



DS8100 Series Handheld Imagers

THE ULTIMATE IN PERFORMANCE, INNOVATION AND MANAGEABILITY

As a retailer, you know the checkout experience is crucial — it's the last chance to leave your shoppers with a good impression. The quality of the checkout experience is heavily dependent upon the performance of the scanner you choose. If cashiers need to scan barcodes multiple times or enter unreadable barcodes manually, your checkout lanes can back up quickly, translating into long lines and long wait times. Cashiers are then forced to focus on ringing up merchandise instead of providing shoppers with a great in-store experience. Now, give every shopper the ultimate last impression with the DS8100 Series handheld imager, only from Zebra. The DS8100 Series rises above the conventional imagers to deliver unprecedented scanning performance on 1D and 2D barcodes, innovative productivity enhancing tools and unrivaled manageability to keep your checkout lines moving and your cashiers free to deliver a more personal checkout experience. The DS8100 Series — because when it comes to the checkout experience, only the best will do.



UNPRECEDENTED PERFORMANCE

Unparalleled Performance on Virtually Every Barcode in Any Condition

Only the DS8100 Series combines the power of an 800 MHz microprocessor, a high-resolution megapixel sensor and Zebra's exclusive PRZM technology. With this unique combination of hardware and advanced algorithms, the DS8100 Series instantly captures the most problematic barcodes — including dense, poorly printed, crinkled, faded, distorted, dirty or damaged, as well as electronic barcodes on dimly lit displays.

Superior Scan Range

A scanning range up to 24 in./61 cm, a high resolution imaging sensor and a bright "aiming spot" improve checkout speed. Now, cashiers in busy checkout environments can easily scan items in a customer's shopping cart — without leaving the cash-wrap.

Power to Scan Continuously for 24 Hours

No matter how busy your store is, with Zebra's exclusive PowerPrecision+ smart battery in the cordless DS8178, your workers will always have the power they need for the busiest shift. Your devices are always available — no need for charging during the business day.

INNOVATION BEYOND THE BARCODE

PRZM Intelligent Imaging

Only from Zebra, PRZM features reset the bar for imaging performance. Poor images are turned into instantly useful images for faster decoding. PRZM then handles some of the processing typically handled in the decoder to reduce power usage, improve battery cycle times and further increase decoding speed.

Support for the Barcode of the Future — Digimarc®*

The DS8100 Series supports Digimarc digital watermark technology, which enables a barcode to be printed repeatedly over all surfaces of a product like wallpaper — yet remain completely invisible to the naked eye. Cashiers no longer need to locate and position a barcode in the field of view of the imager, enabling faster checkout and easier self-checkout.

Capture Multiple Barcodes with One Press of the Scan Trigger

Multi-code Data Formatting (MDF) provides the ability to capture multiple barcodes and transmit only those required in the precise order the application requires.

SPECIFICATION SHEET

DS8100 SERIES CORDED AND CORDLESS 1D/2D IMAGERS

Exclusive Battery Charge Gauge

No more guess work on the status of a battery at the start of a shift. The DS8178 is the only scanner in its class that makes it easy to see at a glance whether a battery needs to be replaced before the scanner is placed into service.

Eliminate Bluetooth Interference with Zebra's Proprietary Wi-Fi Friendly Mode

Ensure that your DS8178 Bluetooth scanners only operate on channels that are not shared with your wireless LAN (WLAN), protecting WLAN service levels for your workers and your customers.

Instantly Capture Full Page Documents

The DS8100 Series is the only device in its class that can capture a full page document. With a single press of the scan trigger, Zebra's Intelligent Document Capture and the high-resolution 1280 x 960 camera work together to capture a high-resolution image of a full page 8.5 x 11 or A4 document, and transmit the data in the right format for electronic storage — eliminating the cost and space requirements for a document scanner.

Capture Drivers License Data (DL version required)

With one press of the scan trigger, cashiers can capture and parse data on drivers licenses to automatically populate a loyalty or credit card application, verify age for age-restricted purchases and more.

