By purchasing the service when you buy the scanners, you receive a higher value at a lower price than if you purchased the same service later.

No matter what level of service you choose, you can rest assured knowing that all Symbol services offer:

- A team with industry experience suited to your business needs
- Symbol-certified and approved parts
- Support services aimed at providing you with maximum uptime

For more information about the 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).

## About Symbol Technologies

Symbol Technologies, Inc., The Enterprise Mobility Company™, manufactures and services enterprise mobility systems, delivering products and solutions that capture, move and manage information in real time to and from the point of business activity. Symbol enterprise mobility solutions integrate advanced data capture products, radio frequency identification technology, mobile computing platforms, wireless infrastructure, mobility software and services programs under the Symbol Enterprise Mobility Services brand. Symbol enterprise mobility products and solutions are designed to increase workforce productivity, reduce operating costs, drive operational efficiencies and realize competitive advantages for the world's leading companies.

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 (without 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
Minimum 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, Data Matrix (ECC 2000), Composite Codes, QR Code
Postal Codes	U.S. Postnet, U.S. Planet, U.K. Postal, Japan Postal, Australian Postal, Dutch Postal
Interfaces Supported	RS232, Keyboard Wedge, Wand Emulation, Scanner Emulation, IBM 468X/469X, USB and Synapse
User Environment	
Operating Temperature	32° to 122°F/0° to 50°C
Storage Temperature	-40° to 158°F/-40° to 70°C
Humidity	5% to 95% relative humidity, noncondensing
Drop Specifications	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	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

EN410 CE



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