Newland AIDC
Scanning Made Simple

NLS-N7

PORTABLE DATA COLLECTOR

FEATURES

○ **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.

○ **Qualcomm platform Android 10.0**

Using Qualcomm platform, Octa-core, 1.8GHzd main frequency, running Android 10.0 operating system, providing quicker data process and smoother operation.

○ **High accuracy medium range identification**

Using international top class 1D laser scan engine and 2D CMOS scan engine; Support medium far distance scanning; Using 25°perfect scanning angel, make scanning more accurate; 8 megapixel camera, high dynamic LED light, easy to capture clear photos at any time and any place.

○ **Type-C port WIFI ac band**

Using the mainstream Type-C fast charging port, the charging power is up to 18W, can fully charge the 5100mAh battery within 2 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 | IP 65 | WiFi |

NLS-N7

Performance

Processor	Qualcomm 1.8GHz, octa cores 64-bit processor
Operating System	Android 10.0
Memory	3GB RAM, 32GB ROM/4GB RAM, 64GB ROM
Interface	QC3.0, Type-C port, 9V/2A

Physical/Electrical

Dimensions (L×W×H)	200mm×70mm(pistol grip 58mm)×24mm(battery29mm)
Weight	360g (including battery)
Display	4.0" WVGA IPS screen with Gorilla Glass, resolution 480×800, support with gloves or water touch
Keypad	29 physical buttons, with back light function, able to extend to 38 or 47 buttons
Virtual Button	Support three virtual buttons
Notification	Vibration, speaker and multi-color LEDs
Battery	5100mAh, support spare battery
Camera	13MP, PDAF, with LED flashlight
GPS	GPS (A-GPS)/GLONASS or GPS (A-GPS)/Galileo
Expansion	Micro SD/TF card (max. 128GB)
Sensor	Gravity sensor, hall switch
AC Adapter	QC3.0, Output: Type-C 5V/2A,9V/2A,15V/1.2A, Input: AC 100~240V,50~60Hz

Environmental

Operating Temperature	-20℃ to 50℃ (-4ºF to 122ºF)
Storage Temperature	-40℃ to 70℃ (-40ºF to 158ºF)
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 CMOS (≥ 5 mil)	**1D**: 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. **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	**SR** Code39(5mil) 80mm-350mm; Code39(10mil) 50mm-575mm Code128(3mil) 100mm-180mm; Code128(10mil) 60mm-480mm EAN-13(13mil) 40mm-480mm; DM(15mil) 55mm-355mm PDF417(10mil) 60mm-320mm; QR(15mil) 50mm-400mm **MR** Code39(5mil) 200mm-575mm; Code39(10mil) 150mm-575mm Code128(10mil) 180mm-680mm EAN-13(13mil) 130mm-705mm; DM(15mil) 185mm-520mm PDF417(10mil) 175mm-550mm; QR(15mil) 195mm-550mm

NFC

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

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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
	Roaming	Support Fast Roaming
Bluetooth		Dual mode, BT4.2+LE (Backward-compatible)

Card Slots

IF Card	TF

Accessory (Optional)

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

Certificates&Protection

Certificates	CE-RED, FCC, BIS, RoHS2.0, REACH, AER, SOTI, UN38.3, IEC62471
Laser Safety	IEC60825

Specifications are subject to change without notice.   2021/1/18   Version: V1.4

1D & 2D	Android 10	AER	IP65	Megapixel	GMS
Laser aimer	4.0" screen	Touchscreen	USB-C	5100 mAh	Micro SD
Camera	1.8M drop	4G	WIFI Dual Band	Bluetooth 4.2	NFC
GPS	GPRS	Ndevor	Acuscan	Warranty 2 Years	

android enterprise recommended

N7 Cachalot Pro
Mobile Computers

Features

Newland's best screen technology.

The 4" HD screen has a high transparency and low reflectivity to give crystal clear images, even in sunlight. The touchscreen responds when wearing gloves and maintains sensitivity even when wet. For added protection, Gorilla Glass 3 makes the N7 Cachalot Pro tougher and more damage resistant, making the device the perfect companion in rough environments.

Android Enterprise Recommended (AER).

The N7 Cachalot Pro carries Google's AER seal of approval, signaling it keeps pace with performance and security upgrades to its operating system and core functionality. This label, in combination with Newland's free MDM Ndevor, enables clients to maintain secure visibility and control over their devices regardless of location.

Fast charging, high-capacity and hot-swappable battery.

The N7 Cachalot Pro supports fast charging for its 5100mAh battery and is hot-swappable. This keeps your program running and your wifi connected, even when taking the battery fully out to exchange it with a new one.

Near and far scanning, acuscan and multi-read mode

The N7 Cachalot Pro offers a choice of megapixel 2D scan engine. The Standard-range version with acuscan provides standard, accurate scanning on codes close-up or smaller items. Alternatively, the Mid-range version is capable of reading codes on boxes and pallets from further away. Both scanners offer Newland's multi-read mode.

