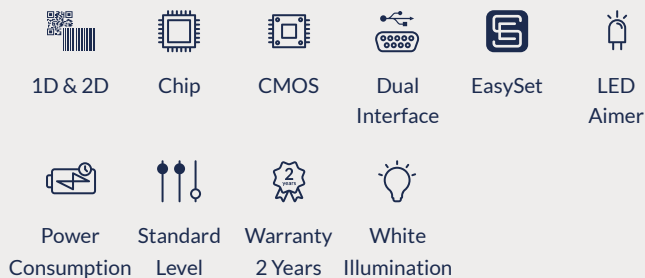




## N1

### Scan Engines



## 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 7 mm, 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 or 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



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**  
Feel free to contact us or a partner near you.  
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