# DS3600-SR Ultra-Rugged Scanner

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

The productivity of your warehouse and manufacturing workers depends on the quality of their scanners. The DS3600-SR Ultra-Rugged scanner enables reliable capture of 1D and 2D barcodes at standard ranges—from near contact to nearly 5 ft./1.5 m away. Built for your toughest environments, the DS3600-SR is virtually indestructible, including an enhanced 10 ft./3 m drop spec to concrete and dual IP65/IP68 sealing. With DataCapture DNA, Zebra's exclusive software ecosystem, you can take scanner performance far beyond the basics—simplifying every stage of the scanning experience over the life of your device. And when it comes to cordless technology, the DS3678-SR's Zebra-only features put it in a class of its own. The DS3600-SR—the unstoppable performance you need to maximize workforce productivity and throughput in your operations.

### Performs In Your Toughest Environments

**Scan it All—at Astonishing Speeds**
Workers can capture virtually any 1D or 2D barcode as fast as they can pull the trigger, whether they're in hand or as far as 5 ft./1.5 m away—faster and farther than other standard range scanners. Powered by Zebra's exclusive PRZM Intelligent Imaging technology and the highest sensor resolution in its class, the DS3600-SR instantly captures the most problematic barcodes—including barcodes that are dirty, damaged, poorly printed and under shrinkwrap.

**Ultra-Rugged—the Most Indestructible Design in its Class**
Zebra ultra-rugged scanners earned their name for a reason—you won't find a tougher family of scanners. Ready for the world's harshest environments, the DS3600-SR has the highest drop, tumble and sealing specifications in its class. It can survive 10 ft./3 m drops to concrete and 7,500 tumbles. With dual IP65/IP68 sealing, the DS3600-SR is dust proof, can handle the force of jetting water and be fully submerged in water. Built to withstand extreme heat, cold and humidity, the DS3600-SR can be used anywhere— indoor, outdoor and even in the freezer.[1]

**Ultra-Rugged Cradle and Charging Contacts Designed to Last**
The DS3600-SR is the first scanner in its class to offer a cradle with IP65 sealing. Its industrial charging contacts withstand 250,000 insertions. And Zebra's exclusive Connect+ Contact technology assures reliable, corrosion-free charging over the life of the scanner.

**Easily Capture Label Data for Better Inventory Management**
With Label Parse+, the DS3600-SR can instantly capture and parse GS1 label barcode data on items, enabling workers to easily capture a wealth of data, including expiration dates and lot number/manufacturing location.

**Read Up To 20 Barcodes with One Press of the Scan Trigger**
With Multi-Code Data Formatting (MDF), the DS3600-SR can capture multiple barcodes with a single scan and transmit only the barcodes you need, in the order your application expects.

**Faster Pick-List Processing**
Users can easily select and capture an individual barcode from any pick list.

**Flexible Feedback Modes**
Mix and match the feedback modes that best fit your environment—vibration, wraparound LEDs that are easy to see from any position, a beep tone and Zebra's Direct Decode Indicator that projects illumination on the captured barcode.

**Support for the Barcode of the Future—Digimarc®**
DS3600-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.

## Superior Cordless Technology

**More Than 100,000 Scans on a Single Charge**
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, 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.

**Battery and Bluetooth® Status At-A-Glance**
The first-in-its-class battery 'charge gauge' and Bluetooth status LED make it easy to monitor battery power as well as Bluetooth connectivity.

**Switch Workflows in an Instant with AutoConfig**
Since scanner settings are stored in the cradle base, simply pair the DS3600-SR to a different base to automatically configure it for a new host application. For example, you can take a scanner from the forklift and use it for shipping without manually changing settings.

**Keep Track of Your Scanners and Prevent Workflow Interruptions**
With Virtual Tether, you won't have to worry about a warehouse worker leaving a scanner behind on a pallet. Both the scanner and cradle will alert users when a scanner is taken beyond its Bluetooth range or left out of the cradle for a predefined length of time.

**Eliminate Bluetooth interference with Wi-Fi Friendly Mode**
Zebra's exclusive Wi-Fi Friendly Mode eliminates the wireless interference that Bluetooth devices can create in your Wi-Fi environment.

## Unrivaled Manageability

**Instantly Connect to Your Industrial Ethernet Network**
Zebra's Network Connect for Automation delivers a seamless connection between DS3600-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.

**Identify and Correct Problem Barcodes with ScanSpeed Analytics**
Only from Zebra, ScanSpeed Analytics provides detailed metrics on every barcode captured—enabling you to identify poor performing barcodes that slow down your operations.

