

NLV-5201

2D CMOS Imager Scanner



Highlights

- Full spectrum illuminated 2D CMOS imager
- Ultra-fast 100 frames per second (fps) CMOS imager sensor enables high speeding scanning of 1D and 2D barcodes
- Rapidly scans and decodes a wide variety of 1D or 2D barcodes
- Fast global shutter technology with auto exposure – easily scan barcodes off a wide variety of surfaces
- Custom configuration capabilities including multi-read
- Exceptional motion tolerance for moving applications
- Improved scanning of curved, wide and poorly printed barcodes
- Green bar LED aim function providing laser-free aiming with no laser class warning
- Complete unit with integrated decoder
- IP 65 rating against dust and moisture
- Low power consumption provides design flexibility
- Communication interface: USB or RS232
- Backed by a two year warranty

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Product Specifications

OPERATING INDICATORS

VISUAL: 3 LED (red/green/orange)

AUDIBLE: Buzzer

OPERATING KEYS

ENTRY OPTIONS: 2 buttons: trigger and setup mode

COMMUNICATION

I/O, power, USB, RS232

POWER

VOLTAGE REQUIREMENT: 5V DC

CURRENT CONSUMPTION: Maximum 500mA (5V)

2D IMAGER OPTICS

LIGHT SOURCE: Aiming green LED, white illumination LEDs

SCAN METHOD: CMOS array, 640 x 480 pixels, gray scale

SCAN RATE: Up to 100 fps

SENSOR TECHNOLOGY: Global shutter

FOCUS: Fixed

READING PITCH ANGLE: -50 to 0°, 0 to +50°

READING SKEW ANGLE: -50 to 0°, 0 to +50°

READING TILT ANGLE: 360°

CURVATURE: R>20 mm (12-digit UPC)

MINIMUM RESOLUTION AT PCS 0.9:

7 mil (0.169 mm) at PDF417

7 mil (0.212 mm) at QR Code and DataMatrix

MINIMUM PCS VALUE: 0.3

FIELD OF VIEW : Horizontal 40.6°, Vertical 26.4°

DEPTH OF FIELD AT CODE 39:

5 mil (0.127 mm) 2.24 - 4.92 in (57 - 125 mm)

10 mil (0.254 mm) 2.20 - 9.45 in (56 - 240 mm)

20 mil (0.508 mm) 2.36 - 17.20 in (60 - 437 mm)

DEPTH OF FIELD AT QR CODE: (SR)

6.5 mil (0.169 mm) 2.52 - 4.53 in (64 - 115 mm)

15 mil (0.381 mm) 1.77 - 9.84 in (45 - 250 mm)

SUPPORTED SYMBOLOGIES

BARCODE (1D): UPC -A, UPC -A Add-on, UPC -E, UPC -E Add-on, EAN-13, EAN-13 Addon, EAN-8, EAN-8 Add-on, JAN-8, JAN-13, Code 39, Tri-Optic, Codabar (NW-7), Industrial 2 of 5, Interleaved 2 of 5, S-Code, IATA, Code 93, Code 128, MSI/Plessey, UK/Plessey, TELEPEN, Matrix 2 of 5, Code 11, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Composite GS1- DataBar, Composite GS1-128, Composite EAN, Composite UPC

BARCODE (2D): PDF417, MicroPDF417, QR Code, Micro QR Code, DataMatrix (ECC 0 - 140 / ECC 200)

DURABILITY

TEMPERATURE:

Operation: 32 - 113 °F (0 - 45 °C)

Storage: -4 - 140 °F (-20 - 60 °C)

HUMIDITY

Operation: 20 - 85% (noncondensing)

Storage: 20 - 90% (non-condensing)

AMBIENT LIGHT IMMUNITY:

Fluorescent :10,000 lx max

Direct sun: 100,000 lx max

Incandescent: 10,000 lx max

ANTISTATIC ELECTRICITY: 15kV (non-destructive)

DROP TEST: 2 ft (0.6 m) drop onto concrete surface

VIBRATION TEST: 10 - 100 Hz with 2G for 1 hour

PROTECTION RATE: IP 65

PHYSICAL

DIMENSIONS (WXHXD): 1.62 x 1.30 x 0.94 in (41.1 x 33 x 24 mm)

WEIGHT BODY: (TBD)

CASE: Zinc dycast

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, FCC Class B, VCCI Class B, RoHS, IEC 62471, EN55022, EN55024, FDA CDRH Class II

MODELS

NLV-5201-USB-COM-SR

NLV-5201-USB-COM-HD

NLV-5201-RS232-SR

NLV-5201-RS232-HD

SR: Standard Range

HD: High Definition

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