

RS5100 Bluetooth Ring Scanner

The 'go-everywhere' single-finger featherweight and rugged ring scanner

Ring scanners can provide your workforce with the hands-free scanning they need to maximize productivity. But today's workers have high expectations for wearable devices. They expect a modern design with a minimal footprint for maximum comfort, ease-of-use that's so intuitive that virtually no training is required, plus point-and-shoot scanning simplicity on every barcode. Your business requires a flexible design that's just as at home in customer-facing areas as the warehouse, a rugged design to ensure a long lifecycle with a low Total Cost of Ownership (TCO), scanning options that match the needs of your environment, plus backroom accessories that reduce management time and cost. Now, you can have it all with the RS5100. A comfortable, featherlight-yet-rugged industrial design at home anywhere in your facility. Zebra's advanced scan engines for unmatched scanning performance. And features that drive ease-of-use and manageability to a new level.



Superior Ergonomics, Ease-of-Use and Application Flexibility

Tiny Size and Extreme Comfort

The small, light, low-profile RS5100 is purposefully understated at just over two ounces and two cubic inches—about 1/2 the size and weight of the legacy RS507X ring scanner.

Flexible Hands-Free Scanning with Many Wearing Styles

With Bluetooth, there's no cable for workers to manage—and handheld host devices can even remain in a holster. Workers can choose their preferred wearing style—on the right or left hand on either a finger or the back of hand, or on a lanyard.

LEDs Lead the Way to the Most Efficient Path

Multiple LEDs on the back of the RS5100 can blink to indicate whether workers should turn left or right, or continue straight ahead.

Prevent the Spread of Germs with Personal Trigger Assemblies

Since the trigger assembly is the only part of the RS5100 that touches skin, we created a modular two-piece design that separates the trigger assembly from the scanner body, providing the option to give each worker their own trigger.

Unmatched Versatility and Flexibility

Use on Practically any Bluetooth-Enabled Device

Pair the RS5100 with virtually any Zebra enterprise-class mobile device to unlock the full feature set. With Class 1 Bluetooth support, you can roam up to 300 feet/91.44 m from the host device, ideal when paired to vehicle mount computers or a dongle in a laptop or other device.

Just Tap for Instant Pairing

With NFC, workers can simply tap the RS5100 on NFC-enabled Zebra devices, such as the WT6000 wearable computer and the TC52 handheld mobile computer. No need to scan a pairing barcode or open Bluetooth settings to identify and select the device.

The RS5100—the next generation in wireless ring scanner design, performance and versatility, ready for your warehouse, distribution center or retail front and back room.

For more information, visit www.zebra.com/rs5100

An Advanced Removable and Replaceable Battery—and More

The RS5100 is the only ring scanner in its class that can support back-to-back shifts without recharging—just swap the batteries to keep it out of the charger and on the fingers of your workers. Choose from two PowerPrecision+ batteries. The standard battery lasts more than a full shift, providing 12 hours of power and 14,400 scans on a single charge. The extended battery powers longer shifts, enables operation in cold environments and provides a longer battery lifecycle. And with PowerPrecision Console, a no-cost Mobility DNA tool, you can spot and discard aging batteries that can no longer hold a full charge, ensuring that your RS5100 ring scanners always have a healthy battery—and workers won't run out of power during a shift.

Choose the Scan Engine That Best Meets Your Needs

The SE4710 delivers high performance scanning with red illumination and an orange LED aiming spot. The global shutter and high-end lens in the SE4770 offer improved scan range compared to the legacy RS507X, for intensive scanning applications. The SE4770's crisp red laser cross-hair aimer is available with white or red illumination.

Flexible Notifications for Any Environment

Choose from visual LED lights or an audible beeper to provide verification of a successful scan. A tactile vibration option alerts workers to exception cases in noisy back rooms.

Trigger Options to Maximize Comfort

The single-sided trigger can be used with or without gloves, and is adaptable for use on either hand. The double trigger allows workers to switch hands on-the-fly, and is designed for use on bare fingers. And the built-in top trigger that is available on either the single- or double-trigger configurations allows users to wear the RS5100 on the side of a finger for a near zero protrusion above the hand—ideal for picking in tight spots.

Best-in-Class Scanning Performance**Fast and Accurate Capture of Virtually any Barcode**

Both scan engine options enable the near instant capture of even damaged, dirty and poorly printed 1D and 2D barcodes through PRZM Intelligent Imaging, a megapixel sensor and Zebra's superior algorithms.

Wider Field of View

Now, it's easier to scan barcodes, in particular larger barcodes. The wider field of view creates a bigger 'sweet spot', greatly minimizing the need to constantly adjust the distance between the scanner and the barcode.

