



Symphone N5S mobile computer user guide

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Please read through the manual carefully before using the terminal and operate it according to the manual. It is advised that you should keep this manual for future reference.

Do not disassemble the device or remove the seal label from the device, doing so will void the terminal warranty provided by Fujian Newland Auto-ID Tech. Co., Ltd.

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Revision History

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Chapter 1 About This Guide

Introduction

This guide provides instructions for programming and operating the N5S 4G mobile terminal (hereinafter referred to as "the N5S" or "the terminal") running Android 7.0.

More Information

For more product and support information, please visit our web site: <u>http://www.newlandaidc.com</u>.

Chapter 2 Getting Started

This chapter lists the parts and accessories for the N5S and explains how to install, remove and charge the battery, and power on the N5S for the first time.

Unpacking

Carefully remove all protective material from the pack and verify that the following items are present:

- ♦ 1 x N5S Unit
- ♦ 1 x USB Cable
- 1 x Power Adapter
- ♦ 1 x Li-Polymer Battery
- ♦ 1 x Hand Strap
- ♦ 1 x Quick Start Manual

Accessories (Optional)

- ♦ Cradle for the N5S
- ♦ 4-slot battery charger
- ♦ Power Adapter for the Cradle
- ♦ USB Cable

Safety Instructions

Before using the terminal, please read the safety instructions carefully to ensure safe and proper use of the terminal. For more detailed information, please refer to Chapter 8.

	Do not switch the terminal on when use is prohibited or when it may cause interference or danger.	X	Do not place the terminal or its accessories in containers with a strong electromagnetic field.
(ţ	Do not use the terminal while driving.		Keep the terminal away from magnetic devices as the radiation from this product may erase the information stored on them.
ŧ	Follow any rules or regulations in hospitals and health care facilities. Switch off the terminal near medical apparatus.		Do not put the terminal in a high- temperature place or use it in a place with flammable gas such as a gas station.
Ł	Switch off the terminal before boarding an aircraft as it may cause interference to control equipment of the aircraft.		Keep the terminal and its accessories out of the reach of young children. Do not allow children to use the terminal without supervision.
+	Switch off the terminal near high-precision electronic devices as it may affect their performance.	\bigcirc	Use only approved batteries and chargers to avoid the risk of explosions.
	Do not attempt to disassemble the terminal or its accessories. Only authorized repair stations are allowed to repair the terminal.		Observe any laws or regulations on the use of wireless devices. Respect others' privacy and legal rights when using the wireless device.

Getting Started

The N5S



1	Arrow keys	9	Keypad	17	Power key
2	OK key	10	Period (.) key	18	Scan key (right)
3	Return key	11	Double-color LED*	19	Camera
4	Backspace key	12	Earpiece	20	Battery cover latch
5	Call key	13	Volume+/- key	21	Speaker
6	End key	14	Scan key (left)	22	Scanner
7	Fn key	15	Headphone jack	23	Cradle connector
8	Enter key	16	USB port		

* Double-color LED indications:

Red LED on: Charging in progress. Red LED flashes constantly: Low battery alert. Blue LED on: Fully charged.

Blue LED flashes constantly: System notifications, eg. missed calls

Installing the Battery



- 1. With the terminal facing down, slide the battery cover latch to the unlock position and remove the battery cover.
- 2. Insert the battery into the battery compartment, with its metal contacts facing down and lining up with the metal contacts on the inside of the terminal.
- 3. Replace the battery cover and slide the battery cover latch to the lock position.

Charging the Battery

Before charging the battery, ensure that it has been properly installed on the terminal.

1. Open the dust cover on the left side of the terminal to reveal the USB port.

2. Connect the terminal to a power outlet using the included USB cable and power adapter.

LED on the N5S					
Red LED on	Charging in progress				
Blue LED on	Fully charged				
Red LED flashes constantly	Low battery alert				



Note:

- 1. A fully discharged battery charges in approximately 4 hours.
- 2. When the terminal battery is running low (at 20%), the battery icon in the notification bar at the top of the screen starts flashing; when it goes down to 10%, the terminal emits beeping sounds and displays a prompt; when the battery is running out, the terminal beeps and then shuts down automatically.
- 3. When the battery is dead or juice too low to power on the terminal, charge the terminal for 15 minutes before using it.

Installing SIM and MicroSD Cards

- 1. With the terminal facing down, slide the battery cover latch to the unlock position and then remove the cover and the battery.
- 2. Slide the SIM card door to the right to unlock it and open the door to expose the SIM slot. Place the nano-SIM card (size: 12.3mm×8.8mm×0.7mm) in the slot with its contacts facing down. Close the SIM card door and slide it to the left to lock it in place.



3. If you have a microSD card, insert the card into the memory card slot with its contacts facing down.





4. Replace the battery and the cover. Slide the cover latch to the lock position.

Note: The N5S is equipped with two SIM slots that support 4G networks, and one microSD card slot for up to 32G of optional storage.

