DS4600 Series for Retail

The versatile scanner that does more for your retail operations

Today's shoppers don't want to wait in long lines at the checkout or returns desk. The DS4600 Series offers the versatility and scanning performance you need to keep transactions fast and lanes flowing smoothly throughout the whole store. This feature-rich family helps associates scan items of all sizes, read barcodes in nearly any condition and handle transactions of all kinds. There is a DS4600 Series model for every need in your store. Bulky items in a shopping cart, a customer's driver's license at the returns desk, a mobile coupon at checkout, tiny barcodes in the jewelry department—the DS4600 Series can capture it all. The increased efficiency shrinks lines and keeps customers coming back again and again. And our unique DataCapture DNA and industry-preferred management tools make it easier than ever to integrate, deploy and manage your scanners. The DS4600 Series—more data capture versatility, more range and more innovation.

Resets the bar for versatility and performance

Capture it all with the DS4600 Series
No matter what kind of data you need to capture in your store, there is a DS4600 Series model that is ready for the job. Scan 1D and 2D barcodes, whether they're printed on a label or displayed on a phone. Capture DotCode and dotted DataMatrix barcodes through cellophane, as well as the tiny and dense barcodes found on jewelry tags. Read wide barcodes on packages and cartons in the backroom. You can even collect data from IDs and travel documents using Optical Character Recognition (OCR), or parse driver's license information for age verification, returns monitoring, loyalty and

credit card applications. The result? Superior value. You can deploy a single scanner family for virtually every scanning need across our store.

Count on Zebra performance to keep your lines moving
Zebra's DS4308 set the bar for decode range, and you can count on the same "can't miss" range from the DS4600 Series. The DS4608-SR can capture UPC codes up to 28 inches away, enabling checkout associates to easily reach items in a customer's shopping cart without leaving the cashwrap. The 800 MHz microprocessor, high-resolution megapixel sensor and Zebra's exclusive PRZM Intelligent Imaging technology provide instant barcode capture on even the most challenging barcodes. And a patented rear engine design enables the DS4600 Series to read wider barcodes at every distance, compared to other scanners with a similar field of view. As a result, associates can focus on your customers, rather than positioning items.

Day-in, day-out dependability
The DS4600 Series is engineered for durability, inside and out. IP52 sealing protects against spills, while a patented double-sealed optical system guards the critical optical components from dust and liquid—ensuring that the 'eye' of the scanner always captures the sharpest possible barcode image for fast and reliable decoding. The recessed scan window protects against smudges, dirt and scratches, which can impact performance. And the scanner is built to survive multiple 6 ft./1.8 m drops to concrete and 2,000 tumbles in our punishing tumble test.

CERTIFIED USB

On-the-fly switching between handheld and hands-free scanning
Simply place the scanner in the optional presentation stand to automatically switch to hands-free mode; then pick up the scanner for handheld mode—no change of settings is required.

Flexible feedback modes that work for any retail environment
The DS4600 Series offers multiple feedback modes including a good decode LED that's visible from any position, a traditional beep tone with adjustable volume/frequency, and Zebra's Direct Decode Indicator that projects the illumination on the barcode for instant visual confirmation of a successful scan.

Do more with productivity-enhancing innovation

Doubles as a document scanner
With a single press of the scan trigger, the DS4600 Series can capture images of checks and utility bills, and the DS4608-SR and DS4608-DL can capture full-page documents. Zebra's Intelligent Document Capture automatically compensates for variations in lighting and squares up the image for optimum clarity.

Capture multiple barcodes with one press of the scan trigger
With Multi-Code Data Formatting (MDF), the DS4600 Series can scan multiple barcodes with a single trigger pull and transmit only the barcodes you need, in the order your application expects.

Single out one barcode from many
With Zebra's Preferred Symbol, the DS4600 Series can capture and output only the preferred barcode, so workers no longer have to waste time physically covering nearby barcodes before scanning.

