

## ≡ OPTICON

### NLV-5201 Fixed Barcode and 2D Code Imager, RS232C, FD9 plug

Opticon NLV-5201 is fixed barcode and 2D codes scanner, which is among the smallest device of its kind, specifically designed to deliver high-volume, hands-free scanning of any barcode no matter the quality. Scanner is perfect for the most demanding applications and the scanner is also very resistant with an IP65 rating.

The NLV-5201 is latest development in the NLV series. This small 2D CMOS imager is easily integrated and scans at a fast rate no matter the density you require. The installed tuning function helps to easily program your settings by simply pressing the key.



Opticon awards the user with a [free worldwide accessible setup tool](#) as an addition to the standard way of setting up the device using printed barcode manual.

#### Key featured:

- Ultra-fast 100 frames per second CMOS imager sensor enables high speeding scanning of 1D and 2D barcodes
- Rapidly scans and decodes a wide variety of 1D or 2D barcodes
- Fast global shutter technology with auto exposure – easily scan barcodes off a wide variety of surfaces
- Exceptional motion tolerance for moving applications
- Improved scanning of curved, wide and poorly printed barcodes
- Complete unit with integrated decoder
- USB (HID and VCP/COM), RS232 interface selectable
- Low power consumption provides
- IP65 rating against dust and moisture
- 



# Technical Description

## Functionality & Operation

|                          |                                                                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indicators               | LEDs red/orange/green , buzzer                                                                                                                                                                           |
| 1D Barcode Symbolologies | UPC/EAN/JAN, Codabar, Code 11, Code 128, Code 39, Code 93, GS1 128, GS1 Data Bar (RSS), IATA Code, Industrial 2 of 5, Interleaved 2 of 5, ISBN/ISSN, Matrix 2 of 5, MSI, Plessey, Telepen, Trioptic Code |
| 2D Code Symbolologies    | Aztec, Codablock F, Composite codes, Data Matrix, MaxiCode, MicroPDF417, Micro QR Code, PDF417, QR code , Passport MRZ                                                                                   |

## Optical

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| Depth of scan field | 53 - 126 mm (5mil) code39, 22 - 250 mm (15mil) QR code |
| Minimal PCS value   | 0.3                                                    |
| Maximal skew angle  | 65%                                                    |
| Maximal pitch angle | 65%                                                    |
| Scanning rate       | 100 scan/sec                                           |
| Light source        | aiming single green LED, warm white illumination LED   |
| Bar code scanner    | CMOS area sensor, 640x480 px                           |

## Electrical

|              |                                     |
|--------------|-------------------------------------|
| Power Source | +5V $\pm$ 10% , 265mA, standby 40mA |
|--------------|-------------------------------------|

## Mechanical

|            |                                          |
|------------|------------------------------------------|
| Weight     | 125g                                     |
| Dimensions | Width: 41.1mm, Height: 24mm Length: 33mm |

## Environment

|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| Ingress protection                  | IP65                                        |
| Vibrations resistance               | 10-100 Hz with 2G for 1h.                   |
| Shock resistance                    | drop from 0,75 m onto concrete surface      |
| Electrical static discharge         | $\pm$ 15kV air, $\pm$ 6kV contact           |
| Maximal ambient light               | 100000lux direct sun, 10 000 lx Fluorescent |
| Operating humidity (non-condensing) | 20 to 85%                                   |
| Operating temperature               | 0 to 50°C                                   |
| Storage temperature                 | -20 to 60°C                                 |

## Others

|                |                                                           |
|----------------|-----------------------------------------------------------|
| Certifications | CE, FCC (Class B), VCCI, RoHS, IEC 62471 Exempt, EN 55024 |
|----------------|-----------------------------------------------------------|

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