Chapter 3 Basics

This chapter provides the basics of operating the N5S.

Powering On/ Rebooting/ Powering Off the N5S

After installing the SIM card and battery and having the N5S fully charged, you may power the terminal on.

Power the terminal on: Hold down the Power key on the right side of the terminal (for about 3 seconds) until the terminal displays the welcome screen. Note that the initialization is going to take some time before the N5S displays the Home screen.

Power the terminal off: Hold down the Power key to display the menu, tap Power off, then tap OK.

Reboot the terminal: Hold down the Power key to display the menu, tap Reboot, then tap OK.

Force reboot the terminal: If the terminal is stuck, frozen or otherwise unresponsive, hold down the Power key for over 10 seconds to force the terminal to reboot.



Locking/ Unlocking the N5S

When you are not using the terminal, you can lock it to turn off the display and save the battery.

Lock the terminal manually: Press the Power key on the right side of the terminal.

Lock the terminal automatically: If no operation is performed on the terminal for a preset period of time, the terminal locks automatically. You can change how long it takes for the terminal to lock.

Unlock the terminal: Press the Power key or the End key, then swipe up across the screen.

Home Screen

View another home screen: Swipe left or right.

Open an app: Tap it.

View all apps/Open apps list: Tap



Add an app icon to the Home screen: Tap iii on the Home screen to open apps list. Tap and hold your desired app

until it appears on the Home screen and then drag it into a blank area.

Delete an app icon on the Home screen: Tap and hold your desired app on the Home screen until "X Remove" appears, then drag the app into it. Note that this operation only removes the icon from the Home screen. To remove the app from the terminal, see the **Uninstall an App** section.

Status Icons

Status Icon	Status Icon Description		Description
	Signal strength		Headphones connected
	Battery full		Call in progress
USB connected		<u>ተ</u>	Airplane mode
*	* Bluetooth on		Uploading
*:	Sending/receiving data via Bluetooth	Ŧ	Downloading
?	Open Wi-Fi network available		Wi-Fi connected

The icons in the notification bar at the top of the screen give information about the terminal.

Service Shortcuts

1. Swipe from top to bottom with one finger in one smooth motion to open the notification bar. Then tap the dark gray box at the top of the screen.



2. Tap the icon(s) on the screen to turn the corresponding service(s) on or off.



Transferring Files Between the Terminal and PC

- 1. Open the dust cover on the left side of the terminal. Connect the terminal to your PC using the included USB cable.
- 2. Swipe from top to bottom with one finger in one smooth motion to open the notification bar. Tap "USB for file transfer". Then Select "Transfer files".
- 3. Navigate to the "My Computer" section of your PC and look for the newly added drive with the N5S icon. Then you can browse it and drag-and-drop to move files back and forth to your PC.



Installing an App

Use one of the following methods to install a new app on the terminal:

- Method 1: Download an APK file from online app store and install it.
- Method 2: Download software package onto a microSD card or PC and copy it to your terminal. Then install it with File Manager.
- Method 3: Connect the terminal to PC with the supplied USB cable. Install a new app using a mobile assistant (such as Baidu Mobile Assistant) installed on the PC.

Note: When getting the "For security, your phone is set to block installation of apps obtained from unknown sources" message while installing an app with method 2 described above, tap **SETTINGS** then **OK**, and then start installing the app all over again.



Uninstalling an App

Use one of the following methods to uninstall an app on the terminal:

- Method 1: Connect the terminal to PC with the supplied USB cable. Uninstall an app using a mobile assistant (such as Baidu Mobile Assistant) installed on the PC.
- Method 2: Tap ion the Home screen to view all apps. Tap and hold your desired app until a trash bin ("Uninstall")

appears at the top right corner of the screen, then drag it into the trash bin.

Method 3: Tap the app icon -> Apps -> the app you want to uninstall -> UNINSTALL.

Chapter 4 System Settings

This chapter provides detailed instructions on how to configure some of the basic parameters included in the Settings app to meet your needs.

Starting the Settings App

To start the Settings app, tap its icon 🔯.



The following sections show you how to configure the basic system parameters on the Settings menu to suit your aims and needs.

Configuring the System Parameters

Display

Tap **Display** on the Settings menu. Then you can set the wallpaper, brightness, sleep timer, front size and other parameters on the screen shown below as per your needs.

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\equiv Display		=	∃ Display	
MiraVision™ Display picture quality optin	nization		eep ter 30 minutes of inac	iivity
Brightness level			ess power button tw	
Adaptive brightness			locking your screen	
Optimize brightness level for available light	or D	Sci	reen saver	
Wallpaper				
Sleep After 30 minutes of inactivit			nt size fault	
Arter 50 minutes of mactivit	- y	Dis	splay size	
Press power button twic Quickly open camera withou		Def	fault	
unlocking your screen	JL	Ca	ast	

Apps

Tap **Apps** on the Settings menu -> select an app. Then you can force stop or uninstall the app, or erase the app data as per your needs.