Direct Decode Indicator Improves Productivity

Since the illumination on the barcode flashes to indicate a good decode, workers never need to pause to make sure a barcode was captured correctly.

UNRIVALED MANAGEABILITY

Visionary Visibility into Scanning and Battery Performance Metrics — only from Zebra

With detailed scanning performance metrics that include speed and type of barcode for every barcode scanned, it's easy to spot and correct barcode issues before

they impact worker productivity and the quality of customer service. And with a wealth of battery health information, including charge cycles consumed, a State-of-Health meter and full charge capacity, you can easily spot and replace aging batteries before they can no longer last a full shift. Armed with this information, you can order and install new batteries before battery failures interrupt front end operations and cause checkout delays.

Control Your Scanners from a Smartphone, Tablet or PC

With this easy-to-use application, you can: control your imager's beeper, vibration and LED to set user alerts; display scanned barcode data; access model and serial number; and access battery statistics and more from Android, iOS and Windows smartphones, tablets and PCs.

Easily Manage All of Your Scanners with Powerful Complimentary Tools

With 123Scan, you can easily create configuration barcodes to program scanners. If your imagers are in multiple locations across the country or around the world, with Scanner Management Service (SMS), you can configure and update the firmware for any DS8100 Series device that is plugged into the host — no depot staging or user action is required — such as the scanning of a configuration barcode.

Easy Application Development

Get everything you need to easily integrate scanning into your business applications with our Scanner Software Development Kits (SDKs) for Windows, Android, iOS and Linux. These SDKs provide documentation, drivers, test utilities and sample source code.

Put the DS8100 Series to work in:

Retail

- Point-of-Sale (POS)
- Loyalty applications
- Electronic coupon redemption
- Backroom receiving
- Inventory management

Hospitality

- Check-in
- Ticketing (concerts, sporting events and more)
- Loyalty cards

Transportation & Logistics

- Shipping and receiving
- Picking
- Product tracking
- Ticketing (airports, train and bus terminals)
- Postal

Light/Clean

Manufacturing

- Product and component tracking
- Work-in-Process (WIP)

Government

- Lottery and gaming
- Administration
- Banking

THE DS8100 SERIES — WHEN YOUR BUSINESS DEMANDS THE ULTIMATE IN PERFORMANCE, WORKFORCE PRODUCTIVITY AND CUSTOMER SERVICE.


For more information, visit www.zebra.com/ds8100 or access our global contact directory at www.zebra.com/contact

SPECIFICATION SHEET

DS8100 SERIES CORDED AND CORDLESS 1D/2D IMAGERS

DS8100 Series Specifications

PHYSICAL CHARACTERISTICS	
Dimensions	Corded DS8108 and Cordless DS8178: 6.6 in. H x 2.6 in. W x 4.2 in. D 16.8 cm. H x 6.6 cm. W x 10.7 cm. D Standard Cradle: 2.8 in. H x 3.3 in. W x 8.3 in. D 7.1 cm. H x 8.4 cm. W x 21.1 cm. D Presentation Cradle: 2.9 in. H x 3.7 in. W x 4.8 in. D 7.4 cm. H x 9.4 cm. W x 12.2 cm. D
Weight	Corded DS8108: 5.4 oz./154 g Cordless DS8178: 8.3 oz./235.3 g Desk/Wall Cradle: 7.1 oz./202 g Presentation Cradle: 6.5 oz./182 g
Input Voltage Range	DS8108: 4.5 to 5.5VDC DS8178 Cradles: 5V: 4.7 to 5.5VDC; 12V: 10.8 to 13.2VDC
Current¹	Corded DS8108 Operating Current at Nominal Voltage (5.0V): 450 mA Cradle: 470 mA (typical) Standard USB; 743mA (typical) 12V
Color	Nova White, Twilight Black
Supported Host Interfaces	USB, RS232, Keyboard Wedge, TGCS (IBM) 46XX over RS485
Keyboard Support	Supports over 90 International keyboards.
FIPS Security Certification	Certified Compliant with FIPS 140-2
User Indicators	Direct Decode Indicator, Good Decode LEDs, Rear View LEDs, Beeper (Adjustable Tone & Volume), Battery Indicator
PERFORMANCE CHARACTERISTICS	
Light Source	Aiming Pattern: Circular 617nm Amber LED
Illumination	(2) 645nm Red LEDs
Imager Field of View	48° H x 37° V Nominal
Image Sensor	1,280 x 960 pixels
Minimum Print Contrast	16% minimum reflective difference
Skew/Pitch Roll Tolerance	+/- 60°; +/- 60°; 0-360°
IMAGING CHARACTERISTICS	
Graphics Format Support	Images can be exported as Bitmap, JPEG or TIFF
Image Quality	109 PPI on an A4 document
Minimum Element Resolution	Code 39 - 3.0 mil; Code 128 - 3.0 mil; Data Matrix - 6.0 mil; QR Code - 6.0 mil; PDF - 5.0 mil
USER ENVIRONMENT	
Operating Temperature	32° to 122° F/0° to 50° C
Charging Temperature	32° to 104° F/0° to 40° C
Storage Temperature	-40° to 158° F/-40° to 70° C

