ZEBRA
CAPTURE YOUR EDGE

DS3608-SR/DS3678-SR Ultra-Rugged Scanner

Unstoppable performance for standard range 1D/2D barcode capture

Every day, workers in your warehouse and on the manufacturing plant floor scan thousands of barcodes to ensure product quality and on-time order delivery. Their productivity depends on the quality of the scanner you put in their hands. When workers need to capture 1D and 2D barcodes at standard ranges, with the corded DS3608-SR and cordless DS3678-SR scanner, you can give them the best — unmatched rugged design, unmatched scanning performance and unrivaled manageability. The advanced imager delivers lightning-fast capture of any 1D or 2D barcode printed on a label in virtually any condition or displayed on a screen, from near contact to nearly 5 ft./1.5 m away. The ultra-rugged design is practically indestructible — ideal for punishing environments. The DS3608-SR/DS3678-SR couldn't be easier and less time-consuming to deploy and manage. And when it comes to cordless technology, the DS3678-SR is loaded with Zebra-only features that put it in a class of its own, including a sealed rugged cradle, a smart battery and Zebra's Wi-Fi Friendly Mode that prevents interference with your Wi-Fi network. The DS3608-SR/DS3678-SR — the unstoppable performance you need to maximize workforce productivity and throughput in your operations.



Superior scanning performance on any 1D/2D barcode, in any condition
The advanced imager reads 1D and 2D barcodes displayed on a screen or printed on a label faster and farther than other standard range scanners. Easily read barcodes from near contact to nearly 5 ft./1.5 m away* — even if they are under shrinkwrap, damaged, dirty or poorly printed. The result? Workers can capture barcodes as fast as they can pull the trigger for first-time every time scanning — and extraordinary productivity.

Ultra-rugged — the most indestructible design in its class
The DS3608-SR/DS3678-SR is our most rugged scanner yet, with the highest drop, tumble and sealing specification in its class. It is built to survive an 8 ft./2.4 m drop to concrete — 23 percent more durable than any other scanner in this class. The DS3608-SR/DS3678-SR operates reliably after 5,000 tumbles, simulating the real-world tumbling that occurs with a drop. Both models are dustproof, sprayproof and waterproof to IP67 — they can be sprayed down with jetting water and even submersed in water.

Easy management with our complimentary industry-best tools
Remotely configure scanners, upgrade firmware, format data properly for your back end and monitor PowerPrecision+ battery statistics and more with 123Scan and Scanner Management Service (SMS).

Multi-code captures and processes up to 20 barcodes simultaneously
Many labels have multiple barcodes your workers need to capture. Now, one press of the trigger captures the right barcodes and applies the unique data format required for each one for instant transmission to your backend systems — all with complete control over the order in which barcodes are processed.

Extreme temperature rating
Built to handle extreme cold, heat and more, you can use the DS3608-SR/DS3678-SR anywhere — even in the freezer.**

A Bluetooth model in a class of its own for superior cordless freedom
Bluetooth 4.0 (Low Energy) provides lightning fast wireless communication and maximum energy efficiency.

Our Zebra *Wi-Fi Friendly Mode* eliminates the wireless interference that Bluetooth devices can create in your Wi-Fi environment.

The *'go anywhere' rugged cradle* offers superior versatility and durability. The DS3678-SR cradle is the only one in its class to offer IP65 sealing. And its industrial charging contacts withstand 250,000 insertions.

The first-in-its-class battery 'charge gauge' and Bluetooth status LED make it easy to monitor battery power as well as Bluetooth connectivity.

The PowerPrecision+ battery delivers the ultimate in battery power and management. You get more than twice the amount of scans per charge than with competitive models — more than 100,000 scans per charge, so workers can scan more items over a longer

period of time. You also get visibility into a wealth of battery health-related data, including charge cycles consumed, current battery status and a State of Health meter, which identifies if batteries are healthy and holding a full charge, no longer holding a full charge, or at end of life and require replacement.

Support for the Barcode of the Future — Digimarc®
DS3608-SR/DS3678-SR scanners support Digimarc digital watermark technology, where barcodes are printed repeatedly over all surfaces yet are invisible to workers and consumers. Digimarc saves time at checkout and also creates efficiencies throughout the supply chain since workers no longer need to locate and position a visible barcode in the field of view.

Faster pick-list processing
Users can easily select and capture an individual barcode from any pick list.

Three flexible feedback modes
Mix and match the feedback modes that are ideal in your environment — vibration, red and green LEDs located in an area where they are always easy to see, plus the traditional loud beep tone.

