



NLS-NVF230

FIXED MOUNT BARCODE SCANNER

FEATURES

Advanced Hardware Performance

Equipped with next-generation AI platform, 1280×800 high-resolution low-noise image sensor, and IP54-rated design, the NLS-NVF230 enhances optical performance, delivering exceptional decoding capabilities and reliability.

Excellent Decoding Capability

Featuring a proprietary AI-powered industrial decoding algorithm, the NLS-NVF230 delivers exceptional performance in decoding both 1D and 2D barcodes. It instantly scans printed and non-reflective barcodes upon power-up, with no need for image parameter adjustments

Multiple Accessories for Diverse Scenarios

The NLS-NVF230 supports various accessories including diffuser, reflector, and magnifier, providing effective solutions for reflective environments and limited installation scenarios, making it suitable for a wide range of applications.

User-Friendly Configuration Method

The Nset configuration tool simplifies parameter setup, supporting configuration libraries, multi-code sorting, and script programming, enabling users to access advanced functionalities with ease.

Versatile Communication Interface

The NLS-NVF230 integrates USB, RS-232, and Ethernet interfaces, supporting mainstream industrial protocols such as TCP, Ethernet/IP, Profinet, and MELSEC/SLMP. With interface auto-adaptation, it enables seamless and rapid connection to debugging software.



Manufacturing



NSet



2D Barcode



Ethernet



IP Sealing



Industrial protocols

NLS-NVF230

Performance

Main unit	Model		NLS-NVF230-SR		NLS-NVF230-HD	
	Type		Standard depth of field		Near depth of field	
Optical	Sensor		CMOS image sensor			
	Number of Pixels		1280 × 800 pixels			
	Aiming		Cross laser			
	Illumination		4 white LEDs			
Reading specifications	Field of View		Horizontal 51°; Vertical 32°			
	Supported symbol	1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Code 128, Code 39, Code 93, Codabar, UCC/EAN 128, AIM128, Interleaved 2 of 5, ITF-14, ITF-6, Standard 2 of 5, Matrix 2 of 5, COOP 25, Industrial 2 of 5, Plessey, MSI Plessey, ISBT128, Deutsche14, Deutsche12, Code 11.			
		2D	QR Code, Data Matrix, PDF417, Micro QR.			
		Minimum Resolution	3mil			
	Typical Depth of Field		QR (15mil)	40-310mm	QR (15mil)	30-175mm
			DM (10mil)	50-210mm	QR (5.6mil)	45-85mm
			Code39 (5mil)	65-230mm	DM (10mil)	35-140mm
			EAN-13 (13mil)	50-460mm	DM (6.7mil)	40-100mm
					Code39 (5mil)	40-140mm

Physical

Mechanical/	Dimensions	45 (W)×51 (D)×25 (H)	
Electrical	Weight	184g	
Specifications	Prompt	Buzzer, LED	
	Operating Voltage	5-24VDC	
	Rated Power Consumption	1600mW	
	Current@ Operating	320mA (typical), 510mA (max)	
	5V DC Standby	84mA	
	Input	Minimum ON voltage: ±5V; maximum rated voltage: ±30V; 1 input	
	Output	Maximum rated current: 50mA per channel, maximum voltage (OFF state): ±30V; 2 outputs.	
	Communication Interface	USB, RS-232, TCP/IP, UDP, FTP, Modbus TCP, Ethernet/IP, Profinet, MELSEC/SLMP	

Environmental

Environmental	Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Resistance	Storage Temperature	-40°C to 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	IP54

Accessories

Accessories	Cable	USB cable, USB + I/O cable, RS232 + USB Type-C+ I/O cable, RS232 + Ethernet + I/O cable
	Adapter	Input 100-240V, output DC 5V/1.5A
	Others	Fixed bracket, diffuser (optional), reflector (optional), magnifier (optional)

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