USER ENVIRONMENT (CONTINUED)	
Humidity	5% to 95% RH, non-condensing
Drop Specification	Designed to withstand multiple drops at 6.0 ft./1.8 m to concrete
Tumble Specification	Designed to withstand 2,000 tumbles in 1.5 ft./0.5 m tumbler ²
Environmental Sealing	IP42
Electrostatic Discharge (ESD)	DS8108/DS8178 and Cradles: ESD per EN61000-4-2, +/-15 KV Air, +/-8 KV Direct, +/-8 KV Indirect
Ambient Light Immunity	0 to 9,000 Foot Candles/0 to 96,840 Lux
RADIO SPECIFICATIONS	
Bluetooth Radio	Standard Bluetooth Version 4.0 with BLE: Class 1 330 ft. (100m) and Class 2 33 ft. (10m), Serial Port and HID Profiles
Adjustable Bluetooth Power	Class 1: Output power adjustable down from 4 dBm in 8 Steps Class 2: Output power adjustable down from 2 dBm in 8 Steps
BATTERY	
Battery Capacity/ Battery Type	 2,500 mAh Li-Ion Power Precision+ Battery
Scans Per Battery Charge	65,000 (1 scan per second)
Operating Time Per Full Charge³	83 hours
Typical Charge Time from Empty to Full Charge	
Power Source	Desk/Wall Cradle Presentation Cradle
Standard USB	7 hrs 45 min 9 hrs 15 min
BC1.2 USB	3 hrs 3 hrs 15 min
External 5V Source	4 hrs 30 min 5 hrs
External 12V Source	2 hrs 15 min 2 hrs 15 min
REGULATORY	
Electrical Safety	EN 60950-1 2ed + A11 + A1 + A12 + A2:2013, IEC 60950-1 2ed + A1 + A2, UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07
Environmental	RoHS EN 50581
LED Safety	IEC 62471
IT Emissions	EN 55022 (Class B); EN 55032 (Class B)
IT Immunity	EN 55024
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuation and Flicker	EN 61000-3-3
Radio Frequency Devices	47 CFR Part 15, Subpart B, Class B
Digital Apparatus	ICES-003 Issue 6, Class B
ACCESSORIES	
Standard Cradle, Presentation Cradle, Wall Mount Bracket, Spare Battery, Document Capture Stands	

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SPECIFICATION SHEET

DS8100 SERIES CORDED AND CORDLESS 1D/2D IMAGERS

DS8100 Series Specifications (continued)

