

**ZEBRA**

# DS2200 Series Handheld Imagers

## AFFORDABILITY AND SIMPLICITY DELIVERED

2D barcodes have made their way to your Point of Sale, appearing on everything from the items your customers are purchasing to printed and electronic coupons and loyalty cards. Your 1D scanner can't capture the new 2D codes, leading to exceptions that slow down the check-out process and frustrate customers at that key last personal touchpoint in your store. But with the DS2200 Series, you can scan it all. You get an affordable 1D/2D imager that doesn't compromise performance or features for price. Your workers get best-in-class first-time, every-time scanning with point-and-shoot simplicity. You get an imager that couldn't be easier to deploy and manage. And you can choose the model that best fits your POS needs — the corded DS2208 or the cordless DS2278.\* The DS2200 Series — the affordability your budget demands, with the deployment, ease of use and management simplicity your business requires.



### EASY TO DEPLOY

#### **Pre-configured and Ready to Use, Right Out of the Box**

Since the default settings are optimized for the majority of scanning applications, you can use the DS2200 Series imager the moment you take it out of the box — no configuration required.

#### **Auto-host Detect Cables**

Just plug the DS2200 Series into your Point of Sale (POS) and the auto-host detect cables will automatically identify the interface and connect the imager, simplifying and reducing setup time.

#### **Easy Integration with a Tablet-based POS**

The DS2200 Series offers all the features you need to add high-quality scanning to your tablet-based POS. The Micro USB cable provides a low-cost charging alternative to a cradle. And with our simplified app development tools, you can easily configure and update the DS2200 Series right from the tablet.

#### **Deploy Anywhere in the World**

With support for 97 international keyboards, the DS2200 Series is easy to deploy all around the world.

#### **Easily Customize Settings with 123Scan**

This complementary software tool is so intuitive that even a first time user can easily set up a DS2200 Series imager. The wizard-driven interface makes it easy to embed all settings into a single programming barcode, enabling you to configure your devices with a single scan.

#### **Backwards Compatible with Zebra LS2208 Series Cables**

If you use Zebra's 1D LS2208 scanners today, you can use the same universal cables with the DS2200 Series, allowing you to leverage your existing accessory investment to minimize the cost of upgrading to a 1D/2D imager.

### EASY TO USE

#### **Instant Decoding with PRZM Intelligent Imaging**

Only from Zebra, PRZM's software decode algorithms for the DS2200 Series deliver superior performance on poor quality barcodes. The result is first-time, every-time scanning to help your workers improve productivity at the checkout counter.

#### **Unsurpassed Scanning Range**

Workers can scan barcodes across a wide range (0.5 in./1.23 cm to 14.5 in./36.8 cm), improving checkout speed and reducing training time.

#### **Point-and-shoot Scanning Simplicity**

With omni-directional scanning, users never need to line up the imager and the barcode — unlike 1D scanners.

#### **Patent Pending Technology for the Most Intuitive Aiming**

The aim line is similar to the 1D scanners you have today, providing your associates with a familiar experience. Additionally, the aim line guides users to scan at the ideal distance from the barcode — especially helpful when capturing wide barcodes.

## SPECIFICATION SHEET

DS2200 SERIES CORDED AND CORDLESS 1D/2D IMAGERS

### EASY TO USE (continued)

#### Easiest Pairing on the Planet

With our industry-first Scan-to-Connect technology, your workers can pair the cordless DS2278 with any Bluetooth-enabled PC, tablet or smartphone in a single step.

#### Fast, Easy and Flexible Charging

Plug the imager directly into the host or any standard wall socket via the Micro USB cable to charge the DS2278 in just an hour. The Presentation Cradle, which provides hands-free scanning, charges the DS2278 in just four hours. The Presentation cradle charges the battery during use, so you can keep the scanner in service during charging. And since the Presentation Cradle doesn't require a separate power supply, there are fewer accessories to purchase and manage.

#### Unique Direct Decode Indicator Improves Productivity

The illumination on the barcode flashes to indicate a good decode, so workers know instantly if the barcode was captured correctly — regardless of how noisy the environment might be.

#### On-the-fly Switching Between Handheld and Hands-free Scanning

Regardless of whether your workers are using the corded DS2208 or the cordless DS2278, workers can simply place the imager in its presentation stand to automatically switch to hands-free mode — no change of settings is required.

#### Guaranteed Full Shift Battery Power

With 14 hours of power, your cordless DS2278 imagers are always available for use — no need to waste time recharging during the business day.

### EASY TO MANAGE

#### Control Your Scanners from a Smartphone, Tablet or PC

You can easily control the beeper, LED and Symbology settings; display scanned barcode data; access model and serial number information and more from Windows, Android and iOS hosts.

#### Eliminate Bluetooth Interference with Zebra's Proprietary Wi-Fi Friendly Mode

Ensure that your cordless DS2278 Bluetooth imagers only operate on channels that are not shared with your WLAN, protecting WLAN service levels for your workers and your customers.

