

NLV-4001

CCD scanner

This CCD fixed mount scanner quickly and efficiently scans and decodes 1D barcodes, including from 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 RS232
- Backed by a two year warranty



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Product Specifications

Operating indicators

Visual: 1 LED (red/green/orange)

Non-visual: Buzzer

Communication

RS232: DB9 connector with external power supply

USB: VCP, HID, USB-A connector

Power

Voltage requirement: 5V \pm 10%

Operating Current: 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: \pm 45°

Reading skew angle: -65 to 8°, 8 to +65°

Reading tilt angle: \pm 25°

Curvature: $R \geq 15$ mm (EAN 8), $R \geq 20$ mm (EAN 13)

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

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

Antistatic electricity: 8 kV contact discharge / 15kV air discharge (non-destructive)

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. RS232C cable),

Ca. 55 g / 1.86 oz (incl. USB cable)

Case: ABS, Black

Regulatory & Safety

CE, FCC, VCCI, RoHS, IEC62471, EN55022, EN55024,

FCC Part 15 Subpart B Class B, EN61000-6-1