



L: 18.65 cm; W: 12.25 cm; H: 7.43 cm

Features & Benefits:

- Available in Three Models for Multiple Industries & Applications
- Powerful 624 MHz Processor, Fast Sensor Shutter Speed and Fast-Pulse Illumination
- Exceptional Motion Tolerance
- Unique Aiming Pattern with Bright Central Laser Dot
- Omni-Directional Scanning Speeds for Fast Read Time
- Rugged Design Withstands Drops and IP65-Rated Seal

Rugged, Corded Handheld 2D Imager

The DS3508 captures barcodes, images and direct part marks with extraordinary speed. This digital scanner brings comprehensive, high performance data capture to harsh industrial environments. Engineered with breakthrough digital imaging technology, DS3508 delivers extremely fast and accurate data capture of 1D and 2D barcodes, images and direct part marks (DPM), as well as Item Unique Identification (IUID) support (available on the DS3508-DP model).

The DS3508 is designed for fast-paced production environments. The CMOS image sensor allows the accurate capture and processing of barcodes at a faster pace. Armed with a 624 MHz microprocessor, it's capable of decoding barcodes in milliseconds, regardless of size or density. The fast-pulse illumination and fast sensor shutter speed enable image capture at a full 60 frames per second, delivering outstanding motion tolerance. In addition, the omni-directional scanning functionality allows operators to quickly capture barcodes from any angle, eliminating the need to align barcodes with laser lines.

DS3508 delivers ergonomic and operational features for scan-intensive industrial applications under the harshest operating conditions. The device is designed to perform reliably despite the 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.

Noisy machinery and poor lighting can make it difficult for operators to see or hear scanner feedback. DS3508 addresses this with bright LEDs, an adjustable volume beeper and vibrating pager motor placed in the handle, ensuring feedback is visible and audible to users.

Applications:

- Production
- Industrial



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DS3508

Models	
DS3508-SR	1D/2D Barcode Scanning, High-Speed Image Capture/Transfer
DS3508-HD	High Density and Very Tiny Barcodes
DS3508-DP	IUID-Enabled; Wide Variety of DPM Marks
Performance	
Light Source	Aiming Pattern: 650 nm visible laser diode Illumination: 630 nm LED
Imager Field of View	Standard Range Focus: 39.6° H x 25.7°V High Density Focus: 630nm LED
Roll, Pitch, Yaw	+/- 360, +/- 60, +/- 60
Motion Tolerance	Up to 100 in. /sec. (2.54 m/sec) when in Enhanced Presentation Mode for 100% 13 mil UPC. Swipe speed varies depending on code type, scan distance and print quality.
Warranty	3 years from date of shipment, if unmodified and operated under normal conditions. See full warranty.
Mechanical/Electrical	
Dimensions (L x W x H)	18.65 cm x 12.25 cm x 7.34 cm (7.34" x 4.82" x 2.93")
Weight	336 gm (11.85 oz.)
Voltage and Current	5 Volts +/- 10%, 330 mA
Color	Twilight Black/Yellow
Interfaces Supported	USB, Keyboard Wedge, RS232, RS485 (IBM 46xx)
Environmental	
Operating Temperature	-20° to 50°C (-4° F to 122° F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	5% to 95% relative humidity, noncondensing
Drop Specifications	Designed to withstand repeated drops to concrete from 2m
Environmental Sealing	IP65
Ambient Light Immunity	Incandescent – 1,600 Lux Sunlight – 86,000 Lux Fluorescent – 1,600 Lux Mercury Vapor – 1,600 Lux Sodium Vapor – 1,600 Lux Immune to direct exposure to normal office and factory lighting as well as sunlight.
Electrostatic Discharge (ESD)	Conforms to 20kV air discharge and 8 kV of contact discharge.
Symbology Decode	
1D	UPC/EAN, ISBN, ISSN, Code 39, Code 128, Code 93, Codabar/NW7, Code 11, MSI Plessey, I 2 of 5, Discrete 2 of 5, IATA, Chinese 2 of 5, GSI DataBar, Base 32
PDF417 (and variants)	PDF417, MciroPDF417, Composite Codes
2D	TLC-39, Aztec, MaxiCode, DataMatrix/ECC 200, QR Code
Postal Codes	U.S. Postnet, U.S. Planet, U.K. Postal, Japan Postal, Australian Postal, Dutch Postal, 4State Postal
DMP Marks (for –DPM model only)	DataMatrix applied by dot-peening. All supported barcode types marked by laser etching, chemical etching, ink marking, molding, stamping or casting methods on surfaces including metal, plastic, rubber or glass.
IUID Support	Supports IUID parsing. Ability to read and separate fields per application and requirements.
Imaging Characteristics	
Graphics Format Support	Images exported as Bitmap, JPEG, or TIFF
Image Transfer Speed	USB 2.0: Up to 12 megabits/second RS232: Up to 115 kb/second

