

RS-2006

Laser scanner

The RS-2006 is the industry's smallest, lightweight and hands-free Bluetooth ring scanner. It is designed for left and right-handed use and features an adjustable finger strap. Comfortable for all day use allowing your mobile workforce to quickly and safely scan barcodes.



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 1.5 m drops to concrete
- Backed by a two year warranty

RS-2006

Product Specifications

Operation

CPU: 32-bit

O/S: 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

Operating indicators

Visual: 1 LED (red/green/orange/blue)

Non-visual: buzzer

Operating keys

Entry options: 2 keys total, 1 function key, 1 scan key

Strap: 1 scan trigger

Communication

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

Bluetooth: Ver. 4.0, SPP, HID, 1 to 1 connection, master & slave mode, authentication and encryption, BLE

Power

Rechargeable battery: Lithium-Ion 3.7V 240mAh

Operating time(Batch): 4.500 scans (1 scan / 5 sec)

Operating time(Batch, idle): 2 months

Operating time(Bluetooth): 3.500 scans (1 scan / 5 sec)

Operating time(Bluetooth, idle): 27 hours

Data retention time: Indefinite

Charge method: Enclosed USB cable

Barcode scanner optics

Light source: 650 nm visible laser diode

Scan method: Vibrating mirror

Scan rate: Up to 100 scans / second

Trigger mode: Manual

Reading pitch angle: $\pm 35^\circ$

Reading skew angle: -50° to -8° , $+8^\circ$ to $+50^\circ$

Reading tilt angle: $\pm 20^\circ$

Curvature: $R > 15$ mm (EAN8), $R > 20$ (EAN13)

Min. resolution at pcs 0.9: 0.127 mm / 5 mil

Min. PCS value: 0.45

Depth of field UPC:

70 - 650 mm (1.00 mm) / 2.76 - 25.59 in (39 mil)

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

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

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

60 - 110 mm (0.127 mm) / 2.36 - 4.33 in (5 mil)

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 2 of 5, ISBN-ISMN-ISSN, Matrix 2 of 5, MSI/Plessey-UK/Plessey, S-Code, Telepen, Tri-Optic

Postal code: Chinese Post, Korean Postal Authority code

Durability

Temperature in operation: 0 to 40 °C / 32 to 104 °F

Temperature in storage: -20 to 60 °C / -4 to 140 °F

Humidity in operation: 20% to 85% (non-condensing)

Humidity in storage: 20% to 85% (non-condensing)

Ambient light immunity: Incandescent 4,000 lx max,

Fluorescent 4,000 lx max, direct sun 80,000 lx

Drop test: 1.5 m / 5 ft drop onto concrete surface

Vibration test: 10 - 100Hz with 2G for 30 min

Protection rate: IP42

Physical

Dimensions (W x H x D): 54 x 45 x 62 mm / 2.13 x 1.77 x 2.44 in

Weight body: Ca. 42 g / 1.42 oz (incl. battery and strap)

Case: ABS, Black

Regulatory & safety

Product compliance: CE, FCC, VCCI, RoHS, IEC60825-1 Class 2, FDA CDRH Class II

Items

Enclosed: Mini USB cable, Neck strap