

## 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        |

**CODEWARE, s.r.o.**  
Jaromírova 484/37  
120 00 Praha 2 - Nusle  
IČ: 61061395, DIČ: CZ61061395

+420 222 562 444  
codeware@codeware.cz  
<https://www.codeware.cz/>

