









## **FEATURES**

## ○ **UIMG®** Technology

Armed with Newland's six-generation of **LIMG**® technology, the scan engine can swiftly and effortlessly decode even poor quality barcodes (e.g., low contrast, laminated, damaged, torn, warped or wrinkled).

## Snappy On-Screen Barcode Capture

The NLS-N1 excels at reading on-screen barcodes even when the screen is covered with protective film or set to its lowest brightness level.

### Multiple Interfaces

The NLS-N1 supports USB and TTL-232 interfaces to meet diverse customer needs.

## O Compact & Lightweight Design

Seamless integration of imager and decoder board makes the scan engine extremely smallest and lightweight and easy to fit into miniature equipment.

## Outstanding Power Efficiency

The advanced technology incorporated in the scan engine helps reduce its power consumption and prolong its service life.







# NLS-N1

#### **Performance**

Image Sensor 640 \* 480 CMOS Illumination 5000K White LED

625nm Red LED

Symbologies 2D PDF417, QR Code, Micro QR, Data Matrix, Aztec

> 1D Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14,

> > ISBN, ISSN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5,

Standard 2 of 5, AIM128, Plessey, MSI-Plessey

≥3mil

Typical Depth of Field\* EAN-13 60mm-350mm (13mil) Code 39 40mm-150mm (5mil)

> PDF417 50mm-125mm (6.7mil) Data Matrix 45mm-120mm (10mil) OR Code 30mm-170mm (15mil)

> > 25%

Scan Angle\*\* Roll: 360°, Pitch: ±60°, Skew: ±60° Horizontal 42°, Vertical 31.5°

#### **Physical**

Min. Symbol Contrast\*

Resolution\*

Interface TTL-232, USB Operating Voltage 3.3VDC±5% Current@3.3VDC Operating (RMS) 91.08mA (typical)

> Idle 11.8mA Sleep <0.3mA

Dimensions  $21.5(W) \times 9.0(D) \times 7.0(H) mm (max)$ 

Weight 1.2g

#### **Environmental**

Operating Temperature -20°C to 55°C (-4°F to 131°F) -40°C to 70°C (-40°F to 158°F) Storage Temperature 5% to 95% (non-condensing) Humidity 0~100,000lux (natural light) Ambient Light

#### Certificates

FCC Part15 Class B, CEEMC Class B, RoHS 2.0, IEC62471 Certificates & Protection

#### **Accessories**

NLS-EVK Software development board, equipped with a trigger button, beeper and RS-232 & USB

interfaces.

USB Cable Used to connect the EVK-N1 to a host device.

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2D: QR Code; 10 Bytes; Resolution=30mil; PCS=0.8.

Specifications are subject to change without notice.

Version: V17

#### Newland AIDC

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<sup>\*</sup>Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample printed barcodes made by Newland.

<sup>\*\*</sup>Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp;