



# RS309

## WEARABLE SCANNER

### HIGH PERFORMANCE HANDS-FREE SCANNING IN DEMANDING ENVIRONMENTS

Equip your workers with high-performance hands-free scanning with the RS309 Wearable Scanner from Motorola. Part of the WT4000 Series Wearable System, the device is worn on the back of the hand, and delivers accurate and dependable scanning as well as all day comfort for workers picking items to fill orders in the warehouse. Regardless of which 1D bar code symbologies you utilize, or even if symbols are poorly printed, damaged or low-contrast, you can depend on superior reliability for the instant capture of information. And with a wide scan range, the RS309 provides the flexibility to meet the needs of multiple applications in your warehouse with a single cost-effective device.

### RUGGED AND FLEXIBLE ENOUGH FOR THE MOST DEMANDING ENVIRONMENTS

The RS309 is ruggedly built to withstand demanding industrial environments, such as those found in warehouses, transportation and logistics operations, distribution centers and manufacturing sites. The housing, now a darker color, retains its new appearance longer. The scanner's bright laser diode means the scan line is easy to see in nearly any lighting condition — indoors and outdoors. The IP54 sealing of the RS309 ensures reliable operation, even when exposed to moisture or dusty environments. And when condensation is an issue,

for example, when moving back and forth between freezer and non-freezer environments, there is a model that offers a field-replaceable desiccant pack to absorb moisture and help ensure reliable operation in spite of exposure to wide temperature swings.

### EASY TO USE AT ANY SCANNING DISTANCE

The RS309 delivers exceptional mid- to longer-range scanning in a small package — ideal in industrial applications where bar codes are often scanned from distances longer than an arm's length. The easy-to-use device requires little or no training — simply aim and press the trigger switch. And an innovative "aim spot" is used to guide the scan beam, enabling first time accurate scanning at any distance within the available scanning range.

### ADVANCED ERGONOMICS FOR SUPERIOR COMFORT AND SAFETY

The comfortable and practical RS309 is designed for right- or left-hand use. Positioned out of the way on the back of the hand, the weight of the scanner is evenly distributed, ensuring that it can be worn for a full shift without fatigue. The device is easily triggered by a low-profile thumb-activated switch that fits securely on an index finger. The adjustable glove is easily removed, fits hands of all sizes and is completely washable. And to protect workers from injury, the cable that links the scanner to the trigger breaks away easily.

## FEATURES

### Hands-free scanning

Back-of-the-hand design frees operator's hands to move packages, products or materials, improving efficiency and productivity

### SE1224HP scan engine

New fuzzy logic decoding algorithms provide premium scanning for all one dimensional codes including poorly printed, damaged or low-contrast bar codes

### Supports new Reduced Space Symbology (RSS) standard

Broadens the range of your scanning capabilities and protects your investment

### 650 nm bright laser diode

Easy to see scan line, even in outdoor applications

### Longer-range scanning performance

Easily captures bar code data on labels that are out of reach

### Innovative aim spot

Helps position scan beam for fast and accurate long-range bar code scanning

### Ergonomic design

Ensures user comfort and protects against fatigue

### RoHS compliant

Meets RoHS requirements

**PRODUCT SPEC SHEET**  
RS309 WEARABLE SCANNER

**LOW TOTAL COST OF OWNERSHIP**

When it comes to smart technology investments, the RS309 delivers. From order picking and packing to put-away and more, the RS309 provides the real-time data required to ensure accuracy of item selection for customer orders as well as a real-time view of inventory. Business processes are streamlined and employee productivity is

increased, delivering a rapid return on investment. The highly rugged design combines with Motorola's service offerings to ensure maximum uptime for a low total cost of ownership. Motorola's full complement of services — including maintenance and support — help ensure peak performance and further maximize uptime to help derive full value from your investment.

For more information on how the RS309 can benefit your business, please visit us on the web at [www.motorola.com/RS309](http://www.motorola.com/RS309) or access our global contact directory at [www.motorola.com/enterprisemobility/contactus](http://www.motorola.com/enterprisemobility/contactus)

**RS309 SERIES SPECIFICATIONS**

**PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS**

Dimensions:	2.7 in. L x 2.4 in. W x 1.5 in. H 6.8 cm L x 6.1 cm W x 3.8 cm H (Standard version w/o cables attached)
Weight:	3.5 oz/98 g (Standard version w/o cables attached)
Current:	140 mA typical, 180 mA max
Standby Current:	60 uA max
Voltage:	3.1 VDC to 3.6 VDC
Vcc Noise Level:	200 mV p-p max

**Performance Characteristics**

Light Source:	650nm LASER, 1.06mW
Scan Rate:	30 min., 35 typical, 40 max. scans/sec (bidirectional)

**Nominal Working Distance:**

Density:	5 mil	7.5 mil	13 mil	20 mil	55 mil
Code Type:	39	39	UPC	39	39
Far (Guaranteed):	7 in.	9.75 in.	20.25 in.	29.25 in.	54.5 in.
Far (Typical):	9.5 in.	15.25 in.	27.25 in.	42.5 in.	84.75 in.
Yaw <sup>1</sup> :	± 50° from normal				
Roll <sup>2</sup> :	± 20° from vertical				
Pitch <sup>3</sup> :	± 65° from normal				

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

**User Environment**

Operating Temp.:	-22° to 122° F/-30° to 50° C
Storage Temp.:	-40° to 140° F/-40° to 60° C
Humidity:	5% to 95% non-condensing
Drop Specification:	4 ft./1.2 m drop to concrete
Sealing:	IP54 sealing
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: 8000 Ft Candles (86,111 Lux) <b>Note:</b> LED lighting with high AC ripple content can impact scanning performance.

**Regulatory**

Electrical Safety:	Certified to CSA C22.2 No. 60950-1, EN60950-1, IEC 60950-1
EMI/RFI:	FCC Part 15 Class B, ICES-003 Class B, European Union EMC and R&TTE Directives, Australian AS/NZS 4268
Laser Safety:	CDRH Class II, IEC 60825-1 Class 2

**EN410 CE**



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