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	Apps	*	:	÷	App info	
	Messaging 24.00 KB			(N)	NFC Tools PR version 3.4	D
	Music 0 B			1U	NINSTALL	FORCE STOP
6 14 9	NFC Tools PRO 6.65 MB			Storag 6.65 MB	e 3 used in Internal	storage
	NFCard 380 KB			Data u No data		
	Phone 84.00 KB			Permis Storage		
	Scanner			Notific	ations	
	636 KB			Opon H	w dofault	

Screen Lock

Tap **Security** on the Settings menu -> 🗱 beside **Screen lock**. Then you can choose an unlock method as per your needs.



Language & Input

Tap Language & input on the Settings menu.

Change the language: Tap Languages -> Add a language -> select the desired language.

Enable an input method: Tap Virtual keyboard -> Manage keyboards -> enable the desired input method.

N ■ * ▼ ■ 2 5:50 ≡ 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							

Date & Time

Tap **Date & time** on the Settings menu. Time zone, date and time can be adjusted either automatically or manually. If you want to change them manually, you need to turn off the automatic options first.

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	Date & time		≡ 1	Date & time
Automatic date & time Use network-provided time				tic date & time ork-provided time
	ic time zone ork-provided time zone	•	Auto	omatic date & time
Set date September	r 29, 2018		۲	Use network-provided time
			0	Use GPS-provided time
Set time 5:53 PM			0	Off
Select tin GMT+08:0	ne zone 10 China Standard Time		Select til GMT+08:0	me zone 00 China Standard Time
Use 24-h d 1:00 PM	our format		Use 24-h 1:00 PM	our format

Restoring Factory Settings

Tap **Backup & reset** on the Settings menu -> **Factory data reset** -> **RESET PHONE** -> **ERASE EVERYTHING**. Then the terminal will reboot itself with all settings restored to factory defaults.

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≡ Backup & reset	÷	Factory data reset	
Network settings reset		vill erase all data from your e's internal storage , including:	
DRM reset Deletes all DRM licenses	 Syst 	Google account em and app data and settings nloaded apps	
Factory data reset	• Mus • Phot	ic	
	• Othe		
		RESET PHONE	

Viewing Status Information

Tap **About phone** on the Settings menu -> **Status**. Then you can view the serial number, battery level, IP/ MAC/ Bluetooth addresses and SIM status.



GPS

Tap Location on the Settings menu -> turn Location on. Then you can use a third-party app to obtain location information.



NFC

NFC (Near Field Communication) is a short-range wireless connectivity technology which combines RFID and interconnection technologies. It operates on the 13.56MHz ISM band.

NÊ	* 📓 🖪 3:03	NÊ	*	🖹 🖡 3:03	NÊ		* 🛙	3:03
Setti	ngs Q	≡ Wireles	ss & network	s	÷	NFC		
-	times	Airplane mode				On		
Wireles	s & networks	NFC				data exchange w es another device		one
•	Wi-Fi Disabled	Tethering & porta	able hotspot		P2P m		-	
*	Bluetooth Enable	VPN			P2P m			
-	SIM cards	Cellular networks	S		Send o	r receive App conter	nt	
						id Beam to transmit app cont	tent via NFC	
0	Data usage 0 B of data used				Tag mo	ode		
	Mar				-			
	More					ading & writing rom or write to a tag		

Turn on NFC: Tap More on the Settings menu -> NFC -> turn NFC on.

Note: The NFC detection area of the N5S is located on the battery cover. To use the NFC feature, you need a NFC-enabled N5S and a battery that contains a built-in NFC antenna.



Wi-Fi Communications

Join a Wi-Fi network

- 1. Tap **Wi-Fi** on the Settings menu, and then turn Wi-Fi on to find available Wi-Fi networks. If Wi-Fi is already ON, then the terminal will automatically scan for available networks.
- 2. Tap a network and then enter the password.
- 3. Tap CONNECT.

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≡	Wi-Fi	🌣 :	TP-LINK_F856
	On	•	Security WPA/WPA2 PSK
	ChinaNet-xLYS		Password
T a	ChinaNet-xLYS-5G		
▼4	gwtbgs		CANCEL CONN
₹.	huatie		huatio 1 2 3 4 5 6 7 4
▼.	TP-LINK_F856		
▼.	WirelessAP2		asdfghj 🛧 zxcvbn
Ta	ChinaNet-GFS9		2123
			,

Set static IP address for a Wi-Fi network

- 1. Tap **Wi-Fi** on the Settings menu, and then turn Wi-Fi on to find available Wi-Fi networks. If Wi-Fi is already ON, then the terminal will automatically scan for available networks.
- 2. Tap a network.
- 3. Tap Advanced options then IP settings, and choose Static.

