

DS4600 Series for Electronics Manufacturing

Improve productivity and quality control in electronics and light manufacturing

You rely on barcodes to track components and ensure product quality when manufacturing cell phones, computers, televisions, servers and other products. Your workers need to capture barcodes of all sizes and on all surfaces—instantly and flawlessly. And with the DS4600 Series for Electronics Manufacturing, they can. This versatile device can capture laser etched direct part marks, high density and low contrast codes, in addition to 4-inch wide barcodes. Designed specifically for electronics and light industrial manufacturing operations, the DS4608- DPE is ideal for clean rooms and other dust-free, water-free environments. A wide decode range enables the capture of direct part marks and high density barcodes, nearer and farther than a general purpose scanner—giving your workers true point-and-shoot simplicity. And our unique DataCapture DNA and industry-preferred management tools make it easier than ever to integrate, deploy and manage your imagers. The DS4600 Series for Electronics Manufacturing—purpose-built innovation for your electronics and light manufacturing production line.



Resets the bar for versatility and performance

Capture it all—from direct part marks to extra-wide barcodes

No matter what type of marks and barcodes are found in your manufacturing operations, you can capture them all with the DS4608-DPE. It easily reads the tiny and dense laser etched DPM codes on plastic and metal subcomponents, as well as ink mark, chemical etch, inkjet mold and thermal spray. And the same imager can read 4-inch wide barcodes found on picklists, carton labels and packages, delivering outstanding value—you can use the same device for multiple applications throughout your operations.

Count on great performance to keep your production line moving

What makes the DS4608-DPE unique? Its patented rear engine design creates more room for a built-in diffuser—providing optimal illumination on a wide variety of surfaces. Indirect lighting enables the capture of marks printed on shiny and reflective surfaces, while direct light provides the bright light needed to successfully read low contrast barcodes and laser-etched marks. And the 800 MHz microprocessor, megapixel sensor and Zebra's exclusive PRZM Intelligent Imaging technology further improve performance on challenging barcodes. The result? High-confidence scanning for fewer exceptions and workflow disruptions.

Capturing high density barcodes is easier than ever

Direct part marks and high density barcodes can be tough to scan, but not with the DS4608-DPE. This intuitive imager has the widest decode range in its class—enabling workers to position it at a more natural distance to see the barcode they are scanning. The result is point and shoot simplicity for some of the most challenging barcodes.

Haptic and visual feedback—ideal for noisy production lines

On the production line, the traditional beep tone can be hard to hear. That's why the DS4608-DPE offers multiple feedback modes: haptic/vibration, a good decode LED that's visible from any position, a traditional beep tone, plus Zebra's Direct Decode Indicator that projects the illumination on the barcode. No matter how noisy your environment might be, workers instantly know they are about to utilize the right component—there's no need to stop and verify that a scan was completed.

PRODUCT SPEC SHEET

DS4608-DPE CORDED IMAGER: NORTH AMERICA, LATIN AMERICA, EUROPE, MIDDLE EAST, AFRICA

Day-in, day-out dependability on the production line

Your production line doesn't stop, and neither does the DS4608-DPE. It's engineered for durability, inside and out. IP52 sealing protects against spills, while a patented double-sealed optical system protects 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.

On-the-fly switching between handheld and hands-free scanning

Simply place the DS4608-DPE in its presentation stand to automatically switch to hands-free mode—no change of settings is required.

Do more with productivity-enhancing innovation

Capture multiple barcodes with one press of the scan trigger

With Multi-Code Data Formatting (MDF), the DS4608-DPE can scan multiple barcodes with a single trigger pull and transmit only the barcodes you need, in the order your application expects. You get superior versatility and value—the same imager that can read small dense codes on the production line can also read multiple paper codes on packages in the receiving area.

Single out one barcode from many

With Zebra's Preferred Symbol, the DS4608-DPE can capture and output only the preferred barcode, so workers no longer have to waste time physically covering nearby barcodes before scanning.

Industry-preferred management tools

Effortless deployment

The DS4608-DPE couldn't be easier to setup. Right out of the box, the imager 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 imagers

123Scan, a complimentary DataCapture DNA tool, is intuitive enough for first-time users. You can easily create configuration barcodes to program imagers, update firmware or stage a large number of devices. If your imagers 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 DS4608-DPE 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.

DS4608-DPE Specifications

Ideal for these applications

Electronics and Light Industrial Manufacturing

- Product assembly
- Traceability
- Quality assurance
- Inventory and materials management
- Replenishment
- Picking

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)	375 mA (typical)
Standby Current (Idle) at Nominal Voltage (5.0V)	150 mA (typical)
Color	Twilight Black
Supported Host Interfaces	USB, RS232, 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), haptic/vibration

Performance Characteristics	
Light Source	Aiming Pattern: circular 528nm true green LED
Illumination	(2) warm white LEDs
Imager Field of View	34° H x 21.6° 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

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 107,600 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, 1 2 of 5, Korean 3 of 5, GS1 DataBar, Base 32 (Italian Pharma)
2D	PDF417, Micro PDF417, Composite Codes, TLC-39, Aztec, DataMatrix, DotCode, Dotted DataMatrix, MaxiCode, QR Code, Micro QR, Han Xin, Postal Codes, SecurPharm

Refer to Product Reference Guide for complete list of symbologies.

Minimum Element Resolution	Code 39 - 2.0 mil DataMatrix - 4.0 mil
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Decode Ranges (Typical) ¹	
Symbology/Resolution	Near/Far
Code 128: 2 mil	0.3 in./0.8 cm to 2.3 in./5.8 cm
Code 128: 3 mil	0 in./0 cm to 3.5 in./8.8 cm
Code 128: 15 mil	4.2 in./10.7 cm to 8.6 in./21.8 cm
Code 39: 2 mil	0.2 in./0.5 cm to 3.0 in./7.6 cm
Code 39: 3 mil	0 in./0 cm to 3.8 in./9.6 cm
Code 39: 5 mil	0 in./0 cm to 5.2 in./13.2 cm
PDF 417: 4 mil	0 in./0 cm to 3.3 in./8.4 cm
PDF 417: 5 mil	0 in./0 cm to 3.8 in./9.6 cm
PDF 417: 6.6 mil	0 in./0 cm to 4.5 in./11.4 cm
UPC: 13 mil (100%)	0 in./0 cm to 8.5 in./21.5 cm
Data Matrix: 4 mil	0.2 in./0.5 cm to 2.8 in./7.1 cm
Data Matrix: 5 mil	0 in./0 cm to 3.4 in./8.6 cm
Data Matrix: 10 mil	0 in./0 cm to 4.8 in./12.2 cm
QR Code: 10 mil	0 in./0 cm to 4.5 in./11.4 cm

PRODUCT SPEC SHEET

DS4608-DPE CORDED IMAGER: NORTH AMERICA, LATIN AMERICA, EUROPE, MIDDLE EAST, AFRICA

DS4608-DPE Specifications (continued)

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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