



FIXED MOUNT BARCODE SCANNER

The NLS-FM550 products are 2D barcode scanners for medical applications, mainly integrated into testing instruments in laboratories, hospitals and assembly lines. It delivers fast and reliable reading of printed barcodes on short-distance test tubes or reagent bottles.

FEATURES

O Specialized Algorithm

Optimized decoding algorithm for the medical industry.

Minimize reading errors with high decoding accuracy.

O Ultra-Compact Design

This miniature barcode scanner is easily integrated into the IVD device.

O IP65-Sealed Housing

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

O Wide Viewing Angle

Wide scan range for near-field reading.

O Dual Laser Aiming

Dual laser aiming helps to position the device location during installation, easy and convenient.

O Fast Data Transmission

It supports transmitting data at a quick speed to the host via the USB interface.

Image Processing

Able to transmit images in the specific area in different formats.













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 Image Sensor
 800*1280 CMOS

 Illumination
 3000K white LED

Aiming 650nm red laser aiming LEDs*2
Field of View Horizontal 52°, Vertical 76.5°
Beam Exit Scan window with lateral beam exit

Depth of Field Code 39 (6.67mil) 45-85mm

 Code 128 (5mil)
 30-80mm

 Code 128 (10mil)
 35-130mm

 QR (15mil)
 15-165mm

 Data Matrix (10mil)
 20-120

Resolution ≥5mil

Symbologies 1D Code 128, EAN-8, EAN-13, UPC-E, UPC-A, Interleaved 2/5, Code 39, Codabar, Code 93, UCC/EAN-128

2D PDF417, QR Code, Aztec, Data Matrix

Min. Symbol Contrast

Physical

Operating Voltage 5VDC±5%

Current Operating 141.35mA RMS (typical) 397.54mA (max.)

Interface RS-232, USB Housing Aluminium

Dimensions $54(W) \times 27.5(D) \times 25.5(H)$ mm (max.) (without cable)

Weight 107g Cable USB-A 1.5m 9-pin connection 2m

cable

Environmental

Sealing IP65
Ambient Light ≤5000lux

Certificates

Specifications are subject to change without notice.

Certificates & Protection CE/FCC

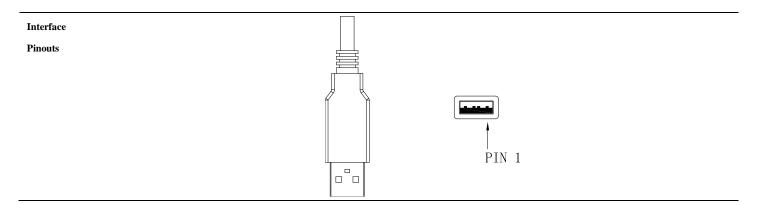
IEC62471: 2006 for LED safety 60825-1:2014 for laser safety

RoHS 2.0

Version: V1.0

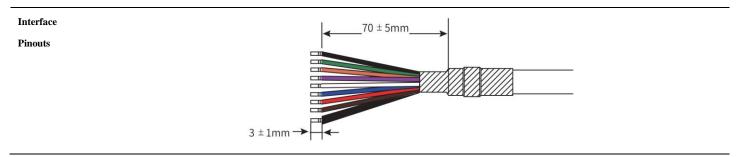
The following table lists the pin functions of the USB interface.

PIN#	Signal	I/O	Function
1	VCC	P	5V power supply input
2	USB_D-	A	USB D- differential data signal
3	USB_D+	A	USB D+ differential data signal
4	GND	P	Power-supply ground



The following table lists the pin functions of the 9-pin connection cable.

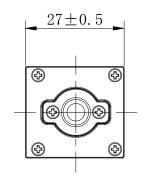
Wire Color	Signal	I/O	Function
Red	VCC	P	5V power supply
Green	RS232_TX	O	RS-232 output
White	RS232_RX	I	RS-232 input
Purple	GND	P	Power-supply ground
Black	SW OUT	O	IO output
Orange	SW IN	I	IO input
Brown	USB_D-	I/O	USB D- differential data signal
Blue	USB_D+	I/O	USB D+ differential data signal
Black (thick)	FE	P	Shield

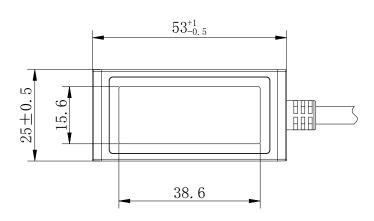


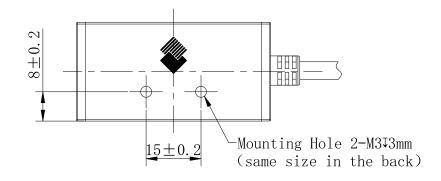
Mechanical

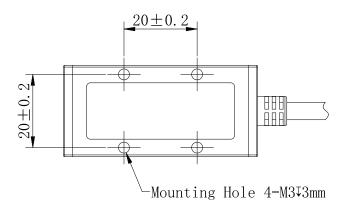
Mounting

Dimensions (unit: mm)









Dimensions: 54(W)×27.5(D)×25.5(H)mm (max.) (without cable)

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Version: V1.0

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