

OPTICON

NLV-1001 Fixed laser bar code scanner, RS232C

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

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
Communication interface	RS232, USB, keyboard
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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