DECODE CAPABILITIES ⁴	
1D	Code 39, Code 128, Code 93, Codabar/NW7, Code 11, MSI Plessey, UPC/EAN, 1 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
Digimarc	Digital watermark technology, available April 2017
WARRANTY	
Subject to the terms of Zebra's hardware warranty statement, the DS8178 Scanner and CR8178 Cradle are warranted against defects in workmanship and materials for a period of (3) three years from the date of shipment. The Battery: (12) twelve months and the DS8108 Scanner is warranted against defects in workmanship and materials for a period of (5) five years from the date of shipment. Complete Zebra hardware product warranty statement: www.zebra.com/warranty	
RECOMMENDED SERVICES	
Zebra OneCare Select; Zebra OneCare Essential	
UTILITIES AND MANAGEMENT	
123Scan	Programs scanner parameters, upgrades firmware, displays scanned barcode data, scanning statistics, battery health, asset data and prints reports. www.zebra.com/123scan
Symbol Scanner SDK	Generates a fully-featured scanner application, including documentation, drivers, test utilities and sample source code. www.zebra.com/scannersdkforwindows
Scanner Management Service (SMS)	Remotely manages your Zebra scanner and queries its asset information. www.zebra.com/sms

DECODE RANGES (TYPICAL) ⁵			
SYMBOLGY	RESOLUTION	NEAR	FAR
Code 39	3 mil	2.2 in./5.6 cm.	5.0 in./12.7 cm.
Code 39	20 mil	.0 in./0 cm.	36.8 in./93.5 cm.
Code 128	3 mil	2.6 in./6.6 cm.	4.5 in./11.4 cm.
Code 128	5 mil	1.6 in./4.1 cm.	8.4 in./21.3 cm.
Code 128	15 mil	.0 in./0 cm.	27.1 in./68.8 cm.
PDF 417	5 mil	2.3 in./5.8 cm.	6.4 in./16.3 cm.
PDF 417	6.7 mil	1.8 in./4.6 cm.	8.5 in./21.6 cm.
UPC	13 mil (100%)	.0 in./0 cm.	24.0 in./61.0 cm.
Data Matrix	7.5 mil	2.1 in./5.3 cm.	6.9 in./17.5 cm.
Data Matrix	10 mil	1.1 in./2.8 cm.	9.9 in./25.1 cm.
QR	20 mil	.1 in./3 cm.	17.6 in./44.7 cm.

¹ Refer to Product Reference Guide for currents when other power sources are used.

² Note: 1 tumble = 0.5 cycle.

³ Simulated Checkout profile of XX scans in XX seconds with a XX second rest.

⁴ Refer to Product Reference Guide for complete list of symbologies.

⁵ Printing resolution, contrast, and ambient light dependent.

* Available April 2017



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SPECIFICATION SHEET

ZEBRA 3600 ULTRA-RUGGED SERIES:
DS3608-SR/DS3678-SR CORDED AND CORDLESS STANDARD RANGE 2D IMAGER



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 in a class of its own, with a complete solution that includes 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. The DS3608-SR/DS3678-SR is built

to survive an 8 ft./2.4 m drop to concrete — 23 percent more durable than any other scanner in this class. 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 waterproofed to IP67 — they can be sprayed down with jetting water and even submerged in water for up to 30 minutes.

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 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 often 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 56 percent more scans-per-charge compared to competitive models, plus 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.

Faster pick-list processing

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


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

SPECIFICATION SHEET

ZEBRA 3600 ULTRA-RUGGED SERIES:
DS3608-SR/DS3678-SR CORDED AND CORDLESS STANDARD RANGE 2D IMAGER

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: 10.8 oz./305 g; Cordless: 14.4 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): 340 mA (typical)
Standby Current	DS3608-SR (corded): 100 mA (typical)
Color	Industrial Green
Supported Host Interfaces	USB, RS232, Keyboard Wedge
Battery	 PowerPrecision+ 3100 mAh Li-Ion rechargeable battery
User Indicators	Direct decode indicator; LEDs; beeper; vibration
PERFORMANCE CHARACTERISTICS	
Scans per Full Charge	70,000+
Illumination	One (1) Hyper Red 660nm 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, 12 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
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% condensing
Drop Specification	Withstands multiple 8.0 ft. / 2.4 m drops to concrete
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	
123Scan²	Programs scanner parameters, upgrades firmware, provides scanned barcode data and prints reports. For more information, visit www.zebra.com/123Scan

* Dependent upon barcode size and symbology.
** Heated scanner holder accessory required for use in freezers.
*** Refer to Product Reference Guide for complete list of symbologies.

