

# NLV-1001

## Fixed Position Laser Scanner



### 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 2.5 foot drop to concrete
- IP43 rating against dust and moisture
- Compact size and weight: 1.81" x 0.79" x 1.70" (WxD) and 0.7 ounces
- Trigger modes: manual test button, multiple read, auto-trigger, hardware and software trigger
- Communication interface: USB, RS232 or keyboard wedge
- Backed by a two year warranty

# NLV-1001

## Product Specifications

### OPERATING INDICATORS

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

**AUDIBLE:** Buzzer

### COMMUNICATION

**RS232:** DB9 PT F connector with external power supply

**KEYBOARD WEDGE:** MiniDIN6 F/M connector

**USB:** Version 1.1, HID/VCP, US B-A connector

### POWER

Voltage requirement: 5V ± 10%

**CURRENT CONSUMPTION:** 85mA (typical use), maximum 150mA

### BARCODE SCANNER OPTICS

**LIGHT SOURCE:** 650 nm visible laser diode

**SCAN METHOD:** Bi-directional scanning

**SCAN RATE:** 100 scans/sec

**TRIGGER MODE:** Manual, multiple read, auto-trigger, serial software trigger

**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 (EAN 8), R>20 mm (EAN 13)

**MINIMUM RESOLUTION AT PCS 0.9:** 5 mil (0.127 mm)

**MINIMUM PCS VALUE:** 0.45

**DEPTH OF FIELD AT PCS 0.9 CODE 39:**

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

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

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

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

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

### 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-ISMN-ISSN , Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

**BARCODE (POSTAL CODES):** Chinese Post, Korean Postal Authority code

### DURABILITY

#### TEMPERATURE:

Operation: 14 - 113 °F (-10 - 45 °C)

Storage: -4 to 140 °F (-20 to 60 °C)

#### HUMIDITY:

Operation: 20 - 85% (non-condensing)

Storage: 20 - 90% (non-condensing)

#### AMBIENT LIGHT IMMUNITY:

Fluorescent: 3,000 lx max

Direct sun: 50,000 lx max

Incandescent: 3,000 lx max

**ANTISTATIC ELECTRICITY:** 10kV (non-destructive)

**DROP TEST:** 2.5 ft (0.75 m) drop onto concrete surface

**PROTECTION RATE:** IP 43

### PHYSICAL

**DIMENSIONS (WXHxD):** 1.18 x 0.79 x 1.70 in (30 x 20 x 43.3 mm)

**WEIGHT BODY:** Ca. 0.7 oz (18.5 g) (excl. cable)

**CASE:** ABS, Black

### REGULATORY AND SAFETY

**PRODUCT COMPLIANCE:** CE, FCC, VCCI, RoHS, JIS-C-6802 Class 1, IEC 60825-1 Class 1, FDA CDRH Class I

### SOLD SEPARATELY

**POWER SUPPLY:** 100-240V/0.5A, 50/60 Hz, 5V/2A (for RS232)

### MODELS

Interface versions: RS232, Keyboard Wedge, USB

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