Newland AIDC
SCANNING MADE SIMPLE



N1

Scan Engines

1D & 2D | Chip | CMOS | Dual Interface | EasySet | LED Aimer

Power Consumption | Standard Level | Warranty 2 Years | White Illumination



Features

Our Smallest Engine Yet.
By decoding via an embedded chip instead of a separate processor, Newland has packed impressive scanning speed and performance into a compact design. At only 21.5 x 9 x 7mm, the N1 is the slimmest solution in the range. Its dressed down design offers both great value and a sleek integration when space is limited.

Newland's 6th Generation UIMG technology.
The N1 is armed with Newland's latest scanning technology, including our new decoder chip 0610. By leveraging our own technology, Newland has further perfected the engine's overall scan performance, supporting all common 1D, 2D and Aztec codes.

Outstanding Power Efficiency.
The N1 can aim, illuminate and decode barcodes while drawing as little current from the host device as possible. It prolongs battery life compared to like-for-like scanners, as well as offering an eco-conscious solution. This makes it the ideal choice for portable solutions.

Long Barcode Support.
The N1's wide scan angle and versatile depth of field ensures a successful scan in nearly all situations and settings. The engine particularly excels at decoding long barcodes up close, often a prime requirement in ticket validation inside of a printer of other types of housing.

EasySet Configuration.
The N1 is compatible with our master configuration software EasySet. Built for Windows OS, this software helps simplify the process of testing and deploying configurations as well as updating the firmware.

2 Years Full Warranty

EasySet

TECHNICAL SPECIFICATIONS

N1

Data Capture

1D	All major 1D symbologies, including 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.
2D	All major 2D symbologies, including PDF417, QR Code, Micro QR, Data Matrix, Aztec.
Aiming	Red LED (625nm)
Depth of Field Code 39 (5mil)	40 mm - 150 mm
Depth of Field DataMatrix (10mil)	45 mm - 120 mm
Depth of Field EAN 13 (13mil)	60 mm - 350 mm
Depth of Field PDF417 (6.67mil)	50 mm - 125 mm
Depth of Field QR (15mil)	30 mm - 170 mm
Field of View Horizontal	42°
Field of View Vertical	31.5°
Illumination	White LED (5000K)
Image Sensor	640 x 480 CMOS
Minimal Print Contrast	25%
Resolution	≥3mil
Scan Angle Pitch	±60°
Scan Angle Roll	360°
Scan Angle Skew	±60°

Performance

Decoder	ASIC (0610)

Physical

Current @ 3.3VDC Operating	91.08 mA (typical)
Current @ 3.3VDC Sleep	< 0.3mA
Current @ 3.3VDC Standby	11.8 mA
Dimensions	21.5(W) x 9.0(D) x 7.0(H) mm
Input Voltage	3.3 VDC ±5%
Interfaces	TTL-232, USB
Power Consumption	456 mW (typical)
Weight	1.2 g

Environmental

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

Software

Configuration Tools	EasySet

Certifications

Certifications Hardware	FCC Part15 Class B, CE EMC Class B, RoHS 2.0, IEC 62471

Warranty

Warranty Standard	2 Years

Accessories

Accessories Optional	USB cable, RS-232 cable, Software development board
Accessories Standard	75mm flexible flat cable (FFC)

Accessories

Cables	CBLN1-75-13 Flexible Printed Circuit Cable for N1 (CBLN1-75-13)

Newland AIDC EMEA
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Newland AIDC EMEA
Feel free to contact us or a partner near you.
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