



NQuire 1000 Manta II customer information terminal user guide

## **Revision History**

Version	Description	Date
V0.1	Initial release.	August 4 <sup>th</sup> , 2016
V0.2	Fine-tuned for NQuire1000 specific features	January 5 <sup>th</sup> , 2017
V0.3	1) Revised home page	January 31 <sup>st</sup> , 2017
	2) Added hardware & accessory installation & operation	
V1.0	Updated all the screenshots.	November 23, 2018
V1.1	Updated the "12. Control I/O Ports & Cover" section.	January 8, 2019

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# Disclaimer

- Please read the instructions carefully before equipment installation and using the device.
- ✓ Do not put the product in 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 operation system error.
- ✓ This product is IP54 certified in waterproof and dustproof on front panel (only).
- ✓ Use only approved add-on enhancements.

# **Device Instruction & Installation**



### Hardware Instruction

- 1. **LED** Indicator
- SD Card Slot / Cover: 2.
- 3. **Exit Button:**
- **Up / Down Buttons:** 4.
- 5. Vol+ / Vol- Buttons:
- Front Camera: 6.
- **Expansion Slot:** 7.
- 8. **Speakers:**
- **VESA75 Mounting Holes:** 9.
- 10. DC-In Jack:
- 11. Barcode Scanner:
- 12. Control I/O Port Cover:

install optional add-on modules

support external SD card

adjust the system volume

return to the previous page

navigate up/down to select an item

- dual audio output
- max. screw depth 4.5mm from mounting surface

embedded 2M pixels (& 5MP or 8MP) optional

- powered by 12V/2A DC input
- 2D barcode scanner to scan barcode
- cover for GPIO and RS-232 ports

13. Generic I/O Port Covers (left and right pieces):

cover for frequently used I/O ports

- 14. 10/100Mbps Ethernet Port:
- 15. USB Host Port:
- 16. Micro-USB OTG Port:
- 17. Power Switch:
- 18. Headphone Audio Jack

RJ45 connector supporting Ethernet connection support USB 2.0 Host type A USB 2.0, Micro-USB type B jack, OTG switch power ON/OFF

### **Hardware Instruction & Operations**

(Installation & Uninstallation)

### 1. LED Indicator

Red	Power supply is on.
Light Off	Power supply is off.



### 2. SD Card Slot / Cover

Support external SD card up to 32GB (/ 64GB)

#### INSTALLATION:

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



**REMOVAL:** 

- Push SD card inside the slot, release press force suddenly to let SD cardpopped out from the slot
- 2) Insert cover and fix it by screw



### 7. Expansion Slots & Add-on modules

For add-on modules like existing barcode scanner, MSR and NFC.



ADD-ON MODULES Availability for the modules - TBA (to be announced)



#### INSTALLATION

- 1. Align the positioning bumps on module with the pits on main device and gently press down until they are fully inserted.
- 2. Fix module on main device by screws.





### 8. Speaker

Dual audio output.



### 9. Vesa Mount Holes





#### 10. DC-In Jack

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





#### 11. Barcode Scanner

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





### 12. Control I/O Ports & Cover

There are control IO ports (RS-232 & GPIO) under the Control IO cover (#12 in Device Instruction). Press the cover to slide backward to open the cover, or slide forward to close the cover.

**RS-232 port pinout (PIN1-PIN6):** GND, RX, TX, GND, 5V, 5V.







**GPIO port pinout (PIN1-PIN8):** INPU\_VOD (GPIO0\_31), INPU\_VOC (GPIO0\_30), VOB\_OUT (GPIO0\_29), VOA\_OUT (GPIO0\_15), INPUT\_GND, INPUT\_GND, N/A, INPUT\_VCC\_In.

The NQuire can be connected to devices, such as LED lamp, door lock or access control system via its GPIO port.



### Call the NQuire's GPIO control API: Reference

nq1000\_interface\_api.jar and then import com.android.nq1000.NQManager in your code.

