



Customer Information Terminal NLS-NQuire

User Guide

Revision History

Version	Description	Date
V1.0	Initial release.	Mar 8th, 2024
V1.1	Update the first page	April.28 th , 2024

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Chapter 1 Device Instruction & Installation

Hardware Instruction

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1 Camera	2 Logo LED #1
3 Logo LED #2	4 RJ45 Ethernet Port
5 SIM/TF Card Slot	6 Barcode Scanner (Option)
7 Power Switch	8 DC-In Jack
9 Type-C USB Port	10 Type-A USB Port

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Note: NQuire 500 does not have type-A USB Port

11 Power LED Indicator	12 Ethernet LED Indicator
13 Menu key	14 Up Key
15 Down Key	16 Vol+ Key
17 Vol- Key	18 Speaker
19 Product Label	20 Expansion Slot Cover
21 Barcode Scanner (Option)	22 Expansion Slot Cover
23 Push-to-Release-Hole	24 Scanner Connector Cover

Hardware Instruction & Operations

(Installation & Uninstallation)

1. LED Indicator



Power	Red LED is solid on	Power supply is on.
Status	Red LED is Off	Power supply is off.
Ethernet	Green LED flashes constantly	Network connected
Connection	Green LED is solid on	Network disconnected

2. Sim/IF Installation

- 1) Release the screw on the SD card cover
- 2) Remove SD card cover
- 3) Insert SD card into the push-push SD card slot



3 Push Buttons



From left to right, they are the menu key, up key, down key, volume +, and volume -.

4. Expansion Slots & Add-on modules



ADD-ON MODULES



INSTALLATION (Enable the NFC/MSR in the system setting first) Below is an example of NFC installation

1. Unscrew and remove the covering part.



2. Gently lift the cover up with your hand.



3. Plug the jack of the antenna into the socket, then install the cover.





4. Remove the cover of the NFC antenna and secure it with a screw to ensure the fixation of NFC and NQuire



5. Install the cover of the NFC antenna

Notes: The installation steps for MSR are similar to NFC. Connect the MSR to the NQuire jack as shown below



5. Speaker

Dual audio output.



6. Vesa Mount Holes





7. DC-In Jack

Plug the power adapter into the power jack, and fix the position with a bracket to prevent it from loosening.







8. Barcode Scanner

The scan engine is set up in auto mode as the default setting. LED will light up when any object shows in front of the barcode scanner within proper distance, and the barcode engine will automatically scan when a barcode showed within a proper distance.

Notes: The scanner head can be changed from horizontal to vertical use:

- 1) Unscrew the screw to remove the scanner head.
- 2) Insert it into the vertical position and tighten the screw.





9. Control I/O Ports & Cover

There are UART(3.3V) & GPIO under the Control IO cover. The Control I/O ports match with 1mm pitch connectors: 8-pin on the left and 6-pin on the right, as shown in the figure below.







8-pin connector



6-pin connector

Typical Application Circuit for GPIO:







INB







NET NAME	CONDITION	RESULT	REMARK	
GPIO1 3V3	GPIO1_3V3=L/H	GPIO1=L/H		
GPIOI_5V5	GPIO1=L/H	GPIO1_3V3=L/H	INPUT & OUTPUT	
GPIO2 3V3	GPIO2_3V3=L/H	GPIO2=L/H	PS:It is used as an	
GPIO2_3V3	GPIO2=L/H	GPIO2_3V3=L/H	interface for purchasing	
	GPIO3_3V3=L/H	GPIO3=L/H	accessories	
GPIO3_3V3 GPIO3=L/H		GPIO3_3V3=L/H		
INPUT A	INPUT_A=INT_VCC	IR_INPUT_A=L		
INPUT_A	INPUT_A=GND_EXT_INA	IR_INPUT_A=H	INPUT	
INPUT B	INPUT_B=INT_VCC	IR_INPUT_B=L		
INPUT_B	INPUT_B=GND_EXT_INB	IR_INPUT_B=H		
	IR_OUT_A=L	OUT_A=OUT_VCC		
OUT_A	IR_OUT_A=H	OUT_A=GND_EXT_OUTA		
OUT B	IR_OUT_B=L	OUT_B=OUT_VCC	OUTPUT	
001_B	IR_OUT_B=H	OUT_B=GND_EXT_OUTB		



Electrical Characteristics:

GPIO1_3V3, GPIO2_3V3, and GPIO3_3V3 voltage requirements are equal to 3.3V.

