

NLV 1001

Compact Fixed-Position Laser Scanner



An ultra-compact and lightweight fixed-position barcode scanner that uses Opticon's proprietary scan engine technology for quick and accurate results.

Product Features

Compact Fixed-Position Design

At just 18.5 g (0.7 oz) without a cable and 3 cm (1.2 in) wide, the light and ultra-compact design of the NLV 1001 allows for integration into small spaces.

Plug and Play Installation

The NLV 1001 comes with mounting holes located on the sides and bottom of the compact housing to maximize mounting options and several interfaces that provide for fast integration.

High Performance Laser Engine

The advanced laser scan engine used in the NLV 1001 offers reliable and improved scanning of all 1D codes including poorly printed and low quality symbols.

Integrated Auto Triggering

In addition to the standard software and manual trigger options, the NLV 1001 integrates an Auto Trigger that automatically initiates scanning of codes all in a compact form factor.

Cabled

Mobile

Stationary

OEM

OPTICON
always scanning for new ID's

Specifications: NLV 1001 Compact Fixed-Position Laser Scanner

Electrical

Voltage requirement:	5V ± 10%
Current consumption:	85 mA (typical), 150 mA (max)

Optical

Light source:	650 nm laser diode
Scan method:	bi-directional
Scan rate:	100 scans/sec
Reading pitch angle:	±35°
Reading skew angle:	-50 to -8°, 8 to 50°
Reading rotation angle:	±20°
Curvature:	R > 15 mm (EAN8), R > 20 mm (EAN13)
Reading width:	dependent upon reading depth and barcode resolution
Min. Resolution:	0.127 mm / 5 mil (PCS 0.9)
Min. PCS value:	0.45
Depth of field at PCS 0.9 Code 39:	70 - 630 mm / 2.76 - 24.8 in (Res. 1.00 mm / 39 mil) 50 - 400 mm / 1.97 - 15.7 in (Res. 0.50 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)

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 Post, Matrix 2of5, MSI/Plessey-UK/Plessey, RSS, S-Code, Telepen, Tri-Optic, Composite Codes
2D:	MicroPDF417, PDF417

Functionality

Trigger mode:	Auto, external hardware, serial software
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Communication

Interface:	RS232C, USB(HID/VCP), Wedge
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Environmental

Operating temperature:	0 to 45 °C / 32 to 113 °F
Storage temperature:	-20 to 60 °C / -4 to 140 °F
Operating humidity:	20 - 85 % (non-condensing)
Storage humidity:	20 - 90 % (non-condensing)
Ambient light immunity:	3,000 lx (fluorescent) 3,000 lx (incandescent) 50,000 lx (sunlight)
Antistatic electricity:	10 kV (non-destructive)
Shock drop test:	0.75 m / 2.5 ft onto concrete surface
Ingress Protection:	IP43

Physical

Dimensions:	30 x 20 x 43.3 mm / 1.18 x 0.78 x 1.73 in
Weight:	18.5 g / 0.7 oz (excl. cable)
Connector RS-232:	DB9 F-PTF with external power
Connector USB:	USB-A
Connector Wedge:	DIN6 M/F
Options:	2 additional models with alternate reading window locations

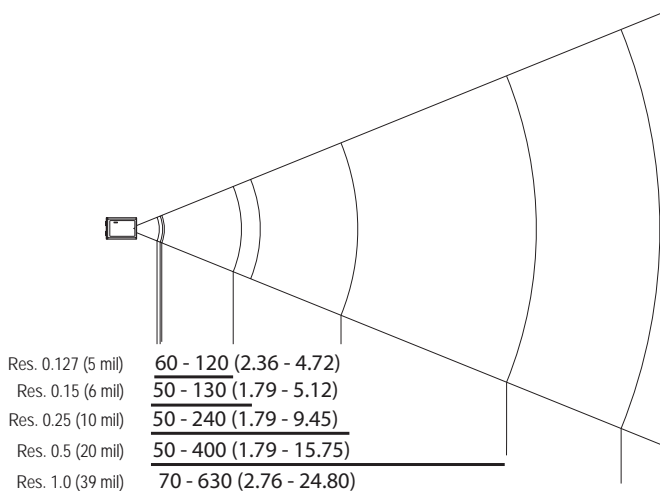
Regulatory

Laser compliance:	JIS-C-6802 Class 1, IEC 60825-1 Class-1, FDA CDRH Class I
Product Compliance:	CE, FCC, VCCI, RoHS

Typical performance based on good quality symbols in normal room temperature and light conditions.

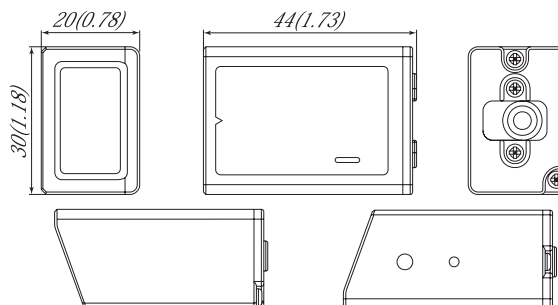
Depth of field

The reading width is a calculated value and is for guidance only.
Unit: mm (in)



Dimensions

Unit: mm (in)



Accessories (sold separately)

Power supply: 5V/500mA (External power for RS232)