



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.

Rich communication interface

Integrated Ethernet /RS232/USB interface, and support IO port input and output.

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.

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.



2D Barcode



IP 65



1.5m Drop



NSet



Ethernet



RS232



USB

NLS-SOLDIER180

Performance

Image Sensor	1280 × 960 CMOS				
Illumination	Red highlights				
Aiming	650nm single point laser				
Symbolologies	2D	QR Code, Micro QR Code, PDF 417, Data Matrix.			
	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.			
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
Min. Symbol Contrast*	25%				
Scan Angle**	tilt: 360°, Pitch: ±45°, Skew: ±45°				
Motion Tolerance*	2m/s				
Field of View	Horizontal 38°, Vertical 28.7° Horizontal 15.2°, Vertical 11.3°				

Physical

Interface	USB, RS232, 10M/100M Ethernet	
Operating Voltage	10-30VDC	
Current@24VDC	Power consumption	180mA(Max), 4.32W
	Idle	60mA
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)
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.

Version: V1.0

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