

# OPI-3301i

## 2D CMOS Imager

The OPI-3301i is a lightweight, comfortable and wireless handheld scanner with a pistol grip design. It has a powerful CMOS imager to scan both 1D and 2D.



## Highlights

- Wireless 2D CMOS imager scanner that rapidly scans and decodes 1D and 2D barcodes at 60 Frames Per Second (FPS)
- Reads barcodes from LCD screens and mobile phones
- Supports Apple MFi, SPP and HID Bluetooth profiles for added flexibility
- Memory: 1MB SDRAM, 1MB Flash ROM
- Small form factor: 113 x 132 x 56 mm (WxHxD) and 132 grams including battery
- Extremely durable: IP42 rating against dust and moisture and survives 5 ft drop to concrete
- Sold separately: CHG-3201 charging cradle, CRD-3301B charging/communication cradle and OPA-3201 Bluetooth dongle
- Backed by a two year warranty

# OPI-3301i

## Product Specifications

### Memory

CPU: 32-bit  
Flashrom: 1 MB  
RAM: 95 Kbyte

### Operating indicators

Visual: 2 LED, 1 (red/green), 1 (blue)  
Non-visual: buzzer

### Operating keys

Entry options: 1 scan key

### Communication

Bluetooth: Ver. 2.1, SPP/HID, output power class 2, range up to 10 m, 1 to 1 connection, master / slave mode, authentication and encryption

### Power

Current consumption: 15 mA (standby), max 330 mA  
Battery: Lithium-Ion 3.7V 1100 mAh  
Standby time: Approx. 72 hours (with wireless connection)  
Reading: Approx. 24 hours (1 scans / 5 seconds)  
Charging method: Separate cradle CHG-3201 / CRD-3301B  
Battery charging time: Ca. 3 hours (when charged with power supply)

### 2D Imager Optics

Light source: Aiming LED bar, illumination LEDs  
Scan method: CMOS area sensor, 752 x 480 pixels, gray scale  
Scan rate: up to 60 fps (excl. focusing)  
Image format: Bitmap, JPEG  
Reading pitch angle:  $\pm 50^\circ$   
Reading skew angle:  $\pm 50^\circ$   
Reading tilt angle:  $360^\circ$   
Curvature:  $R \geq 16\text{mm}$  (10 digits),  $R \geq 20\text{mm}$  (12 digits)  
Field of view: Horizontal 400, Vertical 260  
Min. resolution at PCS 0.9: 0.1 mm / 3.94 mil  
Min. pcs value: 0.20  
Depth of field at code 39:  
60 - 95 mm (0.127 mm) / 2.36 - 3.74 in (5 mil)  
45 - 185 mm (0.254 mm) / 1.77 - 7.28 in (10 mil)  
50 - 250 mm (0.5 mm) / 1.97 - 9.84 in (20 mil)

### Depth of field at QR Code:

70 - 95 mm (0.169 mm) / 2.76 - 3.74 in (6.65 mil)  
35 - 165 mm (0.254 mm) / 1.38 - 6.49 in (10 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 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5, MSI/Plessey, UK/Plessey, S-Code, Telepen, Tri-Optic  
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), Maxi Code (mode 2-5), MicroPDF417, Micro QR Code, Passport MRZ (OCR-B), PDF417, QR 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% to 85% (non-condensing)  
Humidity in storage: 20% to 85% (non-condensing)  
Ambient light immunity: Incandescent 10,000 lx max, Fluorescent 10,000 lx max, direct sun 100,000 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: IP42

### Physical

Dimensions (W x H x D): 113 x 132 x 56 mm / 4.45 x 5.20 x 2.20 in  
Weight body: Ca. 132 g / 4.5 oz (incl. battery)  
Case: ABS, Black or White

### Regulatory & safety

Product compliance: CE, UKCA, FCC, VCCI, MFi, RoHS, REACH

### Items

Enclosed: Wrist strap  
Sold separately: CHG-3201 cradle (charging), OPA-3201 (Bluetooth HID-dongle), CRD-3301B cradle (charging and communication)