



1D & 2D



**DPM** 









LED

Bluetooth

**IP64** 

1.8M drop

·

RS232









**NVH220** Lophius **Bluetooth** 

Handheld Scanners

### **Features**

### **High-Performance DPM Scanning**

The NVH220 Lophius BT 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 BT 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 BT 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 BT 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 BT 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 BT 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 BT excels in barcode positioning and reconstruction, further enhancing its ability to tackle challenging barcodes.

### **Maximised Mobility**

Equipped with Bluetooth 5.0, the NVH220 Lophius BT ensures ultrafast wireless communication with other devices. The strong, reliable connection of up to 50m offers all-day flexibility on the work floor.

### **Configure To Your Needs**

With free configuration software Nset, the NVH220 Lophius BT 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















Logistics

Manufacturing

Industrial Transportation

## **NVH220 Lophius Bluetooth** Technical specifications

### **Data Capture**

1D All major 1D symbologies

2D All major 2D symbologies

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

Scan Angle/Field of View Roll: 360°, Pitch: ±50°, Skew: ±50°; Horizontal 41°, Vertical 31°

Minimal Print Contrast 20%

Motion Tolerance 2m/s

### **Physical**

Battery Type 3500mAh

Current @ 5VDC Operating/Standby/Sleep 562mA/116mA/43mA

Dimensions (mm) Scaner: 68.0(W) ×105.0(D) ×169.0(H) mm, Cradle: 103(W) × 127(D) ×83(H) mm

Expected Battery Life/Charge Time ≥23 hours of continuous operation, up to 60,000 scans per charge; 2 hours

Input Voltage 5VDC±5%

Interfaces USB, RS232

Notifications Buzzer, LED indicator, Vibrator

Power Consumption 2246mW (typical)

Weight Scanner: 220g, Cradle: 230g

### Wireless

Radio Technology 2.4 to 2.2835 GHz ISM Band, Bluetooth 5.0 BLE

Wireless Distance (max.) 150m (line of sight)

### **Environmental**

Ambient Light 0~100,000lux (natural light)

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 Scanner: IP64, Cradle: IP42

### Accessories

Standard NVH220B\_CD220 docking station and CBL042UA USB cable

**Newland AIDC EMEA** 

Email address: info@newland-id.com

Feel free to contact us or a partner near you

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# NVH220 Lophius Bluetooth Technical specifications

Certifications

Hardware FCC, CE, ROHS, IEC63471



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