API	Description	Parameters	Type of Return Value	Return Value
setdoorThreshold (String value)	Set GPIO pin state	<b>150</b> : Set VOA_OUT (GPIO0_15) to high <b>151</b> : Set VOA_OUT (GPIO0_15) to low <b>290</b> : Set VOB_OUT (GPIO0_29) to high <b>291</b> : Set VOB_OUT (GPIO0_29) to low <b>1011</b> : Enable UART <b>1010</b> : Disable UART	boolean	<b>true</b> : success <b>false</b> : failure
getdoorData()	Read the state of INPU_VOC (GPIO0_30) and INPU_VOD (GPIO0_31)	Null	String	00: GPIO0_30 high, GPIO0_31 high 01: GPIO0_30 high, GPIO0_31 low 10: GPIO0_30 low, GPIO0_31 high 11: GPIO0_30 low, GPIO0_31 low

#### **GPO circuit example:**



### GPI circuit example:



### **Control logics:**

NET NAME	CONDITION	RESULT	REMARK
INPU_VOC	INPU_VOC=IPUT_VCC_In	GPIO0_30=L	INPUT
	INPU_VOC=IPUT_GND	GPIO0_30=H	
INPU_VOD	INPU_VOD=IPUT_VCC_In	GPIO0_31=L	
	INPU_VOD=IPUT_GND	GPIO0_31=H	
VOA_OUT	GPIO0_15=H	VOA_OUT=IPUT_GND	OUTPUT
	GPIO0_15=L	VOA_OUT=IPUT_VCC_In	
VOB_OUT	GPIO0_29=H	VOB_OUT=IPUT_GND	
	GPIO0_29=L	VOB_OUT=IPUT_VCC_In	

### **Electrical requirements:**

 $12V \leq IPUT\_VCC\_In \ / \ INPU\_VOC \ / \ INPU\_VOD \leq 24V$ 

### 13. Generic I/O Port Covers

**ANALYSIS OF STRUCTURE** 

Covers for right cabinet and left

cabinet.

INSTALLATION

- 1) Put the hook on plastic cover into the hook
- 2) Level the plastic cover.
- 3) Pushing cover forward, let positioning tenon into the positioning groove on main device.
- 4) Tighten screw to fix the cover.





#### REMOVAL

- Loosen screw to release the cover. It is recommended not to pull screw out completely to prevent it from being lost.
- 2) Pull cover backward horizontally.
- 3) Pull up the front end of cover to remove cover.





#### SCENARIO

1) With both covers fixed and cables



2) Without both covers, with cables



### 14/15/16 Generic I/O Ports



### 17. Power Switch

- 1) Switch on to boot up device.
- 2) By default, power switch is in **ON** position.





### 18. Headphone Audio Jack



## **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.



# **Feature Programming**

### **Home Screen**

On the home screen, you can long-tap on any blank area to change the wallpaper or drag widgets to desktop.



### **Change Wallpaper**





2. Tap "Wallpapers".



3. Select the image you want as your wallpaper.



4. Tap "**Set wallpaper**" on the upper-left corner of the screen then "**Home screen**" to apply the new wallpaper.

### Add Widgets



			-	17-	11:51
 ۲	Browser				
	Bookmark 1 × 1	Bookmarks 2 × 2			
		Cangle 2 control 2 c			
1	Calendar				
	Calendar 2 × 2				
	The Sep 27 Bake Cockles & Medic too Crean 20m - 3pm Montain View Trime machine demo for Serge 3pm - 4pm Stop machine stop machine stop machine				
9	Clock				
	Analog clock 2 × 2	$\frac{1}{1} \cap \cdot \cap R$			
		0		0	

2. Long-tap on a widget and drag it to desktop.



3. If you want to remove an icon, long-tap on the widget and then drag it onto "**X Remove**" at the top of the screen.



## **System Bar**

### **Navigation Buttons**

Q	Þ	0		<b>D</b>	<b>O</b>	
1	2	3	4	5	6	

- 1. Volume-: Decrease the system volume.
- **2. Back:** Return to the previous page.
- **3.** Home: Return to the home screen.
- 4. **Recents:** Switch between recently used apps.



