



**RSPOS-100** 

**UHF RFID POS Scanner** 

**User Manual** 

WWW.RADIANTSENSORS.COM



This document is to serve as a guide on how to setup and work with Radiant Sensors POS UHF RFID SCANNER. It will provide useful information on how to connect and operate POS UHF RFID SCANNER. Read it carefully before and during using POS UHF RFID SCANNER. Keep this user manual handy for future use.



### Feedback from User

Thanks for using **POS UHF RFID SCANNER**. As always, our goal is to make your experience the best possible ever, and your constructive comments and feedback are highly appreciated. Share your thoughts, comments, suggestion and ideas with us. Tell us what you like or dislike about software, hardware and even the datasheet of **POS UHF RFID SCANNER**. You can contact us by any of the following ways, we look forward to hearing from you.

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- Warranty is valid for 12 months.
- Warranty only applies to manufacturing defect in materials and malfunctions.
- Damage caused by misuse, abuse, neglect, alteration, problems with electrical power, usage
  not in accordance with product instructions, acts of nature, or improper installation or repairs
  made by anyone other than Radiant Sensors authorized third-party service provider is not
  covered under warranty.
- Warranty does not cover freight cost for both ways.



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# POS UHF RFID SCANNER

POS UHF RFID SCANNER is a new data capturing device from Radiant Sensors which is designed to grab EPC of RFID tags and deliver that data securely to a host for processing. It renders superior performance and read reliability for a wealth of applications; with incredible speed and at an economical price point.

Snap-On installation along with exceptional ergonomic design has made POS UHF RFID SCANNER literally convenient to setup and comfortable to use. In press of a button POS UHF RFID SCANNER can toggle between two scanning modes to read RFID tags individually or continuously. With its high RF sensitivity that provides for greater accuracy, higher throughput and longer reads, you can readily know the detailed information of the packages without unpacking or opening the container.





#### **Features**

- Snap On installation
- Driver free setup eliminates integration with any software or hardware
- Orientation insensitive design resulting in faster and more accurate tag reads
- Single or Continuous scanning modes
- Fast read rate for demanding applications
- Region free application
- Best-in-class receive sensitivity
- Enhanced interference rejection
- Expansive read range settings
- Rugged yet compact and lightweight for effortless use
- Superior ergonomic design for both left and right handed user
- USB 2.0 for power and communication line
- IP41 sealing for dust and water resistance



# **Applications**

- Any applications requiring a reliable and easy UHF RFID tag scanning
- Retail POS
- Hypermarket
- Pharmacy & Healthcare
- Warehouse
- Receiving/Shipping
- Product authentication
- Office



Specifications		
Dimensions	(H × W × L) $3.34 \times 3.46 \times 6.73$ in ( $8.5 \times 8.8 \times 17.1$ cm)	
Weight	150 g	
Storage Temperature	-10 °C to +70 °C	
Humidity Operating Range	Up to 80% relative humidity	
Material	ABS	
Colour	Lava	
Ingress Protection	IP41	
Input Voltage	5 VDC	
Input Current	500 mA @ 5VDC	
Power Connector	USB 2.0	
Connectivity	USB 2.0	
Operating Modes	Single Scan	
	Continuous Scan	
Communication Standards	USB 2.0	
Operating System	Windows, MAC, Linux, Android	
Nominal Read Range	10-15 cm	
Frequency Range	Region Free	
Supported Standards	EPC Gen 2	
RFID Antenna Type	Integrated, Orientation Insensitive	



# Closer View



No.	Description
1	Scanning Area
2	Activity Indicator LED
3	Activation/Toggle Button

# Sample Usage





### Setup

As mentioned earlier, **POS UHF RFID SCANNER** is quiet easy to setup and exploit. No driver is needed to be installed before using it. Just plug the USB cable into USB port and that's all. **POS UHF RFID SCANNER** is now ready. **POS UHF RFID SCANNER** can be used in two different modes; Single Scanning and Continuous Scanning.

## Single Scanning Mode

In this mode **POS UHF RFID SCANNER** reads a single tag with each press of activation/toggle button. The EPC of the tag is then sent to the host through USB port.

## Continuous Scanning Mode

To use **POS UHF RFID SCANNER** in Continuous Scanning mode, press activation/toggle button and hold it for more than 1 second. Keep holding the button and **POS UHF RFID SCANNER** continually reads in range tags and sends their EPC to the host through USB port.



## **Records of Revision**

This page keeps the records of changes to this document. The document was originally released as Revision A.

REV	NAME	DESCRIPTION OF REVISION	DATE
А	R.PRS	Initial Release	2015-11-14





**Radiant Sensors** is addressing challenges of global intricacy in today's omnipresent digital devices, affording its customers to create novel experiences for end users.

Radiant Sensors designs, develops, and manufactures passive and active RFID hardware products as well as IOT sensor devices for short and long range wireless identification technology.

Radiant Sensors is positioned as a major player in the worldwide market for sub gigahertz UHF (Ultra-High Frequency) and Active radio-frequency identification (2.45 GHz) technologies. Our devices are field proven and have been in operation for many years throughout the world.

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#### **FCC Statement**

- 1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.
- 2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.