



Newland AIDC
Scanning Made Simple



NLS-MT90 RFID

PORTABLE DATA COLLECTOR

FEATURES

○ Outstanding RFID Performance

Combining a high-performance UHF RFID reader chip with the ingenious software, the NLS-MT90 RFID can read over 150 tags per second with a long read range of up to 6 meters.

○ Operator-friendly Pistol Grip

This RFID reader is designed as an ergonomic pistol grip handle that allows for easy operation.

○ Diverse Functionalities

With support for the MT90 portable data collector, the NLS-MT90 RFID can seamlessly integrate 1D/2D scanning/Bluetooth/Wi-Fi/4G functionalities to meet various application needs.

○ Industrial-grade Durability

The NLS-MT90 RFID's rugged housing is sealed to IP65 standards for protection against dust and water and withstands 1.5m drops to concrete.



2D Barcode



1D Barcode



Android



1.5m Drop



GPS



IP65



4G



WiFi

NLS-MT90 RFID

Performance

Processor	2.0GHz, octa-core 64-bit processor
Operating System	Android 11
Memory	4GB RAM, 64GB ROM
Interface	Micro USB 2.0 OTG at the bottom, 8Pin extended contact on the back

Physical/Electrical

Dimensions (L×W×H)	Maximum Size: 155 × 78 × 20mm; Handheld Size: 155 × 76 × 18mm
Weight	270g (including battery)
Display	5" (1280×720) capacitive touch screen
Keypad	10 keys (side keys included)
Notification	Vibrator, speaker and multi-color LEDs
Battery	3.8V, 4500mAh
Camera	Front camera (optional): 2 megapixels Rear camera: 8 megapixels, auto focus, with LED flashlight
GPS	GPS (AGPS)/GLONASS/Beidou
Expansion	Micro SD card (max. 128GB) slot
AC Adapter	Output: DC5V, 2.0A Input: AC100~240V, 50~60Hz

Environmental

Operating Temperature	-20°C to 55°C (-4°F to 131°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% (non-condensing)
Static Discharge	±15 kV (Air discharge), ±8 kV (Direct discharge)
Drop	1.5m drops to concrete (for six sides, one drop per side)
Tumble Spec.	0.5m, 10 times/min, 500 times (250 tumbles)
Sealing	IP65 or IP67 (optional)

Barcode Scanning

2D Barcode	ID: Code128, Code 49, Code 16K, (GS1128) UCC/EAN-128, AIM-128, EAN-8, EAN-13, UPC-E, UPC-A, ITF, ITF 6, ITF 14, Matrix 2 of 5, Industrial 25, Standard 2 of 5, Code39, ISSN, ISBN, Codabar, Code93, Code 11, Plessey, MSI Plessey, RSS.
CMOS (≥5mil)	2D: Aztec, Composite, CS Code, Maxicode, Micro PDF, Micro QR, PDF 417, QR Code, Data Matrix, DotCode.

Depth of Field

Depends on barcode type and environment	QR (15mil) 55mm~410mm; EAN 13 (13mil) 70mm~610mm Code 39 (5mil) 110mm~290mm; DM (10mil) 110mm~260mm PDF 417 (6.7mil) 110mm~230mm;
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NFC

13.56MHz RFID	ISO14443A/B, MIFARE, FeliCa, NFC Forum Tags, ISO15693
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NLS-MT90 RFID

UHF RFID

Read Range	>12M (Indoor); >6M (Outdoor open space) (@ Alien 9662) (Read range can be affected by tag and environment)
Read Rate	≥150 tags/sec
UHF Module	SLR1200, based on Impinj Indy R2000
Antenna	Circularly polarized antenna (3dB)
Frequency Range	FCC (USA): 902-928MHz ETSI (Europe): 865-867MHz SRRC-MII (China): 840-845MHz, 920-925MHz Other frequency band support (customizable upon request)
Standards Supported	EPC Class 1 Gen 2 (ISO 18000-6C)

Wireless

WLAN RADIO	Bands	Built-in 802.11 a/b/g/n/ac, Support 2.4G and 5G dual frequency
WWAN RADIO	2G	GSM:850/900/1800/1900MHz
	3G	WCDMA: B1/B2/B4/B5/B8 CDMA 1x/EVDO: BC0/BC1
	4G	FDD-LTE: B1/B2/B3/B4/B7/B12/B13/B17 TDD-LTE: B41
WPAN RADIO		Bluetooth 5.0 (backward-compatible)

Accessory (Optional)

AC adapter, cable, battery, charging cradle, wrist lanyard, trigger handle, RFID handheld reader, long-range barcode reader, protective sleeve, etc.

Specifications are subject to change without notice.

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Version: V1.3

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