

Motorola DS3508 Series Specifications

Physical Characteristics	
Dimensions:	7.34 in. L 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):	11.85 oz. (336 gm)
Voltage and Current:	5 volts +/- 10%, 330 mA
Color:	Twilight Black/Yellow

Performance Characteristics	
Light source:	Aiming pattern: 650nm visible laser diode Illumination: 630nm LED
Imager Field of View:	Standard Range Focus: 39.6° H x 25.7° V High Density Focus: 38.4° H x 24.9° V
Roll/Pitch/Yaw:	±360, ±60, ±60
Motion Tolerance:	Programmable up to 100 in./sec. (2.54m/sec.) when in Enhanced Presentation Mode for 100% 13 mil UPC. Swipe speed will vary depending on code type, scan distance and print quality.

Symbology Decode Capability	
1D Codes:	UPC/EAN (UPCA/UPCE/UPCE1/EAN-8/EAN-13/ JAN-8/JAN-13 plus supplementals, ISBN (Bookland), ISSN, Coupon Code), Code 39 (Standard, Full ASCII, Trioptic), Code 128 (Standard, Full ASCII, UCC/EAN-128, ISBT-128 Concatenated), Code 93, Codabar/NW7, Code 11 (Standard, Matrix 2 of 5), MSI Plessey, I 2 of 5 (Interleaved 2 of 5 / ITF, Discrete 2 of 5, IATA, Chinese 2 of 5), GS1 DataBar (Omnidirectional, Truncated, Stacked, Stacked Omnidirectional, Limited, Expanded, Expanded Stacked, Inverse), Base 32 (Italian Pharmacode)
PDF417 (and variants):	PDF417 (Standard, Macro), MicroPDF417 (Standard, Macro), Composite Codes (CC-A, CC-B, CC-C)
2D Codes:	TLC-39, Aztec (Standard, Inverse), MaxiCode, DataMatrix/ECC 200 (Standard, Inverse), QR Code (Standard, Inverse, Micro)
Postal codes:	U.S. Postnet, U.S. Planet, U.K. Postal, Japan Postal, Australian Postal, Dutch Postal, 4State Postal
DPM Marks (DPM unit only):	Datamatrix marks applied by dot -peening. All supported barcode types listed above marked by laser etching, chemical etching, ink marking, molding, stamping or casting methods on surfaces such as including metal, plastic, rubber or glass
IUID Support:	Supports IUID parsing. The ability to read and separate IUID fields per application requirements

Imaging Characteristics	
Graphics Format Support:	Images can be exported as Bitmap, JPEG, or TIFF

Image Transfer Speed:	USB 2.0: Up to 12 Megabits/second RS-232: Up to 115 kb/second
Image Transfer Time:	Typical USB application is ~0.2 seconds with a compressed JPEG
Image Quality:	Standard Range Focus: 130 DPI on a 5.8 x 3.6 in. / 14.6 x 9.1 cm document @ 6.6 in. / 16.8 cm. High Density Focus: 370 DPI on a 2.0 x 1.3 in. / 5.1 x 3.3 cm document @ 1.5 in. / 3.8 cm.

User Environment	
Operating temp.:	-4° F to 122° F/-20° C to 50° C
Storage temp.:	-40° F to 140° F/-40° C to 60° C
Humidity:	5% to 95% relative humidity, non-condensing
Sealing:	Sealed to IP65 specifications
Drop specs:	Unit functions normally after repeated 6.5 ft. (2 m) drops to concrete
Ambient light immunity:	Incandescent – 150 ft. candles (1,600 LUX) Sunlight – 8,000 ft. candles (86,000 LUX) Fluorescent – 150 ft. candles (1,600 LUX) Mercury Vapor – 150 ft. candles (1,600 LUX) Sodium Vapor – 150 ft. candles (1,600 LUX) Immune to direct exposure to normal office and factory lighting conditions, as well as direct exposure to sunlight
Electrostatic discharge (ESD):	Conforms to 20 kV air discharge and 8 kV of contact discharge

Interfaces	
Interfaces supported:	USB, RS-232, RS-485 (IBM 46xx Protocols), Keyboard Wedge, Synapse

