



ZEBRA

DS8100 Series Handheld Imagers

THE ULTIMATE IN PERFORMANCE, INNOVATION AND MANAGEABILITY

As a retailer, you know the checkout experience is crucial — it's the last chance to leave your shoppers with a good impression. The quality of the checkout experience is heavily dependent upon the performance of the scanner you choose. If cashiers need to scan barcodes multiple times or enter unreadable barcodes manually, your checkout lanes can back up quickly, translating into long lines and long wait times. Cashiers are then forced to focus on ringing up merchandise instead of providing shoppers with a great in-store experience. Now, give every shopper the ultimate last impression with the DS8100 Series handheld imager, only from Zebra. The DS8100 Series rises above the conventional imagers to deliver unprecedented scanning performance on 1D and 2D barcodes, innovative productivity enhancing tools and unrivaled manageability to keep your checkout lines moving and your cashiers free to deliver a more personal checkout experience. The DS8100 Series — because when it comes to the checkout experience, only the best will do.



UNPRECEDENTED PERFORMANCE

Unparalleled Performance on Virtually Every Barcode in Any Condition

Only the DS 8100 Series combines the power of an 800 MHz microprocessor, a high-resolution megapixel sensor and Zebra's exclusive PRZM technology. With this unique combination of hardware and advanced algorithms, the DS 8100 Series instantly captures the most problematic barcodes — including dense, poorly printed, crinkled, faded, distorted, dirty or damaged, as well as electronic barcodes on dimly lit displays.

Superior Scan Range

A scanning range up to 24 in./61cm, a high resolution imaging sensor and a bright "aiming spot" improve checkout speed. Now, cashiers in busy checkout environments can easily scan items in a customer's shopping cart — without leaving the cash-wrap.

Power to Scan Continuously for 24 Hours

No matter how busy your store is, with Zebra's exclusive PowerPrecision+smart battery in the cordless DS8178, your workers will always have the power they need for the busiest shift. Your devices are always available — no need for charging during the business day.

INNOVATION BEYOND THE BARCODE

PRZM Intelligent Imaging

Only from Zebra, PRZM features reset the bar for imaging performance. Poor images are turned into instantly useful images for faster decoding. PRZM then handles some of the processing typically handled in the decoder to reduce power usage, improve battery cycle times and further increase decoding speed.

Support for the Barcode of the Future — Digimarc®*

The DS8100 Series supports Digimarc digital watermark technology, which enables a barcode to be printed repeatedly over all surfaces of a product like wallpaper — yet remain completely invisible to the naked eye. Cashiers no longer need to locate and position a barcode in the field of view of the imager, enabling faster checkout and easier self-checkout.

Capture Multiple Barcodes with One Press of the Scan Trigger

Multi-code Data Formatting (MDF) provides the ability to capture multiple barcodes and transmit only those required in the precise order the application requires.



Exclusive Battery Charge Gauge

No more guess work on the status of a battery at the start of a shift. The DS 8 \(\pi \)8 is the only scanner in its class that makes it easy to see at a glance whether a battery needs to be replaced before the scanner is placed into service.

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

Ensure that your DS8178 Bluetooth scanners only operate on channels that are not shared with your wireless LAN (WLAN), protecting WLAN service levels for your workers and your customers.

Instantly Capture Full Page Documents

The DS8100 Series is the only device in its class that can capture a full page document. With a single press of the scan trigger, Zebra's Intelligent Document Capture and the high-resolution 1280 x 960 camera work together to capture a high-resolution image of a full page 8.5 x 11 or A4 document, and transmit the data in the right format for electronic storage — eliminating the cost and space requirements for a document scanner.

Capture Drivers License Data (DL version required)

With one press of the scan trigger, cashiers can capture and parse data on drivers licenses to automatically populate a loyalty or credit card application, verify age for age-restricted purchases and more.

Direct Decode Indicator Improves Productivity Since the illumination on the barcode flashes to indicate a good decode, workers never need to pause to make

good decode, workers never need to pause to make sure a barcode was captured correctly.

UNRIVALED MANAGEABILITY

Visionary Visibility into Scanning and Battery Performance Metrics — only from Zebra

With detailed scanning performance metrics that include speed and type of barcode for every barcode scanned, it's easy to spot and correct barcode issues before they impact worker productivity and the quality of customer service. And with a wealth of battery health information, including charge cycles consumed, a State-of-Health meter and full charge capacity, you can easily spot and replace aging batteries before they can no longer last a full shift. Armed with this information, you can order and install new batteries before battery failures interrupt front end operations and cause checkout delays.

