NLV-5201 Fixed Barcode and 2D Code Imager, USB

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 accesible 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
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Technical Description

Functionality & Operation

Communication interface	USB
Indicators	LEDs red/orange/green , buzzer
1D Barcode Symbologies	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 Symbologies	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 ±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	±15kV air, ± 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