



SD100 ORION PLUS

Speedata

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

Do not disassemble the device or remove the seal label from the device; doing so will void the product warranty provided by Newland Europe BV.

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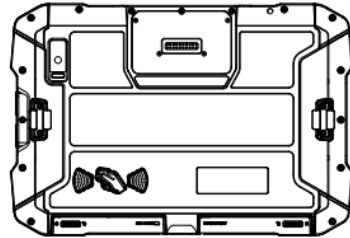
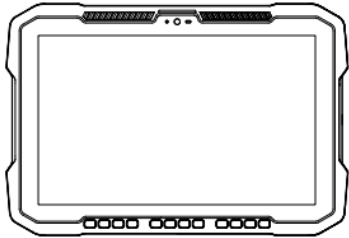
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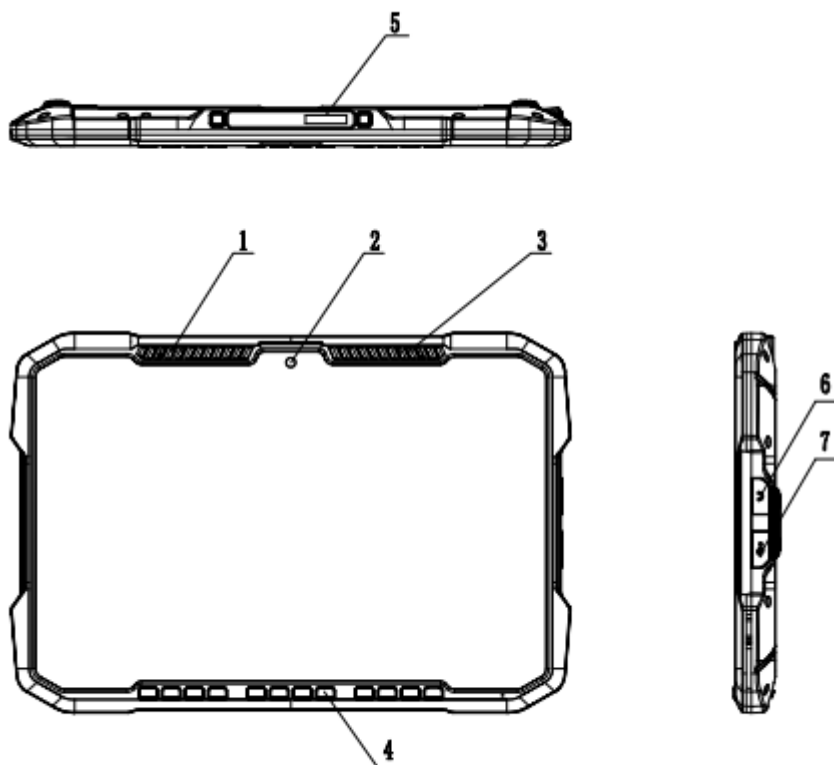


catalogue

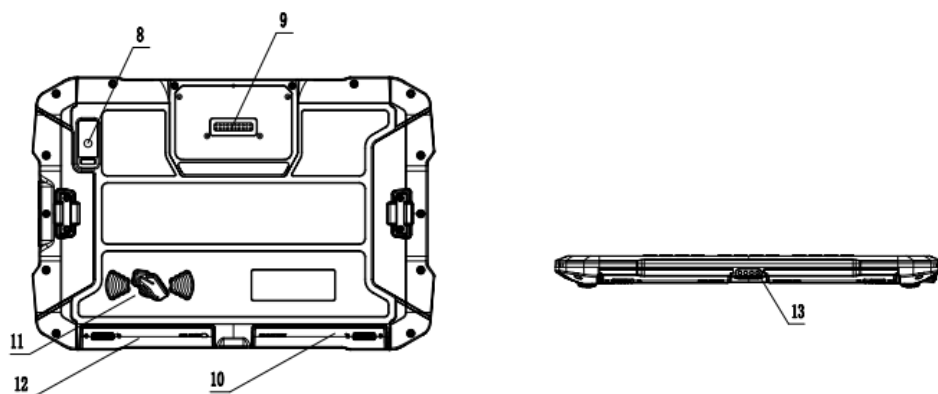
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Product appearance





1	Speaker	2	Front camera
3	Speaker	4	Function keys
5	Scanner	6	headphone jack
7	USB-C port		

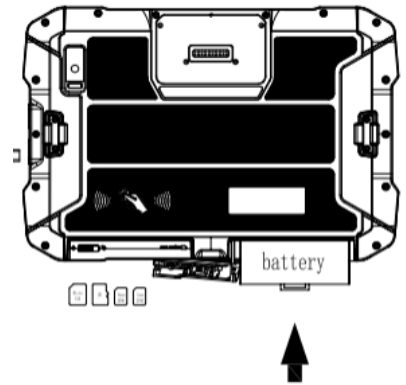


8	Rear camera	9	Connectors for expansion modules
10	Battery	11	NFC
12	SIM/ TF card slots	13	Connector for Dock

Basic usage

1. Replace SIM TF card

- 1.1 The device should be turned off before inserting the card.
- 1.2 Open the SIM/TF card slot on the left side of the main unit and insert the SIM/TF card.
- 1.3 When inserting the card, please pay attention to the direction of the card notch. Inserting non-standard cards may cause damage to the SIM and TF card sockets of the device.
- 1.4 The device supports two standard Nano SIM cards, but the device cannot have two telecom cards supporting 4G network connection at the same time. When installing two telecom cards at the same time, only one card can use the 4G network, and the other card will not be able to register for the 4G network.