Instantly connect to your Industrial Ethernet network
Zebra's Network Connect for Automation delivers a seamless connection between DS3608-SR/DS3678-SR scanners and a manufacturer's Industrial Ethernet network without the need for third party conversion equipment. The solution eliminates vulnerability points, improves security, reduces complexity and is compatible with every Zebra 3600 Series scanner.

DataCapture DNA
Zebra's DataCapture DNA is a technology platform of highly intelligent firmware, software, utilities and apps exclusively engineered for Zebra scanners. Leveraging more than 35 years of Zebra's industry expertise, Data Capture DNA delivers innovations that give our best-in-breed imagers greater intelligence and simplicity. When combined with the unstoppable performance found in every 3600 Series ultra-rugged scanner, DataCapture DNA turns Zebra's 3600 Series scanners into powerful tools that help to resolve tomorrow's data capture challenges today — and help your workers get more done each day.

The Zebra 3600 Ultra-Rugged Scanner Series

This family of scanners offers a model to meet virtually every need in warehousing and manufacturing:

- **LI3608-SR/LI3678-SR:** Standard range 1D barcode capture
- **LI3608-ER/LI3678-ER:** All-range 1D barcode capture
- **DS3608-SR/DS3678-SR:** Standard range scanning of 1D and 2D barcodes
- **DS3608-HP/DS3678-HP:** High performance scanner captures 1D/2D barcodes over longer distances, plus OCR, photos and documents
- **DS3608-HD/DS3678-HD:** Captures high-density 1D/2D barcodes
- **DS3608-DP/DS3678-DP:** Capture of Direct Part Marks (DPM)
- **DS3608-ER/DS3678-ER:** All-range 1D/2D barcode capture

The DS3608-SR/DS3678-SR — Advanced 1D/2D barcode capture in an ultra-rugged scanner.

For more information, visit www.Zebra.com/DS36X8-SR or access our global contact directory at www.zebra.com/contact

DS3608-SR/DS3678-SR Specifications Chart

PHYSICAL CHARACTERISTICS	
Dimensions	Corded: 7.3 in. H x 3.0 in. W x 5.2 in. D 18.5 cm H x 7.6 cm W x 13.2 cm D Cordless: 7.3 in. H x 3.0 in. W x 5.6 in. D 18.5 cm H x 7.6 cm W x 14.2 cm D
Weight	Corded: 10.76 oz./305 g Cordless: 14.34 oz./407 g
Input Voltage Range	Host powered: 4.5 VDC min., 5.5 VDC max. External power supply: 11.4 VDC min., 12.6 VDC max.
Operating Current	DS3608-SR (corded): 360 mA (RMS typical)
Standby Current	DS3608-SR (corded): 100 mA (RMS typical)
Color	Industrial Green
Supported Host Interfaces	USB, RS232, Keyboard Wedge Industrial Ethernet: EtherNet/IP, Profinet, Modbus TCP & Std TCP/IP
Battery	PowerPrecision+ 3100 mAh Li-Ion rechargeable battery
User Indicators	Direct decode indicator; LEDs; beeper; vibration

PERFORMANCE CHARACTERISTICS	
Scans per Full Charge	100,000+
Image Capture	Basic
Illumination	One (1) 660 nm LED
Aimer	610 nm LED
Imager Field of View	Horizontal: 42°, Vertical: 28°
Image Sensor	1,280 x 800 pixels
Minimum Print Contrast	15% minimum reflective difference
Skew/Pitch/Roll	Skew: ± 60° Pitch: ± 60° Roll: ± 360°

DECODE CAPABILITIES***	
1D	Code 39, Code 128, Code 93, Codabar/NW7, Code 11, MSI Plessey, UPC/EAN, I 2 of 5, Korean 3 of 5, GS1 DataBar, Base 32 (Italian Pharma)
2D	PDF417, Micro PDF417, Composite Codes, TLC-39, Aztec, DataMatrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Codes, DotCode
Digimarc	Digital watermark technology
IUID Support	Supports IUID parsing, the ability to read and separate IUID fields per application requirements

USER ENVIRONMENT	
Operating Temp.	Corded: -22° F to 122° F/-30° C to 50° C Cordless: -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% non-condensing
Drop Specification	Withstands multiple 8.0 ft./2.4 m drops to concrete

USER ENVIRONMENT (CONTINUED)	
Tumble Specification	5,000 tumbles @ 3.3 ft. (1 m)
Sealing	Scanner: IP65 and IP67 FLB cradle: IP65
ESD	Per EN61000-4-2, ±25 KV air discharge, ±10 KV direct discharge, ±10 KV indirect discharge