Control Your Scanners from a Smartphone, Tablet or PC

With this easy-to-use application, you can: control your imager's beeper, vibration and LED to set user alerts; display scanned barcode data; access model and serial number; and access battery statistics and more from Android, iOS and Windows smartphones, tablets and PCs.

Easily Manage All of Your Scanners with Powerful Complimentary Tools

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 DS8100 Series device that is plugged into the host — no depot staging or user action is required — such as the scanning of a configuration barcode.

Easy Application Development

Get everything you need to easily integrate scanning into your business applications with our Scanner Software Development Kits (SDKs) for Windows, Android, iOS and Linux. These SDKs provide documentation, drivers, test utilities and sample source code.

Put the DS8 100 Series to work in:

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- Point-of-Sale (POS)
- Loyalty applications
- Electronic coupon redemption
- Backroom receiving
- Inventory management

Hospitality

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

Transportation & Logistics

- Shipping and receiving
- Picking
- 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 DS8100 SERIES — WHEN YOUR BUSINESS DEMANDS THE ULTIMATE IN PERFORMANCE, WORKFORCE PRODUCTIVITY AND CUSTOMER SERVICE.



DS8100 Series Specifications

imensions	Corded DS8108 and Cordless DS8178:			
nonaiona	6.6 in. H x 2.6 in. W x 4.2 in. D			
	16.8 cm. H x 6.6 cm. Wx 10.7 cm. D			
	Standard Cradle: 2.8 in. H x 3.3 in. Wx 8.3 in. D			
	7.1cm H x 8.4 cm Wx 211cm D			
	Presentation Cradle: 2.9 in. H x 3.7 in. W x 4.8 in. D 7.4 cm H x 9.4 cm W x 12.2 cm D			
Weight	Corded DS8108: 5.4 oz./154 g Cordless DS8178: 8.3 oz./235.3 g Desk/Wall Cradle: 7.1 oz./202 g Presentation Cradle: 6.5 oz./182 g			
nput Voltage Range	DS8108: 4.5 to 5.5VDC DS8178 Cradles: 5V: 4.7 to 5.5VDC; 12V: 10.8 to 13.2VDC			
Current ¹	Corded DS8108 Operating Current at Nominal Voltage (5.0V): 450 mA			
	Cradle: 470 mA (typical) Standard USB; 743mA (typical) 12V			
Color	Nova White, Twilight Black			
Supported Host nterfaces	USB Certified, RS232, Keyboard Wedge, TGCS (IBM) 46XX over RS485			
Keyboard Support	Supports over 90 international keyboards			
FIPS Security Certification	Certified Compliant with FIPS 140-2			
User Indicators	Direct Decode Indicator, Good Decode LEDs, Rear View LEDs, Beeper (Adjustable Tone & Volume), Battery Indicator			
PERFORMANCE	CHARACTERISTICS			
ight Source	Aiming Pattern: Circular 617nm Amber LED			
llumination	(2) 645nm Red LEDs			
mager Field	48° H x 37° V Nominal			
of View	1,280 x 960 pixels			
	1,280 x 960 pixels			
mage Sensor Minimum Print	1,280 x 960 pixels 16% minimum reflective difference			
mage Sensor Minimum Print Contrast Skew/Pitch Roll				
mage Sensor Minimum Print Contrast Skew/Pitch Roll Tolerance	16% minimum reflective difference +/- 60°; +/- 60°; 0-360°			
mage Sensor Minimum Print Contrast Skew/Pitch Roll Folerance MAGING CHAR Graphics Format	16% minimum reflective difference +/- 60°; +/- 60°; 0-360°			
mage Sensor Minimum Print Contrast Skew/Pitch Roll Folerance MAGING CHAR Graphics Format Support	16% minimum reflective difference +/- 60°; +/- 60°; 0-360° ACTERISTICS			
of View Image Sensor Minimum Print Contrast Skew/Pitch Roll Tolerance IMAGING CHAR Graphics Format Support Image Quality Minimum Element Resolution	16% minimum reflective difference +/- 60°; +/- 60°; 0-360° ACTERISTICS Images can be exported as Bitmap, JPEG or TIFF			
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Image Sensor Minimum Print Contrast Skew/Pitch Roll Tolerance IMAGING CHAR Graphics Format Support Image Quality Minimum Element Resolution USER ENVIRONI Operating	16% minimum reflective difference +/- 60°; +/- 60°; 0-360° ACTERISTICS Images can be exported as Bitmap, J PEG or TIFF 109 PPI on an A4 document Code 39 - 3.0 mil; Code 128 - 3.0 mil; Data Matrix - 6.0 mil; QR Code - 6.0 mil; PDF - 5.0 mil			
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Humidity	5% to 95% RH, non-condensing				
Drop Specification	Designed to withstand multiple drops at 6.0 ft./18 m to concrete				
Tumble Specification	Designed to withstand 2,000 tumbles in 15 ft./0.5 m tumbler ²				
Environmental Sealing	IP42				
Electrostatic Discharge (ESD)	DS8 10 8/DS8 178 and Cradles: ESD per EN61000-4-2, +/-15 KV Air, +/-8 KV Direct, +/-8 KV Indirect				
Ambient Light Immunity	0 to 9,000 Foot Candles/0 to 96,840 Lux				
RADIO SPECIFIC	CATIONS				
Bluetooth Radio	Standard Bluetooth Version 4.0 with BLE: Class 1330 ft. (100m) and Class 2 33 ft. (10m), Serial Port and HID Profiles				
Adjustable Bluetooth Power	Class 1: Output power adjustable down from 4 dBm in 8 Steps Class 2: Output power adjustable down from 2 dBm in 8 Steps				
BATTERY					
Battery Capacity/ Battery Type	2,500 mAh Li-lon Power Precision+ Battery				
Scans Per Battery Charge	65,000 (1scan per second)				
Operating Time Per Full Charge ³	83 hours				
Typical Charge Tin	ne from Empty to Full Charge				
Power Source	Desk/Wall Cradle	Presentation Cradle			
Standard USB	7 hrs 45 min	9 hrs 15 min			
BC12 USB	3 hrs	3 hrs 15 min			
External 5V Source	e 4 hrs 30 min	5 hrs			
External 12V Sour	ce 2 hrs 15 min	2 hrs 15 min			
REGULATORY					
Electrical Safety	EN 60950-12ed + A11+ A1+ A12 + A2:2013, IEC 60950-12ed + 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				
ACCESSORIES					