OUT VCC (external connection required) should be externally connected and requires an external series circuit. The series circuit size is set based on current requirements. The voltage requirement for OUT VCC is not greater than 24V. It is required that the current into the device from OUT-A and OUT_B inputs be less than 80mA at 60 degrees Celsius (subject to temperature variations, refer to above diagram).

INT_VCC (external connection required) voltage requirement is not less than 3.3V and not greater than 20V. (External series circuit can increase input power supply voltage, with the requirement that the input current does not exceed 50mA.)

10. Interface



The interfaces are shown as below :

Chapter 2 Accessory & Installation

VESA Wall Mount

Installation & Operation

1. Select a mounting location that is convenient for operation.

2. Remove the screw attaching the bracket to the chassis of The VESA 75 mount.

3. For wall mounting, install the four plastic wall anchors in a wall and then secure the bracket of VESA 75 mount to the wall using the four large screws. For countertop/shelf mounting, secure the bracket of VESA 75 mount to a countertop/shelf using the four large screws.

4. Complete all wire/cable connections to the NQuire. Secure the chassis of VESA 75 mount to the back of the NQuire using the four small screws.

5. Attach the bracket back to the chassis with the screw that was removed in step 2.

6 For safety reasons, it is advisable not to install the product at a height exceeding 2 meters.

7 Adjust the installation height to a reasonable distance based on the usage environment and the settings of the barcode scanner, ensuring it is not less than 60cm



Chapter 3 Feature Programming

Home Screen

Open an app: Tap it.

View all apps/Open apps list: Swipe up from the bottom of the screen to view all the apps.





Network & Internet

Tap the app icon .-> "Network & Internet", then set Wi-Fi, Mobile Network, Hotspot & Tethering, and VPN according to your needs.

Se	ettings				
٩	Search settings				
(ŕ	Network & internet Mobile, Wi-Fi, hotspot				
60	Connected devices Bluetooth, Android Auto, NFC				
	Apps Recent apps, default apps				
¢	Notifications Notification history, conversations				
≡	Storage 48% used - 16.74 GB free				
49	Sound Volume, Do Not Disturb				
	Display Dark theme, font size, brightness	•	٠		
÷					
Ne	etwork & internet				
€?	Internet Networks available				
	Mobile network				
¥	Airplane mode				
	SIM cards				
0	Hotspot & tethering Off				
0	Data Saver ^{Off}				
¢7	VPN				
Mot	pile plan				
Priv	ate DNS				
		•	•		

Connected Device

Tap the app icon -> "Connected devices", and set USB, Bluetooth, and NFC parameters according to your needs.

Apps

Tap the app icon .-> "Apps", then view app usage and handle special app access. ← Apps Recently opened apps Files by Google 0 min. ago com.nl.nlscandemo CIT 2 min. ago ۲ G Google 21 min. ago See all 42 apps > General Default apps Chrome, Phone, and Messages Screen time

Notification

Tap the app icon \bigcirc -> "Notification", then manage device notifications, including notification history, notification on lock screen, do not disturb mode, and other parameter settings.

÷			
Notifications			
Manage			
App settings Control notifications from individual apps			
Notification history Show recent and snoozed notifications			
Conversation			
Conversations No priority conversations			
Bubbles On / Conversations can appear as floating icons			
Privacy			
Device & app notifications Control which apps and devices can read notifications			
Notifications on lock screen			
	0		

Storage

Tap the app icon then "Storage" to display the current device storage status and manage storage.

← St	orage			
1	5 GB used			32 GB total
	Storage manager			
	Free up space Go to Files app to manage and free up space			
	Apps			11 GB
¥	System			4.5 GB
	Documents & other			26 MB
L	Images			514 kB
	Trash	•		215 kB

Display

Tap the app icon \bigcirc -> "Display", and set the brightness level, dark theme, night light, and other parameters on the screen shown below as per your needs.

