

## OPTICON

### NLV-3101 Fixed Barcode & 2D Code Imager, USB-HID

Opticon NLV 3101 is fixed barcode and 2D codes scanner, which is among the smallest device of its kind, excels with scanning rate of up to 60 scans per second. NLV 3101 is suitable for the most demanding applications, for example - is able to capture despite the scratched plexiglass.

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.



The NLV3101, a 2D CMOS fixed mount imager, quickly and efficiently scans 1D and 2D barcodes. This scanner is ideal for retail or industrial barcode scanning applications. The NLV3101 features red LEDs to illuminate the viewable area and green LEDs to precisely target the barcode to be scanned. Additionally, this fixed mount scanner has picture-capture capability: scanned images can be viewed to assist with troubleshooting in industrial applications.

#### The NLV3101 product highlights include:

- World's most compact 2D imager in its class
- Rapidly scans/decodes a wide variety of 1D or 2D barcodes
- Fast global shutter technology with adjustable illumination – easily scan any surface
- Exceptional motion tolerance for moving applications
- Improved scanning of curved, wide and poorly printed barcodes
- Green LED targeting function providing laserfree aiming with no laser class required
- Programmable with image capture software available
- Complete unit with integrated decoder
- USB (HID and VCP/COM), RS232 or keyboard wedge interface selectable
- Low power consumption provides design flexibility
- Rugged – IP65 rating for water and dust protection and shock resistant



# Technical Description

## Functionality & Operation

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| Communication interface  | keyboard, RS232, USB                                       |
| Indicators               | 1 LED (red/green/orange), buzzer                           |
| Operation interface      | 1x button                                                  |
| 1D Barcode Symbolologies | All standard one-dimension barcodes                        |
| 2D Code Symbolologies    | Aztec, Data Matrix, MaxiCode, MicroPDF417, PDF417, QR code |

## Optical

|                     |                                                       |
|---------------------|-------------------------------------------------------|
| Curvature           | R>16 mm (10-digit Codebar), R>20mm (12-digit Codebar) |
| Depth of scan field | 55-295 mm                                             |
| Bar code scanner    | 2D Imager                                             |
| Scanning rate       | 100scan/s                                             |

## Mechanical

|              |                                        |
|--------------|----------------------------------------|
| Body housing | ABS plastic                            |
| Weight       | 30g                                    |
| Dimensions   | Width: 24mm, Height: 41mm Length: 33mm |

## Environment

|                                     |                                        |
|-------------------------------------|----------------------------------------|
| Storage temperature                 | -20 to 60°C                            |
| Storage humidity (non-condensing)   | 20 to 90%                              |
| Shock resistance                    | drop from 0,75 m onto concrete surface |
| Ingress protection                  | IP65                                   |
| Operating humidity (non-condensing) | 20 to 85%                              |
| Operating temperature               | -20 to 50°C                            |

## Others

|                |                               |
|----------------|-------------------------------|
| Warranty       | 1 year                        |
| Certifications | CE, FCC (Class B), RoHS, VCCI |

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