

## DS55 Series Fixed Mount Scanner

### Proven scanning performance in a compact, fits anywhere design

The compact DS55 Fixed Mount Scanner puts high-performance scanning wherever you need it — the retail counter, self-service and ticketing kiosks, contactless pickup lockers, boarding gates and more. A versatile design lends itself to both standalone and embedded applications. With a tiny footprint, the DS55 Series fits into the smallest of kiosks, while its modern and elegant design blends seamlessly in any décor. Flexible mounting options, including support for third-party accessories, enable the DS55 Series to meet a wide range of applications. Zebra's industry-leading performance ensures flawless high-volume scanning of any 1D and 2D barcode, including mobile barcodes on customer phones. And Zebra DNA ensures maximum performance year after year and makes it easier than ever to integrate, deploy and manage your scanners.



### Scan it All, Everywhere

#### Give Every User a Better Scanning Experience

Both seasoned employees and novice self-service users can count on first-time, every-time scanning with Zebra's Intelligent Imaging technology. A megapixel sensor delivers 184% higher resolution than the previous generation DS457 for superior performance on damaged and poorly printed barcodes. Fast swipe speeds ensure barcodes are captured as quickly as they're presented. A large, omni-directional field of view makes scanning easier than ever, as there's less need to carefully position barcodes for a successful scan.

#### Engineered to Read Virtually Any Barcode

Whether your applications call for 1D or information-rich 2D barcodes, printed or mobile, including image capture or OCR, the DS55 Series can handle them all. Enhanced performance on mobile barcodes, including those on dimly lit screens, ensures that customer's electronic tickets, boarding passes, loyalty cards and coupons are effortlessly scanned.

### Versatility Redefined — One Scanner Meets Multiple Needs

#### Fits in the Smallest of Spaces

The tiny DS55 Series is ideal wherever a zero or minimal footprint is required. At just 1.2 in H x 2.2 in W x 2.8 in D (3.0cm H x 5.6cm W x 7.2cm D), the scanner can be mounted just about anywhere — attached to the register, under the counter for a true zero footprint, on the retail cashwrap, or a space-constrained light manufacturing workstation. And its sleek, elegant aesthetics are ideal for even the trendiest boutique.

#### Easy Integration into Self-Service Solutions

The DS55 Series can be integrated into the most space-constrained products to bring world-class scanning performance to self-service kiosks, contactless pickup lockers, buy online pickup in store (BOPIS) kiosks, lottery terminals, ticketing kiosks and more. Integration into your product designs is easy. The flat face design can be flush mounted for a clean look. If you have a Zebra DS457 deployed today, the DS55 Series offers similar dimensions and matching mounting hole locations for an easy replacement.



Bring proven scanning performance to the smallest of spaces with the compact, fits anywhere DS55 Series.

For more information, please visit [www.zebra.com/ds55series](http://www.zebra.com/ds55series)

### **All the Cables You Need**

Multiple cable options — including 2 ft (0.6m) and 7 ft (2.1m), straight and right-angle connectors — provide just the right fit for your particular needs.

### **User-friendly Illumination and Aimer**

Soft white illumination is easy on the eyes and the green LED aimer is easy to see in a variety of lighting conditions, making the DS55 Series a great fit for all applications, including ones sensitive to red light sources or safety issues with laser aimers.

### **Feedback You Can Hear in Any Environment**

The DS55 Series features good decode LEDs and an adjustable beeper that's twice as loud as the DS457. Users can easily confirm a successful scan even in loud environments or when the scanner is embedded inside a kiosk or locker.

### **Instantly Capture and Process Driver's License Data**

Use the information on a driver's license to instantly verify age and identification, populate loyalty and credit card applications and more.

### **Capture OCR, Images and Documents**

The DS55 Series makes it easy to take high quality images of prescriptions, ID cards, checks and more. Support for multiple OCR fonts streamlines and error-proofs data collection.