2. Replace the battery


- 2.1 The device should be turned off before replacing the battery
- 2.2 Open the battery lock on the lower right side of the body
- 2.3 Pull out the battery compartment cover
- 2.4 Pull out the battery for replacement

Turn on or off the device


To turn on the device, please press and hold the power button for a few seconds.

Press and hold the power button until you feel the vibration before releasing it. If the device is out of battery, the screen will not light up after vibration, or an indicator icon will appear on the screen indicating low battery after vibration.

To turn off the device, please follow these steps:

Press and hold the power button for a few seconds, then click the "Power Off" icon on the screen to turn off the power. 

reboot device

Press and hold the power button for a few seconds, then click the "restart" icon on the screen to power on. 

Tip: Before turning on your phone, please charge the device first. Understand how to charge.

△ Force restart

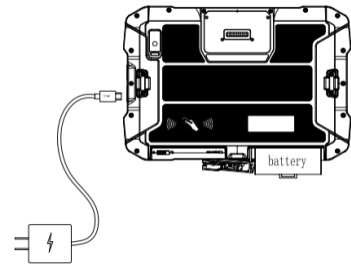
Press and hold the power button on the phone for approximately 10 seconds, or until the phone restarts.

Charge the device

Charge using a USB-C data cable. For optimal results, please use the included power adapter. If your phone cannot be charged properly.

Over time, the performance of lithium-ion batteries in devices may decrease due to usage patterns, temperature, and battery usage time.

Tip: It is recommended to charge inventory devices every three months to avoid battery failure due to self discharge, and store the devices in a dry and cool environment.



Check the battery level of the device

You can check the remaining battery level of the device. When charging, you can check how long it will take for the battery to fully charge.

Display battery level percentage in the status bar

Open the "Settings"  app on the device.

Select 'Battery'

Turn on the battery power percentage.

Check battery life and usage status

Open the "Settings" app on the device.

Under 'Battery', check the remaining battery level and approximately how much longer it can last.

To learn more, please click on the battery.

To view charts and lists about battery usage, click on Battery Usage.

To view or change the power consumption of the listed applications, click on the corresponding application.

For certain applications, you can enable or disable background restrictions.

For all applications, it is recommended that you keep the battery optimization function turned on.

To view the power consumption of both services and applications simultaneously, please click on the system power consumption for the past 24 hours.

Note: Due to rounding of the listed power consumption, the total sum may not equal 100%.

Check the time required for the battery to fully charge

After connecting the device to the charger, please wait for a moment and observe the charging speed of the device.


Open the "Settings" app on the device.

Under 'Battery', check the remaining battery level and the time required for the battery to fully charge.

WLAN and mobile network

Connect to WLAN network


Slide down from the status bar to open the notification panel.

Press and hold to  enter the WLAN settings interface.

3. Turn on the WLAN switch. The system will list the detected WLAN networks in a list format. Click on the WLAN network you want to connect to. If an encrypted network is selected, an access password is required to connect.

Connect to mobile data network/change mobile network settings

Slide down from the status bar to open the notification panel.

Click to  activate the mobile data network.

When you are not using mobile networks, please promptly turn off mobile data services to save data traffic and extend standby time.

Open the "Settings" app on your phone. 5 Tap Network and Internet SIM cards. Press the corresponding settings at 6 o'clock. Tip: To reset all your network settings, please click on the System Advanced Reset option in the "Settings" app on your phone to reset WLAN, mobile data network, and Bluetooth settings. Mobile data: Enable or disable mobile data. Roaming: When you leave the area covered by your own carrier network, your phone can send data through other carrier networks. Application traffic usage: Understand how to view the mobile data usage of an application. Data Traffic Warning and Cap: Learn how to reduce the consumption of mobile data traffic. Preferred network type: Select the preferred network type from options such as LTE/WCDMA.

