


## NLV2101

2D CMOS imager

RS232

 **USB (HID/VCP)**

### + Related products

#### M5

- Stationary device
- 2D CMOS imager
- RS232, Keyboard Wedge, USB (HID/VCP)
- IP 52, ABS, up to 50 fps



#### NLV2001

- Stationary device
- Barcode laser scanner
- RS232, Keyboard Wedge, USB (HID/VCP)
- IP 67, Metal



#### OPI4002

- Wireless device
- 2D CMOS imager
- IEEE 802.15.4
- Equipped with powerjack



## Operating indicators

- Visual: 1 LED (red/green/orange)
- Non-visual: Buzzer

## Communication

- RS232: DB9 PTF connector with external power supply
- USB: Ver. 1.1, HID/VCP, USB-A connector

## Power

- Voltage requirement: 5V ± 10%
- Current consumption: Max. 330mA

## 2D Imager Optics

- Light source: Illumination 4 red LEDs 630 nm, aiming 2 green LEDs 527 nm
- Scan method: CMOS area sensor, SXGA (1.3 million pixels), gray scale
- Scan rate: Up to 30 fps
- Trigger mode: Manual, multiple read, auto-trigger, serial software trigger
- Image format: Windows Bitmap, JPEG, TIFF
- Gradulation: 256, 16, 2
- Image output mode: 4 resolutions (full, 1/2, 1/3, 1/4), 2 ranges (horizontal, vertical)
- Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil, \*0.169 mm / 7 mil\*, at Code39 / PDF417 and \*Data Matrix\*
- Min. PCS value: 0.45
- Field of view: Horizontal 47°, Vertical 37.5°
- Depth of field: At PCS 0.9 \*PDF417\* and Code 39  
\*52 - 202 mm / 2.05 - 7.95 in (1.0 mm / 39 mil)\*,  
\*97 - 122 mm / 3.82 - 4.80 in (0.5 mm / 20 mil)\*,  
52 - 232 mm / 2.05 - 9.13 in (0.25 mm / 10 mil),  
67 - 162 mm / 2.64 - 6.38 in (0.15 mm / 6 mil),  
97 - 122 mm / 3.82 - 4.80 in (0.127 mm / 5 mil)

## Supported Symbolologies

- 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
- Postal code: Chinese Post, Korean Postal Authority code
- 2D code: Aztec Code, Aztec Runes, Codablock F, Composite codes, Data Matrix (ECC200/ECO-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

## Durability

- Temperature in operation: 0 to 45 °C / 32 to 113 °F
- Temperature in storage: -20 to 60 °C / -4 to 140 °F
- Humidity in operation: 20 - 85% (non-condensing)
- Humidity in storage: 20 - 90% (non-condensing)
- Ambient light immunity: Fluorescent 10,000 lx max, Direct sun 100,000 lx max, Incandescent 10,000 lx max
- Antistatic electricity: 15kV (non-destructive)
- Drop test: 0.75 m / 2.5 ft drop onto concrete surface
- Protection rate: IP 67

## Physical

- Dimensions (w x h x d):  
46 x 58 x 24.5 mm / 1.81 x 2.28 x 0.96 in
- Weight body: Ca. 120 g / 4.2 oz (excl. cable)
- Case: Metal, Black

## Regulatory & Safety

- Product compliance: CE, FCC, VCCI, RoHS

## Sold separately

- Power supply 100-240V/0.5A, 50/60 Hz, 5V/2A (for RS232)

## Models

- Interface versions: RS232, USB

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- **The Netherlands:** Hoofddorp  
- **France:** Issy Les Moulineaux  
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