



NLS-FM600

FIXED MOUNT SMART SCANNER

The NLS-FM600 is a high-end fixed mount smart scanner, featuring a high-performance multi-core AI processing platform with an NPU. Delivering exceptional barcode and OCR reading capabilities, it is widely used across a variety of scanning applications.

FEATURES

O Optimized Al Solution

The NLS-FM600 is equipped with a high-performance multi-core Al processing platform and advanced Al algorithms for parallel decoding, significantly boosting barcode reading speed and enhancing multi-code recognition capabilities.

O Superior Scanning Performance

Armed with Newland's seven-generation of **LIMG®** technology, the scan engine can swiftly and effortlessly decode even poor quality barcodes (e.g., low contrast, laminated, damaged, torn, warped or wrinkled).

Ultra-Compact Design

This miniature smart camera is easily integrated into various devices, making it perfect for space-constrained applications.

Multiple Interfaces

It provides RS-232, Ethernet and USB interfaces to meet different needs.

Advanced OCR Recognition Technology

Equipped with self-developed OCR technology, the NLS-FM600 seamlessly recognizes a wide range of English text and numbers, including dates, batch numbers, and phone numbers. It also supports simultaneous recognition of both barcodes and OCR.

2.3 Megapixel CMOS

Thanks to its 2.3MP resolution CMOS sensor, the NLS-FM600 is able to capture high resolution images and decode barcode over a larger field of view.

Adjustable Focus

Manually adjust the focus by rotating the knob to achieve the sharpest imaging results, enabling flexible depth-of-field settings.

O IP65-Sealed Housing

The housing is sealed to an IP65 rating, durable and secure.

O Dual Aimers

With two green LED aimers, accurately and automatically focus on the target to take the shot.























RS232

NLS-FM600

Performance

Focus

Image Sensor Resolution 1920*1200 CMOS

> Color Mono Frame Rate 60fps

Illumination Light Source White LED*4 (default), controlled separately

Aimer Light Source Green LED*2

Polarizer (default)/High transmittance (optional) Lens Cover

Manual focus

1D Code 11, Code 128, Code 39, GS1 128 (UCC/EAN-128), AMI 128, Codabar, ISBT 128, Code 93, Symbologies

> UPCA, UPCE, Coupon, GS1 Composite, EAN13, EAN8, ISSN, ISBN, Interleaved 2/5, Matrix 2/5, ITF14, ITF6, Industrial 2/5, Standard 2/5, China Post 25, MSI Plessey, Plessey, GS1 Databar (RSS),

> Maximum voltage: 36VDC, maximum load current: 50mA, with 2-channel optocoupler

Code 49, Code 16K, Pharmacode, etc.

2D PDF417, QR Code, Data Matrix, Chinese Sensible Code, Micro PDF417, GM Code, Micro QR,

Code One, etc.

Postal USPS Postnet, USPS Intelligent Mail, Royal Mail, USPS Planet, KIX Post, Australian Postal, Japan

OCR Supports letters and numbers in common fonts.

Motion Tolerance With high transmittance cover 1.5m/s

> With polarizer cover 0.7m/s

Min. Symbol Contrast 25%

Scan Angle² Roll: 360°, Pitch: ±60°, Skew: ±60°

Electrical

Operating Voltage 24VDC±10%

Operating 466mA RMS (typical) 973mA (max.) Current@24VDC3

> Idle 87mA

Interface Ethernet, RS-232, USB

Notification LED*4 (STATUS, OK/NG, TRAIN, NET), Beeper

Button Key*2 (TUNE, TRIG) Communication protocol TCP/IP, SFTP, FTP

> USB USB CDC, HID Keyboard, HID POS, IBM SurePOS (Table-Top)

1/0

Voltage: 9-24VDC, with 2-channel optocoupler isolation Input

isolation

Physical

Housing Aluminum

Dimensions(L×W×H) 37×55.5×42.5mm (max.) (without cable)

Weight

Ethernet

Output

Newland AIDC

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NLS-FM600

Environmental

Operating Temperature⁴ -10°C to 45°C (14°F to 113°F) -20°C to 70°C (-4°F to 158°F) Storage Temperature 5% to 95% (non-condensing) Humidity

±14 kV (Air discharge), ±8 kV (Contact discharge) Static Discharge

1.5m drops to concrete (for six sides, one drop per side) Drop (packaging included)

Sealing Ambient Light 0-100000lux

Accessories

Input 100~240V, output DC 24V/1.5A Accessories Adapter Lens Cover Polarizer cover, High transmittance cover

> Bracket L-shaped bracket

Certification

Certification FCC Part 15 Class B,CE EMC Class B, RoHS 2.0, IEC62471

1. Motion Tolerance: Barcode Interval=20cm; Triggered by external input signal; Code128, 20 Bytes, Resolution=10mil; Scan Distance=26cm, Illumination=300-500lux

- 2. Scan Angle: Scan Distance=(min. DOF + max. DOF)/2; 2D: QR Code; Pcs=I; sample barcodes made by Newland
- $3. \ Current @ 24VDC: Scan \ Mode=Continuous \ Mode, EAN13, Resolution=13mil, Scan \ Distance=21.5cm, Scan \ Preference=Normal \ Mode=12mil \ Mode$
- 4. Operating Temperature: Scan Mode=Level Trigger Mode, Reading Interval= 5s

Specifications are subject to change without notice.

Version: VI.0

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