

# OPI-3601

## 2D CMOS Imager

The OPI-3601 features bright LED targeting guides, multiple trigger modes and a fast decode speed. A simple ergonomic design ensures a comfortable grip while the proprietary decode scan engine captures even difficult to read barcodes.



## Highlights

- Full spectrum illuminated 2D CMOS imager
- Rapidly scans and decodes a wide variety of 1D or 2D barcodes
- 2.5 times faster than previous models
- Custom configuration capabilities including multi-read
- Enhanced motion tolerance
- Improved scanning of curved, wide and poorly printed barcodes
- Green bar LED aim function providing laser-free aiming with no laser class warning
- Durable – survives 1.5 meter drop to concrete
- IP42 rating against dust and moisture
- Trigger modes: manual, auto-trigger and stand detection
- Communication interface: RS232 or USB
- Stand included with most configurations
- Backed by a two year warranty

# OPI-3601

## Product Specifications



### Operating indicators

**Visual:** 1 large LED (red/green/blue)

**Non-visual:** buzzer

### Operating keys

**Entry options:** 1 scan key

### Communication

**RS232:** DB9 connector with external power supply

**USB:** Ver 2.0, HID/VCP, USB-A connector

### Power

**Voltage requirement:** 5V  $\pm$ 10% (USB), 6V  $\pm$ 10% (RS232)

**Current consumption:** Max. 300 mA (Max typical use, 75 mA (standby))

### 2D Imager Optics

**Light source:** Green aiming LED, red illumination LEDs

**Scan method:** CMOS area sensor, 752 x 480 pixels, gray scale

**Scan rate:** up to 60 fps

**Focal distance:** 104 mm

**Trigger mode:** Manual, multiple read, auto-trigger, stand detection

**Image format:** Windows Bitmap, JPEG, TIFF

**Gradulation:** 1024, 256, 16, 2

**Image output mode:** 4 resolutions (full, 1/2, 1/3, 1/4), 2 ranges (horizontal, vertical)

**Reading pitch angle:**  $\pm 65^\circ$

**Reading skew angle:**  $\pm 65^\circ$

**Reading tilt angle:**  $360^\circ$

**Curvature:**  $R \geq 16$  mm (10-digit 0.15mm Codabar),

$R \geq 20$  mm (13-digit UPC)

**Field of view:** Horizontal  $40.6^\circ$ , Vertical  $26.4^\circ$

**Min. resolution at PCS 0.9:** 0.1 mm / 3.94 mil

**Min. pcs value:** 0.2

**Depth of field at code 39:**

65 - 105 mm (0.127 mm) / 2.56 - 4.13 in (5 mil)

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

50 - 250 mm (0.508 mm) / 1.97 - 9.84 in (20 mil)

**Depth of field at QR Code:**

70 - 95 mm (0.211 mm) / 2.76 - 3.74 in (8.4 mil)

35 - 165 mm (0.381 mm) / 1.38 - 6.50 in (15 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:**  $-20$  to  $50^\circ\text{C}$  /  $-4$  to  $122^\circ\text{F}$

**Temperature in storage:**  $-20$  to  $60^\circ\text{C}$  /  $-4$  to  $140^\circ\text{F}$

**Humidity in operation:** 5% to 90% (non-condensing)

**Humidity in storage:** 5% to 90% (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:** IP42

### Physical

**Dimensions (W x H x D):** 56 x 148.6 x 108.1 mm / 2.20 x 5.85 x 4.26 in

**Weight body:** Ca. 85 g / 3 oz (excl. cable)

**Dimensions Stand (W x H x D):** 106 x 296 x 146 mm / 4.17 x 11.65 x 5.75 in (excl. scanner)

**Weight stand:** Ca. 323 g / 12 oz

**Case:** ABS, Black

### Regulatory & safety

**Product compliance:** CE, FCC, VCCI, RoHS, IEC62471-1, EN55022, EN55024

### Items

**Sold separately:** Power supply 90-265V/0.5A, 6V/2A (for RS232)