

NLS-N1

OEM Scan Engine



Features

■ UIMG® Technology

Armed with Newland's six-generation of **UIMG®** 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.

■ 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 **NLDC** technology incorporated in the scan engine helps reduce its power consumption and prolong its service life.

Application Scenarios

Bluetooth Ring Scanner, Bluetooth Pocket Scanner, Necklace Barcode Scanner, PDA, Tablet, Notebook and etc.

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Performance	Image Sensor	640*480 CMOS		
	Illumination	White LED		
	Aiming	Red LED (625nm)		
	Symbolologies	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	
	Resolution*	≥3mil		
	Typical Depth of Field*	EAN-13 (13mil): 60mm-350mm		
		Code 39 (5mil): 40mm-150mm		
		PDF417 (6.7mil): 50mm-125mm		
		Data Matrix (10mil): 45mm-120mm		
QR Code (15mil): 30mm-170mm				
Min. Symbol Contrast*	25%			
Scan Angle**	Roll: 360°, Pitch: ±60°, Skew: ±60°			
Field of View	Horizontal 42°, Vertical 31.5°			
Mechanical/	Interface	TTL-232, USB		
Electrical	Operating Voltage	3.3VDC±5%		
	Current@3.3VDC	Operating	138mA (typical)	
		Idle	11.8mA	
	Dimensions	21.5(W)×9.0(D)×7.0(H)mm (max)		
Weight	1.2g			
Environmental	Operating Temperature	-20°C to 55°C		
	Storage Temperature	-40°C to 70°C		
	Humidity	5% to 95% (non-condensing)		
	Ambient Light	0~100,000lux (natural light)		
Certifications	FCC Part15 Class B, CE EMC Class B, RoHS2.0, IEC62471			
Accessories	NLS-EVK-	Software development board, equipped with a trigger button, beeper and RS-232 & USB interfaces.		
	Cable	USB	Used to connect the EVK-N1 to a host device.	
RS-232		Used to connect the EVK-N1 to a host device.		

*Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample barcodes made by Newland.

**Test conditions: Scan Distance=(min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp; 2D: QR Code; 10 Bytes; Resolution=30mil; PCS=0.8.

Specifications are subject to change without notice.

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Newland China

+86-591-83978605
contact@nlsan.com
www.newlandaidc.com

Newland Europe

+31(0)-345-87-0033
info@newland-id.com
www.newland-id.com

Newland North America

+1-510-490-3888
info@newlandna.com
www.newlandamerica.com

Newland Latin America

+1-239-598-0068
info@newlandla.com
www.newlandamerica.com

Newland Taiwan

+886-2-7731-5388
info@newland-id.com.tw
www.newland-id.com.tw

Newland Korea

+82-10-8990-4838
th.sung@newland-id.com.tw
www.newlandaidc.com