

NLS-EM50S-20

OEM Scan Engine



Features

■ Superior Scanning Performance

Armed with Newland's sixth-generation of **UIMG®** technology, this CPU-based scan engine delivers stunning performance on decoding even poor-quality and damaged barcodes.

■ Megapixel CMOS

Thanks to its 1280×800 pixel CMOS sensor, the NLS-EM50S-20 is able to capture high resolution images and decode high density barcodes.

■ Multiple Interfaces

The NLS-EM50S-20 supports USB and TTL-232 interfaces to meet diverse customer needs.

■ Compact, Lightweight Design

The miniature size, light weight and separate mounting of imager and decoder board facilitate the integration of the NLS-EM50S-20 into a wide variety of thin-and-light equipment.

■ User-friendly Illumination & Aiming

Designed with the end user in mind, the NLS-EM50S-20 employs highly visible laser aimer to achieve crisp and accurate targeting while using flicker-free white soft illumination to reduce eye strain and fatigue from long-time operation.

Application Scenarios (as an accessory)

PDA's, tablets, thin-and-light equipment, traditional self-service devices, etc.

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SCANNING MADE SIMPLE

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Performance	Image Sensor	1280×800 CMOS		
	Illumination	White LED		
	Aimer	650nm laser diode		
	Symbologies	2D	PDF417, MicroPDF417, QR / MicroQR, DataMatrix, Aztec, HanXin, MaxiCode, GridMatrix, Code One, DotCode	
		1D	EAN UPC, Coupon, GS1 Composite, CodaBar, Interleave 25 / ITF-14 / ITF6, Matrix 25, Industrial 25, COOP 25, Standard 25, China post 25, Code 39, Code 93 / Code 93i, Code 128 series, Plessey, MSI Plessey, Code11, RSS, Code 49, Code 16K	
		Postal	USPS Postnet, USPS Intelligent Mail, Royal Mail, USPS Planet, KIX, Australian Postal, Japanese Post	
		OCR	Passport OCR, Passport Visa, TD1, TD2, etc.	
	Resolution*	≥3mil		
	Typical Depth of Field*	EAN-13	70mm-500mm (13mil)	
		Code39	90mm-265mm (5mil)	
		PDF417	70mm-225mm (6.7mil)	
		Data Matrix	65mm-215mm (10mil)	
		QR Code	40mm-295mm (15mil)	
	Min. Symbol Contrast*	25%		
	Scan Angle**	Roll: 360°, Pitch: ±60°, Skew: ±60°		
Field of View	Horizontal 42°, Vertical 28°			
Mechanical/ Electrical	Interface	TTL-232, USB		
	Operating Voltage	3.3VDC±5%		
	Current@3.3VDC	Operating	269mA (RMS typical), 399mA (RMS max.)	
		Idle	<70mA	
		Sleep	<1mA	
	Dimensions	Imager: 21.5(W)×10.2(D)×8.6(H) mm (max.) Decoder board: 21.5(W)×21.5(D)×4.2(H) mm (max.)		
Weight	4g			
Environmental	Operating Temperature	-20°C to 60°C (-4°F to 140°F)		
	Storage Temperature	-40°C to 70°C (-40°F to 158°F)		
	Humidity	5% to 95% (non-condensing)		
	Ambient Light	0~100,000LUX		
Certifications	FCC Part15 Class B, CE EMC Class B, RoHS			
Accessories	NLS-EVK	Software development board for the NLS-EM50S, equipped with a trigger button, beeper and RS-232 & USB interfaces.		
	Cable	USB	Used to connect the NLS-EVK to a host device.	
		RS-232	Used to connect the NLS-EVK to a host device.	
	Power Adapter	DC5V power adapter to power the NLS-EVK with RS-232 cable.		

*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;

1D: Code 128; 5 Bytes; Resolution=10mil; 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