To remove an app from the list, swipe the app item left or right or tap "X" in the upper-right corner of the app window to remove it.

- 5. Volume+: Increase the system volume.
- 6. Screenshot: Take a screenshot.

#### **Status Notifications**

N 🔜

Status bar at the top of the screen displays system status, such as time, Wi-Fi, SD card and USB connection, etc.

Pull down the status bar to open the status window.



Pull down the status bar to open the shortcuts window which contains brightness adjustment, Wi-Fi, Do Not Disturb, auto rotate, Bluetooth, airplane mode, physical button and invert colors, and system settings entrance.



## **Applications**

•					\$ 🔻 10:32
		Q Sea	rch Apps		
		- × + =		6	
Apkinstaller	Browser	Calculator	Calendar	Camera	Clock
8		@	\$		0
Contacts	Downloads	Email	Explorer	Gallery	Music
Q	$\bigcirc$	D <sub>4K</sub>			
Search	Settings	Video	Wireless Update		
$\Box$					

Tap  $\wedge$  above the app shortcuts on the home screen to view the App list.

The installed applications will be shown here and you can open an app by tapping its icon. To find an app easily, you can create a shortcut by long-taping on the icon and dragging it into the home screen.



## Language & Input Method

In the App list, tap "Settings" to open the system settings app, and select "Language &

input".

	≱ 💎 10:45
≡ Languages & input	
Languages English (United States)	
Spell checker Android Spell Checker (AOSP)	
Personal dictionary	
Keyboard and input methods	
Virtual keyboard	
Physical keyboard	
Speech	
Text-to-speech output	
Mouse/trackpad	
Pointer speed	

**Change language:** Tap "**Language**" then "**Add a language**", and then you can change the system language according to your preference.

-					* 💎	11:00
÷	Add a language					Q
Suggest	ted					
Englis	h (XA)					
Españ	ol (Estados Unidos)					
) العربية	(XB)					
All lang	uages					
Afrika	ans					
Aghen	n					
Akan						
Anarâ	škielâ					
Azərb	aycan dili (latın)					
	Ô	$\bigtriangledown$	0			

Enable an input method: Tap "Virtual keyboard" then "Manage keyboards", and then enable the desired input method.

-						* 💎 7:48
÷	Manage keyboards					
	Android Keyboard (AOSP) English (US)					
<b>#</b>	Google Pinyin Chinese Pinyin					•
	Japanese IME Japanese					
	Ĵ	$\bigtriangledown$	0	$\Box$	Ō	

## Date & Time

In the App list, tap "Settings" to open the system settings app, and select "Date & time".

■ N = Date & time					12:17
Automatic date & time Use network-provided time					•
Set date March 12, 2018					
Set time 12:17 PM					
Select time zone GMT+00:00 Greenwich Mean	Time				
Use 24-hour format 1:00 PM					
D	$\bigtriangledown$	0		<u>``</u>	

If the "**Automatic date & time**" option is enabled, system date and time will be synchronized automatically with network time when you connect your device to a Wi-Fi network.

<u>ـــ</u>				* 💎 12:01
≡ Date & time				
Automatic date & time Use network-provided time				
Set date March 13, 2018				
Set time 12:01 PM				
Select time zone GMT+00:00 Greenwich Mean Time				
Use 24-hour format 1:00 PM				
			4	-
Û	$\bigtriangledown$	0		<u>o</u>

To set the time manually, you need to disable "Automatic date & time".

Besides, you can also set time zone and time format as per your needs.

### Volume

On the system bar, click the Volume- icon of to decrease the system volume, and click the

**Volume+** icon **()** to increase the system volume.

Or you can press the **Vol+ / Vol-** buttons (#5 in Device Instruction) on the top of the device to adjust the volume.

## **Brightness**

In the App list, tap "Settings" to open the system settings app, and select "Display".

Tap "**Brightness level**" and then move the brightness slider to the left to decrease the brightness and right to increase it.