UTILITIES AND MAINTENANCE	
123Scan	Programs scanner parameters, upgrades firmware, provides scanned barcode data and prints reports. For more information, visit www.zebra.com/123Scan
Scanner SDK	Generates a fully-featured scanner application, including documentation, drivers, test utilities and sample source code. For more information, visit www.zebra.com/windowsSDK
Scanner Management Service (SMS)	Remotely manages your Zebra scanner and queries its asset information. For more information, visit www.zebra.com/sms
Network Connect	Seamlessly connects 3600 Series scanners directly to your Industrial Ethernet network without any third party conversion equipment. For more information, visit www.zebra.com/NetworkConnect

WIRELESS CONNECTIVITY	
Bluetooth Radio	Bluetooth Class 1, Version 4.0 (LE), serial port and HID profiles
Data Rate	3 Mbit/s (2.1 Mbit/s) for Classic Bluetooth 1 Mbit/s (0.27 Mbit/s) for Low Energy
Radio Range	Direct line of sight in open air: Class 1: Minimum 300 ft. (100.0 m); Class 2: Minimum 30 ft. (10.0 m)

REGULATORY	
Environmental	RoHS EN 50581: 2012
Electrical Safety	**EU Safety:** EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + AC 2011 + A2: 2013 **International Safety:** IEC 60950-1: 2005 + A1: 2009 + A2: 2013 **US/Canada Safety:** UL 60950-1, second edition, CAN/CSA-C22.2 No. 60950-1-07
LED Safety	International LED Safety: IEC 62471: 2006 (Ed.1.0); EN 62471: 2008 (LED)
EMI/RFI	**IT Emissions:** EN 55022: 2010/AC: 2011 (Class B) **IT Immunity:** EN 55024: 2010 **Heavy Industrial:** EN 61000-6-2: 2005/AC:2005 **Harmonic Current Emissions:** EN 61000-3-2: 2006 + A1: 2009 + A2: 2009 (Class B) **Voltage Fluctuation and Flicker:** EN 61000-3-3: 2013 **Medical Electrical Equipment:** EN 60601-1-2: 2007/AC: 2010, IEC 60601-1-2: 2007 (Modified) **Radio Frequency Devices:** 47 CFR Part 15, Subpart B, Class B **Digital Apparatus:** ICES-003 Issue 5, Class B

DS3608-SR/DS3678-SR Specifications (continued)

DATACAPTURE DNA

PRODUCTIVITY TOOLS

- PRZM Intelligent Imaging
- Multi-code Data Formatting
- Preferred Symbol
- Wi-Fi™ Friendly Mode

MANAGEMENT TOOLS

- 123Scan
- Remote Management
- PowerPrecision+

VISIBILITY TOOLS

- Remote Diagnostics
- ScanSpeed Analytics

DEVELOPMENT TOOLS

- Scanner Control Application
- Software Development Kit
- Scan-to-Connect

For more information about DataCapture DNA and its applications, please visit www.zebra.com/datacapturedna

DECODE RANGES

Symbology/Resolution	Near/Far
Code 128: 5 mil	1.3-6.7 in./3.3-17 cm
Code 128: 20 mil	2.8-28.0 in./7.1-71.1 cm
Code 128: 40 mil	1.7-60 in./4.4-152.4 cm
Datamatrix: 7.5 mil	1.9-6.0 in./ 4.8-15.2 cm
Datamatrix: 10.0 mil	1.4-8.6 in./3.5-21.8 cm

WARRANTY

Subject to the terms of Zebra's hardware warranty statement, the DS3608-SR/DS3678-SR is warranted against defects in workmanship and materials for a period of: Scanner and Cradle: thirty-six (36) months, Battery twelve (12) months from the date of shipment. For complete warranty statement, go to: http://www.zebra.com/warranty

RECOMMENDED SERVICES

Zebra *OneCare* Select; Zebra *OneCare* Essential

* Dependent upon barcode size and symbology.
** Heated scanner holder accessory recommended to reduce condensation on the outside of scan window when moving in and out of freezers.
*** Refer to Product Reference Guide for complete list of symbologies.

NA and Corporate Headquarters
+1 800 423 0442
inquiry4@zebra.com

Asia-Pacific Headquarters
+65 6858 0722
contact.apac@zebra.com

EMEA Headquarters
zebra.com/locations
contact.emea@zebra.com

Latin America Headquarters
+1 847 955 2283
la.contactme@zebra.com

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