

## SPECIFICATION SHEET

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



ZEBRA

# 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 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.

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

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DS3608-SR/DS3678-SR CORDED AND CORDLESS STANDARD RANGE 2D IMAGER

# DS3608-SR/DS3678-SR 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 7.6 cm W x 14.2 cm D
<b>Weight</b>	Corded: 10.8 oz./305 g; Cordless: 14.4 oz./407 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-SR (corded): 340 mA (typical)
<b>Standby Current</b>	DS3608-SR (corded): 100 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 (1) Hyper Red 660nm LED
<b>Imager Field of View</b>	Horizontal: 42°, Vertical: 28°
<b>Image Sensor</b>	1,280 x 800 pixels
<b>Minimum Print Contrast</b>	15% minimum reflective difference
<b>Skew/Pitch/Roll</b>	Skew: ± 60°; Pitch: ± 60°; Roll: ± 360°
DECODE CAPABILITIES***	
<b>1D</b>	Code 39, Code 128, Code 93, Codabar/NW7, Code 11, MSI Plessey, UPC/EAN, 1 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>	5,000 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
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>

\* 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)	
<b>Scanner SDK</b>	Generates a fully-featured scanner application, including documentation, drivers, test utilities and sample source code. For more information, visit <a href="http://www.zebra.com/windowsSDK">www.zebra.com/windowsSDK</a>
<b>Scanner Management Service (SMS)</b>	Remotely manages your Zebra scanner and queries its asset information. For more information, visit <a href="http://www.zebra.com/sms">www.zebra.com/sms</a>
WIRELESS CONNECTIVITY	
<b>Bluetooth Radio</b>	Bluetooth Class 1, Version 4.0 (LE), serial port 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: Up to 300 ft. (100.0 m) Class 2: Up to 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 + A1: 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>LED Safety</b>	International LED Safety: IEC 62471: 2006 (Ed.1.0); EN 62471: 2008 (LED)
<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-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
<b>Code 128: 5 mil</b>	<b>1.3-6.7 in./3.3-17 cm</b>
<b>Code 128: 20 mil</b>	<b>2.8-28.0 in./71-711 cm</b>
<b>Code 128: 40 mil</b>	<b>1.7-60 in./4.4-152.4 cm</b>
<b>Datamatrix: 7.5 mil</b>	<b>1.9-6.0 in./ 4.8-15.2 cm</b>
<b>Datamatrix: 10.0 mil</b>	<b>1.4-8.6 in./3.5-21.8 cm</b>

**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



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# 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\*.

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

### Introducing 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

\* Heated scanner holder accessory required for use in freezers.



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ZEBRA 3600 ULTRA-RUGGED SERIES:  
DS3608-DP/DS3678-DP CORDED AND CORDLESS DPM 2D IMAGER



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# DS3608-DP/DS3678-DP Ultra-Rugged Scanner

## UNSTOPPABLE PERFORMANCE FOR 1D/2D DIRECT PART MARKS (DPM) AND BARCODES

Every day, workers on the manufacturing plant floor scan thousands of direct part marks required to protect product quality and user safety — and meet end-to-end product traceability regulations. Their productivity depends on the quality of the scanner you put in their hands. With the corded DS3608-DP and cordless DS3678-DP imagers, you can give them the best — unmatched rugged design, unmatched scanning performance and unrivaled manageability. Advanced scanning delivers lightning-fast capture of direct part marks, plus any 1D or 2D barcode printed on a label in virtually any condition. The ultra-rugged design is practically indestructible — ideal for punishing environments. The scanners couldn't be easier and less time-consuming to deploy and manage. And when it comes to cordless technology, the DS3678-DP is loaded with Zebra-only features that put it in a class of its own. The DS3608-DP/DS3678-DP — the unstoppable performance you need to maximize workforce productivity and throughput, ensure traceability, reduce production cycle times and prevent unplanned production line downtime.



