

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: Aprox. 72 hours (with wireless connection)
Reading: Aprox. 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 laser diode, 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°
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, FCC, VCCI, MFi, RoHS, IEC62471-1, IEC60950-1, EN60950-1, EN55022, EN301489-1V1.9.2, EN301489-17V2.1.1, EN300328V1.8.1

Items

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