

OPI-3301i

2D CMOS Imager Barcode Scanner



Highlights

- Wireless 2D CMOS imager scanner that rapidly scans and decodes 1D and 2D barcodes at 60 Frames Per Second (FPS)
- Supports Apple MFi, SPP and HID Bluetooth profiles for added flexibility
- Memory: 1MB SDRAM, 1MB Flash ROM
- Small form factor: 2.20" x 5.32" x 4.45" (WxHxD) and 4.5 ounces 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



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Product Specifications

MEMORY

SDRAM: 1MB

FLASH ROM: 1MB

OPERATING INDICATORS

VISUAL: 1 large LED (red/green/blue)

AUDIBLE: Buzzer

OPERATING KEYS

ENTRY OPTIONS: 1 scan key

COMMUNICATION

BLUETOOTH: Version 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: 15mA (stand by), max 330mA

BATTERY: Lithiumion 3.7V 1100mAh

OPERATING TIME STAND BY: Approximately 72 hours (with wireless connection)

READING: Approximately 24 hours (1 scan / 5 sec)

CHARGING METHOD: Separate cradle CHG-3201

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: -50 to 0°, 0 to +50°

READING SKEW ANGLE: -50 to 0°, 0 to +50°

READING TILT ANGLE: 180°

MINIMUM RESOLUTION AT PCS 0.9: 3.94 mil (0.1 mm)

MINIMUM PCS VALUE: 0.20

FIELD OF VIEW: Horizontal 40°, Vertical 26°

DEPTH OF FIELD AT CODE 39:

5 mil (0.127 mm) 2.36 - 3.74 in (60 - 95 mm)

10 mil (0.254 mm) 1.77 - 7.28 in (45 - 185 mm)

208 mil (0.5 mm) 1.97 - 9.84 in (50 - 250 mm)

DEPTH OF FIELD AT QR CODE:

6.65 mil (0.169 mm) 2.76 - 3.74 in (70 - 95 mm)

10 mil (0.254 mm) 1.38 - 6.10 in (35 - 155 mm)

SUPPORTED SYBLOGIES

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

BARCODE (2D): 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

BARCODE (POSTAL CODES): Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET

DURABILITY

TEMPERATURE:

Operation: 32 to 122 °F (-0 to 50 °C)

Storage: -14 to 140 °F (-20 to 60 °C)

HUMIDITY:

Operation: 20 - 85% (non-condensing)

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: 5 ft (1.5 m) drop onto concrete surface

VIBRATION TEST: 10 - 100 Hz with 2G for 1 hour

PROTECTION RATE: IP 42

PHYSICAL

DIMENSIONS (WXHXD): 2.20 x 5.32 x 4.45 in 56 x 135 x 113 mm) Ca. 4.5 oz (132 g) (incl. battery) Cas e: ABS, Black or White

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, FCC, VCCI, MFi, RoHS, IEC 62471, IEC 60950-1

ENCLOSED ITEMS

Wrist strap

SOLD SEPARATELY

CHG-3201 CRADLE: charging

CRD-3301B: charging/communication cradle

OPA-3201: Bluetooth dongle



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