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

---

### PHYSICAL CHARACTERISTICS

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

### PERFORMANCE CHARACTERISTICS

<table>
<thead>
<tr>
<th>Scans per Full Charge</th>
<th>100,000+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Capture</td>
<td>Basic</td>
</tr>
<tr>
<td>Illumination</td>
<td>One (1) 660 nm LED</td>
</tr>
<tr>
<td>Aimer</td>
<td>610 nm LED</td>
</tr>
<tr>
<td>Imagre Field of View</td>
<td>Horizontal: 42°, Vertical: 28°</td>
</tr>
<tr>
<td>Image Sensor</td>
<td>1,280 x 800 pixels</td>
</tr>
</tbody>
</table>

### DECODE CAPABILITIES***

**1D**  
  
**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

<table>
<thead>
<tr>
<th>Operating Temp.</th>
<th>Corded: -22° F to 122° F/ -30°C to 50°C</th>
<th>Cordless: -4° F to 122° F/ -20°C to 50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temp.</td>
<td>-40° F to 158° F/ -40° C to 70° C</td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td>5% to 95% non-condensing</td>
<td></td>
</tr>
<tr>
<td>Drop Specification</td>
<td>Withstands multiple 8 ft./2.4 m drops to concrete</td>
<td></td>
</tr>
</tbody>
</table>

### 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**  
  - 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  
  - Voltage Fluctuation and Flicker: EN 61000-3-3: 2008  
  - Digital Apparatus: ICES-003 Issue 5, Class B 

---

**DS3608-SR/DS3678-SR Specifications Chart**

---

---

---
### DS3608-SR/DS3678-SR Specifications (continued)

#### DECODE RANGES

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

#### 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.