**No-Cost Tools to Meet Your Management Needs**
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 DS3600-SR device that is plugged into the host—no depot staging or user action is required.

**Up-To-The-Minute Insight Into Every Aspect of Your Scanners**
The logging agent's Remote Diagnostics capabilities automate the recording of scanner asset information, health and statistics, configuration settings and barcode data—giving you the information needed for event verification, blockchain traceability, pilot site ROI generation, troubleshooting and predictive fleet-wide trend analysis.

# Specifications

| Physical Characteristics | |
|---|---|
| **Dimensions** | Corded: 7.3 in. H x 3.0 in. W x 5.2 in. D<br>18.5 cm H x 7.6 cm W x 13.2 cm D<br>Cordless: 7.3 in. H x 3.0 in. W x 5.6 in. D<br>18.5 cm H x 7.6 cm W x 14.2 cm D |
| **Weight** | Corded: 10.76 oz./305 g<br>Cordless: 14.34 oz./407 g |
| **Input Voltage Range** | Host powered: 4.5 VDC min., 5.5 VDC max.<br>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<br>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°<br>Pitch: ± 60°<br>Roll: ± 360° |
| **Decode Capabilities[2]** | |
| **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 |
| **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<br>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** | DS36X8: Withstands multiple 10.0 ft/3.0 m drops to concrete at room temperature<br>DS3678: Withstands multiple 8.0 ft/2.4 m drops to concrete at -20° C to 50° C<br>DS3608: Withstands multiple 8.0 ft/2.4 m drops to concrete at -30° C to 50° C |

| User Environment (continued) | |
|---|---|
| **Tumble Specification** | 7500 3.3 ft./1.0 m tumbles |
| **Sealing** | Scanner: IP65 and IP68 per applicable IEC sealing specifications<br>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<br>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) |
| **Decode Ranges (Typical)[3]** | |
| **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 |
| **Regulatory** | |
| **Environmental** | RoHS EN 50581: 2012 |
| **Electrical Safety** | EU Safety: EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + AC 2011 + A2: 2013<br>International Safety: IEC 60950-1: 2005 + A1: 2009 + A2: 2013<br>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) |

## The Zebra 3600 Ultra-Rugged Scanner Series

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

- LI3600-SR: Standard range 1D barcode capture
- LI3600-ER: Extended range 1D barcode capture
- DS3600-SR: Standard range scanning of 1D and 2D barcodes
- DS3600-HP: High-performance scanner captures 1D/2D barcodes over longer distances, plus OCR, photos and documents
- DS3600-HD: Captures high-density 1D/2D barcodes
- DS3600-DP: Capture of Direct Part Marks (DPM)
- DS3600-ER: Extended range 1D/2D barcode capture
- DS3600-DPA: Optimized to read Direct Part Marks (DPM) and wide 1D barcodes
- DS3600-KD: Versatility of a keypad and color display

| Regulatory (continued) | |
|---|---|
| **EMI/RFI** | IT Emissions: EN 55022: 2010/AC: 2011 (Class B)<br>IT Immunity: EN 55024: 2010<br>Heavy Industrial: EN 61000-6-2: 2005/AC:2005<br>Harmonic Current Emissions: EN 61000-3-2: 2006 + A1: 2009 + A2: 2009 (Class B)<br>Voltage Fluctuation and Flicker: EN 61000-3-3: 2013<br>Medical Electrical Equipment: EN 60601-1-2: 2007/AC: 2010, IEC 60601-1-2: 2007 (Modified)<br>Radio Frequency Devices: 47 CFR Part 15, Subpart B, Class B<br>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: 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

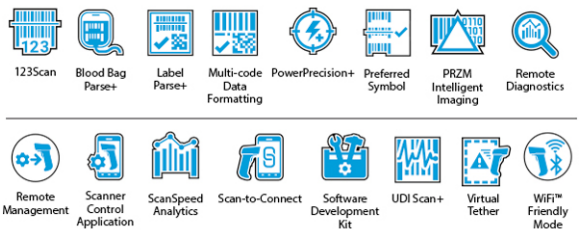
Zebra OneCare™ Select; Zebra OneCare Essential

## Footnotes

1. Heated scanner holder accessory recommended to reduce condensation on the outside of scan window when moving in and out of freezers.
2. Refer to Product Reference Guide for complete list of symbologies. Specifications are subject to change without notice.
3. Printing resolution, contrast, and ambient light dependent.

## Datacapture DNA

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

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