Newland
SCANNING MADE SIMPLE

1D & 2D

DPM

LED aimer

IP64

1.8M drop

RS232

USB

Nset

Warranty 5 Years

NVH220 Lophius Corded
Handheld Scanners
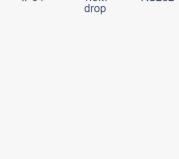
Features

High-Performance DPM Scanning

The NVH220 Lophius stands out with its exceptional proficiency in decoding DPM barcodes, including those made by laser part marking and dotting techniques. With dual-core parallel processing and improved computing power, the NVH220 significantly enhances image capture, recognition, and scanning speed, ensuring accurate and efficient decoding.

Highly Durable In Tough Environments

Designed with durability in mind, the NVH220 Lophius features a robust design that can withstand the toughest conditions. With its high-protection construction and IP64-sealed housing, this scanner ensures reliable performance, even in the face of dust, water, and repeated falls from heights of up to 1.8 meters.

Intelligent Learning

With the intelligent learning ability, the NVH220 Lophius enables automatic parameter adjustments based on previous scanning scenarios, ensuring optimal performance and adaptability. Leveraging three illumination colors and intelligent angle adjustments, the NVH220 Lophius automatically explores the options to find the optimal combination for scanning. Once identified, this scanner memorizes the last setting, ensuring efficiency in future code scans.

Advanced Illumination and AI Functionality

The NVH220 Lophius comes equipped with diverse lighting options, encompassing direct white and red illumination, along with diffuse blue ring lights. These advanced illumination capabilities empower the NVH220 Lophius to effortlessly scan even the most demanding barcodes across a diverse spectrum of materials (reflective surface), shapes (curved surfaces), backgrounds (low to high contrast), and barcode colors. With advanced AI capabilities, the NVH220 Lophius excels in barcode positioning and reconstruction, further enhancing its ability to tackle challenging barcodes.

Configure To Your Needs

With free configuration software Nset, the NVH220 Lophius can be easily configured to suit the needs of any application. Nset is specifically tailored for DPM and high-density scanners, providing users with enhanced flexibility and control over their devices.

Suggested industries

Warehousing

Logistics

Manufacturing

Industrial

Transportation

Data Capture

1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code128, Code93, Code11, COOP25, GS1-128 (UCC/EAN-128), ITF-6, ITF-14, AIM128, ISBT128, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, MSI Plessey, Code 39, Plessey, Deutsche 14, Deutsche 12
2D	QR Code, PDF417, Micro QR, Data Matrix, Aztec
Image Sensor	1280 × 960 CMOS
Aiming	LED 532nm
Illumination	Direct: white & red light LED; Diffuse: ring of blue LED
Resolution	≥3mil
Depth of Field EAN 13 (13mil)	25mm-160mm
Depth of Field Code 39 (20mil)	35mm-210mm
Depth of Field DataMatrix (10mil)	0mm-125mm
Depth of Field QR (20mil)	20mm-180mm
Field of View	Horizontal 41°, Vertical 31°
Scan Angle	Roll: 360°, Pitch: ±50°, Skew: ±50°
Motion Tolerance	2m/s
Minimal Print Contrast	20%

Physical

Current @ 5VDC Operating	typical: 450mA; max: 475mA
Dimensions (mm)	67(W)×86(D)×170(H) mm
Input Voltage	5VDC±5%
Interfaces	USB, RS232
Notifications	Beep, LED indicator, Vibrator
Power Consumption	2250mW (typical)
Weight	245g

Environmental

Storage Temperature	-40°C to 70°C(-40°F to 158°F)
Operating Temperature/Storage Temperature	-20°C to 50°C(-4°F to 122°F); -40°C to 70°C(-40°F to 158°F)
Humidity	5% to 95% (non-condensing)
Electro Static Discharge (ESD)	±16 KV (air discharge); ±8 KV (direct discharge)
Drop	1.8m
IP Rating	IP64

Accessories

Standard	USB, RS-232

Certifications

Hardware	FCC, CE, ROHS, IEC63471

Feel free to contact us or a partner near you

visit newland-id.com/partners

Specifications are subject to change without notice

Newland
SCANNING MADE SIMPLE