RS2100 Wearable Scanner

The world's smallest enterprise wearable scanner

Hands-free mobility can give your workflows an instant productivity boost, but you need a solution that your workers want to wear — and fits your budget. Introducing the RS2100 Wearable Scanner — the smallest enterprise wearable scanner on the market. An innovative back of hand design offers new levels of worker comfort and dexterity. The unique mount leaves the palm completely unobstructed, providing complete freedom to handle items. The very low profile enables easy picking in tight spaces. There's nothing complicated about this wearable scanner: it's simple to purchase, deploy, wear and manage. An optional Device Tracker license makes it easy to find a missing RS2100 scanner. Get the edge you need to compete in today's economy with the RS2100 Wearable Scanner — a new level of wearable comfort, productivity and simplicity.

A New Standard in Worker Comfort and Productivity

Smallest enterprise wearable scanner in the market
When your workers are scanning hundreds or thousands of items per shift, user comfort is critical. The RS2100 is practically weightless at just a little over one ounce (31 g), minimizing fatigue over long shifts. At only 0.57 in./14.6 mm high, the RS2100 features the lowest profile on the market for effortless picking — even in the tightest spaces.

Best-in-class "bare palm" gripping capability
The innovative back of hand mount leaves the entire palm free — unlike other back of hand scanners that have a cumbersome strap across the palm or cover the palm completely. With fully bare palms, workers get a better and more secure grip on the items they're handling — boosting productivity and reducing breakage.

The Easiest Wearable Experience for Your Workforce

Ready to use right out of the box
Workers will intuitively know how to wear the RS2100. The RS2100 mount comfortably fits all hand sizes, so there's no need to order and manage different mounting sizes; you simply choose right- or left-hand versions. And the battery is embedded, eliminating the need to manage separate batteries.

No more lost scanners
If your business struggles with lost and misplaced wearable scanners, Device Tracker[1] is the answer you've been waiting for. This optional Mobility DNA tool makes it easy to pinpoint the location of a missing RS2100, whether it was left behind in a break room or on a warehouse shelf. And you can create a virtual tether to prevent workers from leaving their wearable scanner or mobile computer behind. No more time-consuming searches, workflow interruptions or replacement costs.

Fast and flawless barcode capture
Our high performance scan engine with PRZM Intelligent Imaging technology enables lightning fast capture of virtually any 1D/2D barcode, even if they are damaged, poorly printed or dirty. The wider field of view creates a bigger sweet spot to make it even easier to scan any size barcode — large or small.

Durable for all-day, every-day use

Drop it on the floor. Splash water on it. Use it in a dusty backroom or out on the receiving dock. With IP54 sealing and a 6 ft./1.8 m to concrete drop specification, the RS2100 is engineered for durability.

Flexible notifications for easy scan confirmation

Workers instantly know when a scan was successful with a choice of notifications: LED lights that are visible in the line of sight, an audible beeper and/or haptic vibration.

Ideal for packing stations

Zebra's Bluetooth Adapter allows the Bluetooth-enabled RS2100 to connect via USB to a PC with a large screen that makes it easy for packers to view needed data. Up to seven (7) RS2100 scanners can be paired simultaneously to a non-mobile host, eliminating the need to purchase a mobile computer for each worker.

Compatible with Zebra mobile computers and consumer devices

The RS2100 works with Zebra's handheld and wearable mobile computers, as well as Apple and Android tablets and smartphones — and even PCs. The result? No matter what types of devices you have deployed today, or what types of devices you plan to purchase tomorrow, the RS2100 provides a cost-effective path to add hands-free scanning to your existing workflows.

Enterprise-level service at the right price

Zebra OneCare Essential and Select help eliminate unexpected repair costs and keeps RS2100 scanners up and running…at a fraction of the cost of a single uncovered repair. You get unmatched, direct-from-Zebra support including: coverage for accidental damage and normal wear and tear, live-agent technical support and numerous options that allow you to tailor your support plan to meet all of your service needs.

