



**Newland AIDC**  
Scanning Made Simple



# NLS-FM3270

## FIXED MOUNT BARCODE SCANNER

### FEATURES

#### ○ Snappy Barcode Capture

Armed with Newland's sixth-generation of **UIMG®** technology, this scanner excels at reading on-screen barcodes and printed barcodes.

#### ○ IP65-rated Sealing

An IP65-rated seal renders the scanner impervious to dust, water and other contaminant.

#### ○ IR/Light Triggers

The combination of IR sensor and light sensor exhibits an improved sensitivity in activating the scanner to scan barcodes as they are presented, to achieve higher throughput and productivity.

#### ○ Designed for Self-service Devices

It is easy for the scanner to fit into self-service devices.

#### ○ Wide Voltage Input

Support voltage ranges from 5 ~ 24VDC



1D Barcode



2D Barcode



USB



RS232



IP sealing



CMOS

# NLS-FM3270

## Performance

Image Sensor		640*480 CMOS
Illumination		3000K white LED
Symbologies	2D	PDF417, Data Matrix, QR Code, Micro QR, Aztec, etc
	1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Interleaved 2 of 5, Code 128 (FNC1), Code 93, ITF-6, ITF-14, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, Code 11, GSI Databar (RSS-Expand, RSS-Limited, RSS-14), MSI-Plessey, Code 39 (Code 39 FULL ASCII), Plessey, etc
Resolution	1D	≥4mil
Typical Depth of Field	EAN-13 (13mil)	0-170mm
	Code 39 (20mil)	15-200mm
	Code 128 (10mil)	0-160mm
	QR Code (20mil)	0-95mm
Scan Window		45mm×45mm
Scan Modes		Sense mode, Continuous mode, Command mode
Min. Symbol Contrast	1D	25%
Scan Angle <sup>1</sup>		Roll: 360°, Pitch: ±50°, Skew: ±50°
Field of View		Vertical 70°, Horizontal 55°

## Physical

Interface		RS-232, USB
Operating Voltage		5VDC±5%
Current@5VDC	Operating (RMS)	120mA
	Idle	63mA
Dimensions		78.7(W)×47.7(D)×67.7(H)mm (max.) (without cable)
Weight		132g
Notification		Beeper, multi-colored LED indicator

## Environmental

Operating Temperature		-20°C to 60°C (-4°F to 140°F)
Storage Temperature		-40°C to 85°C (-40°F to 185°F)
Humidity		5%-95% (non-condensing)
ESD		±15kV (air discharge) ±8kV (direct discharge)
Sealing		IP65 (not including interface)

## Accessories

Cable	Optional	USB cable used to connect the scanner to a host device.
	Optional	RS-232 cable used to connect the scanner to a host device.
Power Adapter	Optional	DC5V power adapter to provide power for the scanner with RS-232 cable.

<sup>1</sup> Test conditions: Scan Distance= (min. DOF + max. DOF)/2; 2D: QR Code; PCS=I; sample barcodes made by Newland.

Specifications are subject to change without notice.

Version: V1.0

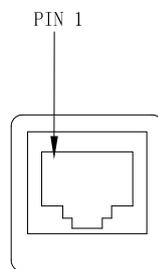
# NLS-FM3270

The following table lists the pin functions of the RJ50 Port.

PIN#	Signal	I/O	Function
1	EXIT_DSF#	O	Good read signal output
2	EXT_TRIG#	I	Trigger signal input
3	VCC	-	5V power input
4	RS232_TX	O	RS-232 transmit data
5	RS232_RX	I	RS-232 receive data
6	RS232_CTS	I	RS-232 clear to send
7	RS232_RTS	O	RS-232 request to send
8	GND	-	Ground
9	USB_D-	I/O	USB_D- signal
10	USB_D+	I/O	USB_D+ signal