← Display			
Brightness			
Brightness level			
Lock display			
Lock screen Show all notification content			
Screen timeout			
Appearance			
Dark theme Will never turn on automatically			
Display size and text			
Color			
	•	• •	

Wallpaper

Tap the app icon .-> "Wallpaper", and choose the wallpaper for Home screen and Lock screen.

÷				
Choose wallpaper from				
Live Wallpapers				
🔁 Photos				
Wallpaper & style				
	•	•		

Security

Tap the app icon and then "security" to set up screen lock, find my device, security updates, and other parameter settings.

← Se	curity				
Secur	ity status				
${\timeset{ \circle} \ }$	Google Play Protect				
0	Find My Device No Google account on this device				
	Security update December 5, 2023				
Devic	e security				
Scre	en lock				
	e security settings otion, credentials, and more				
		•	٠		

Privacy

Tap the app icon \bigcirc -> "security",then view the privacy dashboard and set permission manager, camera access and other parameters.

÷	
Privacy	
Privacy dashboard Show which apps recently used permissions	
Permission manager Control app access to your data	
Camera access For apps and services	
Microphone access For apps and services. If this setting is off, microphone data may still be shared when you call an emergency number.	
Show passwords Display characters briefly as you type	
Notifications on lock screen Show all notification content	
Android System Intelligence Get suggestions based on the people, apps, and content you interact with	
App content Alor apps to send content to the Android system	

System

Tap the app icon -> "system", then set language and input settings, date and time preferences, system updates, and restore factory settings

÷							
Sy	System						
	Languages & input						
S	Date & time GMT+08:00 China Standard Time						
۲	Backup						
¥	System update Updated to Android 13						
ŝ	Multiple users Signed in as Owner						
Ð	Reset options						
		•	•				

About Phone

Tap the app icon -> "About phone", then view information such as the device name, product model, MEID, Android version, build number, and software updates.

← About phone						
		Owner				
Basic info						
Device name NLS-NQuire1000						
Phone number (sim slot 1) _{Unknown}					I	
Phone number (sim slot 2) ^{Unknown}						
Legal & regulatory						
Legal information						
Device details						
SIM status (sim slot 1) Not available						
		•				

File Management

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Tap the app icon files on the Home screen and then manage all the file on the device.

≡	Files 0	Q				
44	Recent					
Clean						
Browse	- 2					
<i>701</i> .						
Nearby Share	nquire Screenshots Images Images					
	Categories					
	Downloads					
	Images 828 kB					
	Videos 0B					
	J Audio O B					
	Documents & other					
	Apps 1GB					

Infrared Sensing

Tap the app icon ion the Home screen then and tap "Infrared sensing" to manually set the infrared sensing distance (7cm to 30cm from near to far).



÷	System Settings			
	Quick Settings Enable			-
	HOME Key Enable			•
	Notification Bar Setting			
	Recents Enable		_	•
	Sdcard Enable	Infrared sensing		
	Show Status Bar	Set infrared sensing sensitivity		•
	Show Navigation Bar			
	Soft Input Enable	near	far	
	Glove Mode			
	Usb power			
	Infrared sensing Set infrared sensing sensitivity			
	Logo option RGB			
		< ●		

Web Browser

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Tap the app icon on the Home screen, and use Google Chrome to log in and access websites.



Ethernet

Tap the app icon on the Home screen then setting is a static IP.

to set ethernet parameters. Currently, the default

Note: If you intend to connect the device to the internet via Ethernet, ensure Wi-Fi is turned off and insert the Ethernet cable into the device's Ethernet port.

Restoring Factory Settings

Tap the app icon -> "System" -> "Reset options" -> "Erase all data (factory reset)" -> "Erase all data". After this operation, the terminal will be reset to factory defaults and all the personal data on the internal storage, such as music and photos, will be deleted.

Chpter 4 Important Safety and Handling Information

- ✓ Please read the instructions carefully before equipment installation and using the device.
- \checkmark Do not install the product at a height exceeding 2 meters.
- ✓ Do not put the product in a high-temperature, humid, or dusty environment.
- ✓ Do not drop, crash, or break down this product.
- ✓ Do not power off the device when it's formatting or upgrading; otherwise, it will cause an operating system error.
- ✓ Use only approved add-on enhancements.
- ✓ This product contains button batteries. If swallowed, button batteries can cause severe burns within 2 hours and may lead to death.

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