Network: Select your network operator from the available networks. Access Point Name (APN): Helps your carrier determine the correct IP address of your phone and securely connect it to the network with multiple SIM cards and mobile network settings

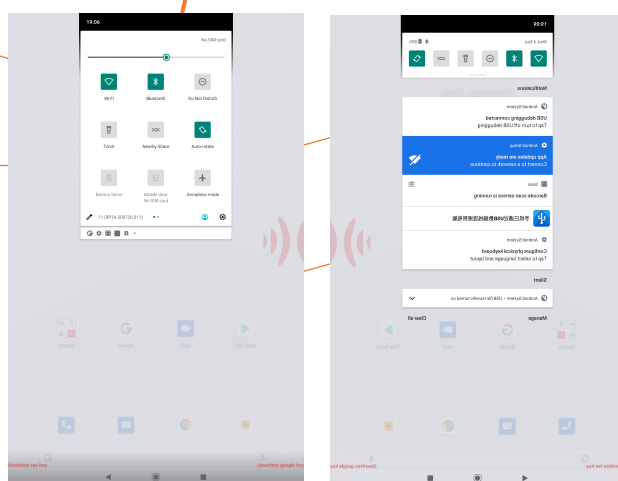
Set the default SIM card for connecting to mobile data networks, making and receiving calls, and sending and receiving text messages. Open the "Settings" application. Tap Network and Internet SIM Card Your Network. Set your preferences for each network: Mobile data: Enable mobile data. Important note: You can only set one SIM card as the default SIM card for connecting to mobile data networks. If you have already set up a SIM card, the system will notify you. Call: Click on Call Preferences, then select your default carrier, or click Ask Me Every Time. SMS: Click on SMS preference settings, then select your default carrier, or click Ask Me Every Time.

Main screen

Touch the top of the screen and slide down to open the notification bar. You can click on various shortcut function icons to turn on or off corresponding functions such as WLAN, Bluetooth, etc. Unprocessed notification items can be expanded by double clicking, viewed by touching, or removed by swiping left or right.

Brightness: Slide left and right to adjust screen brightness

WLAN
Turn on/off
Wi Fi
portrait
Vertical and

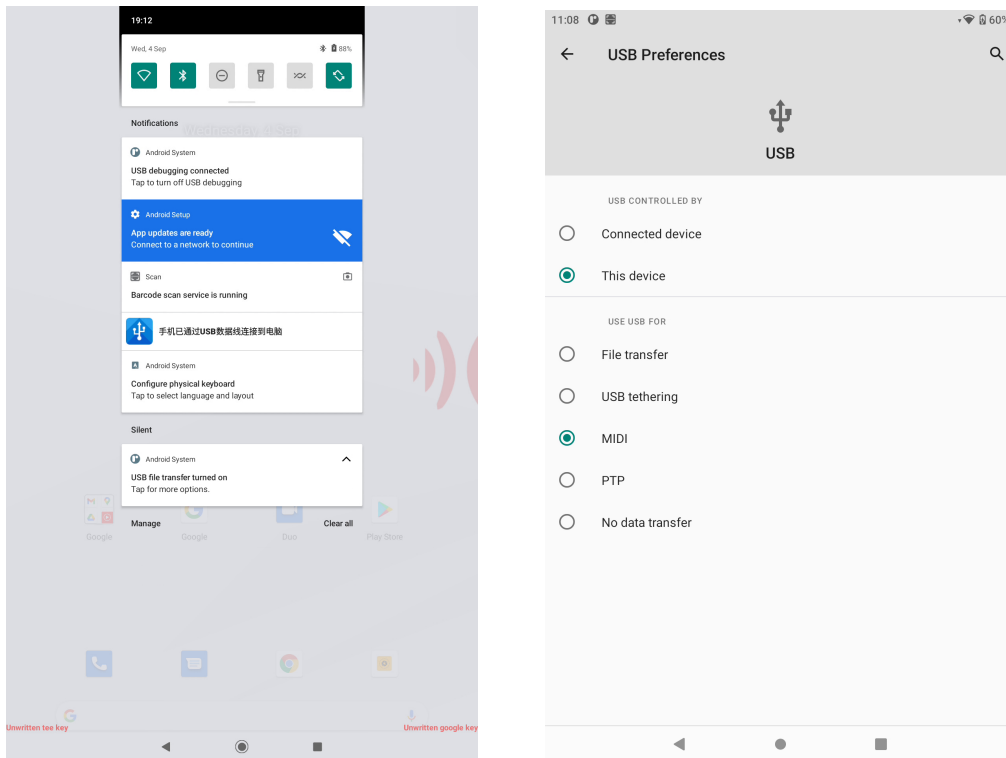


mobile data
Connect
mobile data

Horizontal/Vertical Screen Automatic
switch
set up
Enter the system settings interface

Host communication


Connect your phone and computer through a USB cable. After the driver program on the computer is automatically installed, a drive letter named after the phone will appear. Slide down the notification panel from the status bar at the top of the phone screen, click on Settings>View More Options, and select the appropriate USB connection method to exchange data:

