Newland AIDC
Scanning Made Simple



NLS-SOLDIER300XE

FIXED MOUNT BARCODE SCANNER

FEATURES

High Resolution Sensor

Equipped with a 12MP high-resolution sensor, delivering enhanced detail and clearer images for longer-distance installations while maintaining superior image quality within the same scene. An ideal solution for multi-code capture and high-precision applications.

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 300 utilizes advanced AI algorithms to deliver superior image processing capabilities. It ensures faster and more stable decoding performance in complex and dynamic industrial environments.

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.

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 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.

Manufacturing | NSet | 2D Barcode | Ethernet | IP67 | Industrial protocols

NLS-SOLDIER300XE

Performance

Main unit	Model		NLS-Soldier300XE-V4-WP
	Type		Wide-field type
Optical	Sensor		CMOS image sensor
	Number of Pixels		4096 × 3044 pixels
	Focus		auto-focusing
	Illumination (standard)		16 High-intensity white LEDs
	Polarized Filter		Half polarized (standard)
	Effective Focal Length		8mm
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	0.48mil
		2D	0.78mil
	Reading Distance		40-1500mm
	Motion Tolerance		1m/s
	Min. Symbol Contrast		≥20%

Physical

Physical			61 (W)×57.6 (D)×101.83 (H)
Electrical specifications	Weight		420g
	Prompt		Buzzer, pilot lamp
	Power Voltage		24VDC
	Current @24V DC	Operating	1333mA (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℃~+50℃ (-4°F to 122°F)
	Storage Temperature	-40℃~+70℃ (-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)

Certification

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

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Reading range

Distance and Range：mm , Density：mil

NLS-Soldier300XE-V4-W			
	Density	Distance	Range
1D	1.67 mil	145	164x122
	4 mi	385	410x305
	10 mi	1000	1024x762
2D	2mi	95	113x84
	5 mi	265	287x213
	10 mi	545	573x426
	15mi	835	870x647
	20 mi	1105	1147x853

Specifications are subject to change without notice.

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