

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 — practically weightless for all day comfort.

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.¹

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.

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 sensor and high-end lens in the SE4770 offer high performance scanning and superior motion tolerance, ideal 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.

For more information, please visit us on <https://www.barcodes.com.au/zebra-rs5100-bluetooth-ring-scanner/> or call us on 1300 800 999

PRODUCT SPEC SHEET

RS5100 SINGLE-FINGER BLUETOOTH RING SCANNER

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.

RS5100 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	1280 x 960 pixels
Resolution 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, 1 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.	-4° F to 122° F/-20° C to 50° C
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)	±20kVdc air discharge; ±10kVdc contact discharge

Data Capture

Scanning Options	SE4710 or SE4770 1D/2D standard range imaging engines
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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)
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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
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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

Footnotes

- 1 Double trigger, back-of-hand and lanyard mounts available Q1 2020.
- 2 Field of View limited.
- 3 -4° F/-20° C operation with extended battery.

Markets and Applications

Warehousing/ Distribution

- Picking
- Put away
- Sorting
- Replenishment
- Packing
- Inventory
- management
- Returns processing

Transportation & Logistics

- Sortation
- Picking
- Truck loading
- Package handling
- (verification, scanning and sorting)
- Shipping
- Receiving
- Track and trace

Manufacturing

- Inventory
- management
- Replenishment
- Track and trace
- Sortation
- Assembly
- Finished goods verification

Retail

- Click and collect
- In-store inventory
- In-store picking
- Price mark-downs
- Grocery pick-up and delivery

Healthcare

- Sorting and picking
- Put away
- Loading/unloading

Hospitality

- Sorting and picking

Field Service

- Route accounting
- Package verification



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