

NLS-HR42

2D Handheld Barcode Scanner



Features

■ Extensive Data Capture Capabilities

In addition to excelling at scanning high-density barcodes, the NLS-HR42 also provides the added value of postal barcodes decoding – extending its data capture capabilities.

■ Ultra-rugged Construction

The NLS-HR42, built into an IP42-sealed and drop resistant (1.8m) housing, can stand up to tough environments.

■ Powerful Data Editing Capability

The scanner allows customizing scanned data with ease and provides supporting software to address diverse application needs.

■ User-friendly Illumination & Aiming

Designed with the end user in mind, the NLS-HR42 employs highly visible laser aimer to achieve crisp and accurate targeting while using flicker-free white soft illumination to reduce eye strain and fatigue from long-time operation.

■ IR Sensor

The IR sensor inside the scanner exhibits an improved sensitivity in activating the scanner to scan barcodes even when they are presented 40cm in front of it, markedly increasing throughput and productivity.

Application Scenarios

Production control, product traceability, warehouse/ inventory/ distribution/ logistics management and other applications in harsh environment.

NLS-HR42

SCANNING MADE SIMPLE

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Performance	Image Sensor	1280×960 CMOS		
	Illumination	White LED		
	Aiming	650nm Laser diode		
	Symbologies	2D	PDF417, QR Code, Data Matrix, Aztec, Maxicode, etc.	
		Postal	USPS Postnet, Royal Mail, KIX Post, Australian Postal, etc.	
		1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, GS1 Databar, Code 39, Code 11, MSI-Plessey, Plessey, etc.	
	Resolution*	≥3mil		
	Typical Depth of Field*	Model	NLS-HR42-HD	NLS-HR42-SR
		EAN-13 (13mil)	25mm-155mm	40mm-410mm
		Code 39 (5mil)	50mm-100mm	110mm-250mm
		PDF417 (6.7mil)	40mm-105mm	115mm-190mm
		Data Matrix (10mil)	40mm-110mm	100mm-250mm
	QR Code (15mil)	35mm-155mm	70mm-280mm	
Motion Tolerance*	2m/s			
Scan Angle**	Pitch: ±50°, Roll: 360°, Skew: ±50°			
Field of View	Horizontal 40.5°, Vertical 30.4°			
Min. Symbol Contrast*	25%			
Mechanical/ Electrical	Interfaces	RS-232, USB		
	Dimensions	115(L)×74(W)×161(H)mm		
	Weight	173g		
	Notification	Beep, LED indicator, vibration		
	Rated Power Consumption	1251mW (typical)		
	Operating Voltage	5VDC±5%		
	Current@5VDC	Operating	266mA (typical), 344mA (max.)	
		Standby	109mA	
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%~95% (non-condensing)		
	ESD	±8 KV (direct discharge); ±16 KV (air discharge)		
	Drop	1.8m		
	Sealing	IP42		
Certifications	FCC Part15 Class B, CE EMC Class B			
Accessories	Cable	USB	Used to connect the HR42 to a host device.	
		RS-232	Used to connect the HR42 to a host device.	
	Power Adapter	DC5V power adapter to power the HR42 with RS-232 cable. Output: DC5V, 1.5A Input: AC100-240V, 50-60Hz		

*Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample barcodes made by Newland.

**Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp;

2D: QR Code: 10 Bytes; Resolution=15mil; PCS=0.8.

Specifications are subject to change without notice.

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