



MOTOROLA DS3578 SERIES

RUGGED CORDLESS DIGITAL SCANNERS WITH INTEGRATED BLUETOOTH

INSTANTLY CAPTURE VIRTUALLY ANY TYPE OF BAR CODE

Improve business efficiency in your harshest industrial environments with the Motorola DS3578 Series. Breakthrough digital imaging technology allows workers to capture virtually any bar code, with extreme speed and accuracy. Three models can meet any bar code capture requirement you have — from 1D and 2D bar codes and Direct Part Marks (DPM) to Unique Identification (IUID)* support.

IMAGE CAPTURE ADDS VALUE

When a shipment arrives damaged, a picture is worth a thousand words. With the press of a trigger, workers can capture a photo and automatically append it to the shipment record. The image is wirelessly transferred to the cradle and on to your host PC, providing indisputable evidence of damage and streamlining returns processing.

CORDLESS FREEDOM IMPROVES PRODUCTIVITY

With integrated Bluetooth, there is no cord between the scanner and the host, so your employees can move freely throughout your work environment. Productivity, efficiency and even worker safety is improved. Plus, downtime from cable breakdowns — a common point of failure in handheld devices used in industrial environments — is eliminated.

MAXIMUM PERFORMANCE FOR MAXIMUM PRODUCTIVITY

The DS3578 Series is designed specifically for fast-paced production environments. Complementary metal-oxide-semiconductor (CMOS) image sensors accurately capture and process bar codes much faster than the typical digital scanner. The powerful 624 MHz microprocessor decodes 1D and 2D bar codes within milliseconds, regardless of size or density. The patent pending fast-pulse illumination

FEATURES

Reads both 1D and 2D bar codes

Increases productivity by providing one device that can read all industry-standard bar codes

Powerful 624 MHz processor, fast sensor shutter speed and patent pending fast-pulse illumination

Superior performance on 1D and 2D bar codes, improving productivity in a wide variety of applications

Government grade security: FIPS 140-2 validation

Meets the most stringent federal government and industry security regulations

IUID-enabled (DS3578-DP only)

Ability to understand IUID constructs, and automatically separate and send the required information to your application

* Direct Part Marks (DPM) and IUID available only on the DS3578-DP (DPM-enabled model)

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Captures high density bar codes (DS3578-HD only)

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

EZ-DPM software for Direct Part Mark capture (DS3578-DP only)

Enhance quality processes and improve lifetime product traceability with this highly advanced DPM software; captures hard to read DPM codes faster; captures the widest range of sizes and densities on virtually any surface

Captures photos

A press of the trigger captures and transfers photographic information to the cradle and on to your host computer

Integrated Bluetooth Class II, Version 2.1

Cable-free convenience; secure wireless transmissions; reduces repairs due to cable failure

Exceptional motion tolerance

Enables extraordinary scanning speed for all bar codes, increasing throughput and productivity — regardless of application

Unique aiming pattern

Bright central laser dot ensures quick, accurate scanning — even in bright sunlight

Omni-directional scanning

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

and fast sensor shutter speed deliver outstanding motion tolerance, eliminating the need for users to pause between scans. Omni-directional scanning functionality allows operators to quickly capture bar codes from any angle, so users never need to take the time to align bar codes with laser lines. Plus, the DS3578 Series offers the widest working range of any scanner in its class.

BUILT FOR INDUSTRIAL ENVIRONMENTS

As innovative as it is rugged, the DS3578 Series delivers the ergonomic and operational features required in scan-intensive industrial applications in the harshest environments. The device is built to handle the inevitable bumps and drops — even on concrete. An IP65-rated seal makes it impervious to dust and water. The exit window is scratch-resistant and recessed for the highest level of durability. These features deliver a low total cost of ownership, minimizing employee and device downtime as well as equipment repair and replacement costs.

In addition, noisy machinery and poor lighting can make it difficult for operators to see or hear scanner feedback to ensure proper completion of scans. Motorola's DS3578 Series addresses this challenge with bright LEDs, adjustable beeper volume and a vibrating pager motor placed in the handle. Decode feedback is clearly visible and audible, protecting productivity and task accuracy.

