

FEATURES

Excellent Reading Performance

Armed with Newland's sixth-generation of **UIMG®** technology, this scanner excels at reading printed and on-screen barcodes containing large amounts of data, special for low-quality printed barcodes

IP67-rated Sealing

An IP67-rated seal renders the scanner impervious to dust, water and other contaminant.

Wide Voltage Input

Support voltage ranges from 5 ~ 24VDC

O 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.

Support Wiegand and RS-485 Interface

Optional Wiegand and RS-485 interfaces are provided to meet diverse customers' needs.

Optional NFC Function

The scanner supports the NFC function.



















NLS-FM3280

Image Sensor	1280 * 1088 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 (FNC	
		Code 93, ITF-6, ITF-1	4, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, Code 11, GS1 Databa	
			imited, RSS-14), MSI Plessey, Code 39 (Code 39 FULL ASCII), Plesse	
		etc		
	Postal		Intelligent Mail Deval Mail LICEC Dignet VIV Deet Australian Deet	
	rostar		Intelligent Mail, Royal Mail, USPS Planet, KIX Post, Australian Posto	
	0.00	Japan Post		
	OCR	•	ese ID Card, China Travel Permit OCR	
Resolution	1D	≥3mil		
Typical Depth of Field 1	EAN-13 (13mil)	0-290mm		
	Code 39 (20mil)	15-310mm		
	Code 128(10mil)	0-280mm		
	QR Code (20mil)	0-270mm		
Scan Window		45mm×45mm		
Scan Modes		Sense mode, Conti	nuous mode, Command mode	
Min. Symbol Contrast	1D	25%		
Scan Angle ²		Roll: 360°, Pitch: ±60°, Skew: ±60°		
Field of View		Vertical 66°, Horizontal 58.2°		
Physical				
Interface		RS-232, USB, RS-485	5, Wiegand	
NFC (optional) ³	Reading Distance	0-30mm		
	Supported	Support reading card number and card type, reading and writing sectors, increasing		
	Functions	and decreasing v	alues, reading and writing files, file operations, key operation	
		contactless CPU co	ard operation (ISO14443 Type A) and APDU.	
	Supported Cards	ID card, NFC-equip	ped phone, Mifare Classic, Mifare Plus, Mifare Ultralight/C/EV1, Mifa	
		Desfire, CPU card, N	ITAG2x series, NTAG42x series, ICODE 2, Type B card, Felica card	
Operating Voltage		5-24VDC±5%		
Current@5VDC		NFC Version	Non-NFC Version	
	Operating (RMS) ⁴	220mA	172mA	
	Idle	175mA	118mA	
	1010		HOITIA	
Dimensions		78.7(W)×47.7(D)×67	.7(H)mm (max.) (without cable)	
	132g	78.7(W)×47.7(D)×67 Notification		
Weight			.7(H)mm (max.) (without cable)	
Weight Environmental			.7(H)mm (max.) (without cable) Beeper, multi-colored LED indicator	
Weight Environmental Operating Temperature		Notification	.7(H)mm (max.) (without cable) Beeper, multi-colored LED indicator to 140°F)	
Weight Environmental Operating Temperature Storage Temperature		Notification -20°C to 60°C (-4°	.7(H)mm (max.) (without cable) Beeper, multi-colored LED indicator to 140°F) F to 185°F)	
Weight Environmental Operating Temperature Storage Temperature Humidity		Notification -20°C to 60°C (-4°) -40°C to 85°C (-40°)	E-7(H)mm (max.) (without cable) Beeper, multi-colored LED indicator F to 140°F) °F to 185°F) lensing)	
Weight Environmental Operating Temperature Storage Temperature Humidity ESD		-20°C to 60°C (-4°C + 40°C to 85°C (-40°C to 85°C + 40°C + 40°C to 85°C + 40°C + 40	E7(H)mm (max.) (without cable) Beeper, multi-colored LED indicator F to 140°F) °F to 185°F) lensing) e) ±8kV (direct discharge)	
Weight Environmental Operating Temperature Storage Temperature Humidity ESD Sealing		-20°C to 60°C (-4°l -40°C to 85°C (-40 5%~95% (non-cond ±15kV (air discharg	E7(H)mm (max.) (without cable) Beeper, multi-colored LED indicator F to 140°F) °F to 185°F) lensing) e) ±8kV (direct discharge)	
Weight Environmental Operating Temperature Storage Temperature Humidity ESD		Notification -20°C to 60°C (-4°l -40°C to 85°C (-40 5%~95% (non-cond ±15kV (air discharg IP67 (not including	E7(H)mm (max.) (without cable) Beeper, multi-colored LED indicator F to 140°F) °F to 185°F) lensing) e) ±8kV (direct discharge)	
Operating Temperature Storage Temperature Humidity ESD Sealing Accessories	132g Optional	Notification -20°C to 60°C (-4°I) -40°C to 85°C (-40I) 5%~95% (non-condition) ±15kV (air discharg IP67 (not including) USB cable used to 6	Beeper, multi-colored LED indicator F to 140°F) F to 185°F) Jensing) e) ±8kV (direct discharge) interface)	
Weight Environmental Operating Temperature Storage Temperature Humidity ESD Sealing Accessories	132g Optional Optional	Notification -20°C to 60°C (-4°I) -40°C to 85°C (-40°I) 5%~95% (non-concition discharg) IP67 (not including) USB cable used to IRS-232 cable used	Beeper, multi-colored LED indicator F to 140°F) °F to 185°F) lensing) e) ±8kV (direct discharge) interface) connect the scanner to a host device. to connect the scanner to a host device.	
Weight Environmental Operating Temperature Storage Temperature Humidity ESD Sealing Accessories	132g Optional	-20°C to 60°C (-4°I -40°C to 85°C (-40°C to 85°C (-40°C to 85°C (-40°C to 85°C (-40°C to 85°C)) ±15kV (air discharg IP67 (not including USB cable used to RS-232 cable used RS-485 and Wiega	E-T(H)mm (max.) (without cable) Beeper, multi-colored LED indicator F to 140°F) °F to 185°F) Idensing) e) ±8kV (direct discharge) interface) Connect the scanner to a host device.	

