

RS-3000

Bluetooth® Ring Barcode Scanner

Highlights

- One of the smallest and lightest ring barcode scanners available
- High-performance (100 frames per second) 2D Imager barcode scan engine that rapidly scans and decodes a wide variety of 1D or 2D barcodes
- Advanced ergonomic design allows for all day comfort and scanning efficiency regardless of hand size
- Scanner easily clicks onto a ring scanner bracket to transform into a wearable ring scanner
- 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 shift up to 20 hours
- Barcode scanner is triggered via external thumb button
- Configurable and programmable with the free Software Development Kit (SDK) to customize scanning behavior
- Made of durable, high impact- resistant polycarbonate plastic, survives 5 foot drops to concrete
- Backed by a two year warranty



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Product Specifications

OPERATION

CPU: 32-bit

OS: Proprietary

SOFTWARE: 4 applications available (more applications are programmable in C-language. Free software development kit with free RX compiler)

RTC: Supports year, month, day, hour, minute, second (leap year supported)

MEMORY

FLASHROM: 512 kB

RAM: 96 kB

EXTERNAL FLASHROM: 1 MB (>50,000 barcodes + time stamp)

OPERATING INDICATORS

VISUAL: 2 LED (red/green/blue)

AUDIBLE: Buzzer

OPERATING KEYS

ENTRY OPTIONS: 2 keys total, 1 function key, 1 scan key

STRAP: 1 scan trigger

COMMUNICATION

USB: USB-C, supports USB-HID, USB-COM, USB-MSD

BLUETOOTH: Version 4.2 (BLE), SPP, HID, 1 to 1 connection, master & slave mode, authentication and encryption

POWER

RECHARGEABLE BATTERY: Lithium-Ion 3.7V 400mAh

OPERATING TIME:

Batch: 4500 scans (1 scan / 5 sec)

Batch, idle: 2 months

Bluetooth: 3500 scans (1 scan / 5 sec)

Bluetooth, idle: 27 hours

DATA RETENTION TIME: Indefinite

CHARGING METHOD: Wireless with any Qi compatible charging pad or with an USB-C cable

2D IMAGER OPTICS

ENGINE: Opticon

LIGHT SOURCE: Aiming green LED, warm white illumination LED

SCAN METHOD: CMOS area sensor, 640 x 480 pixels, black and white

SCAN RATE: 100 scans/sec

READING PITCH ANGLE: ± 65°

READING SKEW ANGLE: ± 65°

READING TILT ANGLE: 360°

CURVATURE: R>20 mm (EAN13)

MINIMUM PCS VALUE: 0.2

FIELD OF VIEW:

Horizontal: 38°

Vertical: 28.9°

Diagonal 46.4°

DEPTH OF FIELD AT CODE 39:

5 mil (0.127 mm) 2.16 - 5.04 in (55 - 128 mm)

10 mil (0.25 mm) 2.13 - 9.41 in (54 - 239 mm)

20 mil (0.5 mm) 2.79 - 17.13 in (71 - 435 mm)

DEPTH OF FIELD AT QR CODE:

6.7 mil (0.169 mm) 2.44 - 4.45 in (62 - 113 mm)

15 mil (0.381 mm) 0.94 - 9.92 in (24 - 252 mm)

SUPPORTED SYMBOLOGIES

BARCODE (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 Databar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISSN-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

BARCODE (2D): Aztec Code, Aztec Runes, Chinese Sensible code, Codablock F, Composite codes, Data matrix (ECC200), Passport MRZ (OCR-B), maxi Code (mode 2-5), MicroPDF417, MicroQR Code, PDF417, QR Code

BARCODE (POSTAL CODES): Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET

DURABILITY

TEMPERATURE:

Operation: -4 to 140 °F (-20 to 60 °C)

Storage: -40 to 158 °F (-40 to 70 °C)

HUMIDITY:

Operation: 5% to 90% (non-condensing)

Storage: 5% to 90% (non-condensing)

AMBIENT LIGHT IMMUNITY:

Incandescent: 10,000 lx max

Fluorescent: 10,000 lx max

Direct sun: 100,000 lx

DROP TEST: 5 ft (1.5 m) drop onto concrete surface

VIBRATION TEST: 12 - 200Hz with 3.3G for 10 min

PROTECTION RATE: IP 42

PHYSICAL

DIMENSIONS (WXHXD):

Without bracket: 1.27 x 0.82 x 1.88 in
(32.3 x 20.8 x 47.7 mm)

With bracket: 1.61 x 1.76 x 1.88 in
(41 x 44.8 x 47.7 mm)

WEIGHT: Ca. 0.92 oz (26.2 g), ca. 1.21 oz (34.4 g) (incl. bracket)

CASE: ABS+PC, black/grey

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, FCC, RoHS, IEC62471:2006

ENCLOSED ITEMS

Wrist strap



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