Rugged and ready for the enterprise**Rugged Scanner Features**

The RS5100 offers a best-in-class rugged design, with sealing, a drop specification and a tumble specification, ensuring reliable operation. It's designed to handle drops, bumps, and even a high-pressure hose down. And the metal buckle and nylon straps on the finger mount won't wear out or stretch like the hook-and-loop fasteners in some competitive devices, which only last a few months.

Long Life Triggers

The trigger is rated for millions of actuations (trigger presses)—instead of the competition's few hundred thousand actuations. The result—less frequent replacement of triggers and a lower TCO.

Minimize Downtime with a Maximum Number of Replaceable Elements

The removable and swappable trigger assembly is designed to minimize trips to the service depot and maximize lifecycle. And since the charge contacts and vibration engine are also integrated into the trigger assembly, you can replace all three components right on site, cost-effectively—and with virtually no down time.

Protection From Electrostatic Shock

The RS5100 is built to handle higher levels of electrostatic discharge than competitive products—a common issue with concrete flooring that could easily destroy sensitive scanner electronics.

Innovative Accessories Simplify the Backroom and Reduce Management Time and Cost**Save Time and Money with High Capacity Chargers**

High capacity ShareCradles can charge 20 RS5100 ring scanners or 40 RS5100 batteries, cost-effectively reducing backroom cost and management time. For example, use just 5 high-capacity RS5100 ShareCradles to charge 100 scanners—instead of 100 USB charging cables.

Specifications

Physical Characteristics	
Dimensions	2.67 in. L x 1.10 in. W x 0.83 in. D (2.4 cubic inches) 61 mm L x 28 mm W x 21 mm D
Weight	2.47 oz./70 g
Power	480 mAh standard; 735 mAh extended; PowerPrecision+; Li-ion battery pack
Performance Characteristics	
Optical Resolution	1280 x 960 pixels
Roll	360°
Pitch	±60°
Skew	±60°
Aiming Element	SE4710: 610 nm LED SE4770: 655 nm Laser
Illumination Element	SE4710: 1 Hyper Red 660 nm LED SE4770: 1 Hyper Red 660 nm LED or 1 Warm-White LED
Field of View	SE4710: Horizontal: 42°, Vertical: 28° SE4770: Horizontal: 48°, Vertical: 30°
Ambient Light Immunity (from total darkness)	Max 107,639 lux (direct sunlight)
Supported 1D Symbologies	Code 39, Code 128, Code 93, Codebar/NW7, Code 11, MSI, UPC/EAN, I 2 of 5, Korean 3 of 5, GSI DataBar, Base 32 (Italian Pharma)
Supported 2D Symbologies	PDF417, Micro PDF417, Composite Codes, TLC-39, Aztec, DataMatrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Codes
Supported OCR Symbologies	OCR-A, OCR-B
User Interface	
LED	4 RGB LEDs located at the back side of the device (programmable)
Beeper	Up to 85 dBA @ 10 cm from the back of the device beeper port
Restore Key	User accessible for emergency warm boot and Bluetooth reconnect (after disconnect timeout)
Scan Triggering	Manual ambidextrous trigger
User Environment	
Operating Temp.	32° F to 122° F/0° C to 50° with standard battery -4° F to 122° F/-20° C to 50° with extended battery
Storage Temp.	-40° F to 140° F/-40° C to 60° C including battery -40° F to 158° F/-40° C to 70° C excluding battery
Humidity	5% - 95% non condensing
Drop Spec.	Multiple 6 ft./1.8 m drops to concrete over the operating temperature range
Tumble Spec.	1,000 1.64 ft./0.5 m tumbles
Sealing	IEC 60529: IP65
Vibration	Sine 5-2000Hz, 4g peak, 1 hour per axis; Random 20-2000Hz, 6g RMS or 0.04g2/Hz, 1 hour per axis
Pairing	NFC; Tap to Pair
Electrostatic Discharge (ESD)	±15kVdc air discharge; ±8kVdc contact discharge