				\$ 💎 5:11
≡ <sub>Display</sub>		<b></b>		
Brightness level				
Adaptive brightness Optimize brightness level for available ligi	ht			
Wallpaper				
Screen saver				
Font size Default				
Display size Default				
When device is rotated Rotate the contents of the screen				
Cast				
D	$\bigtriangledown$	0	D)	<u>6</u>

If you want the brightness to be adjusted automatically based on ambient lighting, enable the "Adaptive brightness" option.

## Schedule Power On/Off

This function is used to power the device on and off automatically at a specific time each day.

In the App list, tap "Settings" to open the system settings app, and select "Time Screen".

					* 💎 1:38
Schedule power on 8	& off				
<b>1</b> 7:00					
<b>8:30</b>					
Ð	$\bigtriangledown$	0	$\Box$	Ō	

The top row is for power on clock, and the following row is for power off clock. To enter the power on/off clock settings, tap the corresponding row.



Tap "Time". Then set the time and tap "OK".



Tap "DONE" at the upper-right corner of the screen to save the setting.

Set schedule power on				¥ ♥ 7:30 REVERT DONE
Time				
8:30 AM				
D	$\bigtriangledown$	0	L))	<u>ō</u>

## Wi-Fi

Join a Wi-Fi network: In App list, tap "Settings" to open system settings app, and select "Wi-Fi". Turn Wi-Fi on to find available Wi-Fi networks. Select a network and enter the password, then tap "CONNECT".

<b></b>																				⊘ 7:57
	Wi-Fi																		*	* :
	On				Passw	.INK_5 ord	BETA	AA												
<b>T</b> a	fr2.4G																			
Ta	LieBac	WiFi384	4		She	ow pass	word													
Ta	AUSER	-20171	031JC		Advan	ced optic	ons								~					
<b>T</b> a	DIREC	T-QrDES	KTOP-C	OME9									CANCE	L CON						
		1.0																		
q	1	W	2	е	3	r	4	t	5	у	6	u	7	i	8	0	9	р	0	×
q	1 a	W	2 S	е	³ d		4 f	t	5 g	у	٥ h	u	7 j		<sup>8</sup> k	0	9			×
q		w		e x				t v		y b		u n				0				€3 ◆
q • ?12	а					r				b		n		i				р		<b>▲</b>

### Ethernet

Be sure to turn off Wi-Fi if you want to connect your device to the Internet through Ethernet. Plug the Ethernet cable into your device's Ethernet port (#14 in Device Instruction).

In the App list, tap **"Settings**" to open the system settings app, and select **"More**". Tap **"Ethernet**".

N? 🖬					<→▽ 8:45
÷	Ethernet				
IP addi 192.168					
netma 255.255					
gatewa 192.168	<b>ay</b> 3.74.254				
<b>dns1</b> 192.168	3.30.4				
dns2 192.168	3.30.1				
Ethern dhcp	et Ip mode				
	Û	$\bigtriangledown$	0	L))	

If you want to specify a static IP address for your device, tap "**Ethernet Ip mode**" then "**static**", and enter the IP address, gateway, netmask and DNS server. Tap "**CONNECT**".

<b>11</b> 19						<⇔♡ 8:4	6
← Ethernet							
IP address 192.168.74.18							
netmask 255.255.255.0				-			
gateway	Ethe	rnet lp mode					
192.168.74.254	0	static		_			
dns1	۲	dhcp					
192.168.30.4				_			
dns2	0	pppoe					
192.168.30.1				CANCEL			
Ethernet Ip mode				_			
dhcp							
-			~		1		
Û	<		0		0		

## Bluetooth

You can set up a Bluetooth connection between the device and other Bluetooth devices, such as PC, mobile phone. Note that Bluetooth connection works better if there are no obstacles between them.

Pair your device to a Bluetooth device: In the App list, tap "Settings" to open the

system settings app, and select "**Bluetooth**". Turn Bluetooth on to search for available Bluetooth devices. Select the desired device from the search results and then tap "**PAIR**".