#### A Battery Designed to Last

The long-lasting 2400 mAh Lithium Ion battery in the cordless DS2278 will likely never need to be replaced, reducing total cost of ownership and simplifying everyday management by eliminating the need to purchase and manage a battery pool.

#### No-cost Tools to Meet Advanced Management and Application Development Needs

If you have Imagers in different locations, you can remotely manage them all with our Scanner Management Service (SMS) application. Need a custom scanning application? Our Scanner Software Development Kits (SDKs) provides everything you need, including documentation, drivers, test utilities and sample source code for Windows, Android, iOS and Linux.

### Put the DS2200 Series to work in:

#### Retail

- Point-of-Sale (POS)
- Loyalty applications
- Electronic coupon redemption

#### Hospitality

- Check-in
- Ticketing (concerts, sporting events and more)
- Loyalty cards

#### Transportation & Logistics

- Back-of-store shipping and receiving
- Product tracking
- Ticketing (airports, train and bus terminals)
- Postal

#### Light/Clean Manufacturing

- Product and component tracking
- Work-in-Process (WIP)

#### Government

- Lottery and gaming
- Administration
- Banking

**THE DS2200 SERIES — THE AFFORDABILITY YOUR BUDGET DEMANDS, WITH THE SIMPLE DEPLOYMENT, EASE-OF-USE AND MANAGEABILITY YOUR BUSINESS REQUIRES.**

# DS2200 Series Specifications

PHYSICAL CHARACTERISTICS	
Dimensions	<b>Corded DS2208:</b> 6.5 in. H x 2.6 in. W x 3.9 in. D 16.5 cm. H x 6.6 cm. W x 9.9 cm. D
	<b>Cordless DS2278:</b> 6.9 in. H x 2.6 in. W x 3.9 in. D 17.5 cm. H x 6.6 cm. W x 9.9 cm. D
	<b>Presentation Cradle:</b> 2.8 in. H x 3.7 in. W x 4.8 in. D 7.1 cm. H x 9.4 cm. W x 12.2 cm. D
Weight	<b>Corded DS2208:</b> 5.7 oz. / 161.6 g <b>Cordless DS2278:</b> TBD <b>Presentation Cradle:</b> TBD
Input Voltage Range	<b>DS2208/DS2278 and Cradle:</b> 4.5 to 5.5 VDC Host Powered; 4.5 to 5.5 VDC External Power Supply
Current	<b>Corded DS2208 Operating Current at Nominal Voltage (5.0V):</b> 250 mA (typical). (Note: Auto-Aim and Illumination on Acquiring Image) <b>Corded DS2208 Standby Current (idle) at Nominal Voltage (5.0V):</b> 150 mA (typical). (Note: Auto-Aim On) <b>Presentation Cradle and Micro USB Cable:</b> 500 mA (typical) Standard USB; 1100 mA (typical) BC 1.2 USB
Color	Nova White, Twilight Black
Supported Host Interfaces	USB, RS232, Keyboard Wedge, TGCS (IBM) 46XX over RS485
Keyboard Support	Supports over 90 international keyboards
User Indicators	Direct Decode Indicator; good decode LEDs; Rear view LEDs; beeper (adjustable tone and volume)
PERFORMANCE CHARACTERISTICS	
Motion Tolerance (Handheld)	Up to 5 in./13 cm. per second for 13 mil UPC
Swipe Speed (Hands-Free)	Up to 30.0 in./76.2 cm. per second for 13 mil UPC
Light Source	Aiming Pattern: Linear 624nm Amber LED
Illumination	(2) 645nm Super-Red LEDs
Imager Field of View	32.8° H x 24.8° V Nominal
Image Sensor	640 x 480 pixels
Minimum Print Contrast	25% minimum reflective difference
Skew/Pitch/Roll Tolerance	+/- 65°; +/- 65°; 0-360°
Minimum Element Resolution	Code 39 - 4.0 mil; Code 128 - 4.0 mil; Data Matrix - 6.0 mil; QR Code - 6.7 mil
USER ENVIRONMENT	
Operating Temperature	<b>DS2208/DS2278 Imagers:</b> 32.0° to 122.0° F/0.0° to 50.0° C  <b>Presentation Cradle:</b> 32.0° to 104.0° F/0.0° to 40.0° C

