

OPN-2004

Ultra Compact Laser Barcode Scanner



Highlights

- Simple, one-touch barcode scanning
- Most affordable USB batch scanner
- Small form factor: 2.44" x 1.26" x 0.69" and weighs only 1.1 ounces
- Easily fits into a pocket or on a key chain
- High speed 100 scans/second laser barcode scanner
- Stores over 10,000 barcodes plus timestamps
- USB rechargeable, high capacity Lithium-Ion battery
- Audible and visible feedback after a successful scan
- Leverage the free Software Development Kit (SDK) to customize scanning behavior
- Scanner comes with USB data/charging cable and neck lanyard
- Backed by a two year warranty

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Product Specifications

OPERATION

CPU: STR7 32 bit, 96 MHz

OS: Proprietary

SOFTWARE: Programmable in C-language. Ansi-C cross compiler obtainable. Free downloadable software development kit available

RTC: Accurate to ± 90 seconds per month. Leap year supported

MEMORY

FLASHROM: 512 KB (Program Storage) + 1 MB (Storage) + time/date stamps

RAM: 96 KB

OPERATING INDICATORS

VISUAL: 2 dual red/green LED's

AUDIBLE: Multi-Tone speaker

OPERATING KEYS

1 Trigger Key

1 Multi-Function Key

COMMUNICATION

USB: Mini USB-B, Ver 2.0 (HID, VCP)

POWER

BATTERY: 3.7V 140mAh, Lithium Polymer, Rechargeable Internal Battery

OPERATING TIME: 8 hours or more at 1 scan/5 seconds

CHARGING METHOD: Enclosed USB cable

BARCODE SCANNER OPTICS

LIGHT SOURCE: Visible Red (650 nm) Laser

SCAN METHOD: Vibrating Mirror

SCAN RATE: 100 scans/sec

MINIMUM BARCODE RESOLUTION: 0.127 mm

READING PITCH ANGLE: -30° to 0°, 0° to +30°

READING SKEW ANGLE: -50° to -8°, +8° to +50°

READING TILT ANGLE: Tilt: $\pm 20^\circ$

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

MINIMUM PCS VALUE: 0.45

DEPTH OF FIELD (UPC @ PCS 0.9):

39 mil (1.0 mm): 2.95 - 22.44 in (75 - 570 mm)

19.69 mils (0.5 mm): 2.17 - 13.78 in (55 - 350 mm)

9.84 mils (0.25 mm): 2.17 - 7.87 in (55 - 200 mm)

5.91 mils (0.15 mm): 2.17 - 4.33 in (55 - 110 mm)

5 mils (0.127 mm): 2.56 in - 3.54 in (65 - 90 mm)

SUPPORTED SYMBOLOGIES

BARCODE (1D): EAN-13, EAN-13 Add-on, EAN-8, EAN-8 Add-on, UPC-A, UPC-A Add-on, UPC-E, UPC-E1, UPC-E Add-on, Code 39, NW-7 (Codabar), Industrial 2 of 5, Interleaved 2 of 5, Code 93, Code 128, MSI/Plessey, IATA, UK/Plessey, Telepen, Matrix 2 of 5, NW-7 ABC Code, NW-7 CX Code, S-Code, Tri-Optic, Code 39 Full ASCII, Code 39 It.Pharmaceutical, EAN 128, GS1 DataBar Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, Code 11

BARCODE (POSTAL CODES): Korean Post, Chinese Post Matrix 2 of 5

DURABILITY

TEMPERATURE:

Operation: 32 to 122 °F (0 to 50 °C)

Storage: -4 to 140 °F (-20 to 60 °C)

HUMIDITY:

Operation: 20 - 85% (noncondensing)

Storage: 20 - 85% (non-condensing)

AMBIENT LIGHT IMMUNITY:

Fluorescent: ~ 4,000 lx

Incandescent: ~ 4,000 lx

Sunlight: ~ 80,000 lx

DROP TEST: 4 ft (1.2 m) onto concrete surface

VIBRATION TEST: 10 - 100 Hz with 2G for 1 hour

MTBF: 10,000 hours

PHYSICAL

DIMENSIONS (WXHxD): 2.44 x 1.26 x 0.69 in (62 x 32 x 17.5 mm)

WEIGHT (BODY): Ca. 1.1 oz (30 g) (including battery)

CASE: ABS, Black

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: FCC Part 15 Subpart B Class B, VCCI Class B, RoHS, JIS-C-6802:2005 Class 2, IEC 60825-1 Ed2 2007 Class 2, FDA CDRH Class II

ENCLOSED ITEMS

OPN-2004, USB data/charging cable, Lanyard, Quick Start Guide

SOLD SEPARATELY

AC USB adapter

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