### Superior scanning performance on DPM and standard 1D/2D barcodes

Comprehensive patented features enable the capture of literally every type of direct part mark (DPM) and printed 1D/2D barcode. DPM codes can be captured, regardless of size, surface, contrast or density — including the most challenging mark, dot peen, as well as laser etch, ink mark, chemical etch, inkjet mold, cast and thermal spray. The same scanner can capture barcodes printed on labels in virtually any condition — including damaged, dirty, poorly printed or under shrinkwrap. This dual functionality provides excellent value: you get one scanner you can use on the production line for end-to-end track and trace of materials — and in the warehouse from receiving to shipping.

### Ultra-rugged — the most indestructible design in its class

The DS3608-DP/DS3678-DP is our most rugged scanner yet, with the highest drop, tumble and sealing specification in its class. The DS3608-DP/DS3678-DP 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-DP/DS3678-DP 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.

### Advanced illumination system

Advanced illumination provides the multiple lighting effects required to capture marks on any type of surface — including reflective, irregular and curves as well as low and high contrast marks. The built-in diffuser provides the indirect light required to capture marks printed on very shiny and reflective surfaces. The proprietary design of the diffuser also directs additional lighting to the edges of barcodes marked on a curved surface, enhancing the image for easier decoding. Finally, a glancing direct light mode provides the bright light required to successfully read low contrast barcodes marked on any type of surface, including challenging polished materials.

### 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).

### 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-DP 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.

**THE DS3608-DP/DS3678-DP — STREAMLINE END-TO-END PRODUCT TRACEABILITY AND REDUCE PRODUCTION CYCLE TIMES WITH THE ULTRA-RUGGED SCANNER THAT REDEFINES RELIABILITY.**

FOR MORE INFORMATION, VISIT [WWW.ZEBRA.COM/DS36X8-DP](http://WWW.ZEBRA.COM/DS36X8-DP) OR ACCESS OUR GLOBAL CONTACT DIRECTORY AT [WWW.ZEBRA.COM/CONTACT](http://WWW.ZEBRA.COM/CONTACT)

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ZEBRA 3600 ULTRA-RUGGED SERIES:

DS3608-DP/DS3678-DP CORDED AND CORDLESS DPM 2D IMAGER

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**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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ZEBRA 3600 ULTRA-RUGGED SERIES:  
DS3608-HD/DS3678-HD CORDLED AND CORDLESS HIGH-DENSITY 2D IMAGER



ZEBRA

# DS3608-HD/DS3678-HD Ultra-Rugged Scanner

## UNSTOPPABLE PERFORMANCE FOR HIGH-DENSITY 1D/2D BARCODES

Every day, workers on the manufacturing plant floor scan thousands of barcodes on product components to ensure product quality. Their productivity depends on the quality of the scanner you put in their hands. When your workers need to capture the small and dense 1D and 2D barcodes common in electronics and medical equipment manufacturing, with the corded DS3608-HD and cordless DS3678-HD High Density imagers, you can give them the best — unmatched rugged design, unmatched scanning performance and unrivaled manageability. Advanced scanning delivers lightning-fast capture of any 1D or 2D barcode printed directly on product components or on labels in virtually any condition — or displayed on a screen. The ultra-rugged design is practically indestructible — ideal for punishing environments. The scanners couldn't be easier and less time-consuming to deploy and manage. And when it comes to cordless technology, the DS3678-HD is loaded with Zebra-only features that put it in a class of its own. The DS3608-HD/DS3678-HD — the unstoppable performance you need to maximize workforce productivity and throughput, improve product quality, reduce production cycle times and prevent unplanned production line downtime.



### Superior scanning performance on any high density 1D/2D barcode

This advanced imager delivers first time capture of high-density 1D and 2D barcodes printed on labels or directly on product components — including tiny and dense 3 mil codes that are barely visible to the naked eye. These scanners also capture standard printed barcodes in virtually any condition — damaged, dirty, poorly printed or under shrinkwrap. This dual functionality provides excellent value: you get one scanner you can use on the production line for end-to-end track and trace of materials — and in the warehouse from receiving to shipping.

### Ultra-rugged — the most indestructible design in its class

The DS3608-HD/DS3678-HD is our most rugged scanner yet, with the highest drop, tumble and sealing specification in its class. The DS3608-HD/DS3678-HD 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-HD/DS3678-HD 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.

### 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-HD is the only scanner in its family to offer a cradle with IP65 sealing. And its industrial charging contacts withstand 250,000 insertions.

