

# OPN-3002n 2D data collector



## > HIGHLIGHTS

High speed 2D scanning



Bluetooth 2.1

Ultra compact

Lightweight design

Programmable

SCALE 1:1



# OPN-3002n

## > BASIC PRODUCT SPECIFICATIONS

### OPERATION

**CPU:** 32-bit CISC / 96 MHz **O/S:** Proprietary **RTC:** Supports year, month, day, hour, minute, second (leap year supported)

### MEMORY

**FLASHROM:** 1 MB **SRAM:** 96 kB

### OPERATING INDICATORS

**VISUAL:** 1 LED (red/green/blue) **NON-VISUAL:** Buzzer

### OPERATING KEYS

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

### COMMUNICATION

**USB:** mini USB **BLUETOOTH:** Ver. 2.1, SPP, HID, 1 to 1 connection, master / slave mode, authentication and encryption

### POWER

**OPERATING TIME:** 10 hours (2 scans / 10 sec incl Bluetooth communication)

### 2D IMAGER OPTICS

**LIGHT SOURCE:** Green aiming LED, 2 illumination red LEDs **SCAN METHOD:** CMOS area sensor, 752 x 480 pixels **SCAN RATE:** Up to 60 fps **READING PITCH ANGLE:** -50 to 0°, 0 to +50° **READING SKEW ANGLE:** -50 to 0°, 0 to +50° **READING TILT ANGLE:** 360° **FOCAL DISTANCE:** 124.8 mm / 4.91 in from front **CURVATURE:** R>20 mm (12 digits) R>16 mm (10 digits) **MIN. RESOLUTION AT PCS 0.9:** 0.127 mm / 5 mil **MIN. PCS VALUE:** 0.30 **FIELD OF VIEW:** Horizontal 40.6°, Vertical 26.4° **DEPTH OF FIELD:** At Code 39, 90 - 110 mm / 3.54 - 4.33 in (0.127 mm / 5 mil), 65 - 185 mm / 2.56 - 7.28 in (0.254 mm / 10 mil), 65 - 260 mm / 2.56 - 10.24 in (0.508 mm / 20 mil) **DEPTH OF FIELD:** At QR Code 90 - 110 mm / 3.54 - 4.33 in (0.212 mm / 8.4 mil), 55 - 180 mm / 2.17 - 7.09 in (0.381 mm / 15 mil) \* The depth of field depends on the view angle and symbol length

### SUPPORTED SYMBOLOGIES

**BARCODE (1D):** UPC-A, UPC-A Add-on, UPC-E, UPC-E Add-on, EAN-13, EAN-13 Add-on, EAN-8, EAN-8 Add-on, JAN-8, JAN-13, Code 39, Tri-Optic, Codabar (NW-7), Industrial 2 of 5, Interleaved 2 of 5, S-Code, IATA, Code 93, Code 128, MSI/Plessey, UK/Plessey, TELEPEN, Matrix 2of5, Code 11, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Composite GS1-DataBar, Composite GS1-128, Composite EAN, Composite UPC **POSTAL CODE:** Chinese Post, Korean Postal Authority code **2D CODE:** PDF417, MicroPDF417, Codablock F, QR Code, Micro QR Code, DataMatrix (ECC 0 - 140 / ECC 200), MaxiCode (Modes 2 to 5), Aztec Code, Chinese Sensible Code

### DURABILITY

**TEMPERATURE IN OPERATION:** 0 to 50 °C / 32 to 122 °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:** Fluorescent 10,000 lx max, Direct sun 100,000 lx max, Incandescent 10,000 lx max **DROP TEST:** 1.5 m / 5 ft drop onto concrete surface

### PHYSICAL

**DIMENSIONS (W X H X D):** 36 x 83 x 21.5 mm / 1.42 x 3.27 x 0.85 in **WEIGHT BODY:** Ca. 57 g / 2 oz (incl. battery) **CASE:** ABS, black or white

### REGULATORY & SAFETY

**PRODUCT COMPLIANCE:** CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II, IEC62471-1, EN60950-1, IEC60950-1, EN55022, EN55024

### ENCLOSED ITEMS

USB cable, Neck strap