USER ENVIRONMENT (CONTINUED)		
Storage Temperature	-40.0° to 158.0° F/-40.0° to 70.0° C	
Humidity	5% to 95% RH, non-condensing	
Drop Specification	Designed to withstand multiple drops at 5.0 ft./1.5 m to concrete	
Tumble Specification	Designed to withstand 250 tumbles in 1.5 ft./1.5 m tumbler <sup>1</sup>	
Environmental Sealing	IP42	
Electrostatic Discharge (ESD)	<b>DS2208/DS2278 and Cradle:</b> ESD per EN61000-4-2, +/-15 KV Air, +/-8 KV Direct, +/-8 KV Indirect	
Ambient Light Immunity	0 to 10,000 Foot Candles/0 to 107,600 Lux	
RADIO SPECIFICATIONS		
Bluetooth Radio	<b>Standard Bluetooth Version 4.0 with BLE:</b> Class 2 33 ft. (10.0m), Serial Port and HID Profiles; output power adjustable down from 2.0 dBm in 8 Steps	
BATTERY		
Battery Capacity/ Battery Type	2,400 mAh Li-Ion Battery	
Scans Per Battery Charge <sup>2</sup>	100,000 scans at 60 Scans per Minute or 60,000 scans at 10 Scans per Minute	
Operating Time Per Full Charge <sup>2</sup>	100.0 Hours	
Charge Time (from Empty)	14 Hour Shift Hours	Full Charge Hours
Standard USB	4	25
BC1.2 USB	2	6
External 5V Source	0.5	6
Micro USB	1	11
REGULATORY		
Electrical Safety	EN 60950-1 2ed + A11 + A1 + A12 + A2:2013, IEC 60950-1 2ed + A1 + A2, UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07	
Environmental	RoHS EN 50581	
LED Safety	IEC 62471	
IT Emissions	EN 55022 (Class B); EN 55032 (Class B)	
IT Immunity	EN 55024	
Harmonic Current Emissions	EN 61000-3-2	
Voltage Fluctuation and Flicker	EN 61000-3-3	
Radio Frequency Devices	47 CFR Part 15, Subpart B, Class B	
Digital Apparatus	ICES-003 Issue 6, Class B	

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# DS2200 Series Specifications (continued)

## CORDLESS ACCESSORIES

Presentation Cradle, Spare Battery, Micro USB Cable

## DECODE CAPABILITIES<sup>3</sup>

<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, Composite Codes, TLC-39, Aztec, DataMatrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Codes

## WARRANTY

Subject to the terms of Zebra's hardware warranty statement, the DS2208 is warranted against defects in workmanship and materials for a period of Five Years from the date of shipment. The DS2278 and the CR2278 is warranted against defects in workmanship and materials for a period of Three Years from the date of shipment

## RECOMMENDED SERVICES

Zebra OneCare Select; Zebra OneCare Essential

## UTILITIES AND MANAGEMENT

<b>123Scan</b>	Programs scanner parameters, upgrades firmware, provides scanned barcode data and prints reports.
<b>Symbol 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.

## DECODE RANGES (TYPICAL)<sup>4</sup>

SYMBOLGY	RESOLUTION	NEAR	FAR
Code 39	5 mil	.2 in./1.5 cm.	6.0 in./15.2 cm.
Code 128	5 mil	.6 in./1.5 cm.	4.5 in./11.4 cm.
PDF 417	6.7 mil	.8 in./2.0 cm.	5.7 in./14.5 cm.
UPC	13 mil (100%)	.5 in./1.3 cm.	14.5 in./36.8 cm.
Data Matrix	10 mil	.3 in./8 cm.	6.2 in./15.7 cm.
QR	25 mil	.0 in./0 cm.	13.3 in./33.8 cm.

<sup>1</sup> Note: 1 tumble = 0.5 cycle.

<sup>2</sup> Simulated Checkout profile of 10 scans in 10 seconds with a 50 second rest.

<sup>3</sup> Refer to Product Reference Guide for complete list of symbologies.

<sup>4</sup> Printing resolution, contrast, and ambient light dependent.

\* The cordless DS2278 will be available in August 2017.



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## About us

- Legacy Technology Services is a leading nationwide provider of mobile computing, barcode, printers and point of sale equipment and services.
- For over a decade, thousands of clients across North America have trusted us to provide equipment from leading manufacturers backed by the services to support them.

## Latest Hardware from top manufacturers

- Legacy handles virtually every major manufacturer of mobile computing, barcoding and point of sale equipment.

## Expert Repair and Maintenance services

- Legacy is one of the best repair facilities in North America

## Discontinued product sourcing

- They don't make it anymore? Our inventory also includes manufacturer close-outs and discontinued equipment to support our clients legacy infrastructure.

## Trade-in and Disposal services

- That old equipment laying around your facility may still have some value. Legacy routinely purchases equipment from our clients around the globe.
  - Data destruction
  - Hardware disposal
  - Auditing services

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- Dedicated, highly trained account managers are here to answer all your questions and provide top notch service.

## Equipment rental services

- Sometimes renting is a better solution, Legacy's huge rental inventory provides the equipment you need for temporary needs and projects.



[Legacy, Inc.](http://Legacy, Inc.)

160 West Road,  
Ellington, CT 06029

Toll Free: 866-271-9891

Fax: 888-522-4684