Daisy chain charging.

The single cradle is designed to link to up to 3 additional cradles (4 in total), to limit the number of power outlets needed to charge units.

The keys to unlock applications.

The N7 Cachalot Pro is designed to allow tailoring to many different applications for which a physical keyboard is still preferred. It offers the flexibility to choose between a 29, 38 and 47 keypad option (not including side scan buttons). Each of the three configurations are back-lit for high visibility in dark work environments.

Seen and heard.

The applications most suited to the N7 Cachalot Pro are often in noisy environments. To accommodate for this, sound notifications can be adjusted to reach up to 90 decibels. When sound is not wanted, or instead, enough on its own, the device has vibration and a LED color feedback.

Suggested industries

Warehousing	Logistics	Manufacturing

CDG | Computer Peripheral and Supplies Ltd.

: Tel. 02-7224040 Ext.9   : sales.dept@cps.co.th   : cps.co.th   : @cps.co.th

More Details
Scan Here
LINE ID
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Data Capture

1D	All major 1D symbologies
2D	All major 2D symbologies
Image Sensor	1280x800 CMOS
Aiming	Laser diode
Illumination	White LED (625±10nm)
Scan Modes	Trigger Mode, Sense Mode
Scan Rate	60 frames per second
Depth of Field EAN 13 (13mil)	SR: 40-480mm; MR: 130-705mm
Depth of Field Code 39 (5mil)	SR: 80-350mm; MR: 200-575mm
Depth of Field PDF417 (6.67mil)	SR: 60-320mm; MR: 175-550mm
Depth of Field DataMatrix (10mil)	SR: 55-355mm; MR: 185-520mm
Depth of Field QR (15mil)	SR: 50-400mm; MR: 195-550mm

Performance

Operating System	Android 10 - GMS, Android Enterprise Recommended (AER)
Processor	Qualcomm Snapdragon 1.8GHz main frequency
Memory RAM	4GB
Memory Flash	64GB
Memory Storage Expansion (max.)	Micro SD/TF card (max. 128 GB)

Physical

Battery Type	3.8V, 5100 mAh, removable
Buttons	Two scan buttons (left/right), three touch navigation keys
Camera	13 Megapixels, PDAF, with LED flashlight
Dimensions (mm)	200(H) x 70(W) x 29(0) mm (pistol grip 58mm)
Display	4.0" WVGA I PS screen with Gorilla Glass, resolution 480x800, supports input with gloves
Expansion Slot	MicroSD card (max. 128GB)
Expected Battery Life	Scanning:> 15 hours of continuous operations; standby: 500 hours
Interfaces	Quick charging (QC) 3.0, Type-C port, 9V/2A
Keypad	29, 38 or 47 physical buttons, white backlight function
Notifications	Vibrator, speaker, and mulit-color LED
Power Supply Input	AC 100~240V, 50~60Hz
Power Supply Output	Type-C 9V/2A,15V/I.2A
Sensors	Gravity Sensor, Hall Switch
SIM (4G configurations only)	Nano+Nano or Nano+TF
Weight	360g (including battery)

Wireless

WWAN Radio (4G configurations only)	2G: GSM: 850/900/1800/1900MHz; 3G: WCDMA: BI/B2/BS/B7/B8/ B20/B28a&b, CDMA lx/EVDO: BCO; 4G: FDD-LTE: BI/B2/B3/BS/B7/B8/B20/B28a&b, TDD-LTE; B38/B39/B40/B41 (100M)

WLAN RADIO	802.11 a/b/g/n/ac, compatible with 11 d/h/i/k/r/v/w, support 2.4G and 5G dual frequency; Roaming: Super Fast Roaming
WPAN RADIO	Dual mode, Bluetooth 4.2+LE (backward compatible)
RFID	NFC: 13.36MHz ISO14443A/B, MI FARE, Felica, NFC Forum Tags
GPS (4G configurations only)	Beidou, Galileo, GLONASS, GPS (AGPS)

Environmental

Operating Temperature	-20℃ to 55℃
Storage Temperature	-40℃ to 70℃
Humidity	5% to 95% (non-condensing)
Electro Static Discharge (ESD)	±8 KV (direct discharge); ±15 KV (air discharge)
Drop	1.8m
IP Rating	IP65

Accessories

Standard	Hand strap, USB cable, battery and multi-plug adapter (supports fast charging)
Optional	Single cradle, pistol Grip, 4-slot battery charger, screen protection film

Software

MDM (certified)	Ndevor, SOTI, Airwatch
Terminal Emulation (compatible)	StayLinked, Ivanti Velocity
Configuration Tools	Ndevor

Certifications

Hardware	CE-RED, FCC, BIS, RoHS2.0, REACH, AER, SOTI, UN38.3, IEC62471; Laser Safety: IEC60825

Warranty

Standard	2 years