



Newland AIDC
Scanning Made Simple



NLS-NVH220B-XD

HANDHELD INDUSTRIAL BARCODE SCANNER

FEATURES

Excellent DPM Decoding Capability

Powered by Newland's latest-generation **UIMG[®]** decoding algorithm, the NLS-NVH220B-XD significantly improves decoding performance on complex barcodes and excels at decoding laser-etched and dot-peened DPM codes.

Upgraded Dual-Core Processing Platform

The NLS-NVH220B features an upgraded dual-core processing platform that delivers higher compute performance at lower power, enabling faster, more stable decoding and superior image capture.

Versatile Illumination System

Provides red and blue direct (spot) illumination and white diffuse lights. The versatile lighting system accommodates reflective materials, curved surfaces, varied backgrounds, and different barcode colors, meeting diverse and complex scanning requirements.

Advanced OCR Recognition Technology

Equipped with advanced OCR technology, the NLS-NVH220B-XD accurately recognizes alphanumeric characters on products and materials, boosting productivity.

High Protection Industrial Structure Design

The NLS-NVH220B-XD, built into an IP64-sealed and can withstand repeated falls from 2.4 meters to the ground, with excellent reliability and stability.

Wireless Connectivity

Powered by the new generation of wireless communication technology, the scanner delivers low-latency, highly reliable performance with strong interference immunity, ensuring stable, reliable, and accurate data transmission even in complex RF environments.

Versatile Communication Interface

The NLS-NVH220B-XD integrates USB, RS-232, and Ethernet interfaces, supporting mainstream industrial protocols such as TCP/IP, Ethernet/IP, Profinet, and Modbus. With interface auto-adaptation, it enables seamless and rapid connection to debugging software.



AI



ID Barcode



2D Barcode



IP 64 sealing



Ethernet



Wireless



USB



Drop

NLS-NVH220B-XD

Performance

| | | |
|------------------------|--------------------|---|
| Image Sensor | | 1280 × 800 CMOS |
| Illumination | | Direct: red & blue LEDs; Diffuse: white LED; |
| Aiming | | 650nm, crosshair laser |
| Symbologies | ID | 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, AIM 128, GSI Composite, GSI-128(UCC/EAN), ISBT 128, Code 11, MSI-Plessey, Plessey, etc. |
| | 2D | QR Code, PDF417, Micro QR, Data Matrix, AZTEC. |
| | OCR | Optional |
| Resolution | ID | ≥1.25mil |
| | 2D | ≥2.82mil |
| | EAN-13(13mil) | 35mm-200mm |
| | Code 39(5mil) | 15mm-150mm |
| Typical Depth of Field | Code 39(20mil) | 75mm-270mm |
| | Data Matrix(10mil) | 10mm-140mm |
| | QR Code(20mil) | 10mm-200mm |
| Min. Symbol Contrast | | 15% |
| Scan Angle | | Roll: 360°, Pitch: ±50°, Skew: ±50° |
| | | Horizontal 33°, Vertical 22° |

Physical

| | | |
|-------------------------|-----------|--|
| Interface | | RS-232, TCP/IP, ModbusTCP, Ethernet/IP, Profinet, MELSEC \SLMP |
| Rated Power Consumption | | 1400mW (typical) |
| Current@3.8VDC | Operating | 370mA (red LED by default) |
| | Standby | 90mA |
| | Idle | 40mA |
| Dimensions(L×W×H) | | Scanner: 68 × 86 × 180mm Cradle: 103 × 127 × 123 mm |
| Weight | | Scanner: 218g (with battery), cradle:217g |
| Notification | | Beep, LED indicator, Vibrator |

Environmental

| | |
|------------------------------|--|
| Operating Temperature | -20°C to 50°C (-4°F to 122°F) |
| Battery Charging Temperature | 0°C to 45°C (32°F to 113°F) |
| Storage Temperature | -40°C to 70°C (-40°F to 158°F) |
| Humidity | 5% to 95% (non-condensing) |
| ESD | ±16 KV (air discharge); ±8 KV (direct discharge) |
| Drop | 2.4m |
| Sealing | Scanner: IP64 Cradle: IP42 |

Wireless

| | |
|------------------------|--|
| Communication Distance | 150m (line of sight) |
| Expected Battery Life | ≥17 hours of continuous operation, up to 60,000 scans per charge |
| Expected Charge Time | 3 hours |

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NLS-NVH220B-XD

Certifications

| | | |
|----------------|---------|---|
| Certifications | | CE, CCC, FCC, KC, BIS, RoHS2.0, IEC62471, IEC60825, ISO16750 |
| Accessories | Cable | USB cable, RS232 cable, Ethernet cable, |
| | Adapter | Input 100~240VAC, output 5VDC/3A |
| | Others | Removable battery (2900 mAh), wall-mounted bracket, rubber boot |

Specifications are subject to change without notice.

Version: V1.0

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