Deactivate EAS tags while scanning
Optional EAS support, available on the DS4608-HD/HL, allows associates to deactivate Checkpoint EAS tags while scanning the price, boosting productivity at the checkout and preventing erroneous alarms.

Streamline data collection with OCR
Let smart technology do the work. Support for OCR expedites the collection of data from ID cards and travel documents that may not have barcodes—speeding up checkout transactions in airport shops and other locations.

Capture driver's license data
With one press of the DS4608-DL/HL's scan trigger, cashiers can capture and parse data information on driver's licenses to automatically populate a loyalty or credit card application, verify age for age-restricted purchases, process a customer's return and more.

Industry-preferred management tools

Effortless deployment
The DS4600 Series couldn't be easier to setup. Right out of the box, the scanner is configured for the applications you use every day, while auto-host detect cables automatically select the right host interface—just plug in the scanner and you're ready to go.

Easily deploy and manage all of your scanners
123Scan, a complimentary DataCapture DNA tool, is intuitive enough for first-time users. You can easily create configuration barcodes to program scanners, update firmware or stage a large number of devices. If your scanners are in multiple locations across the country or around the world, you can use the complimentary Scanner Management Service (SMS) to configure and update the firmware for any DS4600 Series device that is plugged into a host. No depot staging or user action is required—such as the scanning of a configuration barcode.

DataCapture DNA—transforming scanners from the inside

Simplify the entire scanning experience
Hardware is just the start of what you need to maximize the value of your scanners. The DS4600 Series is powered by DataCapture DNA, a set of unique development, management, visibility and productivity tools. Leveraging Zebra's 50 years of innovation, DataCapture DNA turns Zebra scanners into powerful tools that lower your TCO and help workers get more done each day. Decrease development cycles with development tools. Dramatically simplify scanner deployments of any size with management tools. Get the remote analytics you need to keep scanners up and running with visibility tools. And reach new levels of productivity with innovations that streamline tasks.

DS4600 Series Specifications

Physical Characteristics

Dimensions	6.5 in. H x 2.6 in. W x 3.9 in. D 16.5 cm H x 6.7 cm W x 9.8 cm D
Weight	5.7 oz. / 161.9 g
Input Voltage Range	4.5 to 5.5 VDC Host Powered; 4.5 to 5.5 VDC External Power Supply
Operating Current at Nominal Voltage (5.0V)	340 mA (typical)
Standby Current (Idle) at Nominal Voltage (5.0V)	150 mA (typical)
Color	Nova White, Twilight Black
Supported Host Interfaces	USB, RS232, TGCS (IBM) 46XX over RS485
Keyboard Support	Supports over 90 international keyboards
Electronic Article Surveillance	Compatible with Checkpoint EAS deactivation system
User Indicators	Direct Decode Indicator, Good Decode LEDs, rear view LEDs, beeper (adjustable tone and volume)

Performance Characteristics

Light Source	Aiming Pattern: circular 617nm amber LED
Illumination	(2) 660nm red LEDs
Imager Field of View	36.1° H x 22.6° V nominal
Image Sensor	1280 x 800 pixels
Minimum Print Contrast	15% minimum reflective difference
Skew Tolerance	+/- 60°
Pitch Tolerance	+/- 60°
Roll Tolerance	0° - 360°

Imaging Characteristics

Graphics Format Support	Images can be exported as Bitmap, JPEG or TIFF
Image Quality	96PPI on an A4 document (DS4608-SR)

Environmental

Operating Temperature	32.0° to 122.0° F / 0.0° to 50.0° C
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 6.0 ft./1.8 m to concrete
Tumble Specification	Designed to withstand 2,000 tumbles in 1.5 ft./0.5 m tumbler
Environmental Sealing	IP52
Electrostatic Discharge (ESD)	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 107,000 Lux