UTILITIES AND MAINTENANCE (CONTINUED)	
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
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: Up to 300 ft. (100.0 m) Class 2: Up to 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

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 three (3) years from the date of shipment. For complete warranty statement, go to: <http://www.zebra.com/warranty>

RECOMMENDED SERVICES
Zebra OneCare Select; Zebra OneCare Essential

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./71-71.1 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

The Zebra 3600 Ultra-Rugged Scanner Series

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

- **LI3608/LI3678:** 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



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FACT SHEET

ZEBRA 3600 ULTRA-RUGGED SERIES:
DS3608-ER/DS3678-ER CORDED AND CORDLESS EXTENDED RANGE 2D IMAGER



DS3608-ER/DS3678-ER Ultra-Rugged Scanner

UNSTOPPABLE PERFORMANCE FOR EXTENDED RANGE 1D/2D BARCODE SCANNING

Every day, workers in your warehouse scan thousands of barcodes to ensure order accuracy and on-time delivery. Their productivity depends on the quality of the scanner you put in their hands. If your workers need to capture 1D and 2D barcodes near and far, with the corded DS3608-ER and cordless DS3678-ER 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 displayed on a screen or printed on a label in virtually any condition, nearer and farther than any scanner in this class — from 3 in./7.6 cm to as far as 70 ft./21.4 m away. The ultra-rugged design is practically indestructible — ideal for punishing environments. The DS3608-ER/DS3678-ER couldn't be easier and less time-consuming to deploy and manage. And when it comes to cordless technology, the DS3678-ER is in a class of its own. The DS3608-ER/DS3678-ER — the unstoppable performance you need to maximize workforce productivity and throughput in your operations.



Superior scanning range

The advanced imager reads 1D and 2D barcodes printed on a label up to 60 percent closer and 35 percent farther than similar models in this class, with an extraordinary scanning range from 3 in. to 70 ft. (7.6 cm to 21.4 m). Now, one scanner can easily read barcodes on a picklist in hand and on the uppermost shelves of your warehouse racks, as well as extra-wide codes just a hands-length 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-ER/DS3678-ER is our most rugged scanner yet, with the highest drop, tumble and sealing specification in its class. The DS3608-ER/DS3678-ER 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-ER/DS3678-ER operates reliably after 5,000 tumbles, simulating the real-world tumbling that occurs with a drop. Both models are dust proof, spray proof and waterproofed to IP67 — they can be sprayed down with jetting water and even submerged in water for up to 30 minutes.

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 123Scan² 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 barcodes are processed.

Faster pick-list processing

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

Ready for the freezer

The DS3608-ER and DS3678-ER are built from the ground up to handle extreme cold. Their unique plastics, cables and

components are designed to handle freezing temperatures without becoming brittle — making these scanners ideal for use in freezers and outdoor yards.¹

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 often create in your Wi-Fi environment.

The *'go anywhere'* rugged cradle offers superior versatility and durability. The DS3678-ER is the only scanner in its family to offer a cradle with 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 50 percent more battery capacity compared to competitive models, plus 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 or ready for retirement.


THE DS3608-ER/DS3678-ER — GIVE YOUR WORKERS SINGLE SCANNER SIMPLICITY FOR NEAR AND FAR BARCODE CAPTURE WITH THE ULTRA-RUGGED SCANNER THAT REDEFINES RELIABILITY.