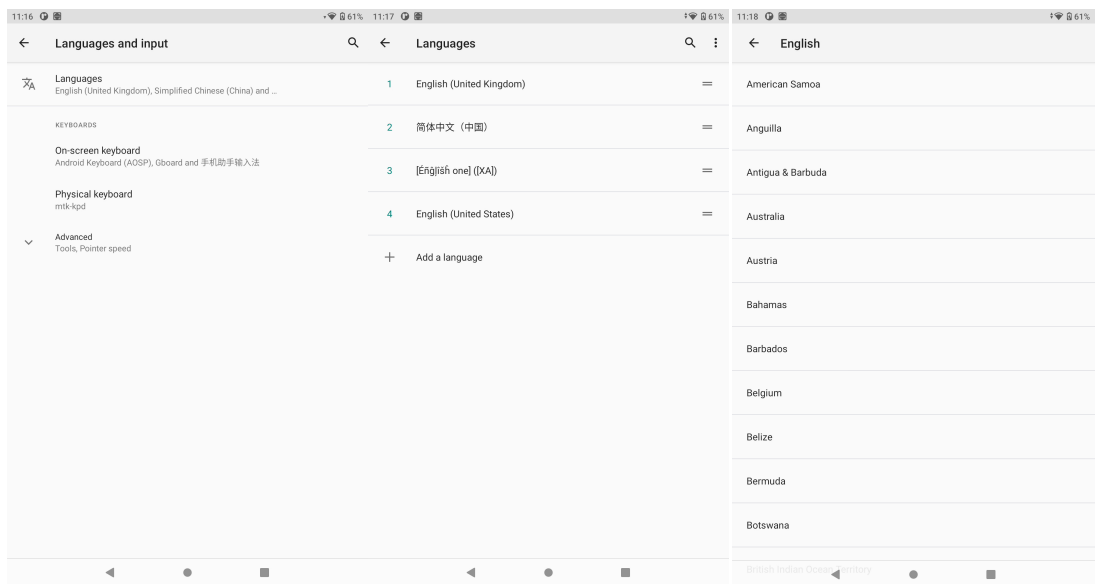
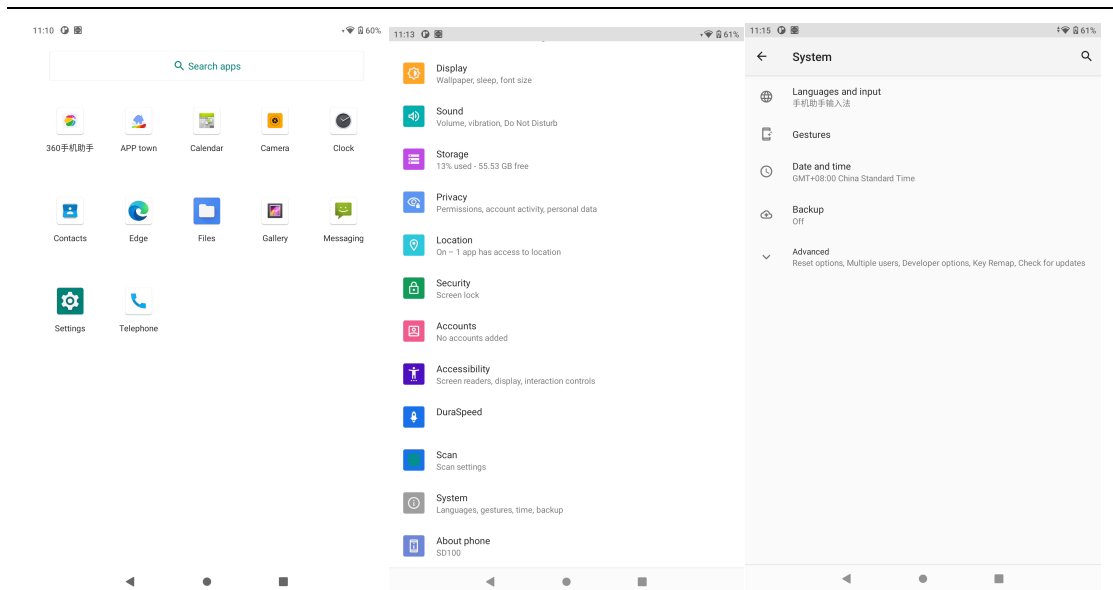


- Transfer photos: Use PTP (Picture Transfer Protocol) to transfer photos between your phone and computer. In the newly appearing drive letters on the computer, you can view and copy pictures from your phone to the computer. You can also copy computer images to the phone drive letter.
- Transfer files: Transfer files between mobile phones and computers through the MTP (Media Transfer Protocol) protocol. In the newly introduced drive letters on the computer, you can view and copy files from your phone to the computer. You can also copy computer files to the phone drive letter. After a successful connection, you can also use Windows Media Player to view media files on your phone.
- MIDI: Use your phone as a MIDI (Musical Instrument Digital Interface) input device to play music on a computer.
- Connect USB devices without relying on a computer, and read data from other USB storage devices such as USB flash drives and card readers through a USB OTG data cable.

