







NLS-EM50S-10

FEATURES

O 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.

O All-in-One Design

Ultra-compact, light and integrator-friendly, the scan engine caters for miniaturization needs of OEM applications.

O Multiple Interfaces

The NLS-EM50S-10 supports USB and TTL-232 interfaces to meet diverse customer needs.

O Megapixel CMOS

Thanks to its 1280×800 pixel CMOS sensor, the NLS-EM50S-10 is able to capture high resolution images and decode high density barcodes.

O User-friendly Illumination & Aiming

Designed with the end user in mind, the NLS-EM50S-10 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.



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Performance

Performance		
Image Sensor		1280 * 800 CMOS
Illumination		White LED
		650nm laser
Symbologies	2D	PDF417, Micro PDF417, QR / Micro QR, DataMatrix, Aztec, Chinese Sensible Code, Maxicode,
		GridMatrix, Code One, DotCode
	1D	EAN, UPC, Coupon, GSI 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)
	Code 39	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°
Physical		
Interface		TTL-232, USB
Operating Voltage		3.3VDC±5%
Current@3.3VDC	Operating	269mA (typical), 399mA (max.)
	Idle	<70mA
	Sleep	<]mA
Dimensions		21.7(W)×14.7(D)×11.9(H) mm (max.)
Weight		3.9g
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
		0.00,000207
Certificates Certificates & Protection		FCC Part 15 Class B, CE EMC Class B, RoHS
		FCC FUIL IS CIUSS B, CE ENIC CIUSS B, KONS
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=3	300lux using incandescent lar	np; sample printed barcodes made by Newland
**Test conditions: Scan Distance= (mir	n. 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.

Version: VI.4

Newland AIDC

Add: No.1 Rujiang West Rd., Mawei, Fuzhou, Fujian 350001, China Tel: +86-591-83979500 Fax: +86-591-83979216 Email: info@nlscan.com Web: www.newlandaidc.com

North America&Latin America Add: 46559 Fremont Blvd., Fremont, CA 94538, USA Tel: +1 510 490 3888 Fax: +1 510 490 3887 Email: info@nlscan.com

Add: Rolweg 25, 4104 AV Culemborg, The Netherlands Tel: +31 (0) 345 87 00 33 Email: sales@newland-id.com Tech Support: tech-support@newland-id.com Web: www.newlandamerica.com Web: www.newland-id.com

Europe & Middle East

Asia Pacific

Taiwan: Add: 7F-6, No. 268, Liancheng Rd., Jhonghe Dist. 235, New Taipei City, Taiwan Tel: +886 2 7731 5388 Email: info@newland-id.com.tw