Data Capture	
Scanning Options	SE4710 or SE4770 1D/2D standard range imaging engines * Twice the scanning range of the RS507X
Peripherals and Accessories	
4-slot and 20-slot ring charger; 8-slot and 40-slot battery charger; back of hand mount1; lanyard1; spare trigger mounts	
Wireless PAN	
Bluetooth	Class 1 and 2, Bluetooth v4.0 with Bluetooth Low Energy (BLE); Supporting profiles: Serial Port Profile (SPP), Human Interface Device Profile (HID), Service Discovery Application Profile (SDAP)
Warranty	
Subject to the terms of Zebra's hardware warranty statement, the RS5100 is warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For complete warranty statement, go to: http://www.zebra.com/warranty	
Regulatory	
Environmental Compliance	RoHS Directive 2011/65/EU; Amendment 2015/863 REACH SVHC 1907/2006
Recommended Services	
Zebra OneCare Essential and Select: Maximize Zebra device availability, device value and operational efficiency with these fully-featured support services that set the industry bar for support.	
SE4710	
Symbology/Resolution	Near/Far
Code 39: 4 mil	3.3 in./8.4 cm to 8.8 in./22.4 cm
Code 128: 5 mil	2.8 in./7.1 cm to 8.2 in./20.8 cm
Code 39: 5 mil	2.0 in./5.08 cm to 13.5 in./34.3 cm
PDF417: 5 mil	3.1 in./7.9 cm to 8.4 in./21.3 cm
DataMatrix: 10 mil	2.9 in./7.4 cm to 10.1 in./25.7 cm
UPCA: 100%	1.8 in./4.62 cm to 26.0 in./66.0 cm
Code 39: 20 mil	2.0 in./5.082 cm to 30.0 in./76.2 cm
SE4770	
Symbology/Resolution	Near/Far
Code 39: 3 mil	3.0 in./7.6 cm to 5.8 in./14.7 cm
Code 128: 5 mil	2.3 in./5.8 cm to 9.8 in./24.9 cm
PDF417: 5 mil	3.0 in./7.6 cm to 7.9 in./20.1 cm
PDF417: 6.67 mil	2.5 in./6.4 cm to 10.1 in./25.7 cm
DataMatrix: 10 mil	2.1 in./5.3 cm to 11.0 in./27.9 cm
UPCA: 100%	1.6 in./4.1 cm to 24.9 in./63.2 cm
Code 128: 15 mil	2.4 in./6.1 cm to 27.8 in./70.6 cm
Code 39: 20 mil	1.6 in./4.1 cm to 36.1 in./91.7 cm
QR: 20 mil	1.1 in./2.8 cm to 17.5 in./44.5 cm

Markets and Applications

Warehousing/ Distribution

- Picking
- Sorting and put away
- Packing

Transportation & Logistics

- Sortation
- Picking
- Truck loading
- Shipping
- Receiving

Manufacturing

- Inventory management
- Replenishment
- Sortation
- Assembly
- Finished goods verification

Retail

- Click and collect
- In-store inventory
- Price mark-downs

Hospitality

- Sorting and picking

Field Service

- Route accounting
- Package verification

PRODUCT SPEC SHEET

RS5100 BLUETOOTH RING SCANNER



NA and Corporate Headquarters
+1 800 423 0442
inquiry4@zebra.com

Asia-Pacific Headquarters
+65 6858 0722
contact.apac@zebra.com

EMEA Headquarters
zebra.com/locations
contact.emea@zebra.com

Latin America Headquarters
+1 786 245 3934
la.contactme@zebra.com

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Point of Sale & Barcode Solutions

POSMarket specialises in providing point of sale (POS), barcode and mobile data solutions for smart businesses. We service all industries including retail and hospitality, transport and logistics, government, healthcare, manufacturing and warehousing. Our expert team can provide solutions that can save your business money today.

Shop By Department

Barcode Scanners



- Barcode Readers
- Barcode Software
- Data Collectors



Mobile Computers

- Mobile Computers
- Data Collectors
- Vehicle Computers



Label Printers

- Desktop Printers
- Industrial Printers
- Mobile Printers



Point of Sale

- POS Systems
- Receipt Printers
- Scales



ID Card Printing

- ID Card Printers
- ID Software
- Card Printer Supplies



Media & Accessories

- Labels
- Ribbons
- Paper Rolls



Software

- Inventory Software
- Asset Tracking
- Barcode Software



Wireless

- Wifi Systems
- Pager Systems
- Site Surveys



RFID

- RFID Printers
- RFID Readers
- RFID Tags

Shop By Industry



Education/Libraries

Timesaving printing solutions to meet all your staff, student & asset identification needs. Need **Labels and Printers**? From **scanners to receipt printers**, whatever your needs, we are here to help.



Retail Stores

Keep customers coming back and keep stock from running out. Check out our range of **scanners, cash drawers, receipt printers and cash registers**.



Cafes/Restaurants

We can help you to decrease lines for your customers, complete tableside transactions, or reward patrons with **loyalty cards**. From cash registers to touch screen systems we can assist.



Warehouse Management

Our superior **warehousing solutions** will allow your business to provide comprehensive, up-to-date information and streamline your processes to improve efficiency.



Construction

Keep track of your inventory and stop inventory shrinkage. Our inventory tracking software allows you to easily keep control of your stock.



Hospitals/Healthcare

Improve patient care with the accurate identification of patients, medications, samples, treatments, lab results & records. We have a huge range of **label printers, consumables & scanners**.



Transport & Logistics

Track materials through your facility or through your supply chain using **labels, barcode scanners and portable data terminals**. Optimize your production and information flows.



Government

We can supply you with all your needs, from **receipt printers and cash drawers, to barcode scanners and label printers**. Less paperwork, data entry and time spent looking up records.



Mining

Rugged identification solutions help manage assets from the ground up. From **portable data terminals and scanners to software and printers**, we can find a solution to meet your needs.

Shop By Brand

