

# OPTICON

## Wireless Scanners

# OPI3301

## 2D CMOS imager with auto-focus

 **Bluetooth™**

**Serial Cradle**



**+ Related products**



**OPI3201**

- Cabled device
- 2D CMOS imager with auto-focus
- RS232, Keyboard Wedge, USB



**OPI2201**

- Cabled device
- 2D CMOS imager with auto-focus
- RS232, Keyboard Wedge, USB



**OPR3301**

- Wireless device
- Barcode laser scanner
- Bluetooth

### Operating indicators

- Visual: 1 large LED (red/green/blue)
- Non-visual: Buzzer

### Operating keys

- Entry options:  
1 scan key

### Communication

- Bluetooth: Ver. 2.0, SPP, output power class 2, range up to 10 m, 1 to 1 connection, master/slave mode, authentication and encryption

### Power

- Current consumption: 150mA (stand by), max. 300mA
- Rechargeable battery: Lithium-Ion 3.7V 1100mAh
- Operating time: Ca. 10 hours (1 scan / 5 sec)
- Charging method: Separate cradle CRD3301
- Battery charging time: Ca. 3 hours (when charged with power supply), ca. 6 hours (when charged with USB)

### 2D Imager Optics

- Light source: Aiming laser diode, illumination LEDs
- Scan method: CMOS area sensor, 900 x 512 pixels, gray scale
- Scan rate: Up to 80 fps(excl. focusing)
- Image format: Bitmap, JPEG
- Reading pitch angle: -50 to 0°, 0 to +50°
- Reading skew angle: -50 to 0°, 0 to +50°
- Reading tilt angle: 360°
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil
- Min. PCS value: 0.45
- Field of view: Horizontal 40°, Vertical 23°
- Depth of field: at Code 39  
15 - 55 mm / 0.59 - 2.17 in (0.127 mm / 5 mil),  
15 - 200 mm / 0.59 - 7.87 in (0.254 mm / 10 mil),  
90 - 870 mm / 3.54 - 34.25 in (1.0 mm / 39 mil)
- Depth of field: at QR Code  
15 - 170 mm / 0.59 - 6.69 in (0.339 mm / 13 mil)

### Supported Symbolologies

- 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-ISSN-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- Postal code: Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET
- 2D code: Aztec Code, Aztec Runes, Chinese Sensible code, Codablock F, Composite codes, Data Matrix (ECC200/ECO-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

### Durability

- Temperature in operation: -20 to 50 °C / -4 to 122°F
- Temperature in storage: -25 to 60 °C / -13 to 140 °F
- Humidity in operation: 5 - 85% (non-condensing)
- Humidity in storage: 5 - 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
- Vibration test: 10 - 100 Hz with 2G for 1 hour
- Protection rate: IP 42

### Physical

- Dimensions (w x h x d):  
56 x 137 x 113 mm / 2.20 x 5.39 x 4.45 in
- Weight body: Ca. 110 g / 3.9 oz (incl. battery)
- Case: ABS, black or white

### Regulatory & Safety

- Product compliance: CE, FCC, VCCI, RoHS, IEC 60825-1 Class 2, IEC 62471, IEC 60825-1 Class 1, IEC 60950-1

### Enclosed items

- Hand strap

### Sold separately

- CRD3301 Cradle: Bluetooth communication, charging