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**THE DS3608-HD/DS3678-HD — PROTECT PRODUCT QUALITY, REDUCE PRODUCTION TIME AND PREVENT UNPLANNED PRODUCTION LINE DOWNTIME WITH THE ULTRA-RUGGED SCANNER THAT REDEFINES RELIABILITY.**

FOR MORE INFORMATION, VISIT [WWW.ZEBRA.COM/DS36X8-HD](http://WWW.ZEBRA.COM/DS36X8-HD) OR ACCESS OUR GLOBAL CONTACT DIRECTORY AT [WWW.ZEBRA.COM/CONTACT](http://WWW.ZEBRA.COM/CONTACT)

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ZEBRA 3600 ULTRA-RUGGED SERIES:  
DS3608-HD/DS3678-HD CORDED AND CORDLESS HIGH-DENSITY 2D IMAGER

# DS3608-HD/DS3678-HD 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 7.6 cm W x 14.2 cm D
<b>Weight</b>	Corded: 10.9 oz./309 g; Cordless: 14.5 oz./411 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-HD (corded): 450 mA (typical)
<b>Standby Current</b>	DS3608-HD (corded): 100 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>	Two (2) warm white light LEDs
<b>Imager Field of View</b>	Horizontal: 31°, Vertical: 23°
<b>Image Sensor</b>	1,280 x 960 pixels
<b>Minimum Print Contrast</b>	15% minimum reflective difference
<b>Skew/Pitch/Roll</b>	Skew: ± 60°; Pitch: ± 60°; Roll: ± 360°
DECODE CAPABILITIES*	
<b>1D</b>	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)
<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 10,037 Foot Candles/0 to 108,000 Lux (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. For more information, visit <a href="http://www.zebra.com/windowsSDK">www.zebra.com/windowsSDK</a>
<b>Scanner Management Service (SMS)</b>	Remotely manages your Zebra scanner and queries its asset information. For more information, visit <a href="http://www.zebra.com/sms">www.zebra.com/sms</a>
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 + A1: 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>	International LED Safety: IEC 62471: 2006 (Ed.1.0); EN 62471: 2008 (LED); UL, VDE and CU recognized laser component
<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-HD/DS3678-HD 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: <a href="http://www.zebra.com/warranty">http://www.zebra.com/warranty</a>	
RECOMMENDED SERVICES	
Zebra <i>OneCare</i> Select, Zebra <i>OneCare</i> Essential	
DECODE RANGES	
Symbology/Resolution	Near/Far
<b>Code 128: 3 mil</b>	<b>2.0-3.0 in./5.1-7.6 cm</b>
<b>Code 128: 20 mil</b>	<b>2.2-26.0 in./5.6-66.0 cm</b>
<b>Datamatrix: 10 mil</b>	<b>1.0-9.0 in./ 2.5-22.9 cm</b>
<b>PDF417: 5 mil</b>	<b>2.0-6.0 in./5.1-15.2 cm</b>

\* 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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## SPECIFICATION SHEET

ZEBRA 3600 ULTRA-RUGGED SERIES:  
DS3608-HP/DS3678-HP CORDED AND CORDLESS HIGH PERFORMANCE 2D IMAGER



ZEBRA

# DS3608-HP/DS3678-HP Ultra-Rugged Scanner

## UNSTOPPABLE PERFORMANCE ON 1D/2D BARCODES AT LONGER DISTANCES — PLUS OCR, PHOTOS AND DOCUMENTS

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 your workers need to capture 1D and 2D barcodes, OCR, photos and documents, with the corded DS3608-HP and cordless DS3678-HP High Performance imagers, you can give them the best — unmatched rugged design, unmatched scanning performance and unrivaled manageability. Advanced scanning delivers lightning-fast capture of any 1D or 2D barcode to nearly 7 ft./2.1 m away, regardless of whether it is printed on a label in virtually any condition, or displayed on a screen. The ultra-rugged design is practically indestructible — ideal for punishing environments. The scanners couldn't be easier and less time-consuming to deploy and manage. And when it comes to cordless technology, the DS3678-HP is loaded with Zebra-only features that put it in a class of its own. The DS3608-HP/DS3678-HP — 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 with 30 percent more working range than similar models in this class, delivering extraordinary productivity. Workers get first time capture of virtually every barcode, even if it is damaged, dirty, poorly printed or under shrinkwrap.