Regulatory

Environmental	2011/65/EU and EN 50581:2012 and EN IEC 63000:2018
Electrical Safety	UL 60950-1, second edition, CAN/CSA-C22.2 No. 60950-1-07. EN 60950-1:2006/A2:2013 IEC 60950-1:2005/A2:2013 IEC 62368-1 (ed.2); EN 62368-1:2014
LED Safety	IEC 62471:2006 (Ed.1.0); EN 62471:2008
EMI/RFI	FCC: 47 CFR Part 15, Subpart B, Class B ICES-003 Issue 6, Class B EN 55032, Class B EN 55024 EN 55035 EN 60601-1-2:2015, IEC 60601-1-2:2014

Accessories

Gooseneck Intellistand, Cup

Symbol Decode Capability

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, Han Xin, Postal Codes, SecurPharm, DotCode, Dotted DataMatrix
OCR	OCR-A, OCR-B, MICR, US Currency

Refer to Product Reference Guide for complete list of symbologies.

Minimum Element Resolution	Code 39 - 3.0 mil (DS4608-SR) DataMatrix - 5.0 mil (DS4608-SR) Code 39 - 2.0 mil (DS4608-HD) DataMatrix - 4.0 mil (DS4608-HD)

DS4608-SR/DL Decode Ranges (Typical)[1]

Symbology/Resolution	Near/Far
Code 39: 3 mil	2.2 in./5.6 cm to 5.4 in./13.7 cm
Code 39: 5 mil	0.7 in./1.8 cm to 11.0 in./27.9 cm
Code 39: 20 mil	0 in./0 cm to 44.0 in./111.8 cm
Code 128: 5 mil	2.7 in./6.9 cm to 5.4 in./13.7 cm
PDF 417: 6.7 mil	1.3 in./3.3 cm to 10.0 in./25.4 cm
UPC: 13 mil (100%)	0 in./0 cm to 28.0 in./71.1 cm
DataMatrix: 10 mil	1.0 in./2.5 cm to 11.5 in./29.2 cm
QR: 20 mil	0 in./0 cm to 17.5 in./44.5 cm

Ideal for these applications

Retail front of store
- Checkout scanning
- Mobile scanning: eCouponing/ loyalty
- DL parsing: age verification, loyalty and credit applications
- Cigarette and liquor tax verification
- Checkpoint EAS
- OCR/Passport reading

Retail back of store
- Receiving
- Inventory

Hospitality
- Event/admission ticketing

Quick Serve Restaurants
- Drive-thru

DS4600 Series Specifications (continued)

DS4608-HD/HL Decode Ranges (Typical)[1]

Symbology/Resolution	Near/Far
Code 39: 3 mil	1.3 in./3.3 cm to 6.0 in./15.2 cm
Code 39: 5 mil	0 .1 in./0.3 cm to 11.5 in./29.2 cm
Code 39: 20 mil	0.6 in./1.5 cm to 29.0 in./73.7 cm
Code 128: 5 mil	1.7 in./4.3 cm to 5.0 in./12.7 cm
PDF 417: 6.7 mil	0.6 in./1.5 cm to 9.3 in./23.6 cm
UPC: 13 mil (100%)	0 in./0 cm to 18.0 in./45.7 cm
DataMatrix: 10 mil	0.2 in./0.5 cm to 9.5 in./24.1 cm
QR: 20 mil	0 in./0 cm to 13.5 in./34.3 cm

Warranty

Subject to the terms of Zebra's hardware warranty statement, the DS4608 is warranted against defects in workmanship and materials for a period of Five Years from the date of shipment. For the complete Zebra hardware product warranty statement, please visit: www.zebra.com/warranty

Recommended Services

Zebra OneCare Select; Zebra OneCare Essential

Footnotes

1. Printing resolution, contrast and ambient light dependent

DataCapture DNA

DataCapture DNA is a suite of highly intelligent firmware, software, utilities and apps exclusively engineered to add functionality and simplify the deployment and management of Zebra scanners. For more information about DataCapture DNA and its applications, please visit www.zebra.com/datacapturedna

123Scan	Intelligent Document Capture	Multi-Code Data Formatting	Preferred Symbol	
PRZM intelligent Imaging	Remote Diagnostics	Remote Management	Scanner Control Application	Software Development Kit (SDK)

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