



Newland AIDC
Scanning Made Simple



NLS-SOLDIER180

FIXED MOUNT BARCODE SCANNER

FEATURES

Advanced liquid autofocus technology

Through the automatic focusing of the liquid lens, the Soldier180 can achieve fast and effective focus control and achieve a high degree of flexibility in reading.

Excellent DPM Decoding Capability

Using 1280×960 megapixels image sensor, the scanner can decode higher precision barcodes. Armed with Newland's latest-generation industrial decoding algorithm, it has strong decoding ability for DPM barcodes such as radium carving and dotting barcodes.

Multiple models meet multiple scenarios

Providing N, S and other distance and angle versions, as well as polarization version equipment, which can meet different application requirements.

Fast and rich configuration method

Through the software NSet, the scanner can be configured diversified, including networking, multi-code, communication and other functions, and equipped with a powerful AutoLearn self-learning function on the device and in the software, which can achieve one-click completion of image and focus settings, which greatly improves the convenience of barcode reader configuration.

High Protection Industrial Structure Design

This fixed barcode scanner Soldier180 has a very small structure, but it has very powerful functions. It has a built-in IP65 seal, which is suitable for various complex environments and relatively compact industrial environments.



2D Barcode



IP65



1.5m Drop



NSet



Ethernet



RS232



USB

NLS-SOLDIER180

Performance

Image Sensor	1280 × 960 CMOS				
Illumination	Red LED;				
Aiming	650nm laser diode				
Symbologies	2D	QR Code, Micro QR Code, PDF 417, Data Matrix.			
	1D	EAN-8, EAN-13, UPC-E, UPC-A, Code 128, UCC/EAN128, Interleaved 2 of 5, ITF-14, ITF-6, Matrix 2 of 5, CodaBar, Code 39, Code 93, ISSN, ISBN, Industrial 25, Standard 25, Plessey, Code11, MSI Plessey, AIM 128, ISBT 128, COOP 25, Deutsche14, Deutsche12.			
Resolution*	≥2mil				
Product Type	Soldier180N		Soldier180S		
Typical Depth of Field*	Distance/mm	1Dmin.code	2Dmin.code	1Dmin.code	2Dmin.code
	40	2 mil	3 mil	2 mil	2 mil
	65	3 mil	4 mil	2 mil	2 mil
	80	4 mil	5 mil	2 mil	2 mil
	105	4 mil	7 mil	3 mil	3 mil
	150	4 mil	10 mil	3 mil	4 mil
	190	5 mil	10 mil	3 mil	4 mil
	225	5 mil	12 mil	3 mil	4 mil
	375	8 mil	15 mil	4 mil	7 mil
	500	12 mil	20 mil	6 mil	10 mil
1000	25 mil	40 mil	15 mil	20 mil	
Effective focal length	7mm		14mm		
Min. Symbol Contrast*	20%				
Scan Angle**	Roll: 360°, Pitch: ±45°, Skew: ±45°				
Motion Tolerance*	2m/s				
Field of View	Horizontal 38°, Vertical 28.7°		Horizontal 15.2°, Vertical 11.3°		

Physical

Protocol	USB, RS232, TCP/IP, UDP, FTP, Modbus, Ethernet/IP, Profinet, SLMP/MC				
Operating Voltage	12-30VDC				
Current@24VDC	Power consumption	180mA(Max), 3.6W			
	Idle	30mA			
Dimensions	45(W) × 59.2(D) × 25(H) mm (max.)				
Weight	192g				

Environmental

Operating Temperature	-20°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% (non-condensing)
Ambient Light	0-100,000lux (natural light)
ESD	±16 KV (air discharge); ±8 KV (direct discharge)
Drop	1.5m
Sealing	IP65

Certificates

Certificates & Protection	CE EMC Class B, FCC Part15 Class B, RoHS2.0 IEC62471, EN 60825-1:2014
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*Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample printed barcodes made by Newland.

**Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp;

Specifications are subject to change without notice.

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