Set language

The default display language of the system is Chinese. If you choose another language, follow the steps below to add the corresponding language.

2. Open  Settings, click System>Languages&Input>Languages>+Add a language, select the language you want to add, drag and drop the language you want to change to the first place, and the change is complete.



Set scanning function

1. Click on "Settings" - "Scan" to enter the scanning settings.

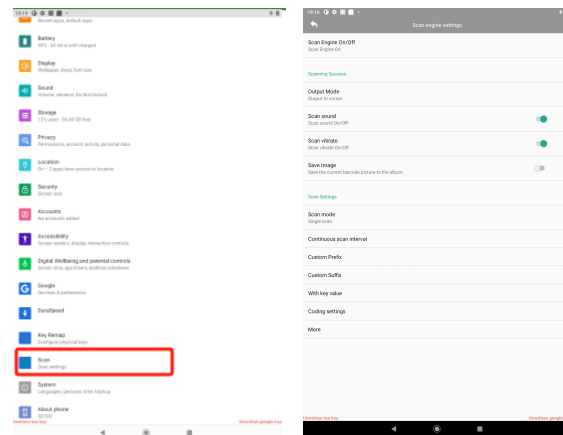
Activate Quick Scan: Turn on/off the barcode quick scan function.

Focus display: Turn on/off the display of scanned and decoded barcode results at the focus.

Prompt sound: A prompt sound is emitted after the barcode scanning is completed.

Vibration: After barcode scanning is completed, a vibration prompt will be issued.

Save Image: Save the scanned and decoded barcode image to the album.



2. Scanning mode:

The device has three built-in scanning modes. To select your favorite quick scanning mode, you need to turn on/off the "Enable Scan" button again to make it effective.

- 2.1 Long press and scan:

In this mode, press and hold the scan button to turn on the scanning laser, and release it to automatically turn off the scanning laser. If the barcode is successfully scanned while holding down the scan button, the scanning laser will be repeatedly turned on.

- 2.2 Single scan:

In this mode, press the scan button to turn on the scanning laser. If the barcode is successfully scanned, the scanning laser will automatically turn off. If the barcode is not scanned within 10 seconds after releasing the scanning button, the scanning laser will automatically turn off, or press the scanning button for 1 second and release the laser to automatically turn off.

- 2.3 Click to scan:

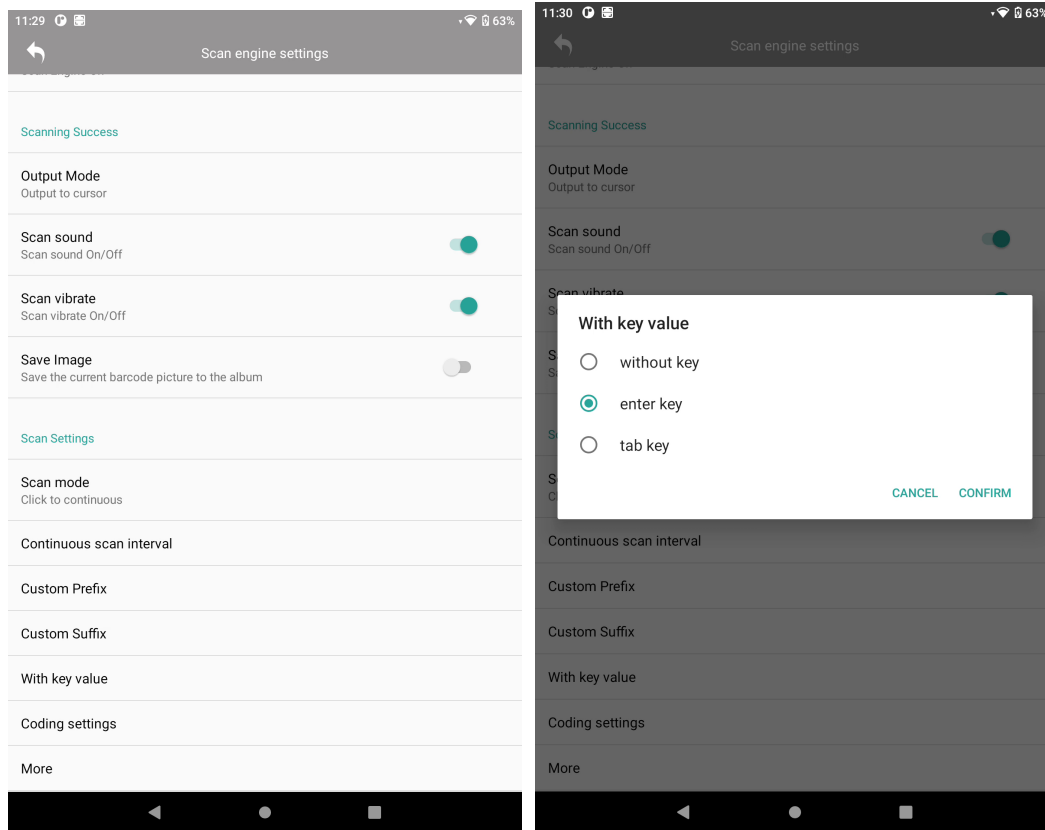
In this mode, press the scan button to turn on the scanning laser. After successfully scanning the barcode, the scanning light will not turn off and will continue to scan. Press the scan button again to turn off the scanning laser.

