Newland AIDC
SCANNING MADE SIMPLE

1D & 2D | Dual Interface | RS232 | USB-C | White Illumination | Infrared



# RVM100-50 Ring Scanner

OEM Scan Engines

## Features

**1D and 2D Scanning.**

The RVM100-50 Ring Scanner is equipped with advanced 1D and 2D barcode scanning technology, enabling quick and efficient reading of barcodes on bottles and cans. This scanner can effectively read the most commonly used 1D barcodes and is evolving to support the growing use of 2D codes in the market.

**Practical Performance**

The RVM100-50 Ring Scanner is equipped with five wide-angle scan engines and serves as a compact, cost-effective alternative to the RVM100. It is designed for businesses operating machines with lower throughput requirements, providing an efficient solution that requires a lower investment cost. The scanner features bright diffuse lighting to enhance visibility, ensuring quick and accurate scanning.

**High Motion Tolerance.**

The RVM100-50 Ring Scanner features advanced scanning technology with high-speed acquisition and processing. This capability is paired with Newland's advanced and efficient decoding algorithms. For decades, this technology has been the foundation of Newlands' scanning solutions, and it has been specifically optimized for the RVM to ensure seamless scanning at the critical entry point of a reverse vending machine. This optimization helps minimize delays, leading to user frustration during the reverse vending process.

**Clear Feedback.**

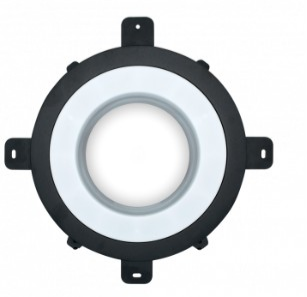
The RVM100-50 Ring Scanner has a large LED indicator ring that offers clear and concise feedback during the scanning process. This feature lets users quickly see if the product codes have been successfully read. Additionally, the host can control the tri-color LED indicator, allowing it to display different machine states or indicate whether the device is available for customer use.

**24v Power Support.**

The RVM100-50 Ring Scanner operates on a 24v power supply, commonly used in industrial machines. This feature simplifies integration and installation, removing the necessity for step-down transformers or additional adapters typically needed for standard low-voltage scanners.

**Size and Value Proposition.**

The RVM100-50 Ring Scanner packages high-value technology into a compact form factor, offering manufacturers and integrators greater design flexibility. This all-in-one scanning solution handles all scanning functions through a single unified interface, unlike managing multiple separate imaging-based scanners, which are often costly and unreliable. Alternatively, basing the RVM100-50 on Newland's mature scan engine technology enhances reliability with proven solid-state scan engines.





## Suggested industries

Retail

# RVM100-50 Ring Scanner Technical specifications

| | |
|---|---|
| **Data Capture** | |
| 1D | EAN-13, EAN-8, UPC-A, UPC-E, Code39, Code128 |
| 2D | Data Matrix, QR Code, Aztec |
| Image Sensor | 640x480 CMOS x 5 |
| Illumination | White LED |
| Illumination | Infrared, distance 0-150mm |
| Resolution | 1D: 5mil |
| Scan Modes | Sense Mode, Command Mode, Continuous Mode |
| Scan Angle Roll | 360˚ |
| Scan Angle Pitch | ±60˚ |
| Scan Angle Skew | 360˚ |
| **Physical** | |
| Current Standby | 24VDC ＜300mA |
| Current @ 24VDC Operating | <700mA |
| Dimensions (mm) | Window: diameter 150mm |
| Dimensions (mm) | Size of Recycled Bottle: 50-110mm |
| Dimensions (mm) | 335mm(W) x 169mm(D) x 335mm(H) |
| Interfaces | RS-232 (RJ50), USB (Type C) |
| Notifications | Beeper, Multi-color LED |
| Weight | 2610g |
| **Environmental** | |
| Operating Temperature | -30°C to 45°C (-22˚F to 113˚F) |
| Storage Temperature | -50°C to 85°C (-58˚F to 185˚F) |
| Humidity | 5%~95% (non-condensing) |
| **Accessories** | |
| Standard | USB cable, RS-232 cable, Power adapter DC24V |
| **Warranty** | |
| Standard | 2 Years |

**Newland AIDC EMEA**

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