## **Flexible Mounting Options**

### **Standard Mount Opens Up Virtually Limitless Possibilities**

The DS55 Series features a standard ¼ - 20 camera mount for quick and easy mounting to a wide range of third-party accessories — clamps, poles, swivels, wall mounts, vehicle dash mounts and more. You can always find the right accessory for your specific need.

### **Triple Your Mounting Options with an Innovative 3-in-1 Mount**

Zebra's new 3-in-1 mounting accessory is a computer display mount, wall mount and presentation stand all in one. The magnetic mounting face securely holds the DS55 Series scanner in place, while letting the scanner swivel to either side as needed. It's easy to lift the scanner off to scan an item in handheld mode, then pop it back on.

## **Low Cost of Ownership**

### **Designed to Survive Spills and Drops**

The DS55 Series offers the durability needed to handle all-day, everyday use in a variety of applications and environments. It's built to withstand 5 ft (1.5m) drops to concrete and IP54 sealing protects against spills and dust.

### **Superior Reliability**

The DS55 Series is backed by a 3-year warranty. Since Zebra data capture products are proven to have less than 0.5% failure rates, you can be confident in the long-term reliability of your scanner.

### **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.

### **Multi-Interface Flexibility**

Every DS55 Series scanner supports both RS232 and USB to help future-proof your investment. If you migrate your host from RS232 to USB, you won't need to purchase new scanners. And the DS55 Series is USB Certified for worry-free integration.

### **Make Data-Driven Decisions Informed by Your Scanners**

Zebra's IoT Connector is a fully automated real-time data collection tool that routes data from your scanners into your preferred IoT endpoint. The result? You can mine the data and get the insights needed to make decisions in real time.

### **Up-to-the-Minute Insight into Every Aspect of Your Scanners**

Remote Diagnostics automate the recording of scanner asset information, health and statistics, parameter settings and barcode data — giving you the information needed for event verification, blockchain traceability, pilot site ROI generation, troubleshooting and predictive fleet-wide trend analysis.

### **Zebra DNA — Set Up. Secure. Manage. Optimize.**

With more than 50 years of field-proven innovation, Zebra knows the scanning journey better than other providers. That's why we've engineered Zebra DNA into all of our scanners. This suite of software tools provides constant visibility, increases uptime and gives you the flexibility to respond to changing needs. For example, 123Scan offers a patented configuration wizard that simplifies every step of deploying your scanners. With Advanced Data Formatting, you can easily create scanner data formatting rules to optimize your workflows and solve business problems. ScanSpeed Analytics helps identify poor performing barcodes that slow down transactions. Advanced parsing tools streamline the capture of more kinds of data. Powerful complimentary management software enables easy remote management. And much more.

# Specifications

# Markets and Applications

## Physical Characteristics

|   |   |
|---|---|
| Dimensions  | 1.2 in H x 2.2 in W x 2.8 in D (3.0cm H x 5.6cm W x 7.2cm D)                |
| Weight  | 2.3 oz (65.2g)  |
| Input Voltage Range                                 | 4.75 to 5.25 VDC Host Powered; 4.75 to 5.25 VDC External Power Supply       |
| Operating Current at Nominal Voltage (average)      | Presentation Mode: 360 mA RMS (Typical), Trigger Mode: 350 mA RMS (Typical) |
| Standby Current (Idle) at Nominal Voltage (average) | Presentation Mode: 185 mA RMS (Typical), Trigger Mode: 155 mA RMS (Typical) |
| Color   | Alpine White, Midnight Black  |
| Supported Host Interfaces                           | USB, RS232  |
| USB Certification                                   | USB Certification   |
| User Indicators                                     | Good Decode LEDs, Speaker (adjustable tone and volume)                      |