- 2.4 Continuous scanning interval time

Set the continuous scanning interval (ms).

3. Attached key value:

Attach special keys such as "Enter" and "Line Break" after the output barcode.



3. 1 Add custom prefix:

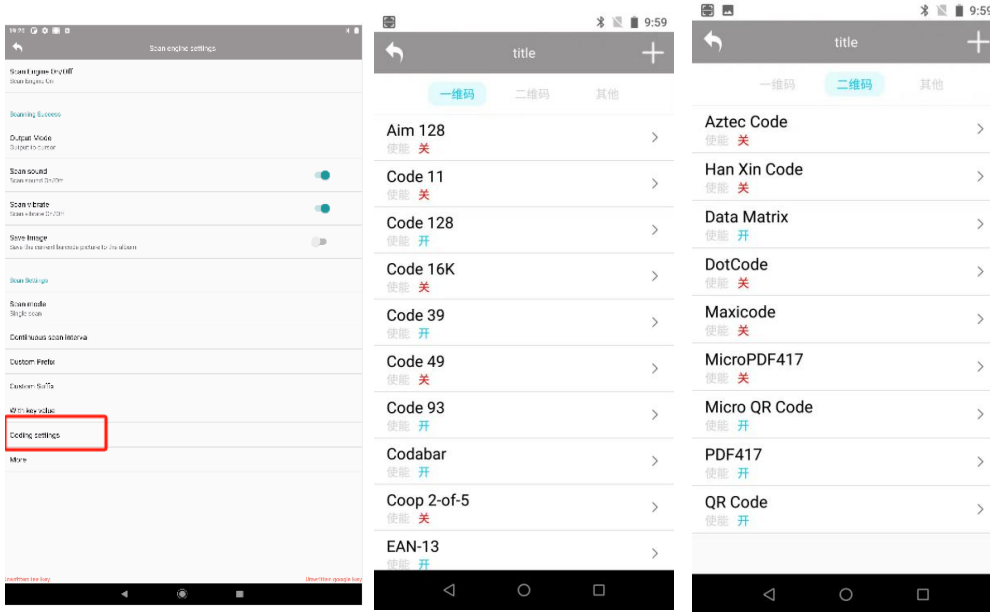
Add custom characters, numbers, letters, etc. before the output barcode.

3. 2 Add custom suffix:

Add custom characters, numbers, letters, etc. after the output barcode.

4. Code system setting:

Used to configure the corresponding barcode parameters for one-dimensional and two-dimensional barcodes.

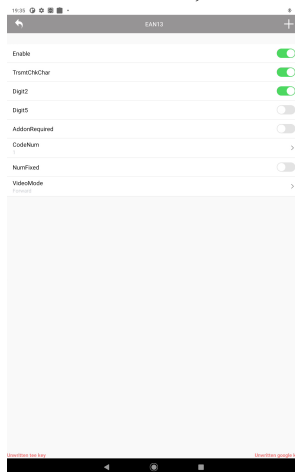


4.1 EAN-13 setting

Select one-dimensional code-EAN-13 enable, scan the "EAN-13" barcode and scan the result with one digit missing.

You can select "EAN-13", check "Send Verification", and the scan result will display normally; Settings can be made on this page according to specific needs.

Example: The EAN-13 barcode is 6456813472345, and if the "send verification" function is not enabled, the scanning result is 645681347234; After enabling 'send verification', the scanning result is 6456813472345.



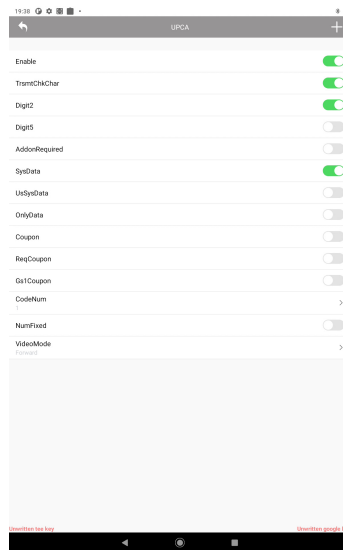
4.2 UPC-A

Select one-dimensional code-UPC-A - enable, scan the "UPC-A" barcode and the result will be one less digit.

You can select "UPC-A", check "Send Verification", and the scan result will be normal. Settings

can be made on this page according to specific needs.

