

Trade Scales Limited

Symbol Scanning Solutions

Symbol DS-3400

Features

- ◆ **Bluetooth Class 2 v1.2 (Serial Port & HID Profiles with authentication and security)** - Cordless scanning with secure wireless transmission of data
- ◆ **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 bar 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
- ◆ **Omni-directional scanning** - Speeds reading time by eliminating the need to line up the bar code with the scan line
- ◆ **Rugged design withstands multiple 6.5 ft./2 m drops to concrete** - Ensures maximum reliability with less downtime resulting from accidental drops
- ◆ **IP65-rated sealing** - Protects against water and dust for reliable performance in harsh industrial conditions
- ◆ **Integrated image capture and transfer capabilities (Symbol DS3407-SF and Symbol DS3407-DP)** - Reduces the costs associated with operating and maintaining multiple devices by integrating the technology needed for image capture and transfer
- ◆ **Multiple on-board interfaces and universal cable set (DS3408-SF and DS3408-HD)** - Ensures flexible connectivity with different hosts; enables easy upgrading of hosts and cable replacement; provides investment protection
- ◆ **Bright LED and beeper with adjustable volume** - Multiple confirmation modes for positive user feedback in noisy environments
- ◆ **Two-position smart focus** - Unique to the Symbol DS3400 Series, this feature provides two focal positions for optimum application flexibility and performance
- ◆ **Advanced data formatting** - Eliminates costly modifications to the host software



Capture bar codes, images and direct part marks with laser-like precision - The Symbol DS3400 Series of rugged digital scanners is designed to bring high performance data capture to harsh industrial environments to improve business efficiency. This scanner family offers digital imaging technology, providing the rapid and accurate capture of one-dimensional (1D) and two dimensional (2D) bar codes, images and direct part marks (DPM) with the high performance typically found only in laser scanners. Regardless of the types of data capture required in your enterprise, there is a DS3400 Series model that will fit your needs.

High performance that speeds productivity - With the Symbol DS3400 Series, you benefit from a scanning solution designed specifically for fastpaced production environments. The charge-coupled device (CCD) image sensors allow the accurate capture and processing of bar codes at a faster pace than the typical digital scanner. In addition, the omni-directional scanning functionality allows operators to quickly capture bar codes from any angle, eliminating the need to align bar codes with laser lines.

Built for industrial environments - 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. The device is designed to perform reliably despite the inevitable bumps and drops — even on concrete. An IP65-rated seal makes it impervious to dust and water, and the exit window is scratch-resistant and recessed for the highest level of durability. It also addresses the challenge of noisy machinery and poor lighting with bright LEDs and an adjustable volume beeper, ensuring that decode feedback is clearly visible and audible to users, saving valuable worker time.

Four models to meet many needs - This diverse product line offers a number of models designed to meet a wide variety of application needs across a variety of industries:

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DS3408-SF: Flexible 1D and 2D bar code capture

DS3407-SF: Combination 1D and 2D bar code scanning plus image capture

DS3408-HD: Optimized for comprehensive 2D bar code capture

DS3407-DP: Comprehensive bar code scanning with support for 1D, 2D and DPM bar codes

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 \pm 10%
Operating Current	250mA (average)
Power Sources	Depending on host: Host power; External power supply
Colour	Twilight Black/Yellow
PERFORMANCE CHARACTERISTICS	
Light Source	650 nm visible laser diode
Resolution	640 x 480
Min Element Width	4 mil (0.102 mm)
Nominal Working Distance	Please see decode zone
Print Contrast	25% minimum reflective difference
Roll (Tilt) (1)	\pm 180 degrees from normal
Pitch (2)	\pm 60 degrees from normal
Skew (Yaw) (3)	\pm 50 degrees from normal
DECODING CAPABILITY	
1D Codes	UPC.EAN, UPC.EAN with Supplementals, GS1-128 (formerly 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, GS1DataBar (formerly RSS)
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, 4State Postal
DPM Marks (DPM unit only)	Data matrix marks applied by dot peening, laser etching, chemical etching, ink marking, moulding, 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	-4° to 122° F (-20° 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	
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

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Label Density	Depth of Field			
	DS340X-SF		DS3408-HD/DS3407-DP	
Paper Label	Imperial	Metric	Imperial	Metric
Code 39 - 5 mil	2.00" - 6.00"	5.08 - 15.24 cm	1.64" - 7.50"	4.17 - 19.05 cm
Code 39 - 7.5 mil	1.30" - 8.50"	3.30 - 21.59 cm	2.10" - 9.50"	5.33 - 24.13 cm
Code 39 - 20 mil	Up to 20.00"	Up to 20.00"	Up to 15.00"	Up to 38.10 cm
100% UPC - 13 mil	0.80" - 14.50"	2.03 - 36.83 cm	2.70" - 11.00"	2.70" - 11.00"
PDF417 - 6.67 mil	2.30" - 4.50"	2.30" - 4.50"	2.30" - 4.50"	6.35 - 19.30 cm
PDF417 - 10 mil	1.80" - 8.80"	4.57 - 22.35 cm	Up to 9.50"	Up to 24.13 cm
PDF417 - 15 mil	Up to 12.3"	Up to 31.24 cm	Up to 10.70"	Up to 27.18 cm
Data Matrix - 4 mil	N/A	N/A	0.88" - 1.92"	2.24 - 4.88 cm
Data Matrix - 5 mil	1.79" - 3.58"	4.55 - 9.09 cm	0.63" - 2.00"	1.60 - 5.08 cm
Data Matrix - 7.5 mil	1.58" - 4.54"	4.01 - 11.53 cm	0.58" - 2.38"	1.47 - 6.05 cm
Data Matrix - 10 mil	1.25" - 5.00"	3.18 - 12.70 cm	0.50" - 2.42"	1.27 - 6.15 cm
QR Code - 4 mil	N/A	N/A	0.83" - 1.63"	2.11 - 4.14 cm
QR Code - 5 mil	2.07" - 3.00"	5.26 - 7.62 cm	0.83" - 1.96"	2.11 - 4.98 cm
QR Code - 7.5 mil	1.71" - 4.25"	4.34 - 10.80 cm	0.67" - 2.34"	1.70 - 5.94 cm
QR Code - 10 mil	1.21" - 4.83"	3.07 - 12.27 cm	0.33" - 2.54"	0.84 - 6.45 cm