GOVERNMENT GRADE-SECURITY

Achieving government grade security with the DS3578 Series is easy. All models are FIPS 140-2 compliant, right out of the box. Just scan the included Enable FIPS Encryption bar code to activate FIPS security.

THREE MODELS TO MEET MANY NEEDS

Three models meet a wide variety of application needs across a variety of industries:

DS3578-SR: Combination 1D and 2D bar code scanning

The flexible DS3578-SR meets the needs of a wide variety of applications and environments, offering 1D and 2D bar code scanning, as well as support for a wide variety of interfaces for easy integration with new and legacy systems. The DS3578-SR streamlines inventory management in the most scan intensive, fast-paced environments — from the largest warehouse to the retail backroom — where a quick scan enables the automatic and accurate capture of the information required to increase productivity and reduce errors. At the receiving dock, a scan of the bar code on the boxes, pallets or bill of lading can automatically reconcile incoming shipments for faster processing of incoming goods. In put-away and picking, a quick scan can determine where product

should be stored and also verify that product was placed on the right shelf. False out-of-stocks due to misplaced materials are eliminated — along with lost sales. In shipping, a quick scan verifies that the right shipment is addressed to the right person, preventing costly mis-ships.

DS3578-HD: Optimized for comprehensive 2D bar code capture

The DS3578-HD offers the same capabilities as the DS3578-SR, but adds optimization for the very tiny and dense 1D and 2D bar codes frequently found in warehousing, transportation and logistics, and manufacturing environments. For manufacturers, the DS3578-HD allows scanning of bar codes on the smallest parts to verify that the right part is used at the right time. Product quality improves, increasing customer satisfaction and retention. Real-time inventory visibility allows manufacturers to lower standard stocking levels, reducing warehouse space requirements and increasing inventory turns — and profitability. And in the event you are notified of a defective part, a quick scan can instantly reveal the location of the defective product, allowing rapid and targeted recalls that protect brand image, customer perception and recall costs. And companies involved in warehousing, shipping and delivery of little items can easily read the small, dense 2D bar codes that may be utilized on smaller packages.

DS3578-DP: Comprehensive IUID-enabled scanner with support for 1D, 2D and DPM bar codes

This powerful scanner combines our highly advanced EZ-DPM software with the functionality of the DS3578-SR, the focusing capability of the DS3578-HD, plus integrated IUID parsing capability. Government agencies and industrial manufacturers — including automotive, aerospace and medical — can capture all 1D and 2D bar codes as well as every type of Direct Part Mark (DPM). EZ-DPM software allows easy reading of even the most challenging marks, including very low contrast marks on black plastic, 'noisy' marks on cast surfaces and marks on corroded steel and cast iron pipe that have been in the field for years. Comprehensive IUID support allows you to capture and process Unique Item Identifiers (UIIs) — the scanner can validate, read, separate and transmit the right information to your application. And since construct tables are field upgradable, your IUID applications are future proof.

REDUCE HARDWARE AND MANAGEMENT COSTS

The DS3578 not only helps you save time, it helps you save money. Since this one device can capture any bar code, you no longer need to purchase, manage and maintain multiple devices to accommodate different bar code symbologies. You also no longer need a cradle for every device —

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one FIPS validated cradle supports up to seven FIPS validated scanners. In addition, two Motorola-unique tools substantially reduce management time and cost. 123Scan² is a powerful PC-based software tool that enables rapid and easy scanner set-up and customization. And Remote Scanner Management (RSM) enables remote, network-based device management from a central location.

END-TO-END SUPPORT

Service from the Start Advance Exchange Support provides next-business-day replacement of devices that require repair. Built-in Comprehensive Coverage protects your scanners from the unexpected, significantly reducing unforeseen repair expenses and delivering service peace of mind.