7					* 🖓	6:29
≡ <sub>Bluetooth</sub>						
On						
Available devices						
	No	nearby Bluetooth device	s were found.			
NQ1000-II is visible to nearby devices wh	ile Bluetooth settings is ope	en.		_		
	Pair with "Adminis Bluetooth pairing code 081278 Allow "Administrator		? Ir contacts and call history CANCEL	PAIR		
D	$\bigtriangledown$	0			3	

After pairing, the paired device will be moved to the "Paired Devices" list.

<b></b> 🦙		* 🛇 6:29
≡	Bluetooth	:
	On	•
Paireo	d devices	
L.	"Administrator"的 iPhone	\$
Availa	able devices	
<u> </u>	Jenny	
*	7A:5B:95:EB:13:24	
s.	OPPO A59st	
e.	mate9	
*	40:1B:85:ED:75:1F	
۰.	小米手机	
. <b>U</b>	OPPO R9s	
		ō.

## **Virtual Keyboard**

The device provides a virtual keyboard for typing. You can use it as a real one.

When you tap a text input field, the virtual keyboard will appear at the bottom of the screen. To close the virtual keyboard, you can tap  $\mathbf{\nabla}$  in the system bar at the bottom of the screen.



**Change keyboard:** Tap **I** in the lower-right corner of the screen, and then select the desired keyboard from the pop-up window.



If the keyboard icon **is** not present in the system bar, go to **Settings** > **Languages & input** > **Virtual keyboard** > **Manage keyboards** > enable the input method(s) you want to use.

		* 💎 8:06
÷	Virtual keyboard	
	Android Keyboard (AOSP) English (US)	
<b>#</b> ,	Google Pinyin Chinese Pinyin	
+	Manage keyboards	
		∦ 💎 8:07
÷	Manage keyboards	

÷	Manage keyboards					
	Android Keyboard (AOSP) English (US)					•
₩,	Google Pinyin Chinese Pinyin					•
	Japanese IME Japanese					
	Ô	$\bigtriangledown$	0		ō	

## **Take Photos**

In the App list, tap 📩 to launch the Camera app.

Tap o take a photo.



Tap : to open detail settings. From top to bottom in the picture are: grid lines, timer and 3DNR.



## **Surf Online**

In the App list, tap () to launch the Browser app.

When connecting the device to a network, you can visit websites, play online media or download files via the browser.

In a browser window, enter a URL into the address bar and tap is on the virtual keyboard to

open the URL. You can also tap F to add new tabs to open multiple webpages

simultaneously in one window.



### **Browse Files**

In the App list, tap "Explorer" to view local files.

Internal Memory					՝ ¥ 🔻 1:04
🔒 Home	LevelUp	🖭 Multi	C Editor	RewFolder	💽 Bacl
Alarms				2018-03-12 10:31:	55   drw
Android				2018-03-15 11:52:	
				2018-03-15 10:28:	
Download				2018-03-12 10:31:	
Movies				2018-03-12 10:31:	
Music				2018-03-12 10:31:	
Notifications					
<b>D</b>	A	0		) 2018-03-12 10:31:	55   UI W

Long-tap a file or folder to perform file operations, such as copy, delete, move (cut), paste, rename, send (share) and create shortcut.



To select multiple files/folders, tap "**Multi**" in the menu and then select files/folders. The selected files/folders will be highlighted in yellow.



Tap "Editor" in the menu to operate the selected files/folders.

## **Play Media**

With the provided apps, you can play your media files on your storage, such as pictures, music and videos.



### Picture Player:

Support JPG, BMP, GIF, PNG.

1	
C	
1	

### Music Player:

Support MP2, WMA, WAV, AAC, OGG, ASF.



### Video Player:

Support MKV, TS, FLV, AVI, VOB, MPG, DAT, ASF, RM, MOV, 3GP, MP4, WMV.

## **Install & Uninstall Apps**

### **Install Apps**

Before installing an app, please download the app (.apk) to using the browser, or copy a downloaded app (.apk) to the device from your computer.

