

OPI-3601

2D CMOS Imager

The OPI-3601 features bright LED tagreting guides, multiple trigger modes and a rapid decode speed. A simple ergonomic design ensures a comfortable grip while the engine captures even difficult to read barcodes with a snap of the trigger.



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°

Reading skew angle: \pm 65°

Reading tilt angle: 360°

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

R \geq 20 mm (13-digit UPC)

Field of view: Horizontal 40.6°, Vertical 26.4°

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 °C / -4 to 122 °F

Temperature in storage: -20 to 60 °C / -4 to 140 °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)