NLS-N1

OEM Scan Engine

CMOS 1D 2D

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.

SCANNING MADE SIMPLE

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Performance	Image Sensor		640*480 CMOS
	Illumination		White LED
	Aiming		Red LED (625nm)
	Symbologies	2D	PDF417, QR Code, Micro QR, Data Matrix.
		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/ Electrical	Interface		TTL-232, USB
	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℃ to 55℃
	Storage Temperature		-40℃ to 70℃
	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	EVK-N1		Software development board for the NLS-N1, equipped with a trigger button, beeper and RS-232 & USB Type-C 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℃; Illumination=300lux using incandescent lamp; sample barcodes made by Newland.

**Test conditions: Scan Distance=(min. DOF + max. DOF)/2; T=23℃; 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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