



NLS-EM50S-10

OEM Scan Engine



Features

■ Superior Scanning Performance

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

■ All-in-One Design

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

■ Multiple Interfaces

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

■ 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.

■ 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.

Application Scenarios (as an accessory)

PDAs, tablets, thin-and-light equipment, traditional self-service devices, etc.

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SCANNING MADE SIMPLE

Performance	Image Sensor	1280×800 CMOS
	Illumination	White LED
	Aiming	650nm laser
	Symbolologies	2D: PDF417, Micro PDF417, QR / Micro QR, Data Matrix, Aztec, Chinese Sensible Code, MaxiCode, GridMatrix, Code One, DotCode 1D: EAN, UPC, Coupon, GS1 Composite, CodaBar, Interleaved 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°
Mechanical/ Electrical	Interface	TTL-232, USB
	Operating Voltage	3.3VDC±5%
	Rated Power Consumption	888mW (typical)
	Current@3.3VDC	Operating: 269mA (typical), 399mA (max.) Idle: <70mA Sleep: <1mA
	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
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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