







**NLS-SOLDIER300** 

**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 300 utilizes advanced Al 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 step: 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.













# NLS-SOLDIER300

#### **Performance**

Main unit Model NLS-Soldier300W NLS-Soldier300N NLS-Soldier300S

Type Wide-field type Standard type Long-distance type

Optical Sensor CMOS image sensor

Number of Pixels 1920 × 1200 pixels

Focus Liquid lens

Illumination (standard) 14 High-intensity red LEDs

Illumination (optional) White LED/blue LED/ultraviolet LED/infrared LED

Polarized Filter Half polarized (standard)

Effective Focal Length 6mm 9mm 15mm

Aiming 2\*circular laser

Reading Supported 1D EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code128, Code93,

specifications symbol 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, Deutschel4, Deutschel2, etc.
2D QR Code, Data Matrix, PDF417, Aztec Code, Micro QR, etc.

 Minimum
 1D
 1.67mil
 1mil
 0.8mil

 Resolution
 2D
 3.33mil
 2.5mil
 2mil

Reading Distance 50 to 1000mm 50 to 1000mm 100 to 2000mm

Motion Tolerance 3m/s
Min. Symbol Contrast ≥15%

#### **Physical**

Mechanical/ Dimensions 61 (W)×57.6 (D)×101.83 (H)

Electrical Weight 420g

Prompt Buzzer, pilot lamp specifications

Power Voltage 24VDC

Current Operating 333mA (max)

@24V DC 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 Operating Temperature  $-20^{\circ}\text{C} + 50^{\circ}\text{C} (-4^{\circ}\text{F to } 122^{\circ}\text{F})$ Resistance Storage Temperature  $-40^{\circ}\text{C} + 70^{\circ}\text{C} (-40^{\circ}\text{F to } 158^{\circ}\text{F})$ Relative Humidity 5% - 95% (non-condensing)

Static Discharge ±16 kV (air discharge), ±8 kV (contact discharge)

Enclosure Rating IP6

#### 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-SOLDIER300

# Reading range

NLS-Soldier300W

NLS-Soldier300N

NLS-Soldier300S

Distance and Range: mm, Density: mil

	Density	Distance	Range
1D	1.67	69	81×50
	4	184	195×121
	10	471	487×304
2D	5	128	136×84
	10	259	271×169
	20	524	542×338
	30	803	813×506
	35	939	949×592

	Density	Distance	Range
1D	1.67	110	81×51
	4	286	195×122
	10	718	487×304
2D	5	198	135×84
	10	397	271×169
	15	599	407×254
	20	798	542×338
	25	1000	673×420

	Density	Distance	Range
1D	1.67	209	81×51
	4	502	195×123
	10	1254	488×308
2D	3	209	81×51
	5	348	135×85
	10	697	271×171
	20	1394	542×342
	30	2000	778×491

Specifications are subject to change without notice.

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