NB	💎 🖹 🖻 3:45	NB	💎 🖹 🖬 3:46	NÊ	💎 🖹 🖬 3:46
≡ Wi-Fi	\$	TP-LINK_F8	356	TP-LINK_F8	56
On		Security		IP settings	
TP-LINK_F856		Password		Static	•
Security WPA/WPA2 PSK				IP address	
Password				192.168.1.128	3
		Show passw	ord	Gateway	
		Advanced option	ns ^	192.168.1.1	
Show password		Proxy		Network prefix len	ngth
Advanced options	~	None	· ·	24	
		IP settings		DNS 1	
CANCEL	CONNECT	DHCP	· ·	8.8.8.8	1
WirelessAP2		Static	INECT	CAN	CEL CONNECT

Bluetooth Communications

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

Connect a Bluetooth device

- 1. Turn on the Bluetooth device and make it visible to the N5S.
- 2. Tap Bluetooth on the Settings menu, and then turn Bluetooth on to search for available Bluetooth devices.
- 3. Select the device from the search results to pair.
- 4. If prompted, input the pairing code and then tap **OK**; or if the pairing code is given automatically, then tap **PAIR**. When the device is paired with the terminal, the device name appears in the Paired devices list.
- 5. To disconnect a paired device, tap 🔹 next to the device name and then tap FORGET.





SIM Cards and Mobile Network

The N5S can also use 4G network to connect to the internet. To establish 4G connection, you must have a SIM card installed in your N5S.

On the N5S, both SIM slot 1 and SIM slot 2 support 4G networks. When two SIM cards are installed, you will be asked to select which SIM card to use for data connection.



Turn on/off SIM card(s)

Tap SIM cards on the Settings menu, and then slide the SIM slot 1/SIM slot 2 switch to the right/left to turn it on/off.

Select which SIM card to use for data connection/calls/SMS messages

Under Preferred SIM for, tap the setting you want to change and select the desired option.



Turn on/off cellular data

Tap **Data usage** on the Settings menu -> the desired SIM card -> slide the **Cellular data** switch to the right/left to turn on/off cellular data of the selected SIM.



Change APN settings

1. Tap More on the Settings menu -> Cellular networks -> the desired SIM card -> Access Point Names.

N 🖹 🦻 3G⊿ 10000 4G ⁴ ∕ 1 2 4:22	NÈ	¶? 30	G 🖌 VOLTE 4G 🚰 🚺 4:24
	÷	Cellular net	twork settin
Airplane mode	CHIN	IA TELECOM	СМСС
NFC		roaming ect to data services ng	when
Tethering & portable hotspot	Prefe	rred networks	
VPN	Prefe	rred network type	e
Cellular networks	4G (re	commended)	
	Use LT voice a	nced 4G LTE Mod E services to impro and other communi nmended)	ove 👝
	Acce	ss Point Names	
	Netwo	ork operators	

2. Tap the desired network. To edit an existing APN of the selected network, tap the desired APN on the list and then make

changes to the APN settings. To create a new APN, tap (), and then manually enter the APN settings. You can contact

your carrier or visit their website to get the APN settings. After finishing editing the APN settings, tap 🔋 then Save to save the settings.

N B ⊽ ← APNs	3G⊿ ₩0084G ⁴ 9⁄2 4:25 (+) ÷
CTNET ctnet	۲
CTWAP ctwap	0
IMS IMS	
E	Existing APNs

N 🕯 🖙	3G 🖌 WOLTE	4G* 1	4:29
Edit access	point		:
Name Not set			
APN Not set			
Proxy Not set			
Port Not set			
Username Not set			
Password Not set			

N 🕯 🗣	3G⊿I ₩	∎4G ⁴ 6 1⁄2 4:29
Edit access	Save	
Name Not set	Discard	
APN Not set		
Proxy Not set		
Port Not set		
Username Not set		
Password Not set		

Chapter 5 Using the Scanner

This chapter includes instructions for setting up the 1D/2D scanner as well as some scanning tips.

Configuring the Scanner

Start the scanner app



It includes scanner settings and scan test.



Scanner Settings

Enable/disable scan engine

Select/Unselect the Enable scan checkbox to enable/disable the scan engine.



Output Mode

The terminal provides three output modes: Simulate keystroke, Output via API and Fill in EditText directly.

- 1. Simulate keystroke: Output scanned data to keyboard buffer to simulate keyboard input.
- Character interval (ms): A character interval of 0-100 milliseconds may be placed between the transmission of each character of scanned data.
- 2. Output via API: Application acquires scanned data by receiving system broadcasts.
- 3. Fill in EditText directly: Output scanned data at the current cursor position in EditText.

Overwrite output: Clear the text input box before sending the barcode currently scanned to make sure only most recently scanned data is present in the text input box. This feature is available only when **Simulate keystroke** or **Fill in EditText directly** is selected.

Output enter-event: Send an Enter Key after each barcode scanned.



Scan Mode

The terminal provides three scan modes: Level mode, Continuous mode and Pulse mode.

