

NLS-EM3070 Series





NLS-EM3070 series embedded 2D barcode scan engines, armed with the Newland patented **und**, a computerized image recognition system, bring about a new era of 2D barcode scan engines.

The NLS-EM3070s' 2D barcode decoder chip ingeniously blends "technology and advanced chip design & manufacturing, which significantly simplifies application design and delivers superior performance and solid reliability with low power consumption.

The NLS-EM3070s support all mainstream 1D and standard 2D barcode symbologies (e.g., PDF417, QR Code M1/M2/Micro and Data Matrix) as well as GS1-DataBarTM(RSS) (Limited/Stacked/Expanded versions).

This compact, lightweight engine fits easily into even the most space-constrained equipments such as data collectors, meter readers, ticket validators and PDAs.

Features:

- 2D Barcode Decoder Chip: The engine armed with the unique 2D barcode decoder chip invented by Newland demonstrates unprecedented reading performance.
- Two-In-One Design: Seamless integration of CMOS image sensor and decoder board makes the engine small, lightweight and easy for integration.
- High Performance & Low Power Consumption: The EM3070s can read most 1D and 2D barcodes with a power consumption only one third that of a traditional engine.
- Compatibility: The EM3070s are compatible with the EM3000s in interface and installation.

Specifications

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Performance				
Image Sensor		752×480 CMOS		
Processor		Newland IOTC 2D Barcode Decoder Chip 72MHz		
Illumination		Red LED 625±10 nm		
Symbologies	2D 1D	PDF417, Data Matrix (ECC200, ECC000, 050, 080, 100, 140), QR Code Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey		
Reading Precision		≥ 5mil		
Depth of Field	Code 39 EAN-13 PDF417 Data Matrix QR	35mm -205mm (10mil); 50mm -260mm (13mil); 50mm -215mm (10mil); 60mm~285mm (15mil) 50mm -160mm (10mil); 50mm~225mm (15mil) 55mm -140mm (10mil); 50mm~210mm (15mil)		
Symbol Contrast		≥ 25%		
Scan Angle**		Roll: 360°; Pitch: ±55°; Skew: ±55°		
Field of View		Horizontal 36°; Vertical 23°		
Mechanical/Electrical				
Interface		TTL-232, USB (USB HID-KBW, USB COM Port Emulation)		
Power Consumption		< 0.9 W		
Operating Voltage		3.3±10% VDC		
Current @ 3.3 VDC	Operating Current Standby Current Low Power	270 mA 7 mA 3 uA		
Dimensions		28.0(W)x24.5(D)x13.9(H) mm		
Weight		9.5g		
Environmental				
Operating Temperature		-20°C to +55°C		
Storage Temperature		-40°C to +80°C		
Humidity		5% to 95% (non-condensing)		
Ambient Light		0 ~ 100000 lux (natural light)		
Certifications				
500 D (45 0) D	05 5M0 01 B			

FCC Part15 Class B, CE EMC Class B

Accessories			
NLS-EVK3000		Software development board for the EM3070, equipped with a trigger button, beeper and RS-232 & USB interfaces.	
Cables	RS-232 Cable	Used to connect the NLS-EVK3000 to a host device; equipped with a power connector.	
	USB Cable	Used to connect the NLS-EVK3000 to a host device.	
Power Adaptor		Used to provide power for the NLS-EVK3000. Output: DC5V, 2A; Input: AC100~240V, 50~60Hz.	

^{**}Test conditions:

Code 39; 3 Bytes; Resolution=10mil; W:N=3:1; PCS=0.8; Barcode Height=11mm; Scan Distance=120mm; T=23°C; Illumination=200 lux

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^{*}Specifications are subject to change without notice.* V1.0.0