



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 | | | |
| | Field of View | | Horizontal 51°; Vertical 32° | | | |
| Reading specifications | Supported | 1D | EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Code 128, Code 39, Code 93, Codabar, UCC/EAN 128, AIM128, | | | |
| | symbol | | 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) |