Rugged design: IP65 sealing and 6.5 ft./2 m drop specification

Ensures maximum reliability with less downtime resulting from accidental drops and exposure to water and dust

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

7-to-1 pairing

Pair seven scanners to a single cradle, greatly reducing cradle costs (scanners and cradle must be FIPS validated)

Multiple on-board interfaces and universal cable set

Easy to connect to your existing host system as well as upgrade to new hosts of the future; protecting your investment

Supports 123Scan²

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

For more information on how you can put the DS3578 Series to work in your organization, please visit us on the Web at www.motorolasolutions.com/ds3578 or access our global contact directory at www.motorolasolutions.com/contactus

SPECIFICATIONS CHART

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	14.6 oz. (414 gm)
Battery	2200 mAh Lithium Ion Battery
Battery Charge Time	Fully charged (100%) within 4.5 hours using an external power supply and up to ten hours using a USB cable
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°, ±65°, ±60°
Motion Tolerance	Up to 60 in./sec. (1.52m/sec.) for 100% 13 mil UPC. Motion tolerance will vary depending on code type, scan distance and print quality.

SYMBOLGY DECODE CAPABILITY

1D Codes	UPC/EAN and with supplementals, Code 39, Code 39 Full ASCII, Tri-optic Code 39, GS1 DataBar Variants, GS1-128, Code 128, Code 128 Full ASCII, Code 93, Codabar (NW1), Interleaved 2 of 5, Discrete 2 of 5 MSI, Codell, IATA, Bookland EAN, Code 32
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	U.S. Postnet, U.S. Planet, U.K. Postal, Japan Postal, Australian Postal, Dutch 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
Nominal Working Range	See chart on back

USER ENVIRONMENT

Operating Temp.	-4° F to 122° F/-20° C to 50° C
Storage Temp.	-40° F to 158° F/-40° C to 70° C
Humidity	5% to 95% relative humidity, non-condensing
Sealing	Sealed to IP65 specifications
Drop Specifications	Unit functions normally after repeated 6.5 ft. (2 m) drops to concrete
Cradle Insertions	250,000+ insertions
Ambient Light Immunity	Indoor: 450 Ft Candles (4,842 Lux) Outdoor: 8,000 Ft Candles (86,080 Lux)
Electrostatic discharge (ESD):	15 kV air discharge 8 kV contact discharge

CRADLES

	Charging Only	Bluetooth
	STB 3508 and FLB 3508	STB 3578 and FLB 3578
Power Reqs.	4.75-14 VDC	4.75-14 VDC
Typical current draw:		
<i>Not charging</i>	35 mA 45 mA @9V	105 mA @5V 110 mA @9V
<i>Fast rate charge*</i>	915 mA @5V 660 mA @9V	915 mA @5V 660 mA @9V
<i>Slow rate charge**</i>	480 mA @5V 345 mA @9V	480 mA @5V 345 mA @9V

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PRODUCT SPEC SHEET
MOTOROLA DS3578 SERIES

RADIO SPECIFICATION

Radio	Bluetooth Class II Version 2.1, Serial Port and HID Profiles
Frequency	2.402 to 2.480 GHz adaptive frequency hopping and co-existence with 802.11 wireless networks
Data Rate	Basic Data Rate is 720 kbps Enhanced Data Rate (EDR) for image transfer
Radio Range	Radio range: Up to 300 ft. (100m) direct line of sight in open air. Typical indoor cordless range is 100 ft. (33m), but range will vary depending upon environment; see Bluetooth Radio Performance Technical Brief for more information

INTERFACES

Interfaces Supported	USB, RS-232, RS-485 (IBM 46xx Protocols) and Keyboard Wedge
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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

REGULATORY (CONTINUED)

EMI/RFI	FCC Part 15 Class B, ICES-003 Class B, EN 55022, EN 55024, AS/NZS 4268:2008, Japan VCCI
Environmental	Compliant with RoHS directive 2002/95/EEC

OPTIONS

Accessories	Holster (mounts to pants or belt); Tool Balancer Pulley (tethered); Standard Cradle (Charge Only); Standard Cradle (Radio/Charge); Fork-Lift Cradle (Charge Only); Fork-Lift Cradle (Radio/Charge)
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WARRANTY

The Motorola DS3578 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 SERVICES

Service from the Start Advance Exchange Support

- * Fast rate charge requires an external power supply.
- ** Cradle defaults to slow rate charge when an external supply is not used.

DS3578 SERIES DECODE ZONE

Label Density	Depth of Field			
	DS3578-SR		DS3578-HD/ DS3578-DP	
	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 Support and Documents tab at www.motorolasolutions.com/ds3578

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