

## 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 submersed 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<sup>2</sup> 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.<sup>1</sup>

### 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](http://WWW.ZEBRA.COM/DS36X8-ER) OR ACCESS OUR GLOBAL CONTACT DIRECTORY AT [WWW.ZEBRA.COM/CONTACT](http://WWW.ZEBRA.COM/CONTACT)

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# DS3608-ER/DS3678-ER Specifications Chart

PHYSICAL CHARACTERISTICS	
<b>Dimensions</b>	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
<b>Weight</b>	Corded: 11.8 oz. / 334 g; Cordless: 15.38 oz./436 g
<b>Input Voltage Range</b>	Host powered: 4.5 VDC min., 5.5 VDC max. External power supply: 11.4 VDC min., 12.6 VDC max.
<b>Operating Current</b>	DS3608-ER (corded): Near: ~320mA Typical; Far: ~700mA Typical
<b>Standby Current</b>	DS3608-ER (corded): 120 mA (typical)
<b>Color</b>	Industrial Green
<b>Supported Host Interfaces</b>	USB, RS232, Keyboard Wedge
<b>Battery</b>	 PowerPrecision+ 3100 mAh Li-Ion rechargeable battery
<b>User Indicators</b>	Direct decode indicator; LEDs; beeper; vibration
PERFORMANCE CHARACTERISTICS	
<b>Scans per Full Charge</b>	70,000+
<b>Illumination</b>	One 660 nm LED
<b>Imager Field of View</b>	Near: 32° (H) x 20° (V); Far: 12° (H) x 7.6° (V)
<b>Image Sensor</b>	1,280 x 800 (1 Megapixel)
<b>Minimum Print Contrast</b>	25% minimum reflective difference
<b>Skew/Pitch/Roll</b>	Skew: ± 60°; Pitch: ± 60°; Roll: ± 360°
DECODE CAPABILITIES <sup>2</sup>	
<b>1D</b>	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)
<b>2D</b>	PDF417, Micro PDF417, Composite Codes, TLC-39, Aztec, DataMatrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Codes
USER ENVIRONMENT	
<b>Operating Temp.</b>	Corded: -22° F to 122° F/-30° C to 50° C Cordless: -4° F to 122° F/-20° C to 50° C
<b>Storage Temp.</b>	-40° F to 158° F/-40° C to 70° C
<b>Humidity</b>	5% to 95% condensing
<b>Drop Specification</b>	Withstands multiple 8.0 ft. / 2.4 m drops to concrete
<b>Tumble Specification</b>	5000 tumbles @ 3.3 ft. (1 m)
<b>Sealing</b>	Scanner: IP65 and IP67; FLB cradle: IP65
<b>ESD</b>	Per EN61000-4-2, ±25 KV air discharge, ±10 KV direct discharge, ±10 KV indirect discharge
<b>Ambient Light Immunity</b>	0 to 10,000 Foot Candles/0 to 107639Lux (direct sunlight)
UTILITIES AND MAINTENANCE	
<b>123Scan<sup>2</sup></b>	Programs scanner parameters, upgrades firmware, provides scanned barcode data and prints reports. For more information, visit <a href="http://www.zebra.com/123Scan">www.zebra.com/123Scan</a>

UTILITIES AND MAINTENANCE (CONTINUED)	
<b>Scanner SDK</b>	Generates a fully-featured scanner application, including documentation, drivers, test utilities and sample source code.
<b>Scanner Management Service (SMS)</b>	Remotely manages your Zebra scanner and queries its asset information.
WIRELESS CONNECTIVITY	
<b>Bluetooth Radio</b>	Bluetooth Class 1, Version 4.0 (LE), serial port (SPP) and HID profiles
<b>Data Rate</b>	3 Mbit/s (2.1 Mbit/s) for Classic Bluetooth 1 Mbit/s (0.27 Mbit/s) for Low Energy
<b>Radio Range</b>	Direct line of sight in open air : Class 1: Minimum 300 ft. (100.0 m); Class 2: Minimum 30 ft. (10.0 m)
REGULATORY	
<b>Environmental</b>	RoHS EN 50581: 2012
<b>Electrical Safety</b>	<b>EU Safety:</b> EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + AC 2011 + A2: 2013; <b>International Safety:</b> IEC 60950-1: 2005 + A1: 2009 + A2: 2013 <b>US/Canada Safety:</b> UL 60950-1, second edition, CAN/CSA-C22.2 No. 60950-1-07
<b>Laser/LED Safety</b>	Complies with 21 CFR1040.10 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
<b>EMI/RFI</b>	<b>IT Emissions:</b> EN 55022: 2010/AC: 2011 (Class B); <b>IT Immunity:</b> EN 55024: 2010; <b>Heavy Industrial:</b> EN 61000-6-2: 2005/AC:2005; <b>Harmonic Current Emissions:</b> EN 61000-3-2: 2006 + A1: 2009 + A2: 2009 (Class B); <b>Voltage Fluctuation and Flicker:</b> EN 61000-3-3: 2013; <b>Medical Electrical Equipment:</b> EN 60601-1-2: 2007/AC: 2010, IEC 60601-1-2: 2007 (Modified); <b>Radio Frequency Devices:</b> 47 CFR Part 15, Subpart B, Class B <b>Digital Apparatus:</b> 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
<b>Code 128: 15 mil</b>	<b>5.0-100.0 in./12.7-254.0 cm</b>
<b>Code 128: 40 mil</b>	<b>3.5-260.0 in./8.9-660.4 cm</b>
<b>Code 128: 100 mil</b>	<b>20-840.0 in./50.8-2133.6 cm</b>
<b>Data Matrix: 10 mil</b>	<b>4.0-44 in./50.8 - 1778.0 cm</b>
<b>Data Matrix: 200 mil</b>	<b>10-500 in./25.4-1270.0 cm</b>

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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