

SPECIFICATION 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 loaded with Zebra-only features that put it 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 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 barcodes are processed.

Faster pick-list processing

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

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.*

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-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 more than nine times the amount of scans per charge than with competitive models in this product class — more than 70,000 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 or ready for retirement.

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Support for the Barcode of the Future — Digimarc®

DS3608-ER/DS3678-ER 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.

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-ER/DS3678-ER 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, DataCapture 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-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

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DS3608-ER/DS3678-ER Specifications Chart













PHYSICAL CHARACTERISTICS		USER ENVIRONMENT (CONTINUED)	
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	Drop Specification	Withstands multiple 8.0 ft. /2.4 m drops to concrete
Weight	Corded: 11.8 oz./334 g Cordless: 15.38 oz./436 g	Tumble Specification	5000 tumbles @ 3.3 ft. (1 m)
Input Voltage Range	Host powered: 4.5 VDC min., 5.5 VDC max. External power supply: 11.4 VDC min., 12.6 VDC max.	Sealing	Scanner: IP65 and IP67 FLB cradle: IP65
Operating Current	DS3608-ER (corded): Near: 360mA (RMS typical) Far: 800mA (RMS typical) DS3608-ER (corded, in 500mA Compatibility Mode): Near: 245mA (RMS typical) Far: 410mA (RMS typical)	ESD	Per EN61000-4-2, ±25 KV air discharge, ±10 KV direct discharge, ±10 KV indirect discharge
Standby Current	DS3608-ER (corded): 100 mA (RMS typical)	Ambient Light Immunity	0 to 10,000 Foot Candles/0 to 107639 Lux (direct sunlight)
Color	Industrial Green	UTILITIES AND MAINTENANCE	
Supported Host Interfaces	USB, RS232, Keyboard Wedge Industrial Ethernet: EtherNet/IP, Profinet, Modbus TCP & Std TCP/IP	123Scan	Programs scanner parameters, upgrades firmware, provides scanned barcode data and prints reports. For more information, visit www.zebra.com/123scan
Battery	 PowerPrecision+ 3100 mAh Li-Ion rechargeable battery	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
User Indicators	Direct decode indicator; LEDs; beeper; vibration	Scanner Management Service (SMS)	Remotely manages your Zebra scanner and queries its asset information. For more information, visit www.zebra.com/sms
PERFORMANCE CHARACTERISTICS		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
Scans per Full Charge	70,000+	WIRELESS CONNECTIVITY	
Image Capture	Basic	Bluetooth Radio	Bluetooth Class 1, Version 4.0 (LE), serial port (SPP) and HID profiles
Aimer	655 nm laser	Data Rate	3 Mbit/s (2.1 Mbit/s) for Classic Bluetooth 1 Mbit/s (0.27 Mbit/s) for Low Energy
Illumination	One 660 nm LED	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)
Imager Field of View	Near: 32° (H) x 20° (V); Far: 12° (H) x 7.6° (V)	REGULATORY	
Image Sensor	1,280 x 800 (1 Megapixel)	Environmental	RoHS EN 50581: 2012
Minimum Print Contrast	25% minimum reflective difference	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
Skew/Pitch/Roll	Skew: ± 60° Pitch: ± 60° Roll: ± 360°	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
DECODE CAPABILITIES**		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
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)	USER ENVIRONMENT	
2D	PDF417, Micro PDF417, Composite Codes, TLC-39, Aztec, DataMatrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Codes, DotCode	Operating Temp.	Corded: -22° F to 122° F/-30° C to 50° C Cordless: -4° F to 122° F/-20° C to 50° C
Digimarc	Digital watermark technology	Storage Temp.	-40° F to 158° F/-40° C to 70° C
IUID Support	Supports IUID parsing, the ability to read and separate IUID fields per application requirements	Humidity	5% to 95% non-condensing

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DS3608-ER/DS3678-ER Specifications (continued)

DATACAPTURE DNA		DECODE RANGES	
PRODUCTIVITY TOOLS		Symbology/Resolution	Near/Far
 PRZM Intelligent Imaging	 Multi-code Data Formatting	Code 128: 15 mil	5.0-100.0 in./12.7-254.0 cm
 Wi-Fi™ Friendly Mode	 Preferred Symbol	Code 128: 40 mil	3.5-260.0 in./8.9-660.4 cm
MANAGEMENT TOOLS		Code 128: 100 mil	20-840.0 in./50.8-2133.6 cm
 123Scan	 Remote Management	Data Matrix: 10 mil	4.0-44 in./10.1 - 111.76 cm
 PowerPrecision+		Data Matrix: 200 mil	10-500 in./25.4-1270.0 cm
VISIBILITY TOOLS		WARRANTY	
 Remote Diagnostics	 ScanSpeed Analytics	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: 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	
DEVELOPMENT TOOLS		RECOMMENDED SERVICES	
 Scanner Control Application	 Software Development Kit	Zebra <i>OneCare</i> Select; Zebra <i>OneCare</i> Essential	
 Scan-to-Connect			
For more information about DataCapture DNA and its applications, please visit www.zebra.com/datacapturedna			

* Heated scanner holder accessory recommended to reduce condensation on the outside of the scan window when moving in and out of freezers.

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



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