- 1. Level mode: Press and hold the scan trigger to start a decode session which continues until the trigger is released or the decode session timeout expires or a barcode is decoded.
- 2. **Continuous mode:** Press the scan trigger to continuously read barcodes. To suspend or resume scan operation, simply press the scan trigger.

Scan interval (ms): This parameter sets the timeout between decode sessions.

3. **Pulse mode:** Press the scan trigger to start a decode session which continues until the decode session timeout expires or a barcode is decoded.

Decode session timeout (ms): This parameter sets the maximum time decode session continues during a scan attempt.

N		* 💎 🖹 🛿 2:56
<	Scanne	er
	Setting	Test
	Enable scan	
	Output Mode Fill in EditText direct	у
	Scan Mode	
A	Prefix & Suffix	
•	Good Read Indic	ator
	Encoding GBK	
	👔 data edit	

Prefix & Suffix

To set the prefix/suffix, enter the hexadecimal value of a desired prefix/suffix and then tap "OK". For example, if you want to add a Line Feed character after each barcode, enter "0A" under **Suffix (hex)**; if you want to add a Carriage Return character after each barcode, enter "0D" under **Suffix (hex)**.

N		* 🎔 🖹 🛿 2:56
<	Scann	er
	Setting	Test
	🖲 Enable scan	
	Output Mode Fill in EditText direct	ily
	Scan Mode	
A	Prefix & Suffix	
٩F	🖁 Good Read India	cator
	谢 data edit	

Good Read Indicator

The terminal can use sound/ vibration/ LED to indicate a good read. Choose one or more options as per your actual needs.



Encoding

Choose a character encoding to interpret barcode data.

- 1. UTF-8: Dominant Unicode encoding.
- 2. GBK: A character encoding for Chinese characters.
- 3. ISO-8859-1: A common character encoding which covers Western European languages.



Data Edit

This feature allows you to edit barcode data with a script.

Tap "load script" and then select the desired script file on the terminal, or scan the 2D barcode that contains a script, to load the script. Then select "exec script" and tap "OK".

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<	Scanr	ner		<	data edit	
	Setting	Test				
	Enable scan					
0	Output Mode Fill in EditText dire	ctly				
	Scan Mode					
	Prefix & Suffix					
·B	Good Read Ind	licator				load
	Encoding			load script	clear script	script
lar sa	GBK		_	exec script	:	
ľ	data edit			Cancel		ок

Symbologies

Note that supported symbologies depend on the scan engine integrated in the terminal. Here we will take CM48 for example.

1D code: Enable or disable 1D symbologies and set other barcode parameters.

2D code: Enable or disable 2D symbologies and set other barcode parameters.



Advanced: The features listed here are designed to improve the scanning performance and energy efficiency of the terminal.

1. **Central area decoding:** When selected, the terminal only decodes the barcode aimed squarely by the aiming pattern. It is advised to select it to insure that only the desired barcodes are read if multiple barcodes are placed closely together.

2. Other: Tap DETAIL to access the following parameter settings.

Noise reduction: This feature is designed to reduce noise in images produced by the terminal. However, the terminal shows a slight decrease in scanning speed when using this feature. It is recommended to enable it only when necessary. **Exposure level:** Three levels are provided.

Low: Select this option when scanning barcodes under normal conditions.

Middle: Select this option when scanning low contrast barcodes and requiring a larger DOF (depth of field).

High: Select this option when scanning barcodes in a very bright environment while the images captured are dim. **Power plan**: Two options are provided.

Power saving: The terminal's built-in scanner turns off automatically after 3 seconds of inactivity.

High-performance: The terminal's built-in scanner turns off automatically after 15 seconds of inactivity.

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< 8	Symbolog	ies
1D code	2D code	Advanced
Centra	al Area Deco	ding
Other		DETAIL

Scan Test

After finishing setting the scanner, you may test the scanning performance of your terminal.

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< Scanner	
Setting	Test
Clear	
Clear	

Scanning Tips

Scanning 1D Barcode

When scanning a 1D barcode, adjust the scan angle or the distance between the N5S and the target barcode to ensure the length of aiming beam is roughly 8mm greater than that of the barcode, as shown below.





Correct	Wrong

Scanning 2D Barcode

When scanning a 2D barcode, adjust the scan angle and the distance between the N5S and the target barcode to make them fall into the following ranges:

- 1. Point the N5S's scanner at the center of the barcode.
- 2. Move the terminal until you find the appropriate scan distance.
- 3. Optimum scan angles:

Skew (α)< 45° (0° preferably) Pitch (γ)< 45° (5°- 20° preferably) Roll (β)= 0° - 360°


Chapter 6 System Security

This chapter includes instructions for configuring system security settings, including app installation management and phone/sms whitelist. It is advised that only administrators should be allowed to modify these settings.

Open System Security Settings

On the home screen, tap the app icon S. Then use the on-screen keypad to enter the password (Please contact the technical support to obtain the password) to open the System Security Setting screen.