Regulatory	
Electrical Safety:	UL60950-1, CSA C22.2 No. 60950-1, EN 60950-1 / IEC 60950-1
Laser Safety:	EN 60825-1, IEC 60825-1, 21CFR1040.10, CDRH Class II, IEC Class 2
EMI/RFI:	FCC Part 15 Class B, ICES-003 Class B, EN 55022, EN 55024, EN 61000-6-2, AS/NZS 4268:2008, Japan VCCI
Environmental:	Compliant with RoHS directive 2002/95/EEC

Options	
Accessories:	Holster (mounts to pants or belt); Intelli-Stand (hands-free scanning); Tool Balancer Pulley (tethered)

Warranty	
The Motorola DS3508 Series is warranted against defects in workmanship and materials for a period of 3 years (36 months) from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions. See full warranty for details.	

Recommended Service	
Service from the Start – Bronze	

**See back for decode zone.*

Integrated image capture and transfer capabilities

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

Ensures flexible connectivity with different hosts; enables easy upgrading of hosts and cable replacement; provides investment protection

Bright LED, beeper with adjustable volume and vibrating pager motor

Multiple confirmation modes for positive user feedback in noisy environments

Advanced data formatting

Eliminates costly modifications to the host software

Supports 123Scan² scanner configuration tool

Enables rapid and easy customized set-up through a free, wizard-based PC software tool

Supports RSM (Remote Scanner Management)

Lowers IT expenses and TCO by enabling remote management from a central location

SPECIFICATION SHEET

Motorola DS3508 Series

DS3508 Series Decode Zone

	Depth of Field			
Label Density	DS3508-SR		DS3508-HD/DS3508-DP	
Paper Label	English	Metric	English	Metric
Code 39 - 3 mil	N/A	N/A	1.10" - 1.60"	2.79 - 4.06 cm
Code 39 - 4 mil	2.60" - 4.50"	6.60 - 11.43 cm	Contact - 3.5"	Contact - 8.89 cm
Code 39 - 5 mil	1.00" - 6.30"	2.54 - 16.00 cm	Contact - 4.2"	Contact - 10.67 cm
Code 39 - 7.5 mil	Contact - 10.10"	Contact - 25.65 cm	Contact - 5.4"	Contact - 13.72 cm
Code 39 - 20 mil	1.00" - 20.90"	2.54 - 53.09 cm	1.10" - 9.20"	2.79 - 23.37 cm
100% UPC - 13 mil	0.90" - 15.10"	2.29 - 38.35 cm	0.80" - 6.20"	2.03 - 15.75 cm
PDF417 - 6.67 mil	2.70" - 6.10"	6.86 - 15.49 cm	Contact - 3.70"	Contact - 9.40 cm
PDF417 - 10 mil	0.40" - 9.30"	1.02 - 23.62 cm	Contact - 4.50"	Contact - 11.43 cm
PDF417 - 15 mil	3.30" - 14.80"	8.38 - 37.59 cm	3.20" - 5.60"	8.13 - 14.22 cm
Data Matrix - 4 mil	N/A	N/A	1.00" - 2.10"	2.54 - 5.33 cm
Data Matrix - 5 mil	N/A	N/A	0.40" - 2.70"	1.02 - 6.86 cm
Data Matrix - 7.5 mil	2.10" - 5.50"	5.33 - 13.97 cm	Contact - 3.50"	Contact - 8.89 cm
Data Matrix - 10 mil	1.10" - 7.10"	2.79 - 18.03 cm	Contact - 4.40"	Contact - 11.18 cm
QR Code - 4 mil	N/A	N/A	1.10 - 1.40"	2.79 - 3.56 cm
QR Code - 5 mil	N/A	N/A	0.50" - 2.20"	1.27 - 5.59 cm
QR Code - 7.5 mil	N/A	N/A	Contact - 3.30"	Contact - 8.38 cm
QR Code - 10 mil	1.50" - 6.10"	3.81 - 15.49 cm	Contact - 4.00"	Contact - 10.16 cm

For more information, including decode zone pictorial, see the Product Reference Guide located in the Resources tab at www.motorola.com/ds3508.



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