

# OPN2005 Bluetooth scanner



## > HIGHLIGHTS

High performance scanning



Bluetooth 2.1

Rechargeable battery

Lightweight design

Programmable

SCALE 1:1



# OPN2005

## > BASIC PRODUCT SPECIFICATIONS

### OPERATION

**CPU:** 32-bit **O/S:** 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:** 1024 kB (>20.000 barcodes + time stamp)

### OPERATING INDICATORS

**VISUAL:** Multi color LED (red/green/orange/blue) **NON-VISUAL:** Buzzer

### OPERATING KEYS

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

### COMMUNICATION

**USB:** Mini USB, Ver. 1.1, USB-VCP (USB-HID and USB-MSD on request) **BLUETOOTH:** Ver. 2.1, SPP, HID, 1 to 1 connection, master & slave mode, authentication and encryption

### POWER

**RECHARGEABLE BATTERY:** Lithium-Ion Polymer 3.7V 240mAh **OPERATING TIME (BATCH):** 1.000 scans (1 scan / 5 sec) **OPERATING TIME (IDLE):** 1-2 months **OPERATING TIME (BLUETOOTH):** Ca. 12 hours **RAM DATA RETENTION TIME (EMPTY):** Ca. 72 hours **RAM DATA RETENTION TIME (FULL):** 1-2 months **CHARGING METHOD:** Enclosed USB cable

### BARCODE SCANNER OPTICS

**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) **MIN. PCS VALUE:** 0.45 **DEPTH OF FIELD:** At PCS 0.9 UPC, 80 - 300 mm / 3.15 - 11.81 in (1.0 mm / 39 mil), 60 - 250 mm / 2.36 - 9.84 in (0.5 mm / 20 mil), 60 - 200 mm / 2.36 - 7.87 in (0.25 mm / 10 mil), 60 - 130 mm / 2.36 - 5.12 in (0.15 mm / 6 mil), 60 - 110 mm / 2.36 - 4.33 in (0.127 mm / 5 mil)

### SUPPORTED SYMBOLOGIES

**BARCODE (ID):** 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 **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 - 85% (non-condensing) **HUMIDITY IN 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:** 1.5 m / 5 ft drop onto concrete surface **VIBRATION TEST:** 10 - 100 Hz with 2G for 30 min **PROTECTION RATE:** IP 42

### PHYSICAL

**DIMENSIONS (W X H X D):** 32 x 62 x 16 mm / 1.26 x 2.44 x 0.63 in **WEIGHT BODY:** Ca. 29 g / 1.0 oz (incl. battery) **CASE:** ABS, Black

### REGULATORY & SAFETY

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

### ENCLOSED ITEMS

USB cable, Neck strap