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				System Security	Setting
				phone setting	
				sms	
				phone whitelist set	ting
		×		sms whitelist settir	ng
1	2 ABC	3 DEF		security setting	
4 дні	5 JKL	6 MNO		bootcartoon setting	g
7 PQRS	8	9 wxyz		Keylayout Setting	
*	Û,	#		CombinationKey Se	etting

Phone setting

This setting is used to enable or disable phone feature and incoming/outgoing phone calls.

SMS

This setting is used to enable or disable SMS feature and incoming/outgoing messages.

Phone/SMS whitelist setting

This setting is used to enable or disable phone/SMS whitelist feature and set a white list of phone numbers from which you want to receive calls/messages.

Security setting

This setting is used to manage/control:

- ADB PUSH/PULL (ADB PUSH on/ADB PULL on): When disabled, you cannot use the push/pull command to copy files to/from the N5S.
- 2. App installation (install app on): When disabled, you cannot install any application onto the N5S.

- 3. Notification bar pull-down (State bar drop down): When disabled, you cannot pull down the notification bar at the top of the screen.
- 4. Network security (net security setting): This allows you to enable or disable website whitelist feature and set a list of approved websites.

Boot animation setting

This setting is used to choose a boot animation from the list.

Keylayout setting

This setting is used to redefine/remap any key on the N5S.

e.g. To remap the OK key to a SCAN key, you should tap Keylayout Setting then Load Keylayout, tap and hold on OK (select the key you want to remap), tap SCAN R (select the key to which you want to remap the OK key) then OK, and then tap save.





* 💎 🖹 🖪 2:51

ULL

ENTER

TAB

VOL_D

SCAN R

SHIFT

J

6

9

#

Cancel



CombinationKey setting

This setting is used to remap a key combination to a single key.

e.g. To remap the combination of Shift+1 to the A key, you should tap **CombinationKey Setting**, tap and hold on 1, select

the Shift checkbox, tap KEYCODE_A then OK, and then tap save.



I. If yo	out setting de u want to res tore button.		ayout, please	click
o set t		e layout, Plea	Vol down/ So se Click the s	
	BACK	DEL	ок	
	CAI	LL ENDC	ALL	

a.	2:01
🤯 Key 8 <	->1 Key Setting
Please select t	he combination key
Ctrl	fundation in the second
📝 Shift	
Alt	A Broketa
	ne key you want, then utton to confirm or Cancel iss:
KEYCODE_0	
KEYCODE_1	
KEYCODE_2	
KEYCODE_3	
KEYCODE_4	
KEYCODE_5	

Nâ	マ 🖹 🛿 2:01
🤿 Key 8 <> 1	
KEYCODE_6	
KEYCODE_7	
KEYCODE_8	
KEYCODE_9	
KEYCODE_A	
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KEYCODE_F6	
KEYCODE_F7	
KEYCODE_F8	
KEYCODE_F9	
KEYCODE_F10	
KEYCODE_F11	
KEYCODE_F12	
Key KEYCODE_A ha	as been selected
ок	Cancel



Chapter 7 System Update

This chapter introduces two methods to update the system software of the N5S: Online update and offline update.

Online Update

- 1. Connect the terminal to a Wi-Fi network.
- 2. Tap the app icon 🧛 -> About phone -> System updates.



Offline Update

- 1. Contact the technical support to get the N5S OTA update zip file.
- 2. Make sure your terminal has more than 30% battery.
- 3. Connect the terminal to PC with the included USB cable. Swipe from top to bottom with one finger in one smooth motion to open the notification bar. Tap **USB for file transfer**. Then Select **Transfer files**.



4. Locate the N5S drive on PC and then copy the N5S OTA update zip file to the root of the N5S drive. Remove the USB cable from the N5S.



- 5. Turn off the N5S.
- 6. Press and hold the Power key, Volume- key and left SCAN key on the N5S at the same time until the terminal displays the system recovery screen.



7. Use the Volume+/Volume- key to position the cursor on **Apply update from SD card** on the menu, then press the Power key.



- 8. Use the Volume+/Volume- key to position the cursor on the N5S OTA update zip file, then press the Power key to start the update.
 - Android Recovery alps/full_hct6737t_66_n/hc 7.0/NRD90M/1537413330 user/test-keys Use volume up/down and pow Choose a package to instal /sdcard .../ full_hct6737t_66_n-ota-15 Alarms/ Android/ DCIM/ Download/ Movies/ Music/ Notifications/ Fictures/
- 9. Wait for the update to complete. After the update is done, the N5S will automatically reboot.



Chapter 8 Maintenance & Troubleshooting

This chapter includes important safety and handling information and provides troubleshooting solutions for issues that might occur when using the terminal.

Important Safety & Handling Information

Disassembly and Retrofit

Do not attempt to disassemble or retrofit the terminal yourself. Unauthorized disassembly or retrofit will void the warranty.

External Power Supply

Use only the included AC adapter. Otherwise there is a risk of damage to the terminal.

