

# Bluetooth Ring Scanner

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## Wearable Scanner

The 8650 Bluetooth® Ring Scanner is a comfortable and easy-to-implement productivity tool for all mobile operators who regularly need to scan bar codes. The small, lightweight device rests on the finger, with the Bluetooth module worn comfortably on the wrist. Using our unique EZ-Pair process, pairing with any Bluetooth® enabled hand-held, wearable, fixed-station or vehicle-mount computer is as simple as a single scan. Once in use, the Bluetooth® Ring Scanner reliably transmits critical data from up to 30 feet away. Operators gain unsurpassed freedom of movement to perform bar code reading tasks quickly, safely and comfortably - all while keeping both hands free.

In a business climate where every advantage matters, the Bluetooth Ring Scanner can deliver a 10-15% gain in productivity over a tethered scanner or other solution. What will your business do with an extra 10%?



## Features

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- **Low Profile, Hands Free:** Reduces interference and improves worker transaction time while reducing accidental drops, lowering the total cost of ownership
- **Flexible Design:** Strap and connector design allows worker to wear the scanner on the back of the hand or on the arm, left or right, increasing worker satisfaction and comfort
- **Bluetooth® Wireless Connectivity:** Class 2 Bluetooth® Version 2.0 keeps the scanner connected up to 30 feet (10m) from the computer, increasing productivity by allowing workers to move to the task
- **Scanning Options:** Standard range scanner that reads all common 1D codes up to 45" (1143mm) or imager that reads both 1D and 2D symbologies up to 21.5" (516mm) to ensure maximum productivity
- **Built Tough Ring:** Magnesium alloy top enclosures, and a smooth, low-profile magnesium trigger offer greater durability and ease of use, leading to increased productivity, a lower cost of ownership and reduced downtime

# Bluetooth Ring Scanner Technical Specifications

## Mechanical/Environmental

|                              |   |
|------------------------------|---|
| <b>Dimensions</b>            | Bluetooth Module: 2.4" x 1.96" x 0.79" (62 x 50 x 20 mm)<br>Ring Laser Scanner: 1.9" x 1.1" x 1.1" (48 x 28 x 28 mm)<br>Ring Imager: 1.9" x 1.1" x 1.3" (48 x 28 x 33 mm) |
| <b>Weight</b>                | 4.8oz (136g), Bluetooth module, battery, ring and hand strap  |
| <b>Operating Temperature</b> | -4° to +122°F (-20° to +50°C)   |
| <b>Storage Temperature</b>   | -22° to + 122°F (-30° to +50°C)   |
| <b>Humidity</b>              | 5% to 95% relative humidity non-condensing  |
| <b>Drop</b>                  | 4' (1.22m) drops to concrete  |
| <b>Environmental Sealing</b> | Independently certified to meet IP54 standards for moisture and particle resistance   |
| <b>ESD</b>                   | 15KV Air discharge, 8KV contact discharge   |

## System Architecture

|                            |  |
|----------------------------|--|
| <b>Optional Software</b>   | Scan Wedge   |
| <b>Battery</b>             | Li-ion, 3.7V, 750mAh   |
| <b>Battery Life</b>        | Standard range laser ring: 17+ hours; 2D imager: 12+ hours illumination off, 8+ hours with illumination on |
| <b>Imager/Scanner</b>      | Standard range laser ring, 2D imager ring w/ enhanced white LED illumination                               |
| <b>Decode Capabilities</b> | Ring Scanner - Reads standard 1D symbologies; Ring Imager - Reads standard 1D and 2D symbologies           |
| <b>Warranty</b>            | 1 year factory warranty  |
| <b>Service Plans</b>       | Optional three-and five-year service programs offer worry-free mobile computing                            |

## Wireless Connectivity

|             |                                |
|-------------|--------------------------------|
| <b>WPAN</b> | Bluetooth® 2.0 + EDR, class II |
|-------------|--------------------------------|

### Ring Scanner

| Typical Performance* | High Density (HD)               |
|----------------------|---------------------------------|
| Narrow Width         |                                 |
| 4 mil                | 25 mm - 139.7 mm (1" - 5.5")    |
| 5 mil                | 31.8 mm - 203.2 mm (1.3" - 8")  |
| 7.5 mil              | 38.1 mm - 330.2 mm (1.5" - 13") |
| 10 mil               | 38.1 mm - 457.2 mm (1.5" - 18") |
| 13 mil               | 38.1 mm - 609.6 mm (1.5" - 24") |
| 15 mil               | 38.1 mm - 711.2 mm (1.5" - 28") |
| 20 mil               | 44.5 mm - 838.2 mm (1.8" - 33") |
| 40 mil               | 914.4 mm (36")†                 |
| 55 mil               | 1143 mm (45")†                  |

\*Performance may be impacted by bar code quality and environmental conditions

†Near ranges are largely dependent upon the width of the bar code and the scan angle

### Ring Imager

| Typical Performance* | Near Focus                   | Far Focus                      |
|----------------------|------------------------------|--------------------------------|
| Narrow Width         |                              |                                |
| 5.0 mil              | 89 mm - 178 mm (3.5" - 7")   | 165 mm - 191 mm (6.5" - 7.5")  |
| 6.67 mil             | 95 mm - 152 mm (3.8" - 6")   | N/A                            |
| 7.5 mil              | 70 mm - 197 mm (2.8" - 7.8") | 108 mm - 254 mm (4.3" - 10")   |
| 10 mil               | 83 mm - 184 mm (3.3" - 7.3") | 146 mm - 260 mm (5.8" - 10.3") |
| 13 mil               | 57 mm - 222 mm (2.3" - 8.8") | 76 mm - 406 mm (3" - 16")      |
| 15 mil               | 191 mm (7.5")†               | 349 mm (13.8")†                |
| 20 mil               | 279 mm (11")†                | 516 mm (21.5")†                |

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†Near ranges are largely dependent upon the width of the bar code and the scan angle

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**For more information:**  
[www.honeywellaidc.com](http://www.honeywellaidc.com)

### Honeywell Scanning & Mobility

9680 Old Bailes Road  
Fort Mill, SC 29707  
800.582.4263  
[www.honeywell.com](http://www.honeywell.com)



# Honeywell



[www.L-TronDirect.com](http://www.L-TronDirect.com)

800-830-9523

[info@L-Tron.com](mailto:info@L-Tron.com)

596 Fishers Station Dr | Victor, NY | 14564 | Suite 1 A

[www.L-Tron.com](http://www.L-Tron.com)

