



NVH220 Lophius Bluetooth

Industrial Handheld Scanners

 1.8m drop	 1D & 2D	 Bluetooth 5.0	 DPM	 IP64	 LED aimer
 Nset	 RS232	 USB	 Warranty 3 Years		



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.

3 Years Full Warranty



TECHNICAL SPECIFICATIONS

NVH220 Lophius Bluetooth

Data Capture

1D	All major 1D symbologies	NVH220 Lophius Bluetooth Page 1 of 3
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2D	All major 2D symbologies
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

Battery Type	3500 mAh
Current @ 5VDC Operating	562 mA
Current @ 5VDC Sleep	43 mA
Current @ 5VDC Standby	116 mA
Dimensions	Scanner: 68.0(W) × 105.0(D) × 169.0(H) mm, Cradle: 103(W) × 127(D) × 83(H) mm
Expected Battery Life	≥23 hours of continuous operation, up to 60,000 scans per charge
Expected Charge Time	2 hours
Input Voltage	5 VDC ±5%
Interfaces	USB, RS-232
Notifications	LED, Vibration, Buzzer
Power Consumption	2246 mW (typical)
Weight	Scanner: 220 g, Cradle: 230 g

Wireless

Radio Technology	2.4 to 2.2835 GHz ISM Band, Bluetooth 5.0 BLE
Wireless Distance (max.)	150 m (line of sight)

Environmental

Ambient Light	0 to 100,000 lux (natural light)
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
IP Rating with Cradle	IP42

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	3 Years
Accessories	
Accessories Optional	USB cable, USB-C cable, Multiplug adapter, RS-232 cable, Wall mount clip
Accessories Standard	USB cable, Stand/Docking station
What's in the box?	
NLS-NVH220-BT	NVH220 Lophius BT, Docking station, USB cable

Accessories

Charging/Power	ADP100 Power Supply for HR, FR, and FM Series (ADP100)
Cables	<p>CBL017U RJ to USB-C Cable for HR, FR and FM Series (CBL017U)</p> <p>CBL030UA USB Cable for HR12, HR32 and HR52 Series (CBL030UA)</p> <p>CBL036UA USB Cable for HR, FM, and FR Series (CBL036UA)</p> <p>CBL037R RS232 Cable for HR, FR, and FM Series (CBL037R)</p> <p>CBL042UA USB Cable for HR, FM, and FR Series (CBL042UA)</p> <p>CBL048U USB Cable for Ingenico iCT220 (CBL048U)</p> <p>CBL105U USB White Cable for HR Series (CBL105U)</p> <p>CBL128R Cable for Magellan Connection (CBL128R)</p>
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.
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