

OPTICON

RS-3000 Ring Scanner, 2D codes, Bluetooth

The Opticon RS-3000 barcode and 2D code finger scanner is used wherever you need both hands free while scanning barcodes or e.g. QR codes. Thanks to the USB and Bluetooth 4.2 communication interface, the reader can be used anywhere and connected to any operating system such as Windows, Android or Apple. Besides the standard way of charging through a USB cable the RS-3000 can be wireless charged also.

The RS-3000 is a very small, lightweight and hands-free Bluetooth ring scanner. The RS-3000 can easily be clicked onto a ring scanner bracket to transform it into a wearable. Comfortable for all day use allowing your mobile workforce to quickly and safely scan barcodes.



Highlights of the RS-3000 2D CMOS Imager

- One of the smallest and lightest ring barcode scanners available
- Advanced ergonomic design allows for all day comfort and scanning efficiency regardless of hand size
- The scanner easily clicks onto a ring scanner bracket to transform into a wearable
- Adjustable finger strap allows for an easy and quick conversion for either right or left hand operation
- Bluetooth 4.2 compliant that supports Bluetooth low energy (BLE)
- NFC tag for easy Bluetooth pairing
- Wireless charging with any Qi compatible charging pad or charging via USB-C port
- Ideal companion scanner for Apple and Android mobile devices
- Accurate battery monitoring, lasts a full working day, up to 20 hours
- Extreme high-performance scan engine for stress-free scanning and fast response, even in the case of poor-quality barcodes. Up to 100 fps
- Barcode scanner is triggered via external thumb button
- Configurable and programmable with the free Software Development Kit to customize scanning behavior
- Made of durable, high impact-resistant polycarbonate plastic, survives 1.5 m drops to concrete

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Technical Description

Functionality & Operation

CPU Type	32-bit RISC, with real-time chip (RTC)
1D Barcode Symbolologies	All standard one-dimension barcodes
2D Code Symbolologies	all standard 2D-Codes
Indicators	2x LED (red/green/blue), buzzer
Communication interface	Bluetooth 4.2 BLE, USB
Operation interface	2x button, 1x trigger
Data memory	512kB

Optical

Scanning rate	100 fps
Maximal skew angle	65°
Maximal pitch angle	65°
Curvature	
Resolution	0.1 mm / 4 mil
Depth of scan field	24 mm ~ 435 mm
Bar code scanner	2D Imager
Resolution	640 x 480 px

Electrical

Main battery pack	Li-Ion 400 mAh, 3,7V
Main battery pack operating time	27hod (3500 scans with Bluetooth on)

Mechanical

Dimensions	Width: 41mm, Height: 44.7mm Length: 47.7mm (incl bracket)
Weight	34.4g (incl bracket)
Body housing	ABS plastic, polycarbonate
Color	black, dark grey, blue

Environment

Maximal ambient light	100000lux
Shock resistance	drop from 1,5 m onto concrete surface
Vibrations resistance	12-200 Hz with 3.3G for 10 min

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