

OPI-3301

2D CMOS Imager Barcode Scanner



Highlights

- Full spectrum illuminated 2D CMOS imager
- Bluetooth Version 1.2 wireless communication
- Uses LEDs for lighting and features a red laser spot for aiming
- Rapidly scans and decodes 1D or 2D barcodes
- Compact size and ultra-lightweight – 2.2" x 5.39" x 4.45" (WxHxD) and 3.9 ounces including battery
- Durable – withstands five-foot drop onto concrete
- IP 42 rating for water and dust protection
- Communicates and charges via cradle (CRD3301 – sold separately)
- CRD3301 cradle supports Bluetooth, RS232 and USB
- Backed by a two year warranty

OPI-3301

Product Specifications

MEMORY

RAM: 1 MB

FLASH ROM: 1 MB SDRAM

OPERATING INDICATORS

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

NON-VISUAL: Buzzer

OPERATING KEYS

ENTRY OPTIONS: 1 scan key

COMMUNICATION

BLUETOOTH: Version 1.2, 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), maximum 300mA

RECHARGEABLE BATTERY: Lithium-Ion 3.7V 1100mAh

OPERATING TIME STAND BY: Approx 15 hours (with wireless connection).

READING: Approximate 10 hours (1 scan / 5 sec)

CHARGING METHOD: Separate cradle CRD-3301

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°

MINIMUM RESOLUTION AT PCS 0.9: 5 mil (0.127 mm)

MINIMUM PCS VALUE: 0.45

FIELD OF VIEW: Horizontal 40°, Vertical 23°

DEPTH OF FIELD AT CODE 39:

5 mil (0.127 mm) 0.59 - 2.17 in (15 - 55 mm)

10 mil (0.254 mm) 0.59 - 7.87 in (15 - 200 mm)

39 mil (1.0 mm) 3.54 - 34.25 in (90 - 870 mm)

DEPTH OF FIELD AT QR CODE:

13 mil (0.339 mm) 0.59 - 6.69 in (15 - 170 mm)

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-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: -4 - 122°F (-20 - 50 °C)

Storage: -13 - 140 °F (-25 to 60 °C)

HUMIDITY:

Operation: 5 - 85% (non-condensing)

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: 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 5.39 x 4.45 in (56 x 137 x 113 mm)

WEIGHT BODY: Ca. 3.9 oz (110 g) (incl. battery)

CASE: ABS, black or white

REGULATORY AND 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

CRD-3301 CRADLE: Bluetooth communication, charging

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