

OPTICON

NLV-1001 Fixed laser bar code scanner, USB-HID/USB-COM

An ultra-compact and lightweight fixed-position laser barcode scanner that uses Opticon's proprietary scan engine technology for quick and accurate results. The NLV-1001's target is replacement of the older LMD-1135 barcode scanner.

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.



Features

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ser diode Scan method: bi-directional scanning Scan rate: 100 scans/sec Reading pitch angle: -35 to 0°, 0 to +35° Reading skew angle: -50 to -8°, +8 to +50° Reading tilt angle: -20 to 0°, 0 to +20° Curvature: R>15 mm (EAN8), R>20 mm (EAN13) Reading width: depending on reading distance and barcode label resolution Min. resolution at PCS 0.9: 0.127 mm / 5 mil Min. PCS value: 0.45 Depth of field: at PCS 0.9, Code 39 70 - 630 mm / 2.76 - 24.80 in (res. 1.0 mm / 39 mil), 50 - 400 mm / 1.97 - 15.75 in (res. 0.5 mm / 20 mil), 50 - 240 mm / 1.97 - 9.45 in (res. 0.25 mm / 10 mil), 50 - 130 mm / 1.97 - 5.12 in (res. 0.15 mm / 6 mil), 60 - 100 mm / 2.36 - 3.94 in (res. 0.127 mm / 5 mil) Identification Supported barcode symbologies (1D): JAN/UPC/EAN (WPC) incl. add on, Chinese Post, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Korean Postal Authority code, Matrix 2of5, MSI/Plessey-UK/Plessey, RSS, S-Code, Telepen, Tri-Optic, Composite codes Supported 2D code symbologies: MicroPDF417, PDF417 Communication specifications Available interfaces: RS232C, Keyboard Wedge, USB(HID/VCP) Environmental specifications Temperature in operation: -10 to 45 oC / 14 to 113 oF Temperature in storage: -20 to 60 oC / -4 to 140 oF Humidity in operation: 20 - 85 % (non-condensing) Humidity in storage: 20 - 90 % (non-condensing) Ambient fluorescent light rejection: 3,000 lx max. Ambient direct sun light rejection: 50,000 lx max. Ambient incandescent light rejection: 3,000 lx max. Antistatic electricity: 10 kV (non-destructive) Shock drop test: 0.75 m / 2.5 ft drop onto concrete surface Protection (dust and moisture, IEC529): IP 43 Physical specifications Dimensions: 30 x 20 x 43.3 mm / 1.18 x 0.79 x 1.70 in Weight body: Ca. 18.5 g / 0.7 oz (excl. cable) Connector Keyboard Wedge: DIN6 F/M Connector RS232: DB9 F-PTF with external power Connector USB: USB-A Regulatory Laser safety class: JIS-C-6802 Class 1, IEC 60825-1 Class 1, FDA CDRH Class I



Technical Description

Functionality & Operation

Communication interface	USB-HID, USB-VCP, USB
2D Code Symbolologies	Composite codes, MicroPDF417, PDF417
1D Barcode Symbolologies	Codabar, Code 128, Code 39, Code 93, EAN 13/UPCA, Industrial 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI
Configuration	internet guide, by programming barcodes
Language support	Czech, French, German, Italian, Norwegian, Portuguese, Spanish, Swedish, US and UK English, Belgian
Operation interface	scan button
Indicators	1 LED (red/green/orange), buzzer

Optical

Scanning rate	100scan/s
Depth of scan field	50-630 mm
Light source	visible laser diode VLD 650 nm
Maximal skew angle	35°
Maximal pitch angle	50°

Electrical

Power Source	+5V ±10%
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Mechanical

Body housing	ABS plastic
Color	black
Dimensions	Width: 43mm, Height: 30mm Length: 20mm
Weight	19g

Environment

Operating humidity (non-condensing)	20 to 85%
Ingress protection	IP43
Shock resistance	drop from 0,75 m onto concrete surface
Maximal ambient light	50000lux
Operating temperature	-10 to 45°C
Storage temperature	-20 to 60°C
Storage humidity (non-condensing)	20 to 90%

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