Abnormal Situation

Keep the terminal away from fire or heat sources. If there is unusual odor, overheating or smoke during charging, immediately cut off the power and disconnect the AC adapter, and contact your dealer or Newland customer service center. Continued use in this case may result in fire or electric shock.

Drop Damage

If the terminal is damaged due to a drop from high place, immediately cut off the power and contact your dealer or Newland customer service center.

LCD Screen

Do not press against or strike the LCD screen. Otherwise it may damage the screen. When handling a cracked or shattered screen, do not touch the liquid that has leaked from it to avoid skin burn or infection.

Stacking Heavy Objects

Do not place heavy objects on the terminal as those objects may fall and cause injury.

Electronic Device

Switch off the terminal near high-precision electronic devices. The terminal may affect the performance of these devices.
Such devices include hearing aids, pacemakers, fire alarm systems, automatic gates, and other automatic control

devices. If you are using an electronic medical device, consult the device manufacturer to confirm whether the radio wave affects the operation of this device.

Pacemaker manufacturers recommend that a minimum distance of 15cm be maintain between a device and a pacemaker to prevent potential interference with the pacemaker. If you have a pacemaker, use the terminal on the opposite side of the pacemaker and do not carry the terminal in your front pocket.

Hospital

- ♦ Do not take the terminal into the operating room (OR), intensive care unit (ICU), or coronary care unit (CCU).
- Follow rules and regulations set forth by hospitals and health care facilities. Do not use the terminal when it is prohibited.
- When using the terminal near someone who is suffering from a heart disease, turn down the ring tone volume or vibration properly so that it does not affect the person.

Area with inflammables and Explosives

In any area with inflammables and explosives, turn off the terminal and do not take out, install or charge the battery, to avoid explosion and fire. Areas with inflammables and explosives include, but are not limited to:

- ♦ Gas stations
- ♦ Area for storing fuels (such as the bunk under the deck of a ship)
- ♦ Device/vehicle for transporting and storing fuels or chemical products
- ♦ Area with chemical substances and particles (such as granule, dust, metal powder) in the air
- ♦ Area with the sign of "Explosives"
- ♦ Area with the sign of "Turn off bi-direction wireless equipment"
- ♦ Area where it is generally suggested to turn off a vehicle engine

Traffic Safety

- Please observe local laws and regulations on wireless device use. Do not use the terminal while driving to avoid traffic accident. Secure the terminal on its holder. Do not place the terminal on the seat or other places where it can get loose in a sudden stop or collision. Use the terminal after the vehicle stops at a safe place.
- Do not place the terminal over the air bag or in the air bag deployment area. Otherwise, the terminal may hurt you owing to the strong force when the air bag inflates.
- Observe the rules and regulations of airline companies. When boarding or approaching a plane, turn off the terminal and remove the battery. In areas where wireless device use is prohibited, turn off the terminal. Otherwise, the radio signals of the terminal may disturb the plane control signals.

Storage Environment

Do not place magnetic storage media such as magnetic cards and floppy disks near the terminal. Radiation from the terminal may erase the information stored on them.

- Do not put the terminal, battery, or charger in containers with a strong electromagnetic field, such as an induction cooker and a microwave oven. Otherwise, circuit failure, fire, or explosion may occur.
- Do not leave the terminal, battery or charger in a very hot or cold place. Otherwise, malfunction of the terminal, fire or explosion may occur.
- ♦ Keep the ambient temperature between 0°C and 45°C while the terminal is being charged. Keep the ambient temperature between -20°C and 60°C for storing the battery. Extreme temperatures may reduce the capacity and lifetime of the battery. Battery performance is particularly limited in temperatures below 0°C.
- Do not place sharp metal objects such as pins near the earpiece. The earpiece may attract these objects and hurt you when you are using the terminal.
- Do not subject the terminal, battery, and charger to serious collision or shock. Otherwise, battery leakage, terminal malfunction, overheat, fire, or explosion may occur.
- ♦ Do not put the terminal in the back pocket of your trousers or skirt, to avoid terminal damage while seated.

Operating Environment

- Do not use the terminal in dusty, damp, and dirty places or places with magnetic fields. Otherwise, malfunction of the circuit may occur.
- ♦ Do not turn on or off the terminal when it is near your ears to avoid negative impact on your health.
- When carrying or using the terminal, keep the antenna at least one inch (2.5 centimeters) away from your body, to avoid negative impact on your health caused by radio frequency leakage.
- Move the terminal away from your ear while using the "hands-free" mode as the amplified volume might cause hearing damage.
- \diamond Do not use the flash in close proximity to people or animals.
- On a thunder stormy day, do not use the terminal outdoors or when it is being charged, to prevent any danger caused by lightning.
- \diamond The terminal may interfere with nearby TV sets, radios and PCs.
- In accordance with international standards for radio frequency and radiation, use terminal accessories approved by the manufacturer only.
- ♦ While using the terminal, observe the local laws and regulations, and respect others' privacy and legal rights.

