

RS-2006

Bluetooth® Ring Barcode Scanner

Highlights

- 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 or hand preference
- Simple Bluetooth pairing and hands-free scanning improves mobile worker's productivity
- Adjustable finger strap allows for an easy and quick conversion for either right or left hand operation
- High speed 100 scans/second laser barcode scanner
- Barcode scanner is triggered via external thumb button
- Leverage the free Software Development Kit (SDK) to customize scanning behavior
- Made of durable, high impact-resistant polycarbonate plastic, survives 5 foot drops to concrete
- Sold as a kit which includes the OPN-2006 Bluetooth laser barcode scanner, finger strap, USB cable and neck lanyard
- Backed by a two year warranty



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Product Specifications

OPERATION

CPU: 32-bit

OS: Proprietary

SOFTWARE: 4 applications available (also 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

OPERATING INDICATORS

VISUAL: Multi color LED (red/green/orange/blue)

AUDIBLE: Buzzer

OPERATING KEYS

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

STRAP: 1 scan trigger

COMMUNICATION

USB: Mini USB, Version 1.1, USB-VCP (USB-HID and USB-MSD on request)

BLUETOOTH: Version 4.0, SPP, HID, 1 to 1 connection, master and slave mode, authentication and encryption

POWER

RECHARGEABLE BATTERY: Lithium-Ion Polymer 3.7V 240mAh

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: Enclosed USB cable

BARCODE SCANNER OPTICS

ENGINE: Opticon

LIGHT SOURCE: 650 nm visible laser diode

SCAN METHOD: Vibrating mirror

SCAN RATE: 100 scans/sec

READING PITCH ANGLE: -25 to 0°, 0 to +25°

READING SKEW ANGLE: -40 to -8°, +8 to +40°

READING TILT ANGLE: -20 to 0°, 0 to +20°

CURVATURE: R>15 mm (EAN8), R>20 mm (EAN13)

MINIMUM PCS VALUE: 0.45

DEPTH OF FIELD AT PCS 0.9 UPC:

39 mil (1.0 mm) 2.76 - 21.65 in (70 - 550 mm)

20 mil (0.5 mm) 1.97 - 14.96 in (50 - 380 mm)

10 mil (0.25 mm) 1.97 - 9.06 in (50 - 230 mm)

6 mil (0.15 mm) 1.97 - 5.12 in (50 - 130 mm)

5 mil (0.127 mm) 2.36 - 4.33 in (60 - 110 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-ISMN-ISSN, Matrix 2of5, MSI/Plessey-UK/Plessey, S-Code, Telepen, Tri-Optic

BARCODE (POSTAL CODES): Chinese Post, Korean Postal Authority code

DURABILITY

TEMPERATURE:

Operation: 32 to 104 °F (0 to 40 °C)

Storage: -4 to 140 °F (-20 to 60 °C)

HUMIDITY:

Operation: 20 - 85% (non-condensing)

Storage: 20 - 85% (non-condensing)

AMBIENT LIGHT IMMUNITY:

White: 4,000 lx max

Fluorescent: 4,000 lx max

Direct sun: 80,000 lx max

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

VIBRATION TEST: 10 - 100 Hz with 2G for 30 minimum

PROTECTION RATE: IP 42

PHYSICAL

DIMENSIONS (WXHXD): 2.13 x 1.77 x 2.44 in (54 x 45 x 62 mm)

WEIGHT: Ca. 1.42 oz (42 g) (incl. battery and strap)

CASE: ABS, Black

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, FCC, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

ENCLOSED ITEMS

USB cable, neck strap

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