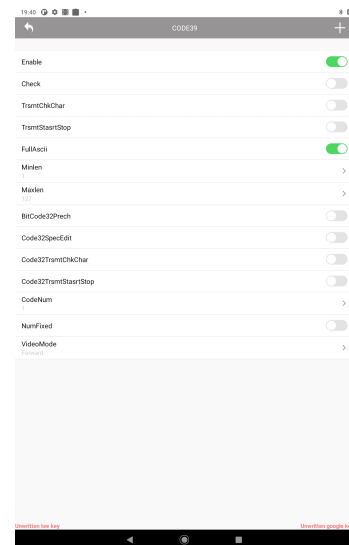
Example: The UPC-A barcode is 123456789012, and if "send verification" is not enabled, the scanning result is 12345678901; After enabling 'send verification', the scanning result is 123456789012.



4.3 Code39 settings

Select one-dimensional code-Code39, turn on the start and end symbols for transmission, and a "*" will be added before and after the barcode, which can be set on this page according to specific requirements.

Example: The barcode for Code39 is ABCDEF, and the scan result is ABCDEF if the "transmission start and stop symbols" are not enabled; After enabling the 'transmission start and stop symbols', the scanning result is * ABCDEF *.



5. More settings

Click on "Settings" - "Scan" and slide to the bottom, then click on "More"

Check for updates: Display the scanning head model, and click on the device networking button to check if the device has a new version, which can be updated online.

Note: Checking for updates requires scanning service version 5.1 or above to support.

5.1 Custom Broadcast: Action: Used to set up custom broadcasts.

5.2 Custom Broadcast Barcode Content: Key: Used to set the content of the custom broadcast barcode.

5.3 Custom Broadcast Barcode Type: Key: Used to set the type of custom broadcast barcode.

5.4 Simulated keyboard output results:

Output virtual keyboard, not suitable for Chinese and not used simultaneously with focus display.

5.5 Overlay the previous scan result:

Delete the original barcode content of the focus and add the newly scanned and decoded barcode content.

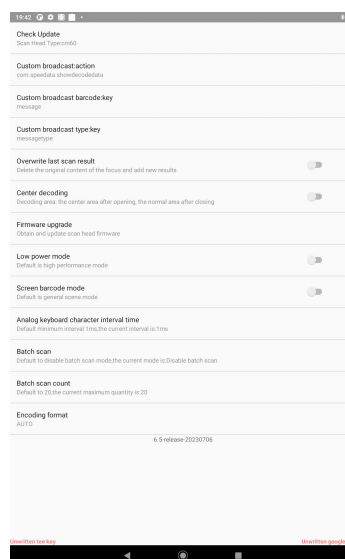
5.6 Central decoding:

Decoding area: When turned on, it is the central area, which means that when scanning dense barcodes, the barcode result at the center position of the laser is scanned and output; After closure, it becomes a normal area.

5.7 Firmware Upgrade:

Click on the device networking button to obtain and update the scanning head firmware.

Note: Please use the firmware upgrade function under the guidance of the manufacturer and do not attempt it yourself.



original text	explain
Scan Engine On/Off	Turn on the switch of the scanning module, press and hold the scanning keys on both sides of the body to trigger barcode scanning.
Out to Cursor	Display the scanned and decoded barcode results at the focal point
Scan Sound	Sound prompt after barcode scanning is completed
Scan Vibrate	Vibration prompt after barcode scanning is completed
Save Image	Save the scanned and decoded barcode image to the album
Scan Mode	Select the working mode after triggering the barcode with the button
Continuous Scan Internal	The time interval between consecutive scans
With Key Value	Attach special buttons after the output barcode, such as "Enter" and "Line Break"

Custom Prefix	Add custom characters, numbers, letters, etc. before the output barcode
Custom Suffix	Add custom characters, numbers, letters, etc. after the output barcode
Codding Setting	Configure barcode parameters corresponding to one-dimensional and two-dimensional barcodes

How to minimize energy consumption to the greatest extent possible

1. Timely unplug the power cord: After the battery is fully charged, unplug the charger in a timely manner to avoid prolonged charging that may cause the battery to overheat and affect its lifespan, while also reducing unnecessary energy consumption.
2. Reasonably adjust screen brightness: Adjust the screen brightness according to the usage environment, reduce the brightness appropriately in areas with sufficient light, and avoid excessive brightness in dim environments to save power.
3. Close unnecessary background programs: Multitasking can increase the burden on the processor and memory, and consume more power. After using the application, it can be closed in a timely manner and cleared through the multitasking management interface.
4. Enable power-saving mode: When the battery is low, the tablet's power-saving mode can be turned on, and the system will automatically limit some non essential functions to reduce energy consumption.

