



NLS-SOLDIER300E

FIXED MOUNT BARCODE SCANNER

FEATURES

New Generation of AI Processor Platform

Equipped with a high-performance dual-core processor and an integrated high-computing neural network inference engine, the NLS-Soldier 300E utilizes advanced AI algorithms to deliver superior image processing capabilities. It ensures faster and more stable decoding performance in complex and dynamic industrial environments.

Newly Upgraded Illuminating System

The upgraded lighting design significantly enhances brightness, with all models featuring a standard half-polarizer. The system offers flexible adjustment of top and bottom zone lighting. The illuminating system can be further equipped with accessories such as diffuser covers and full polarizers, providing a comprehensive solution to meet diverse application requirements.

Fast and Rich Configuration Method

The Easyset configuration tool streamlines the setup process into three steps: focusing, auto-learning, and testing. This makes it easy for first-time users to quickly grasp the configuration.

It supports multi-device grouping, configuration library, multi-code sorting, barcode verification, script programming, enabling customers to achieve a wide range of advanced functionalities.

Versatile and Robust Industrial Design

It has a built-in IP67 seal, which is suitable for various complex environments and relatively compact industrial environments. The adjustable cable interface offers flexible installation with both horizontal and vertical positioning, ensuring seamless integration into various industrial applications.



Manufacturing



NSet



2D Barcode



Ethernet



IP67



Industrial protocols



AI

NLS-SOLDIER300E

Performance

Main unit	Model		NLS-Soldier300E-V4-W		NLS-Soldier300E-V4-S	
	Type		Wide-field type		Long-distance type	
Optical	Sensor		CMOS image sensor			
	Number of Pixels		2592 × 1944 pixels			
	Focus		Liquid lens			
	Illumination (standard)		14 High-intensity red LEDs			
	Polarized Filter		Half polarized (standard)			
	Effective Focal Length		6mm		15mm	
	Aiming		2*circular laser			
Reading specifications	Supported symbol	1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code128, Code93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, Code 39,Code 11, MSI-Plessey, Plessey, Deutsche14, Deutsche12, etc.			
		2D	QR Code, Data Matrix, PDF417, Aztec Code, Micro QR, etc.			
	Minimum Resolution	1D	0.8mil		0.613mil	
		2D	1.4mil		0.8mil	
	Reading Distance		50 to 1500mm		100 to 3000mm	
	Motion Tolerance		3m/s			
	Min. Symbol Contrast		≥15%			

Physical

Mechanical/ Electrical specifications	Dimensions		61 (W)×57.6 (D)×101.83 (H)	
	Weight		420g	
	Prompt		Buzzer, pilot lamp	
	Power Voltage		24VDC	
	Current @24V DC	Operating	1000mA (max)	
		Standby	90mA	
	Input IO		Minimum ON voltage: ±5V; Maximum rated voltage: ±30V; 2 inputs.	
	Output IO		Maximum rated current: 50mA per channel; Maximum voltage (OFF state): ±30V; 2 outputs.	
	Communication Protocol		RS-232, TCP/IP, UDP, FTP, Modbus TCP, Ethernet/IP, Profinet, MELSEC/SLMP	

Environmental

Environmental Resistance	Operating Temperature	-20°C~+50°C (-4°F to 122°F)			
	Storage Temperature	-40°C~+70°C (-40°F to 158°F)			
	Relative Humidity	5%~95% (non-condensing)			
	Static Discharge	±16 kV (air discharge), ±8 kV (contact discharge)			
	Enclosure Rating	IP67			

Accessories

Accessories	Cable	Ethernet cable, RS232+I/O cable			
	Adapter	Input 100~240V, output DC 24V/1.5A			
	Others	Fixed bracket, Diffuser (optional), Full polarized filter (optional), Magnifier (optional), Laser protective glass (optional)			

Certification

Certification	CE, FCC, RoHS 2.0, IEC 60825-1, IEC 62368, IEC 62471, BIS, KC				
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NLS-SOLDIER300E

Reading range

Distance and Range: mm , Density: mil

NLS-Soldier300E-V4-W			
	Density	Distance	Range
1D	1.67 mil	98	110x81
	4 mi	251	263x195
	10 mi	650	658x491
2D	5 mi	175	183x136
	10 mi	357	365x273
	20 mi	729	732x545
	30 mi	1098	1097x821
	35 mi	1281	1280x958

NLS-Soldier300E-V4-S			
	Density	Distance	Range
1D	1.67 mi	283	110x84
	4 mi	677	263×200
	10 mi	1694	659×500
2D	3 mi	282	110×83
	5 mi	470	183×139
	10 mi	941	366×278
	20 mi	1882	732×556
	30 mi	2823	1097×834

Specifications are subject to change without notice.

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