## Interface

### Pinouts



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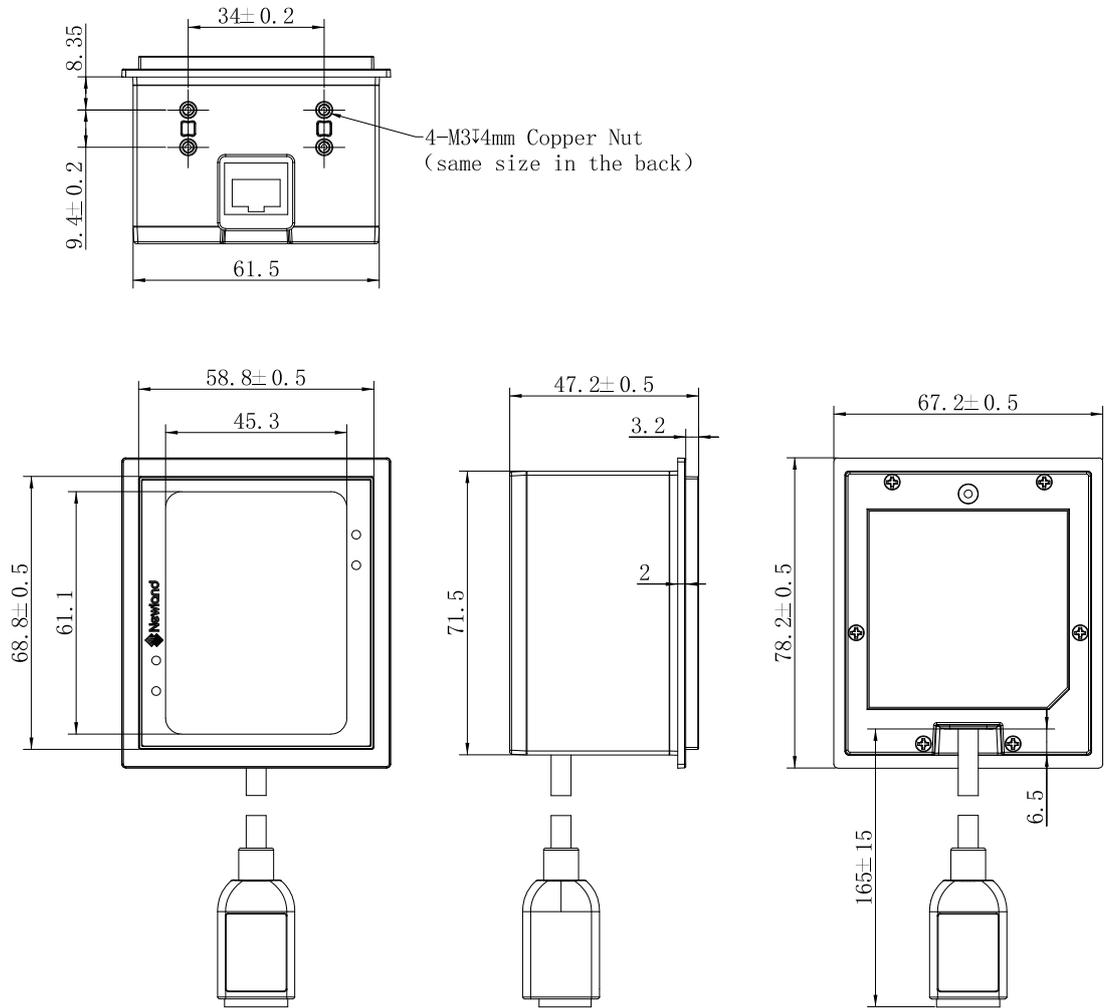
# NLS-FM3270

**Mechanical**

**Mounting**

**Dimensions**

(unit: mm)



Dimensions: 78.7 (W) $\times$ 47.7 (D) $\times$ 67.7 (H)mm (max)

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Version: V1.0

**Newland AIDC**

Add: No.1 Rujiang West Rd.,  
Mawei, Fuzhou, Fujian 350001, China  
Tel: +86-591-83979500  
Fax: +86-591-83979216  
Email: info@newlandaidc.com  
Web: www.newlandaidc.com

**Asia Pacific**

Add: 6 Raffles Quay #14-06  
Singapore 048582  
Email: info@newlandaidc.com

**Europe & Middle East**

Add: Rolweg 25, 4104 AV Culemborg,  
The Netherlands  
Tel: +31 (0) 345 87 00 33  
Email: sales@newland-id.com  
Tech Support: tech-support@newland-id.com

**North America & Latin America**

Add: 46559 Fremont Blvd.,  
Fremont, CA 94538, USA  
Tel: +1 510 490 3888  
Fax: +1 510 490 3887  
Email: info@newlandaidc.com