Clean and disinfect surfaces

1. Preparation before cleaning: First, turn off the tablet, unplug the charger and other external devices, wipe the screen and body with a clean, soft, and lint free cloth to remove surface dust.
2. Choose a suitable cleaning agent: If there are stains, dip a small amount of water or specialized screen cleaner. Do not use highly irritating chemical solvents such as ammonia to avoid damaging the screen and body.
3. Gently wipe: Spray the cleaning agent onto a cloth and gently wipe the screen and body to prevent liquid from flowing into the interface or button gaps. For stubborn stains, slightly increase the wiping force, but be careful not to scratch the surface.
4. Disinfection precautions: If disinfection is required, gently wipe with disinfectant wipes containing 70% alcohol, but avoid areas such as interfaces and speakers. After disinfection, dry with a clean, lint free cloth.

Disposal and recycling of scrapped products

1. Data cleaning: Before scrapping, important data needs to be backed up and restored to factory settings to ensure that personal information is not leaked.
2. Look for legitimate recycling channels: Regular electronic product recycling enterprises or designated recycling points by local environmental protection departments should be used for recycling, and should not be discarded casually.
3. Environmental Protection Treatment: Recycling companies will dismantle, classify, and process tablet computers. Recyclable materials such as metal and plastic will be recycled and reused to reduce environmental pollution.

Maintenance and troubleshooting

Resolving mobile network connectivity issues may result in differences in connection speed and signal strength. These factors include your network type, network traffic, and your distance from the network antenna. If you are within the coverage area of the network you are using, but the connection is poor or you are unable to connect, please try the following steps: check for errors, settings, and updates. If you receive an error message about your SIM card, please contact your carrier. If you use two SIM cards, the content of the SIM card error message may be "unable to use voice" or "voice service is disrupted". Detailed understanding of two SIM cards. Ensure that airplane mode is turned off. Open the "Settings" app on your phone. Tap Network and Internet. Turn off airplane mode. Reset your network settings. Open the "Settings" app on your phone. Click on the System Advanced Reset option one by one. Click to reset WLAN, mobile data network, and Bluetooth settings.

If you encounter issues with your WLAN connection or see WLAN icons with exclamation marks, please try the following solutions. After each solution is executed, please try opening a webpage on your phone to see if the problem is resolved. Note: Some steps in the article are only applicable to Android 8.1 and higher versions. Learn how to check the Android version. Step 1: Check the settings and restart to ensure WLAN is turned on, then turn it off and back on to reconnect. Learn how to connect to a WLAN network. Ensure that airplane mode is turned off, then turn it on and

off again to reconnect. Learn how to enable and disable airplane mode. Press the power button on your phone for a few seconds, then click the 'restart' icon on the screen. Step 2: Determine the type of problem Mobile: Try connecting to the WLAN network through another device (such as a laptop or a friend's phone). If other devices can use the corresponding network, it means that the problem is likely caused by your phone. Network: Check if your phone can connect to other WLAN networks (such as a friend's home network) or connect to public networks. If your phone can connect to the network elsewhere, it is highly likely that the problem is caused by the network. Internet: If your phone can connect to the WLAN network but cannot access the Internet, it is likely that the problem is caused by your Internet connection.

Troubleshooting

fault		Exclusion method
Types of faults	Fault description	
keyboard	Keyboard malfunction Or the keyboard key value is incorrect	It may be due to loose contact between the keyboard cable and the motherboard socket, or a faulty keyboard. Please contact the after-sales service center for repair.
Battery	When charging, the indicator light does not light up	Check if the power adapter is plugged in or in good contact.
	After charging and using for a short period of time, it prompts low battery level	1. Check the battery level and ensure that the battery is fully charged. 2. Restart the device. If it fails, please contact your dealer or our customer service center.
	After charging, there is no battery display when turned on	Please restart. If it still fails, please contact your dealer or our customer service center.

USB	Poor USB communication	<p>1. Check if the communication cable is properly plugged in. If not, please re plug it in.</p> <p>2. Check if there are any foreign objects in the communication port of the host. If there are any foreign objects, please remove them.</p> <p>3. If all the above situations are normal, it may be a communication port device malfunction. Please contact the after-sales service center for repair.</p>
liquid crystal	Do not display	<p>1. Check if the terminal power switch is turned on. If it is not turned on, please turn on the power.</p> <p>2. Check if the terminal has entered sleep mode. If so, press the power button to exit sleep mode.</p> <p>3. Check if the battery is dead. If it is dead, please charge the battery.</p> <p>4. If all the above situations are normal, it may be due to poor communication between the LCD and the motherboard. Please contact the after-sales service center for repair.</p>
system	Unable to power on normally	<p>1. Check if the battery is fully discharged. If it is, please charge the battery.</p> <p>2. After connecting the adapter and turning it on, it proves that the battery has no voltage. Please continue charging. If it still cannot be turned on after charging, it indicates that the battery is faulty. Please contact the after-sales service center for repair.</p>
	crash	<p>1. Possible downloaded applications may cause terminal crashes, please check if your application is secure.</p> <p>2. Possible accidental power failure of the terminal, please press and hold the power button for 10 seconds to restart.</p> <p>3. If the above situation cannot solve the crash problem, please contact the after-sales service center for repair.</p>

SCANNING MADE SIMPLE

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