

FIXED MOUNT BARCODE SCANNER

# **FEATURES**

### O Excellent Reading Performance

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

## O IP67-rated Sealing

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

### O 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.

### O Optional NFC Function

The scanner supports the NFC function.



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Performance			
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 (FNC1)	
		Code 93, ITF-6, ITF-14, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, Code 11, GS1 Databar	
		(RSS-Expand, RSS-Limited, RSS-14), MSI Plessey, Code 39 (Code 39 FULL ASCII), Plessey,	
		etc	
	Postal	USPS Postnet, USPS Intelligent Mail, Royal Mail, USPS Planet, KIX Post, Australian	
		Japan Post	
	OCR	Passport OCR, Chinese ID Card, China Travel Permit OCR	
Resolution	1D	23mil	
Typical Depth of Field	EAN-13 (13mil)	0-290mm	
rypical Depth of Held	Code 39 (20mil)	15-310mm	
	Code 128(10mil)	0-280mm	
	QR Code (20mil)	0-270mm	
Scan Window		45mm×45mm	
Scan Modes		Sense mode, Continuous mode, Command mode	
Min. Symbol Contrast	1D	25%	
Scan Angle <sup>2</sup>	10	Roll: 360°, Pitch: ±60°, Skew: ±60°	
Field of View		Vertical 66°, Horizontal 58.2°	
Physical Interface		RS-232, USB, RS-485, Wiegand	
NFC (optional) <sup>3</sup>	Reading Distance	0-30mm	
	Supported	Support reading card number and card type, reading and writing sectors, increasin	
	Functions	and decreasing values, reading and writing files, file operations, key operations	
	ranotono	contactless CPU card operation (ISO14443 Type A) and APDU.	
	Supported Cards	ID card, NFC-equipped phone, Mifare Classic, Mifare Plus, Mifare Ultralight/C/EV1, Mifare	
		Desfire, CPU card, NTAG2x series, NTAG42x series, ICODE 2, Type B card, Felica card	
Operating Voltage		5-24VDC±5%	
Current@5VDC		NFC Version Non-NFC Version	
	Operating (RMS) <sup>4</sup>	220mA 172mA	
	Idle	175mA 118mA	
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		IP67 (not including interface)	
Accessories			
Cable	Optional	USB cable used to connect the scanner to a host device.	
UUDIU			
	Optional	RS-232 cable used to connect the scanner to a host device.	
	Optional	RS-485 and Wiegand cables 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.	

1 Test conditions: tested when illumination brightness set as level 2.

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.

Specifications are subject to change without notice.

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

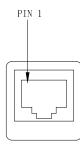
PIN#	Signal	I/O	Function
1	EXIT_DSF#	0	Good read signal output
2	EXT_TRIG#	I	Trigger signal input
3	VCC	-	Power input
4	RS232_TX	0	RS-232 transmit data
5	RS232_RX	1	RS-232 receive data
6	RS232_CTS	1	RS-232 clear to send
7	RS232_RTS	0	RS-232 request to send
8	GND	-	Ground
9	USB_D-	I/O	USB_D- signal
10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

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

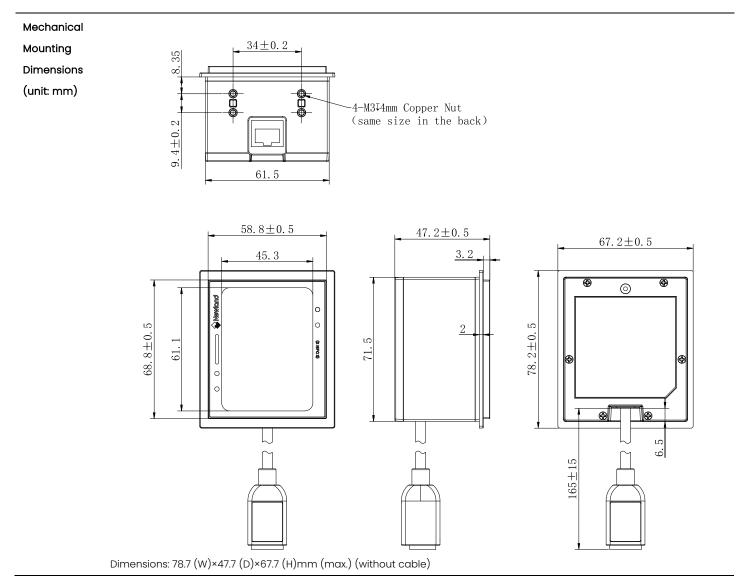
PIN#	Signal	I/O	Function
1	EXIT_DSF#	0	Good read signal output
2	EXT_TRIG#	1	Trigger signal input
3	VCC	-	Power input
4	RS485-	I/O	RS485- signal
5	RS485+	I/O	RS485+ signal
6	WG_D0	OC gate circuit output	Wiegand D0; it requires pull-up on the host.
7	WG_D1	OC gate circuit output	Wiegand D1; it requires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

### Interface

Pinouts



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Version: V1.0

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