

# NLV-1001

## Laser scanner

The NLV-1001, a low-cost stationary scanner, quickly and efficiently scans 1D barcodes for light industrial or retail applications. This fixed mount scanner uses a bi-directional scanning approach to achieve a scan rate of 100 sps.



## Highlights

- Rapidly scans and decodes a wide variety of 1D barcodes
- Bi-directional scanning at 100 scans/second
- Complete unit with integrated decoder
- Durable - survives 0.75 m drop to concrete
- IP43 rating against dust and moisture
- Compact size and weight: 30 x 20 x 43.3 mm (WxHxD) and 30 grams
- Trigger modes: manual test button, multiple read, auto-trigger, hardware and software trigger
- Communication interface: USB or RS232
- Backed by a two year warranty



# NLV-1001

## Product Specifications

### Operating indicators

**Visual:** 1 LED (red/green/orange)

**Non-visual:** Buzzer

### Communication

**RS232:** DB9 connector with external power supply, without connector

**USB:** Ver. 1.1, HID/VCP, USB-A connector

### Power

**Voltage requirement:** 5V  $\pm$ 10%

**Current consumption:** 85 mA (typical use), max. 150 mA

### Barcode scanner optics

**Light source:** 650 nm visible laser diode

**Scan method:** Bi-directional scanning

**Scan rate:** 100 scans / second

**Trigger mode:** Manual, multiple read, auto-trigger, serial software trigger

**Reading pitch angle:**  $\pm$  35°

**Reading skew angle:** -50 to 8°, 8 to +50°

**Reading tilt angle:**  $\pm$  20°

**Curvature:** R $\geq$ 15 mm (EAN8), R $\geq$ 20 mm (EAN13)

**Min. resolution at pcs 0.9:** 0.127 mm / 5 mil

**Min. pcs value:** 0.45

**Depth of field at code 39:**

60 - 100 mm (0.127 mm) / 2.36 - 3.94 in (5 mil)

50 - 130 mm (0.15 mm) / 1.97 - 5.12 in (6 mil)

50 - 240 mm (0.25 mm) / 1.97 - 9.45 in (10 mil)

50 - 400 mm (0.5 mm) / 1.97 - 15.75 in (20 mil)

70 - 630 mm (1.0 mm) / 2.76 - 24.80 in (39 mil)

### Supported symbologies

**Barcode (1D):** JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 Databar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISSN-ISMN, Matrix 2of5, MSI/

Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

**Postal code:** Chinese Post, Korean Postal Authority code

**2D code:** Composite codes, MicroPDF417, PDF417

### Durability

**Temperature in operation:** -10 to 45 °C / 14 to 113 °F

**Temperature in storage:** -20 to 60 °C / -4 to 140 °F

**Humidity in operation:** 20 - 85% (non-condensing)

**Humidity in storage:** 20 - 90% (non-condensing)

**Ambient light immunity:** Fluorescent 3,000 lx max, Sunlight 50,000 lx max, Incandescent 3,000 lx max

**Antistatic electricity:** 10 kV (non-destructive)

**Drop test:** 0.75 m / 2.5 ft drop onto concrete surface

**Protection rate:** IP67

### Physical

**Dimensions (WxHxD):** 30 x 20 x 43.3 mm / 1.18 x 0.79 x 1.70 in

**Weight:** Ca. 30 g / 1.1 oz (excl. cable)

**Case:** ABS, Black

### Regulatory & Safety

CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II, IEC/EN60950-1, EN55022, EN55024

### Items

**Sold separately:** Power supply 100-240V/0.5A, 50/60 Hz, 5V/2A (for RS232)

### Models

**Interface:** RS232, USB