



Newland AIDC
Scanning Made Simple



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. In addition to standard red lighting, optional white, blue, ultraviolet, and infrared versions are available. 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 Nset 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

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 1D symbol	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 1D	0.8mil	0.613mil
	Resolution 2D	1.4mil	0.8mil
	Reading Distance	50 to 1500mm	100 to 3000mm
	Motion Tolerance	3m/s	
	Min. Symbol Contrast	≥15%	

Physical

		61 (W)×57.6 (D)×101.83 (H)
Electrical specifications	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
---------------	---

Newland AIDC

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

Asia Pacific

Add: 6 Raffles Quay #14-06
Singapore 048582
Email: info@newlandaidc.com

Europe & Middle East

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

North America & Latin America

Add: 46559 Fremont Blvd.,
Fremont, CA 94538, USA
Tel: +1 510 490 3888
Fax: +1 510 490 3887
Email: info@newlandaidc.com

NLS-SOLDIER300E

Reading range

NLS-Soldier300E-V4-W

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

NLS-Soldier300E-V4-S

Distance and Range: mm , Density: mil

	Density	Distance	Range
1D	1.67	283	110x84
	4	677	263x200
	10	1694	659x500
2D	3	282	110x83
	5	470	183x139
	10	941	366x278
	20	1882	732x556
	30	2823	1097x834

Specifications are subject to change without notice.

Version: V4.0 2026/03/06

Newland AIDC

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

Asia Pacific

Add: 6 Raffles Quay #14-06
Singapore 048582
Email: info@newlandaidc.com

Europe & Middle East

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

North America & Latin America

Add: 46559 Fremont Blvd.,
Fremont, CA 94538, USA
Tel: +1 510 490 3888
Fax: +1 510 490 3887
Email: info@newlandaidc.com