



## NLS-N7

**COLD STORAGE & DUAL RANGE**

**PORTABLE DATA COLLECTOR**

## FEATURES

### ○ Great performance under cold storage

No fogging or frosting at all even under the situation of keeping entering and exiting the cold storage frequently, making fast and smooth scanning;

5100mAh battery designed for cold storage specially, working well under low temperature -30℃; support Lens Heating function and can be used in both freezing and refrigerated environments.

### ○ Excellent grip, rugged and durable

Specially designed for logistics, warehouse and other industry fields, custom 29 buttons layout. Combined with ergonomic pistol grip designing. IP65 protection grade, withstand 1.8m free drop to concrete (2 times at each surface) and work normally in pouring water situation with gloved fingers.

### ○ Megapixel Barcode Scanning - Duo Near & Far

Newland's Duo Near & Far combines two 2D scan engines working side by side to select and decode barcodes at both near and far distances. By using two separate scan engines, the N7 can seamlessly switch between them based on the distance of the barcode, resulting in faster scanning and improved productivity.

### ○ Type-C port and WIFI ac band

Using the mainstream Type-C fast charging port, the charging power is up to 15W, can fully charge the 5100mAh battery within 3 hours. Support 802.11ac band and WIFI 5G band, faster transmission rate and better support for WIFI roaming.



2D Barcode



1D Barcode



Android



4" Color Screen



GPS



IP65



4G



WIFI

# NLS-N7

## Performance

Processor	2.0GHz, octa cores 64-bit processor
Operating System	Android 13
Memory	4GB RAM, 64GB ROM
Interface	Type-C port

## Physical/Electrical

Dimensions (L×W×H)	200×70 (pistol grip 58) ×24 (battery29) mm
Weight	380g (including battery)
Display	4.0" WVGA IPS screen, visible under strong light, resolution 480×800
Keypad	29 physical buttons, with back light function
Virtual Button	Support three virtual buttons
Notification	Vibrator, speaker and multi-color LEDs
Battery	5100mAh, support battery hot-swap
Camera	13MP, auto focus, with LED flashlight
GPS	GPS/A-GPS/BeiDou/GLONASS/Galileo
Expansion	Micro SD/TF card (max. 128GB)
Sensor	Gravity sensor, hall switch
AC Adapter	QC3.0, Output: Type-C 5V/2A,9V/2A,12V/1.5A, Input: AC 100~240V,50~60Hz
Lens Heating	Optional Features(when N7 is used in both freezing and refrigerated environments)

## Environmental

Operating Temperature	-30°C to 50°C (-22°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	1.8m drops to concrete (for six sides, two drops per side)
Sealing	IP65

## Barcode Scanning

2D Barcode	<b>1D:</b> Code128, UCC/EAN-128, AIM-128, EAN-8, JAN-8, EAN-3, ISBN/ISSN, UPC-E, UPC-A, Interleave2/5, ITF-6, ITF-14, Deutsche14 ,Deutsche12, COOP25, Matrix2/5, Industrial2/5, Standard25, Code39, Codabar/NW7, Code93, Code 11, Plessey, MSI/Plessey, GS1 Databar etc.
CMOS (≥ 5 mil)	<b>2D:</b> PDF-417, QR Code, Data Matrix, Chinese sensible code etc.

## Depth of Field

Depends on barcode type and environment	Code39 (10mil) 20-140cm
	Code39 (55mil) 40-430cm
	Code39(100mil) 50-600cm
	QR (55mil) 25-300cm
	EAN13(13mil) 20-180cm

## NFC

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

## Wireless

WLAN RADIO	Bands	built-in 802.11 a/b/g/n/ac, compatible with 11 d/h/i/k/r/v/w, support 2.4G and 5G dual frequency
WWAN RADIO	Roaming	Support Fast Roaming
	2G	GSM: 850/900/1800/1900MHz
	3G	WCDMA: B1/B2/B5/B8 TD-SCDMA: B34/B39
	4G	CDMA 1x/EVDO: BC0 FDD-LTE: B1/B2/B3/B5/B7/B8/B20/B28a&b TDD-LTE: B38/B39/B40/B41

### Newland AIDC

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

### Newland Taiwan

Add: 7F-6, No. 268, Liancheng Rd.,  
Jhonghe Dist. 235, New Taipei City,  
Taiwan  
Tel: +886 2 7731 5388  
Email: info@newland-id.com.tw

### Newland India

Add: 814, Tower B, NOIDA ONE business  
park B-8, Sector 62, Noida,  
Uttar Pradesh-201301  
Tel: +91 120 7964266  
Email: info@nlscan.com

### Newland Japan

住所: 〒108-0075  
東京都港区港南1丁目 9-36  
アレア品川ビル 13 階 407  
電話: 03-4405-3222  
メール: info@nlscan.com

### Newland Korea

Add: Biz. Center Best-one,  
Jang-eun Medical Plaza 6F,  
Bojeong-dong 1261-4, Kihung-gu,  
Yongin-City, Kyunggi-do  
Tel: +82 10 8990 4838  
Email: info@nlscan.com

# NLS-N7

WPAN RADIO

Dual mode, BT5.0+LE (Backward-compatible)

## Card Slots

SIM Card.

Nano+Nano or Nano+TF

## Accessory (Optional)

Accessory

AC adapter, cable, charging cradle, hand strap, 4-slot charger

Specifications are subject to change without notice.

2025/06/30

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@nlscan.com  
Web: www.newlandaidc.com

### Newland Taiwan

Add: 7F-6, No. 268, Liancheng Rd.,  
Jhonghe Dist. 235, New Taipei City,  
Taiwan  
Tel: +886 2 7731 5388  
Email: info@newland-id.com.tw

### Newland India

Add: 814, Tower B, Noida ONE business  
park B-8, Sector 62, Noida,  
Uttar Pradesh-201301  
Tel: +91 120 7964266  
Email: info@nlscan.com

### Newland Japan

住所: 〒108-0075  
東京都港区港南1丁目 9-36  
アレア品川ビル 13 階 407  
電話: 03-4405-3222  
メール: info@nlscan.com

### Newland Korea

Add: Biz. Center Best-one,  
Jang-eun Medical Plaza 6F,  
Bojeong-dong 1261-4, Kihung-gu,  
Yongin-City, Kyunggi-do  
Tel: +82 10 8990 4838  
Email: info@nlscan.com



**Newland AIDC**  
Scanning Made Simple