



# NVH220 Lophius Corded

Industrial Handheld Scanners

 1.8m drop	 1D & 2D	 DPM	 IP64	 LED aimer	 Nset
 RS232	 USB	 Warranty 5 Years			



## 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.

**5** Years Full  
Warranty



TECHNICAL SPECIFICATIONS

## NVH220 Lophius Corded

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
Aiming	LED (532nm)
Depth of Field Code 39 (20mil)	35 mm - 210 mm
Depth of Field DataMatrix (10mil)	0 mm - 125 mm
Depth of Field EAN 13 (13mil)	25 mm - 160 mm
Depth of Field QR (20mil)	20 mm - 180 mm
Field of View Horizontal	41°
Field of View Vertical	31°
Illumination	Diffuse: ring of blue LEDs, Direct: white & red light LEDs
Image Sensor	1280 x 960 CMOS
Minimal Print Contrast	20%
Motion Tolerance	2 m/s
Resolution	≥3mil
Scan Angle Pitch	50°
Scan Angle Roll	360°
Scan Angle Skew	50°

#### Physical

Current @ 5VDC Operating	450 mA (typical), 475 mA (max)
Dimensions	67(W) × 86(D) × 170(H) mm
Input Voltage	5 VDC ±5%
Interfaces	USB, RS-232
Notifications	Beep, LED, Vibration
Power Consumption	2250 mW (typical)
Weight	245 g

#### Environmental

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

#### Software

Configuration Tools	NSet
---------------------	------

#### Certifications

Certifications Hardware	FCC, RoHS, CE, IEC 63471
-------------------------	--------------------------

#### Warranty

Warranty Standard	5 Years
-------------------	---------

## Accessories

Accessories Optional	USB cable, USB-C cable, Multiplug adapter, RS-232 cable, Wall mount clip
Accessories Standard	USB cable

## What's in the box?

NLS-NVH220-HD	NVH220 Lophius, 2 meter USB cable
---------------	-----------------------------------

# Accessories

---

## Charging/Power

ADP100 Power Supply for HR, FR, and FM Series (ADP100)

---

## Cables

CBL017U RJ to USB-C Cable for HR, FR and FM Series (CBL017U)  
CBL030UA USB Cable for HR12, HR32 and HR52 Series (CBL030UA)  
CBL036UA USB Cable for HR, FM, and FR Series (CBL036UA)  
CBL037R RS232 Cable for HR, FR, and FM Series (CBL037R)  
CBL042UA USB Cable for HR, FM, and FR Series (CBL042UA)  
CBL048U USB Cable for Ingenico iCT220 (CBL048U)  
CBL105U USB White Cable for HR Series (CBL105U)  
CBL128R Cable for Magellan Connection (CBL128R)

---

## Peripherals

EX232 Remora (NLS-EX232-01)

---

## Base Stations

NLS-STD-WM001 Wall Mount for HR Series (NLS-STD-WM001)

---



### Newland AIDC EMEA

Feel free to contact us or a partner near you.  
[info@newland-id.com](mailto:info@newland-id.com) - [newland-id.com](http://newland-id.com)

Specifications are subject to change without notice  
© Newland AIDC EMEA 2026 - All rights reserved