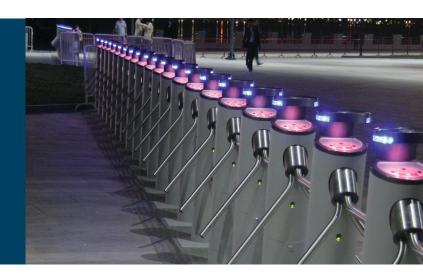# NLV-4001
CCD scanner

The NLV-4001 CCD fixed mount scanner quickly and efficiently scans and decodes 1D barcodes including off of mobile phones. It is an ideal solution for applications in retail, transportation, logistics, warehousing, healthcare and manufacturing.

Highlights

- Fixed mount CCD barcode scanner that's reliable, durable and affordable
- Enhanced decoding algorithms for ultra-fast (300 scans/second) barcode scanning
- Single red LED aiming line helps to quickly find the appropriate scanning position
- Reads 1D barcodes from LCD screens and mobile phones
- Capable of scanning negative bar codes (white bars on black spaces)
- Complete unit with integrated decoder

- IP65 rating against dust and moisture
- Communication interface: USB or RS-232 (no connector)
- Backed by a two year warranty

NLV-4001
Product Specifications

Operating indicators
Visual: 1 LED (red, green, orange)
Non-visual: buzzer

Communication
RS232: no connector
USB: VCP, HID, USB-A connector

Power
Voltage requirement: 5V ±10%
Current consumption: 180 mA
Standby current: 50 mA

Barcode scanner optics
Light source: 624 nm visible red LED
Scan method: CCD linear
Scan rate: 300 scans / second
Trigger mode: Single read, multiple read, auto-trigger, serial software trigger
Reading pitch angle: ± 45°
Reading skew angle: -65 to 8°, 8 to +65°
Reading tilt angle: ± 25°
Curvature: R≥15 mm (EAN8), R≥20 mm (EAN13)
Min. resolution at pcs 0.9: 0.127 mm / 5 mil
Min. pcs value: 0.30
Depth of field at code 39:
60 - 170 mm (0.127 mm) / 2.36 -6.69 in (5 mil)
55 - 400 mm (0.5 mm) / 2.17 - 15.75 in (20 mil)
80 - 700 mm (1.0 mm) / 3.15 - 27.56 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-ISMN-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
Postal code: Chinese Post, Korean Postal Authority code

Durability
Temperature in operation: -5 to 50 °C / 23 to 122 °F
Temperature in storage: -20 to 60 °C / -4 to 140 °F
Humidity in operation: 10 - 90% (non-condensing)
Humidity in storage: 5 - 95% (non-condensing)
Ambient light immunity: 10,000 lx max
Drop test: 0.75 m / 2.5 ft drop onto concrete surface
Protection rate: IP65

Physical
Dimensions (WxHxD): 41.1 x 24 x 33 mm / 1.62 x 0.94 x 1.3 in
Weight: Ca. 50 g / 1.7 oz (incl. RS-232C cable), Ca. 55 g / 1.86 oz (incl. USB cable)
Case: ABS, Black

Regulatory & safety
Product compliance: CE, FCC, VCCI, RoHS, IEC62471, EN55022, EN55024, FCC Part 15 Subpart B Class B, EN61000-6-1

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