Cleaning and Maintenance

- ♦ Before cleaning or maintaining the terminal, turn off the terminal and disconnect it from the charger. Otherwise, electric shock or short-circuit of the battery or charger may occur.
- Do not use any chemical detergent, powder, or other chemical agent (such as alcohol and benzene) to clean the terminal and the charger. Otherwise, parts of the terminal may be damaged or a fire can be caused. The terminal can be cleaned with a soft antistatic cloth.

- Do not scratch the shell of the terminal. Otherwise, the shed coating may cause skin allergy. Once it happens, stop using the terminal at once and go to see a doctor.
- ♦ If the terminal or any of its accessories does not work, turn to the local authorized service center for help.

Battery Safety Guidelines

- ♦ Do not dispose of batteries in a fire as they may explode.
- ☆ The battery can be charged and discharged over 500 times. If the battery life is unreasonably short, please replace the battery with a new one.
- ♦ Use only the included battery and AC adapter.
- Do not continue to charge a battery that is fully charged. Overcharging will shorten battery lifespan. If a fully charged battery is not used, it will discharge slowly, which does not affect its normal use.
- ♦ Do not use damaged or faulty AC adapters or batteries.
- ♦ Properly dispose of and recycle batteries. Do not dispose of them as household garbage.

Repair

- If the terminal is subjected to drop damage or water damage, or its LCD screen is broken and leaking fluid, immediately cut off the power r, and contact your dealer or Newland customer service center.
- Do not attempt to disassemble the terminal or its accessories yourself. Only authorized repair stations are allowed to repair the terminal.

Troubleshooting

Problem		Reseited October & October
Туре	Description	Possible Cause & Solution
		1. Ensure the terminal is switched on.
		2. If the terminal is in sleep mode, press the Power key to wake it up.
		3. Check the battery level. If the battery is depleted, recharge it.
	No display	4. Ensure that the battery is properly installed.
		5. Replace the battery if it is faulty.
LCD		6. If the problem still remains, contact the after-sales service center to arrange
screen		a repair.
	Black lines, white spots	This problem may be due to an external force hitting the screen. Please contact
	Didek intes, write spots	the after-sales service center to arrange a repair.
		This problem may be due to loose connection between LCD screen and
	Blurry screen	mainboard or a faulty LCD panel. Please contact the after-sales service center
		to arrange a repair.
		1. Check the battery level. If the battery is dead, recharge it for 15 minutes before
	Will not turn on	turning it on.
		2. Replace the battery if it is faulty.
		3. Ensure that the battery is properly installed.
Battery	Will not charge	1. Check if AC adapter and/or the USB port on the terminal are damaged.
	Will flot charge	2. Replace the battery if it is faulty.
	Shorter battery life between	1. Replace the battery.
	charges	2. If the problem still remains, please contact the after-sales service center to
	charges	arrange a repair.
		1. There may be some system failure. Restart the terminal to fix it.
	No illumination beam	2. If the problem still remains, please contact the after-sales service center to
		arrange a repair.
Barcode	Cannot read barcode	1. Check if the window at the top of the terminal is broken. If yes, contact the
scanning	(though there is illumination	after-sales service center to arrange a repair.
	beam)	2. There may be some system failure. Restart the terminal to fix it.
		3. There may be something wrong with the scanner. Please contact the after-
		sales service center to arrange a repair.
	Unresponsive key(s)	This problem may be due to loose connection between key(s) and mainboard.
Keyboard		Please contact the after-sales service center to arrange a repair.
Reybourd	Incorrect response to any	1. Check if this problem is caused by third-party app(s).
	key entry	2. Restore the terminal to factory default settings.

	Unresponsive touch screen	This problem may be due to loose connection between touch panel and
Tauah		mainboard or a faulty touch panel. Please contact the after-sales service center
		to arrange a repair.
Touch screen	Touch screen randomly	1. Check if this problem is due to a slow system that is caused by third-party
Scieen		app(s).
	becoming partially	2. Touch panel may be damaged. Please contact the after-sales service center
	unresponsive	to arrange a repair.
System	Will not turn on	1. Check if this problem is caused by the battery.
		2. Update the system.
	Restart randomly	1. Check if this problem is caused by the battery.
		2. Update the system.
	System halted	1. This problem may be caused by third-party app. Restore the terminal to
		factory default settings to fix it.
		2. Update the system.

Chapter 9 System Customization and Software Development

This chapter provides information about some common customization requests for the N5S.

System Customization

We welcome N5S customization requests, including:

- 1. Redefine keys
- 2. Customize boot/shutdown animations
- 3. Preinstall business apps
- 4. Disable notification bar pull-down
- 5. Restrict phone/messaging functionalities
- 6. Third-party app installation/uninstallation privilege management
- 7. Business app exiting privilege management
- 8. Preinstalled app management, such as remove/add preinstalled apps
- 9. Physical numeric keyboard output control

If you have other customization needs, please contact the technical support.

Software Development

See N5S SDK Handbook.



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