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

³ Test conditions: test with ISO/IEC 14443-3 (Type A) card.

⁴ Test conditions: Scan Distance= (min. DOF + max. DOF)/2, tested in the sense mode.

NLS-FM3280

The following table lists the pin functions of the RJ50 port (RS-232 version).

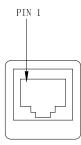
PIN#	# Signal	1/0	Function
1	EXIT_DSF#	0	Good read signal output
2	EXT_TRIG#	1	Trigger signal input
3	VCC	-	Power input
4	RS232_TX	0	RS-232 transmit data
5	RS232_RX	1	RS-232 receive data
6	RS232_CTS	1	RS-232 clear to send
7	RS232_RTS	0	RS-232 request to send
8	GND	-	Ground
9	USB_D-	1/0	USB_D- signal
10	USB_D+	1/0	USB_D+ signal

The following table lists the pin functions of the RJ50 port (RS-485 and Wiegand version).

PIN#	Signal	1/0	Function
1	EXIT_DSF#	0	Good read signal output
2	EXT_TRIG#	1	Trigger signal input
3	VCC	-	Power input
4	RS485-	1/0	RS485- signal
5	RS485+	1/0	RS485+ signal
6	WG_D0	OC gate circuit output	Wiegand D0; it requires pull-up on the host.
7	WG_D1	OC gate circuit output	Wiegand D1; it requires pull-up on the host.
8	GND	-	Ground
9	USB_D-	1/0	USB_D- signal
10	USB_D+	1/0	USB_D+ signal

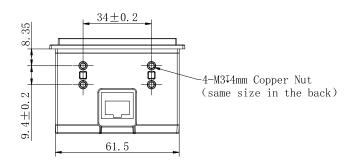
Interface

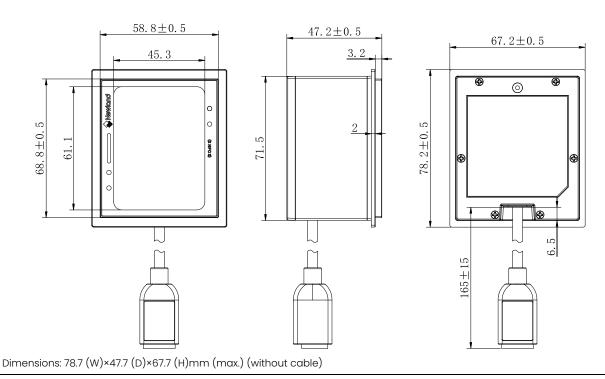
Pinouts



NLS-FM3280

Mechanical
Mounting
Dimensions
(unit: mm)





Specifications are subject to change without notice.

Version: V1.0

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