Image Transfer Time	Typical USB application ~ .2 seconds with compressed JPEG			
Image Quality	Standard Range Focus: 130 DPI on 14.6 cm x 9.1 cm (5.8" x 3.6") @ 16.8 cm (6.6") High Density Focus: 370 DPI on 5.1 cm x 3.3 cm (2.0" x 1.3") @ 3.8 cm (1.5")			
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, 21 CFR1040.10, 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); IntelliStand (hands-free), Tool Balancer Pulley (tethered)			
Recommended Service	Service from Start – Bronze			
Decode Zone				
Label Density	DS3508-SR / Inches	DS3508-SR / cm.	DS3508-HD and –DP/ Inches	DS3508-HD and –DP/ cm.
Code 39 – 3 mil	NA	NA	1.1" – 1.60"	2.79 cm – 4.06 cm
Code 39 – 4 mil	2.6" - 4.5"	6.6 cm – 11.43 cm	Contact – 3.5"	Contact – 8.89 cm
Code 39 – 5 mil	1.0" - 6.3"	2.54 cm – 16.0 cm	Contact – 4.2"	Contact – 10.67 cm
Code 39 – 7.5 mil.	Contact – 10.1"	Contact – 25.65 cm	Contact – 5.4"	Contact – 13.72 cm
Code 39 – 20 mil	1.0" - 20.9"	2.54 cm – 53.09 cm	1.1" - 9.2"	2.79 cm – 23.37 cm
100% UPC – 13 mil	0.9" - 15.1"	2.29 cm – 38.35 cm	.8" - 6.2"	2.03 cm - 15.75 cm
PDF417 – 6.67 mil	2.7" - 6.1"	6.86 cm - 15.49 cm	Contact - 3.7"	Contact – 9.4 cm
PDF417 – 10 mil	.4" - 9.3"	1.02 cm – 23.62 cm	Contact - 4.5"	Contact – 11.43 cm
PDF417 – 15 mil	3.3" – 14.8"	8.38 cm – 37.59 cm	3.2" - 5.6"	8.14 cm – 14.22 cm
DataMatrix – 4 mil	NA	NA	1." - 2.1"	2.54 cm – 5.33 cm
DataMatrix – 5 mil	NA	NA	.4" - 2.7"	1.02 cm – 6.86 cm
DataMatrix – 7.5 mil	2.1" - 5.5"	5.33 cm – 13.97 cm	Contact – 3.5"	Contact – 8.89 cm
QR Code – 4 mil	NA	NA	1.1" - 1.4"	2.79 cm – 3.56 cm
QR Code – 5 mil	NA	NA	.5" - 2.2"	1.27 cm – 5.59 cm
QR Code – 7.5 mil	NA	NA	Contact – 3.3"	Contact – 8.38 cm
QR Code – 10 mil	1.5" - 6.10"	3.81 cm – 15.49 cm	Contact - 4.0"	Contact – 10.16 cm

ABOUT JADAK:

JADAK, a business unit of Novanta, is a market leader in machine vision, RFID, barcode, printing, and color and light measurement products and services for original equipment manufacturers. The company designs and manufactures embedded detection and analysis solutions that help customers solve unique inspection, tracking, scanning and documenting. The company is ISO 9001 and ISO 13485 registered.

Novanta is a trusted technology partner to OEMs in the medical and advanced industrial technology markets, with deep proprietary expertise in photonics, vision and precision motion technologies.

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