Document Capture Stands

Continued on next page



DS8100 Series Specifications (continued)

DECODE CAP	ABILITIES4		
1D	Code 39, Code 128, Code 93, Codabar/NW7, Code 11, NSI Plessey, UPC/EAN, I 2 of 5, Korean 3 of 5, GS1DataBar, Base 32 (Italian Pharma)		
2D	PDF417, Mcro PDF417, Composite Codes, TLC-39, Aztec, Data/Natrix, MaxiCode, QR Code, Mcro QR, Chinese Sensible (Han Xin), Postal Codes		
Digimarc	Digital watermark technology, available April 2017		
WARRANTY			
workmanship ar	n the date of shipment. The DS8108 is warranted against defects in ad materials for a period of five years from the date of shipment.		
	hardware product warranty statement: www.zebra.com/warranty DED SERVICES		
RECOMMEND			
RECOMMEND Zebra OneCare	DED SERVICES		
RECOMMEND Zebra OneCare	DED SERVICES Select, Zebra OneCare Essential		
RECOMMEND Zebra OneCare	DED SERVICES Select; Zebra OneCare Essential D MANAGEMENT Programs scanner parameters, upgrades firmware, displays scanned barcode data, scanning statistics, battery health, asset		

Note: 1tumble = 0.5 cycle.

Service (SMS)

- $^{\scriptscriptstyle 3}\,$ Simulated Checkout profile of XX scans in XX seconds with a XX second rest.
- $^{\scriptscriptstyle 4}\,$ Refer to Product Reference Guide for complete list of symbologies.
- ⁵ Printing resolution, contrast, and ambient light dependent.

SYMBOLOGY	RESOLUTION	NEAR	FAR
Code 39	3 mil	2.2 in./5.6 cm.	5.0 in./12.7 cm.
Code 39	20 mil	.0 in./0 cm.	36.8 in./93.5 cm
Code 128	3 mil	2.6 in./6.6 cm.	4.5 in./114 cm.
Code 128	5 mil	16 in./4.1cm.	8.4 in./213 cm.
Code 128	15 mil	.0 in./.0 cm.	27.1in./68.8 cm.
PDF 417	5 mil	2.3 in./5.8 cm.	6.4 in./16.3 cm.
PDF 417	6.7 mil	18 in./4.6 cm.	8.5 in./216 cm.
UPC	13 mil (100%)	.0 in./.0 cm.	24.0 in./610 cm.
Data Matrix	7.5 mil	2.1in./5.3 cm.	6.9 in./17.5 cm.
Data Matrix	10 mil	11in./2.8 cm.	9.9 in./25.1cm.
QR	20 mil	.1in./.3 cm.	17.6 in./44.7 cm.



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