

# RS4000 1D Ring Scanner

## Powerful hands-free 1D scanning for Zebra's next-generation WT6000 wearable mobile computer

Whether your workers spend their days moving products through your warehouse or retail store, or moving packages through distribution centers and onto trucks for delivery, every time they need to set an item down to check a paper work order or scan a barcode with a handheld device, their productivity decreases. But when you put the small and lightweight RS4000 1D ring scanner on the fingers of workers who are using Zebra's WT6000 wearable mobile computer, your workers are free to keep their hands and eyes on the items they are handling. The result? Worker productivity increases. And a split-second press of the RS4000 trigger verifies task accuracy and provides the real-time inventory visibility you need to eliminate out-of-stocks.



### Give your Workers Hands-Free Scanning Power

Ring scanner design leaves hands free to move packages and other materials, improving worker productivity and operational efficiency.

### Increase Productivity with a Wide Working Range

Our patented Adaptive Scanning technology allows workers to capture barcodes from near contact to 15 ft./4.5 m.

### Two Scanning Modes

Workers can either press the trigger button once to scan a single barcode or keep the trigger depressed to continuously scan barcodes.

### Capture Virtually any Barcode in Practically any Condition

With our advanced scanning algorithms, your workers can capture scratched, dirty, damaged and poorly printed barcodes, first time, every time.

### A Patented Liquid Polymer Scan Element with a Lifetime Warranty

Friction and wear are eliminated, maximizing uptime and worker productivity, along with a low total cost of ownership.

### A Bright Scan Line

The easy to see scan line ensures easy aiming for first-time capture of barcodes in virtually any lighting condition. And with an oversize LED light, users can easily see when a scan is successful.

### Diecast Zinc Scan Engine Chassis, Single Board Construction and Scan Engine Isolation

Superior impact protection for the scan engine improves reliability in the event of a drop.

**Put the RS4000 on the fingers of your workers to improve productivity and accuracy in your operations.**

For more information about the RS4000 1D Ring Scanner, visit [www.zebra.com/rs4000](http://www.zebra.com/rs4000) or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

**Cable Wear Beads**

The areas of the cable most vulnerable to wear and tear are protected to help keep your RS4000 ring scanners looking like new.

**Supports Reduced Space Symbology (RSS)**

A broad range of scanning capabilities provides future-proofing, increasing your investment protection.

**Convenient Swivel Feature**

Workers can easily switch the RS4000 from right to left handed operation.

**Separate Finger Strap Assembly**

Give each worker their own easy-to-replace finger strap assembly to help improve hygiene and prevent the spread of germs.

**Full Shift Power**

The RS4000 draws very little power from the wearable mobile computer, preserving plenty of power for full shift operation on a single charge.

# Specifications

## Physical and Environmental Characteristics

|                 |   |
|-----------------|---|
| Dimensions      | 1.9 in. H x 1.4 in. W x 1.9 in. D<br>4.8 cm H x 3.6 cm W x 4.8 cm D   |
| Weight          | 2.0 oz./56.7 g  |
| Current         | 92 mA typical/121 mA max (one LED on)   |
| Standby Current | 12 µA typical/60 µA max   |
| Battery Backup  | Rechargeable UPS battery for operation during power loss; internal rechargeable battery for multiple months of real-time clock backup |
| Voltage         | 3.1 VDC to 3.6 VDC  |

## User Environment

|                        |   |
|------------------------|---|
| Operating Temp.        | -22° to 122° F/-30° to 50° C  |
| Storage Temp.          | -25° to 160° F/-40° to 70° C  |
| Humidity               | 5% to 95% non-condensing  |
| Ambient Light Immunity | Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED: 450 Ft. Candles (4,844 Lux) Sunlight: 10000 Ft. Candles (107,640 Lux)<br>Note: LED lighting with high AC ripple content can impact scanning performance |
| Environmental Sealing  | IP54  |

## Performance Characteristics

|                    |   |
|--------------------|---|
| Light Source       | 650nm LASER 1.7mW peak power                              |
| Scan Rate          | 92 min., 104 typical, 116 max. scans/sec (bi-directional) |
| Yaw <sup>1</sup>   | ± 40° from normal   |
| Roll <sup>2</sup>  | ± 35° from vertical                                       |
| Pitch <sup>3</sup> | ± 65° from normal   |

## Footnotes

1 – Skew (Yaw): Controlled by rotating the wrist from left to right or vice versa  
2 – Roll (Tilt): Controlled by rotating the wrist clockwise or counterclockwise  
3 – Pitch: Controlled by dropping or raising the wrist