Newland AIDC
SCANNING MADE SIMPLE

1D & 2D | DPM | AI-Powered Barcode Decoding | Advanced Scripting | Acuscan | White Illumination

Laser aimer | USB | RS232 | Ethernet | IP64 | 1.8M drop

EasySet | Warranty 5 Years

NVH220 Lophius AI Corded

Handheld Scanners

Features

AI-Powered Scanning Technology.

The NVH220 Lophius AI Corded is equipped with Newland's UIMG and AI-Powered Barcode Detection scanning technologies. These advanced systems enable rapid, accurate, and reliable decoding of both 1D and 2D barcodes, even when they are damaged or distorted, as well as on reflective and curved surfaces.

AI-powered devices utilize computer vision and self learning to interpret barcodes accurately. They efficiently analyze images to detect, locate, and read barcodes. The NVH220 Lophius AI Corded excels in challenging conditions, demonstrating advanced decoding performance and providing a reliable scanning solution that functions flawlessly in any situation.

High-Performance DPM Scanning

The NVH220 Lophius AI Corded is distinguished by its outstanding ability to decode DPM barcodes, including those created using laser part marking and dotting techniques. Equipped with an upgraded dual-core processing platform, the NVH220 offers enhanced performance while consuming less power. This results in faster and more stable decoding, as well as improved image capture.

Advanced Illumination.

The NVH220 Lophius AI Corded features both red and blue direct illumination and white diffuse lighting. These lighting options can be easily activated using the auto-learning function button located on the top of the device. With this feature, the NVH220 automatically adjusts brightness and light source to optimize barcode decoding, even on challenging materials. This includes reflective surfaces, curved shapes, varied backgrounds (ranging from low to high contrast), and different barcode colors.

Robust by Design.

The NVH220 Lophius AI Corded is built for durability, featuring a robust design that can endure challenging conditions. Its high-protection construction and IP64-sealed housing ensure reliable performance, even in environments with dust and water exposure, as well as after repeated drops from heights of up to 1.8 meters.

Configure To Your Needs.

The NVH220 Lophius AI Corded can be easily configured to meet the specific needs of any application using the free configuration software, EasySet.

Suggested industries

Warehousing | Logistics | Manufacturing | Industrial | Transportation

NVH220 Lophius AI Corded Technical specifications

Data Capture	
1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Codel28, 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 Codell, MSI-Plessey, Plessey, etc.
2D	QR Code, PDF417, Micro QR, Data Matrix, AZTEC.
Image Sensor	1280 x 800 CMOS
Aiming	650nm, crosshair laser
Illumination	Direct: red & blue LEDs; Diffuse: white LED
Resolution	≥2mil
Depth of Field EAN 13 (13mil)	15 mm - 220 mm
Depth of Field Code 39 (5mil)	0 mm - 160 mm
Depth of Field Code 39 (20mil)	65 mm - 350 mm
Depth of Field QR (10mil)	0 mm - 160 mm
Depth of Field QR (20mil)	0 mm - 225 mm
Field of View Horizontal	33°
Field of View Vertical	22°
Scan Angle Roll	360°
Scan Angle Pitch	±50°
Scan Angle Skew	±50°
Minimal Print Contrast	20%
Motion Tolerance	2m/s
Physical	
Communication Protocol	USB/RS-232/TCP-IP
Current @ 5VDC Operating	300 mA (typical), 450 mA (max.)
Dimensions (mm)	68(W) x 86(D) x 180(H) mm
Interfaces	USB, RS-232, Ethernet
Notifications	Beep, LED indicator, Vibrator
Power	5VDC±5%
Power Consumption	1,500 mW (typical)
Weight	160g (without cable)
Environmental	
Operating Temperature	-20°C to 50°C (-4 °F to 122°F)
Storage Temperature	-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	1.8 m
IP Rating	IP64

Newland AIDC EMEA

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Feel free to contact us or a partner near you

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Specifications are subject to change without notice

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NVH220 Lophius AI Corded Technical specifications

Accessories

Standard	2m USB cable, 5V power supply
Optional	USB cable, RS-232 cable, Ethernet cable

Certifications

Hardware	FCC, CE, ROHS, IEC62471

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