FOR MORE INFORMATION, VISIT WWW.ZEBRA.COM/DS36X8-ER OR ACCESS OUR GLOBAL CONTACT DIRECTORY AT WWW.ZEBRA.COM/CONTACT

FACT SHEET

ZEBRA 3600 ULTRA-RUGGED SERIES:
DS3608-ER/DS3678-ER CORDED AND CORDLESS EXTENDED RANGE 2D IMAGER

DS3608-ER/DS3678-ER 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 7.7 cm W x 14.2 cm D
Weight	Corded: 11.8 oz. / 334 g; Cordless: 15.38 oz./436 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-ER (corded): Near: ~320mA Typical; Far: ~700mA Typical
Standby Current	DS3608-ER (corded): 120 mA (typical)
Color	Industrial Green
Supported Host Interfaces	USB, RS232, Keyboard Wedge
Battery	 PowerPrecision+ 3100 mAh Li-Ion rechargeable battery
User Indicators	Direct decode indicator; LEDs; beeper; vibration
PERFORMANCE CHARACTERISTICS	
Scans per Full Charge	70,000+
Illumination	One 660 nm LED
Imager Field of View	Near: 32° (H) x 20° (V); Far: 12° (H) x 7.6° (V)
Image Sensor	1,280 x 800 (1 Megapixel)
Minimum Print Contrast	25% minimum reflective difference
Skew/Pitch/Roll	Skew: ± 60°; Pitch: ± 60°; Roll: ± 360°
DECODE CAPABILITIES ²	
1D	Code 39, Code 128, Code 93, Codabar/NW7, Code 11, MSI Plessey, UPC/EAN, 1 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
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% condensing
Drop Specification	Withstands multiple 8.0 ft. / 2.4 m drops to concrete
Tumble Specification	5000 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
Ambient Light Immunity	0 to 10,000 Foot Candles/0 to 107639Lux (direct sunlight)
UTILITIES AND MAINTENANCE	
123Scan²	Programs scanner parameters, upgrades firmware, provides scanned barcode data and prints reports. For more information, visit www.zebra.com/123Scan

UTILITIES AND MAINTENANCE (CONTINUED)	
Scanner SDK	Generates a fully-featured scanner application, including documentation, drivers, test utilities and sample source code.
Scanner Management Service (SMS)	Remotely manages your Zebra scanner and queries its asset information.
WIRELESS CONNECTIVITY	
Bluetooth Radio	Bluetooth Class 1, Version 4.0 (LE), serial port (SPP) 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 50587: 2012
Electrical Safety	EU Safety: EN 60950-1: 2006 + A1: 2009 + A2: 2010 + A12: 2011 + AC 2011 + A2: 2013; International Safety: IEC 60950-1: 2005 + A2: 2009 + A2: 2013; US/Canada Safety: UL 60950-1, second edition, CAN/CSA-C22.2 No. 60950-1-07
Laser/LED Safety	Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice NO. 50, dated June 24, 2007 and IEC/EN 60825-1:2007 and/or IEC/EN 60825-1:2014
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 + A2: 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
WARRANTY	
Subject to the terms of Zebra's hardware warranty statement, the DS3608-ER/DS3678-ER is warranted against defects in workmanship and materials for a period of three (3) years from the date of shipment. For complete warranty statement, go to: http://www.zebra.com/warranty	
RECOMMENDED SERVICES	
Zebra OneCare Select; Zebra OneCare Essential	
DECODE RANGES	
Symbology/Resolution	Near/Far
Code 128: 15 mil	5.0-100.0 in./12.7-254.0 cm
Code 128: 40 mil	3.5-260.0 in./8.9-660.4 cm
Code 128: 100 mil	20-840.0 in./50.8-2133.6 cm
Data Matrix: 10 mil	4.0-44 in./10.1 - 111.76 cm
Data Matrix: 200 mil	10-500 in./25.4-1270.0 cm
1. Heated scanner holder accessory required for use in freezers. 2. Refer to Product Reference Guide for complete list of symbologies.	

The Zebra 3600 Ultra-Rugged Scanner Series

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

- **LI3608/LI3678:** 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



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