Then you can open the ApkInstaller app 😴 in the App list to install the downloaded app.

ApkInstaller				 * 💎 5:
		Ins	tall	
		Mar	age	
		E	<b>cit</b>	
r)	<	0		<u>آم</u> اً

Open the folder containing the apk file.

 Install						* 🔻 5:52
Path: /						
Internal Memory			The	ere is no apk file under this o	directory	
TF Card						
D	$\bigtriangledown$	0			<u>[]</u>	

∟ Install				* 🔻 5:52
Path: Internal Memory/Apk			 ctory: Internal Memory/Apk google.android 3.apk	.inputmethod.pinyin_2
C)	$\bigtriangledown$	0	<b>U</b> »	Ĩ

Tap the apk you want to install.

					* 💎 5:56
Install				_	
	∰,	Google Pinyin			
Path: Internal Memory/Apk	Do yo	u want to install this application? It w	ill get access	to:	
× /					ory/Apk
<b>.</b>	₿	find accounts on the device read your contacts			android.inputmethod.pinyin_2
	Ŷ	record audio			
	بر	read call log			
			CANCEL	INSTALL	
Ð	$\bigtriangledown$	0			

Tap "INSTALL" and then wait for the installation to complete.



You can also download an android app market, and install the apps via the market.

If receiving the "For security, your tablet is set to block installation of apps obtained from unknown sources" message when installing an app, tap "**SETTINGS**", and enable the "**Unknown sources**" option, and then reinstall the app.





### **Uninstall Apps**

To uninstall an app, Open the Settings app in the App list, and select "Apps".

-		* 💎	10:07
≡	Аррз	\$	:
	Android Keyboard (AOSP) 164 KB		
	ApkInstaller 24.00 KB		
6	Browser 276 KB		
- × + =	Calculator 16.00 KB		
	Calendar 44.00 KB		
0	Camera 56.00 KB		
7	Clock 100 KB		
8	Contacts 36.00 KB		
		)	

Tap the app you want to remove.

<b>A</b>			* ▼	10:11
← App info				
Google Pinyin version 2.1.0 (33864729)				
UNINSTALL		FORCE STOP		
Storage 9.36 MB used in Internal storage				
Data usage No data used				
Permissions Contacts, Microphone, and Phone				
Notifications				
<b>Open by default</b> No defaults set				
Battery 0% use since last full charge				
¢ <	0 [			

Tap the "UNINSTALL" button then "OK", and then wait for the uninstallation to complete.

	* 💎	10:13
← App info		
Google Pinyin Version 2.1.0 (33864729)		
UNINSTALL FORCE STOP		
Storage 9.36 MB used in Internal storage		
Data usage     Do you want to uninstall this app?       No data used     Image: Comparison of the second s		
Permissions Contacts, Microphone, and Phone		
Notifications		
Open by default No defaults set		
Battery 0% use since last full charge		
	1	

## **Reset to Factory Default**

Please make sure to back up the important data before resetting the device.

In the App list, tap "Settings" to open the system settings app, and select "Backup &

-							* 💎	10:18		
≡	Backup & reset									
Factory data reset										
	Ĵ	$\bigtriangledown$	0			<u>`</u>				

Tap "Factory data reset".

					\$ 💎 10:18						
← Factory data reset											
This will erase all data from your tablet's internal storage, including:											
<ul> <li>Your Google account</li> <li>System and app data and set</li> <li>Downloaded apps</li> <li>Music</li> <li>Photos</li> <li>Other user data</li> </ul>											
		RESET TA	ABLET								
D	$\triangleleft$	0			<u></u>						

Tap the "**RESET TABLET**" button.



Tap the "**ERASE EVERYTHING**" button. Then the device will reboot and reset to factory default.



Newland EMEA HQ +31 (0) 345 87 00 33 info@newland-id.com newland-id.com **D-A-C-H** +49 (0) 6182 82916-16 info@newland-id.de

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