

# NLV-3101 2D imager

> HIGHLIGHTS

High speed scanning

Data editing program

Most compact 2D scanner

LED aiming

Various interfaces



# NLV-3101

## > BASIC PRODUCT SPECIFICATIONS

### OPERATING INDICATORS

**VISUAL:** 1 LED (red/green/orange) **NON-VISUAL:** Buzzer

### OPERATING KEYS

**ENTRY OPTIONS:** 1 scan key

### COMMUNICATION

**RS232:** DB9 PTF connector with external power supply **KEYBOARD WEDGE:** Mini-DIN6 connector with external power supply **USB:** Ver. 2.0, VCP, USB-A connector

### POWER

**VOLTAGE REQUIREMENT:** 6V +/- 5% **CURRENT CONSUMPTION:** Max. 200mA

### 2D IMAGER OPTICS

**LIGHT SOURCE:** Aiming green LED, illumination LEDs **SCAN METHOD:** CMOS area sensor, 752 x 480 pixels, gray scale **SCAN RATE:** Up to 60 fps **IMAGE FORMAT:** Windows Bitmap, JPEG, TIFF **GRADULATION:** 256, 16, 2 **IMAGE OUTPUT MODE:** 4 resolutions (full, 1/2, 1/3, 1/4), 2 ranges (horizontal, vertical) **READING PITCH ANGLE:** -50 to 0°, 0 to +50° **READING SKEW ANGLE:** -50 to 0°, 0 to +50° **READING TILT ANGLE:** 360° **CURVATURE:** R>16 mm (10-digit Codabar), R>20 mm (12-digit UPC) **MIN. RESOLUTION AT PCS 0.9:** 0.169 mm / 7 mil at PDF417, 0.212 mm / 8 mil at QR Code and DataMatrix **MIN. PCS VALUE:** 0.3 **FIELD OF VIEW:** Horizontal 40.6°, Vertical 26.4° **DEPTH OF FIELD:** At Code 39, 85 - 125 mm / 3.35 - 4.92 in (0.127 / 5 mil), 65 - 205 mm / 2.56 - 8.07 in (0.254 mm / 10 mil), 60 - 295 mm / 2.36 - 11.61 in (0.508 mm / 20 mil) **DEPTH OF FIELD:** At QR Code, 90 - 115 mm / 3.54 - 4.53 in (0.212 mm / 8.4 mil), 55 - 195 mm / 2.17 - 7.68 in (0.381 mm / 15 mil)

### SUPPORTED SYMBOLOGIES

**BARCODE (ID):** UPC-A, UPC-A Add-on, UPC-E, UPC-E Add-on, EAN-13, EAN-13 Add-on, 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 2of5, Code 11, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Composite GS1-DataBar, Composite GS1-128, Composite EAN, Composite UPC **POSTAL CODE:** Chinese Post, Korean Postal Authority code **2D CODE:** PDF417, MicroPDF417, Codablock F, QR Code, Micro QR Code, DataMatrix (ECC 0 - 140 / ECC 200), MaxiCode (Modes 2 to 5), Aztec Code, Chinese Sensible Code

### DURABILITY

**TEMPERATURE IN OPERATION:** -20 to 50 °C / -4 to 122 °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 10,000 lx max, Direct sun 100,000 lx max, Incandescent 10,000 lx max **ANTISTATIC ELECTRICITY:** 15kV (non-destructive) **DROP TEST:** 0.75 m / 2.5 ft drop onto concrete surface **VIBRATION TEST:** 10 - 100 Hz with 2G for 1 hour **PROTECTION RATE:** IP 65

### PHYSICAL

**DIMENSIONS (W X H X D):** 41.1 x 33 x 24 mm / 1.62 x 1.30 x 0.94 in **WEIGHT BODY:** Ca. 30 g / 1.06 oz (excl. cable) **CASE:** ABS, Black

### REGULATORY & SAFETY

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

NLV-3101\_004

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