## Performance Characteristics

|                          |  |
|--------------------------|--|
| Swipe Speed (Hands-Free) | Up to 100 in (254cm) per second for 13 mil UPC in optimized mode |
| Image Sensor             | 1280 x 800 pixels  |
| Aiming Pattern           | Circular 525 nm True Green LED                                   |
| Illumination             | (1) Warm White LED   |
| Imager Field of View     | 48° H x 30° V nominal  |
| Minimum Print Contrast   | 15% minimum reflective difference                                |
| Skew Tolerance           | +/- 60°  |
| Pitch Tolerance          | +/- 60°  |
| Roll Tolerance           | 0°-360°  |

## Imaging Characteristics

|                 |   |
|-----------------|---|
| Graphics Format | Images can be exported as Bitmap, JPEG or TIFF                      |
| Image Quality   | 200 PPI on a 6.0 x 3.8 in (15.2 x 9.5cm) document @ 7.0 in (17.8cm) |

## User Environment

|                       |                              |
|-----------------------|------------------------------|
| Operating Temperature | -4F to +122F (-20C to +50C)  |
| Storage Temperature   | -40F to +158F (-40C to +70C) |
| Humidity              | 5% to 95% RH, non-condensing |
| Environmental Sealing | IP54                         |

## Decode Ranges (Typical)<sup>1</sup>

|                      |  |
|----------------------|--|
| Symbology/Resolution | Near/Far   |
| Code 39: 3 mil       | Trigger Mode: 2.8 in to 5.6 in (7.1cm to 14.2cm)<br>Presentation: 2.8 in to 5.6 in (7.1cm to 14.2cm)   |
| Code 39: 4 mil       | Trigger Mode: 2.4 in to 8.0 in (6.1cm to 20.3cm)<br>Presentation: 2.4 in to 8.0 in (6.1cm to 20.3cm)   |
| Code 39: 5 mil       | Trigger Mode: 1.6 in to 10.0 in (4.1cm to 25.4cm)<br>Presentation: 1.6 in to 9.0 in (4.1cm to 22.9cm)  |
| Code 39: 7.5 mil     | Trigger Mode: 2.1 in to 15.0 in (5.3cm to 38.1cm)<br>Presentation: 2.2 in to 10.0 in (5.6cm to 25.4cm) |
| Code 39: 20 mil      | Trigger Mode: 1.6 in to 35.9 in (4.1cm to 91.2cm)<br>Presentation: 2.0 in to 18.0 in (5.1cm to 45.7cm) |
| Code 128: 3 mil      | Trigger Mode: 2.9 in to 5.5 in (7.1cm to 14.0cm)<br>Presentation: 2.9 in to 5.5 in (7.1cm to 14.0cm)   |
| Code 128: 5 mil      | Trigger Mode: 2.1 in to 9.6 in (5.3cm to 24.4cm)<br>Presentation: 2.1 in to 8.5 in (5.3cm to 21.6cm)   |
| PDF 417: 6.7 mil     | Trigger Mode: 2.3 in to 9.9 in (5.8cm to 25.1cm)<br>Presentation: 2.3 in to 8.9 in (5.8cm to 22.6cm)   |
| UPC: 13 mil (100%)   | Trigger Mode: 1.6 in to 24.7 in (4.1cm to 62.7cm)<br>Presentation: 1.6 in to 14 in (4.1 cm to 35.6cm)  |
| Data Matrix: 10 mil  | Trigger Mode: 1.9 in to 10.8 in (4.8cm to 27.4cm)<br>Presentation: 1.9 in to 9.5 in (4.8cm to 24.1cm)  |
| QR: 20 mil           | Trigger Mode: 0.9 in to 17.3 in (2.3cm to 43.9cm)<br>Presentation: 0.9 in to 14.0 in (2.3cm to 35.6cm) |

## Accessories

Gooseneck Presentation Stand; 3-1 Mount (PC display mount, Presentation stand, Wall mount); supports third-party accessories that support a standard 1/4" - 20 mounting screw

