



NLS-FM431 Kiosk Barcode Scanner

Long-Range Scanning for High-Throughput Environments

The FM431 kiosk barcode scanner delivers fast, accurate scanning for demanding self-service and high-throughput applications. Designed for fixed-mount use, it enables hands-free scanning of 1D and 2D barcodes from both printed labels and mobile devices, supporting fast and efficient workflows.

Powered by advanced decoding technology, the FM431 reads damaged, low-contrast, or poorly printed barcodes with ease. Its enhanced motion tolerance allows barcodes to be captured even while in motion, making it ideal for fast-paced environments where speed and efficiency are critical.

Built for longer-range scanning, the FM431 is well-suited for applications where barcodes cannot always be presented close to the scanner. A high-intensity dual-aimer system ensures accurate targeting, while automatic exposure control dynamically adjusts lighting for optimal performance under varying conditions.

With its compact design and flexible connectivity options, the FM431 can be easily embedded into kiosks, lockers, and terminals across retail, logistics, and industrial environments. The result is reliable, high-performance scanning that supports efficient, self-service workflows at scale.

Key Features:

- Long-range scanning for large or hard-to-reach barcodes
- Reads damaged, low-contrast, or poorly printed 1D and 2D barcodes
- Enhanced motion tolerance for fast, high-throughput scanning
- Dual-aimer system with high-intensity targeting for precise scans
- Automatic exposure control for consistent performance in varying lighting
- Compact, fixed-mount design with flexible connectivity options



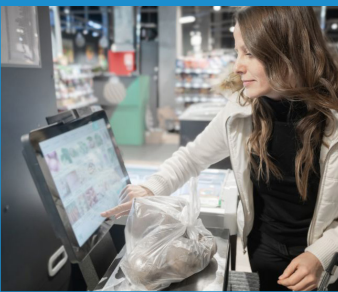
NLS-FM431



Cable included in Box



Small counter footprint



NLS-FM431 Specifications

Type	Kiosk Barcode Scanner
Sealing	IP54
Image Sensor	1280x800 CMOS
Color	Black
Resolution	≥3mil
Symbologies - 2D	PDF417, QR Code, Data Matrix, Aztec, Chinese Sensible Code, Maxicode, Micro QR, Micro PDF417, GM Code, Code One
Symbologies - 1D	Code 128, EAN-8, EAN-13, UPC-E, UPC-A, Coupon, Interleaved 2/5, ITF-14, ITF-6, Matrix 2/5, Code 39, Codabar, Code 93, China Post 2/5, ucc/EAN-128, GSI Databar, GSI Composite, Code II, ISBN, ISSN, Industrial 2/5, Standard 2/5, Plessey, MSI-Plessey, AIM 128, ISBT 128, Code 49, Code 16K
Postal	USPS Postnet, USPS Intelligent Mail, Royal Mail, USPS Planet, KIX Post, Australian Postal, Japan Post
Connectivity/Interface	RS-232, USB
Dimensions Weight	41.5(W) 49.5(D) 24.7(H)mm (max) (without cable) 56g
Typical Depth of Field	PDF417: 55-190mm (67mil) EAN-13: 55-460mm (13mil) Code 39: 65-230mm (5mil) QR Code: 40-310mm (15mil) Data Matrix: 50-230mm (10mil)
Motion Tolerance	3.5m/s
Scan Angle	Roll: 360°, Pitch: ±55°, Skew: ±55°
Field of View	Horizontal 51°, Vertical 32°
Min Symbol Contrast	25%
Drop Resistance	1.5m

Description	Model	Part Number
Kiosk Barcode Scanner	NLS-FM431-SR-U	37952470

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