Newland
SCANNING MADE SIMPLE

1d	2d	megapixel	laser aimer	usb	ttl-232

EM50S-10 / EM50S-20
oem scan engines

Features

Superior Scanning Performance.

The EM50S-10 / EM50S-20 is a CPU based scan engine that delivers stunning performance. Armed with Newland's sixth-generation of UIMG technology, decoding damaged or poor-quality barcodes is no match for this scan engine.

Megapixel CMOS.

Thanks to its 1280x800 pixel CMOS sensor, the EM50S-10 / EM50S-20 is able to capture high resolution images and decode high density barcodes with ease.
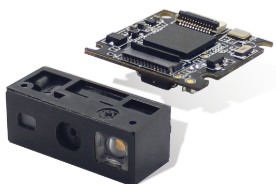
Dynamic Design.

Compact, lightweight and integration friendly is just the start for the all-in-one EM50S-10. The EM50S-20 takes it a step further with separate mountings for the imager and decoder board for a wider variety of integration, even in thin and light equipment.

User Friendly Illumination & Aiming.

Designed with the end user in mind, the EM50S-10 / EM50S-20 features a flicker-free, soft white illumination and a highly visible laser aimer for accurate targeting.

Multiple Interfaces.

The EM50S-10 / EM50S-20 supports USB and TTL-232 interfaces to meet diverse customer needs.

Application Scenarios

industrial   manufacturing

Performance		
	Image Sensor	1280x800 CMOS
	Illumination	White LED
	Aiming	650nm laser diode
	Depth of Field EAN13 (13mil)	70-500mm
	Depth of Field CODE 39 (5mil)	90-265mm
	Depth of Field PDF417 (6.67mil)	70-225mm
	Depth of Field Data Matrix (10mil)	65-215mm
	Depth of Field QR (15mil)	40-295mm
	Minimal Print Contrast	25%
	Scan Angle Roll	360°
	Scan Angle Pitch	±60°
	Scan Angle Skew	±60°
	Field of View Horizontal	42°
	Field of View Vertical	28°
Data capture	1D	Code 11, Code 128, Code 39, GS1 128 (UCC/EAN-128), AMI 128, Codabar, ISBT 128, Code 93, UPC-A, UPC-E, Coupon, GS1 Composite, EAN-13, EAN-8, ISSN, ISBN, Interleaved 2 of 5, Matrix 2 of 5, ITF14, ITF6, Industrial 25, Standard 25, China Post 25, MSI Plessey, Plessey, GS1 Databar (RSS), Code 49, Code 16K, etc.
	2D	PDF417, QR Code, Micro QR, Data Matrix, Aztec, MaxiCode, GM Code, Chinese Sensible Code, MicroPDF417, Code One
Physical	Dimensions (mm)	EM50S-20: Imager: 21.5(W)x10.2(D)x8.6(H) mm (max.) decoder board: 21.5(W)x21.5(D)x4.2(H) mm (max.) EM50S: 10: 21.7(W)x14.7(D)x11.9(H)mm (max.)
	Weight	EM50S-20: 4g EM50S-10: 3.9g
	Input Voltage	3.3VDC±5%
	Current @ 3.3VDC Operating	269mA (RMS typical), 399mA (RMS max.)
	Current @ 3.3VDC Standby	<70mA
	Power Consumption	888mW (typical)
Environmental	Operating Temperature	-20℃ to 60℃ (-4°F to 140°F)
	Storage Temperature	-40℃ to 70℃ (-40°F to 158°F)
	Humidity	5% to 95% (non-condensing)
Accessories	Optional	EVK, RS232 Cable, Adapter, USB Cable
	Standard	75mm FFC
Device Management	Software	EasySet (configuration)
Certifications	Certifications	FCC Part15 Class B, CE EMC Class B,, RoHS
Waranty	Warranty	2 years

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