## Regulatory

|                   |  |
|-------------------|--|
| Environmental     | RoHS - EN IEC 63000:2018 Amendment 2015/863<br>WEEE RECAST 2012/19/EU<br>China RoHS - SJ/T 11364<br>REACH - EC 1907/2006   |
| Electrical Safety | EN 62368-1:2014/AC:2015<br>EN 62368-1:2014/A11:2017<br>IEC 62368-1:2014<br>EN IEC 62368-1:2020+A11:2020<br>IEC 62368-1:2018<br>UL 62368-1, third edition<br>CAN/CSA-C22.2 No. 62368-1-19 |
| LED Safety        | EN 62471, IEC 62471 plus all amendments and all national deviations  |
| EMI/RFI           | FCC 47 CFR Part 15B, ICES-003, EN55032, EN55035, EN61000-6-2, EN60601-1-2, IEC60601-1-2, VCCI, and SABS  |

## Retail and Hospitality

- Point of sale: self-checkout
- Buy online pickup in store (BOPIS)
- Price checks
- Mobile coupons
- Loyalty cards
- Driver's license parsing (N.A. only)
- Self-service kiosks

## Light Manufacturing

- Work in progress (WIP)
- Asset tracking

## Transportation

- Ticketing
- Identification verification
- Self-service kiosks

## User Environment

|                               |  |
|-------------------------------|--|
| Drop Specification            | Designed to withstand multiple drops at 5 ft (1.5m) to concrete                  |
| Approved Cleaners             | Refer to the product reference guide for the complete list of approved cleaners. |
| 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                                      |

## Symbol Decode Capability

|                          |  |
|--------------------------|--|
| 1D                       | All major 1D barcodes including 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                       | All major 2D barcodes including PDF417, Micro PDF417, Composite Codes, TLC-39, Aztec, DataMatrix, MaxiCode, QR Code, Micro QR, Han Xin, Postal Codes, SecurPharm       |
| OCR                      | OCR-A, OCR-B, MICR, US Currency  |
| Minimum Input Resolution | Code 39: 3.0 mil; Code 128: 3.0 mil; Data Matrix: 5.0 mil; QR Code: 5.0 mil  |
|                          | Refer to Product Reference Guide for complete list of symbologies.   |

## Utilities and Management

|                                  |  |
|----------------------------------|--|
| 123Scan                          | Programs scanner parameters, upgrades firmware, displays scanned barcode data, scanning statistics, battery health, asset data and prints reports.<br><a href="http://www.zebra.com/123scan">www.zebra.com/123scan</a> |
| Scanner SDK                      | Generates a fully-featured scanner application, including documentation, drivers, test utilities and sample source code.<br><a href="http://www.zebra.com/scannersdkforwindows">www.zebra.com/scannersdkforwindows</a> |
| Scanner Management Service (SMS) | Remotely manages your Zebra scanner and queries its asset information.<br><a href="http://www.zebra.com/sms">www.zebra.com/sms</a>   |

## Warranty

Subject to the terms of Zebra's hardware warranty statement, the DS5502 is warranted against defects in workmanship and materials for a period of Three Years from the date of shipment. Complete Zebra hardware product warranty statement: [www.zebra.com/warranty](http://www.zebra.com/warranty)

## Recommended Services

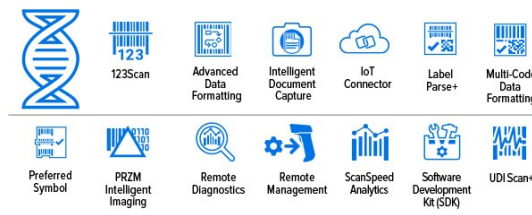
Zebra OneCare Select; Zebra OneCare Essential

## Footnotes

1. Distance dependent on symbology type and size. Specifications are subject to change without notice.

## Zebra DNA

Zebra DNA is a suite of highly intelligent firmware, software, utilities and apps exclusively engineered to ensure maximum performance from every Zebra scanner. For more information about Zebra DNA and its applications, please visit [www.zebra.com/zebradna](http://www.zebra.com/zebradna)



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