### Ultra-rugged — the most indestructible design in its class

The DS3608-HP/DS3678-HP is our most rugged scanner yet, with the highest drop, tumble and sealing specification in its class. The DS3608-HP/DS3678-HP 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-HP/DS3678-HP 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 submersed in water for up to 30 minutes.

### Beyond barcodes: capture OCR, photos and documents

With Zebra's intelligent document capture we take photos and sharpen and correct the images so they are easier to read. And support for multiple OCR fonts enables fast and easy transfer of data.

### 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.

### Extreme temperature rating

Built to handle extreme cold, heat and humidity, you can use these scanners 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-HP 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 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 or ready for retirement.

**THE DS3608-HP/DS3678-HP — ADVANCED CAPTURE OF 1D/2D BARCODES, DOCUMENTS, IMAGES AND MORE IN AN ULTRA-RUGGED SCANNER THAT REDEFINES RELIABILITY.**

FOR MORE INFORMATION, VISIT [WWW.ZEBRA.COM/DS36X8-HP](http://WWW.ZEBRA.COM/DS36X8-HP) OR ACCESS OUR GLOBAL CONTACT DIRECTORY AT [WWW.ZEBRA.COM/CONTACT](http://WWW.ZEBRA.COM/CONTACT)

**SPECIFICATION SHEET**

ZEBRA 3600 ULTRA-RUGGED SERIES:  
DS3608-HP/DS3678-HP CORDED AND CORDLESS HIGH PERFORMANCE 2D IMAGER

# DS3608-HP/DS3678-HP 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 7.6 cm W x 14.2 cm D
<b>Weight</b>	Corded: 10.9 oz./309 g; Cordless: 14.5 oz./411 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-HP (corded): 450 mA (typical)
<b>Standby Current</b>	DS3608-HP (corded): 100 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>	Two (2) warm white light LEDs
<b>Imager Field of View</b>	Horizontal: 31°, Vertical: 23°
<b>Image Sensor</b>	1,280 x 960 pixels
<b>Minimum Print Contrast</b>	15% minimum reflective difference
<b>Skew/Pitch/Roll</b>	Skew: ± 60°; Pitch: ± 60°; Roll: ± 360°
DECODE CAPABILITIES**	
<b>1D</b>	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)
<b>2D</b>	PDF417, Micro PDF417, Composite Codes, TLC-39, Aztec, DataMatrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Codes
<b>OCR</b>	OCR-A/B, MICR-E13B, US Currency Serial Number
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 10,037 Foot Candles/0 to 108,000 Lux (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. For more information, visit <a href="http://www.zebra.com/windowsSDK">www.zebra.com/windowsSDK</a>
<b>Scanner Management Service (SMS)</b>	Remotely manages your Zebra scanner and queries its asset information. For more information, visit <a href="http://www.zebra.com/sms">www.zebra.com/sms</a>
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 + A1: 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>	International LED Safety: IEC 62471: 2006 (Ed.1.0); EN 62471: 2008 (LED); UL, VDE and CU recognized laser component
<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-HP/DS3678-HP 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: <a href="http://www.zebra.com/warranty">http://www.zebra.com/warranty</a>	
RECOMMENDED SERVICES	
Zebra <i>OneCare</i> Select; Zebra <i>OneCare</i> Essential	
DECODE RANGES	
Symbology/Resolution	Near/Far
<b>Code 128: 5 mil</b>	<b>6.0-14.0 in./15.2-35.6 cm</b>
<b>Code 128: 20 mil</b>	<b>5.0-45.0 in./12.7-114.3 cm</b>
<b>Code 128: 40 mil</b>	<b>2.8-80 in./71-203.2 cm</b>
<b>Datamatrix: 7.5 mil</b>	<b>7.0-11.0 in./ 17.8-27.9 cm</b>
<b>Datamatrix: 10.0 mil</b>	<b>6.0-15.0 in./15.2-38.1 cm</b>
* Heated scanner holder accessory required for use in freezers.	
** Refer to Product Reference Guide for complete list of symbologies.	

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**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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