The Zebra-only Difference — Zebra DNA

Scanner configuration made easy

With 123Scan, an intuitive configuration wizard simplifies every step of deployment, from configuration to data formatting and firmware updates. Even first-time users can get scanners up and running quickly. And the ability to format barcode data for your application makes it easy to integrate RS2100 scanners into any workflow.

Prevent Bluetooth interference with Wi-Fi™ Friendly Mode

Wi-Fi Friendly Mode ensures that your cordless RS2100 scanners only operate on channels that are not shared with your Wi-Fi network — protecting your Wi-Fi environment from potential interference and workforce productivity.

Split-second device pairing

Pair the RS2100 with supported NFC-enabled devices with a quick tap. Even new workers are up and running in seconds, without support. Don't have an NFC-enabled host? No problem. With Zebra's Scan-to-Connect utility, you can connect the RS2100 to a Bluetooth-enabled PC, tablet or smartphone in an instant. Simply open the Scan-to-Connect utility on the mobile device and scan the pairing barcode that appears on screen with the RS2100.

Specifications

Physical Characteristics

Dimensions	2.05 in. L x 1.40 in. W x 0.57 in. H 52 mm L x 35.5 mm W x 14.6 mm H
Weight	1.1 oz./31 g
Optical Resolution	1280 x 800 pixels
Roll	360°
Pitch	±60°
Skew	±60°
Aiming Element	SE4770: 655 nm Laser
Illumination Element	SE4770: 1 Hyper Red 660 nm LED
Field of View	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
Power	480 mAh embedded Li-ion battery pack
Network Connections	WPAN (Bluetooth)
Scanner Support	SE4770 1D/2D standard range imaging engine
Pairing	NFC; Tap to Pair

Performance Characteristics

User Environment	RoHS Directive 2011/65/EU; Amendment 2015/863 REACH SVHC 1907/2006
Operating Temperature	32° F to 122° F/0° C to 50° C
Storage Temperature	-40° F to 140° F/-40° C to 60° C
Humidity	5% - 95% non-condensing
Drop Specification	Multiple 6 ft./1.8 m drops to concrete over the operating temperature range
Tumble Specification	1,000 1.64 ft./0.5 m tumbles
Sealing	IEC 60529: IP54
Vibration	Sine 5-2000Hz, 4g peak, 1 hour per axis; Random 20-2000Hz, 6g RMS or 0.04g2/Hz, 1 hour per axis
Electrostatic Discharge (ESD)	±15kVdc air discharge; ±8kVdc contact discharge

Wireless PAN

Bluetooth	Class 1 and 2, Bluetooth v4.0 with Bluetooth Low Energy (BLE); Supported profiles: Serial Port Profile (SPP), Human Interface Device Profile (HID), Service Discovery Application Profile (SDAP)

Decode Ranges (Typical Working Ranges)[2]

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
PDF 417: 6.67 mil	2.5 in. / 6.3 cm to 10.1 in. / 25.7 cm
DataMatrix: 10 mil	2.1 in. / 5.3 cm to 11.0 in. / 27.8 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 Code: 20 mil	1.1 in. / 2.8 cm to 17.5 in. / 44.5 cm

Warranty

Subject to the terms of Zebra's hardware warranty statement, the RS2100 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 www.zebra.com/warranty

Recommended Services

Zebra OneCare Essential; Zebra OneCare Select

Footnotes

1. Device Tracker requires a license.
2. Printing resolution, contrast and ambient light dependent.Specifications are subject to change without notice.

Mobility DNA

For information on Mobility DNA, visit www.zebra.com/mobilitydna. Mobility DNA features vary by model; a support contract may be required. To learn what solutions are supported, visit: https://developer.zebra.com/mobilitydna

User Interface

LED	2 RGB LEDs located at the back side of the device
Beeper	Up to 85 dBA @ 10 cm from the back of the device beeper port