Revision time: 2025.01.06 Version number v1.0

Multifunctional tablet

P100S User Manual

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第一章 Introduction

1.1 Introduction

Chainway P100S is the latest high-performance, large-size multi-functional industrial tablet launched by Chengcheng Information. It is equipped with a 10.95-inch display, giving you a more comfortable visual experience. Developed based on Android 14 and equipped with a high-performance CPU, the system runs stably and quickly, helping you to handle various tasks efficiently. The 10000mAh removable battery supports fast charging technology and power meter function, with excellent battery life to ensure your long-term work needs. In addition, P100S also integrates barcode collection, NFC reading and writing, PSAM, high-definition camera and other functions to provide you with a comprehensive application experience. The high protection level of IP67 ensures the reliability of the equipment in various harsh environments. P100S is widely used in retail, logistics, warehousing, construction, manufacturing, healthcare, hotel and catering, government departments and other industries to help you achieve efficient management and operation of your work.

1.2 Battery Description and Precautions

The P100S is equipped with a large-capacity removable battery of up to 10,000 mAh and supports hot swapping of batteries. The standard fuel gauge function provides a rich battery information at a glance on the tablet, so you can always understand the power consumption and view key indicators of battery health to ensure that employees always have reliable battery power when they work shifts. At the same time, the P100S supports the most advanced fast charging technology, with a maximum specification of 9V/3A, 27W, and is fully compatible with the PPS protocol, which means that you can quickly complete charging during a busy schedule and ensure long-term stable battery life of the device.

Note:

- Do not leave the battery idle for too long, either in the production equipment or in the warehouse. If the battery has been used for 6 months, check the charging status or dispose of the battery properly.
- The service life of lithium-ion batteries is generally two to three years, and they can be charged and recharged 300 to 500 times. A complete charging cycle refers to a full charge, a full discharge, and then a full charge again.

- Rechargeable lithium-ion batteries have a finite lifespan and gradually lose their ability to hold a charge. This amount of loss (aging) is irreversible. As the battery loses capacity, its service life (run time) decreases.
- When a lithium-ion battery is not in use or idle, it continues to discharge slowly (automatically). Check the battery charge status regularly and refer to the user manual for instructions on how to charge the battery.
- Observe and record an unused, fully charged battery. Base runtime on new battery and compare to older battery. Battery runtime will vary based on product configuration and application.
- Check the battery charge status regularly.
- After the battery runtime drops below approximately 80% of the original runtime, the battery charging time increases significantly.
- The battery should be stored at a temperature between 5 ° C and 25 ° C (41° F and 77 ° F).
- CAUTION: There is a risk of explosion if the battery is replaced with an incorrect type. Always dispose of used batteries according to the instructions.

第二章 Equipment appearance and function introduction

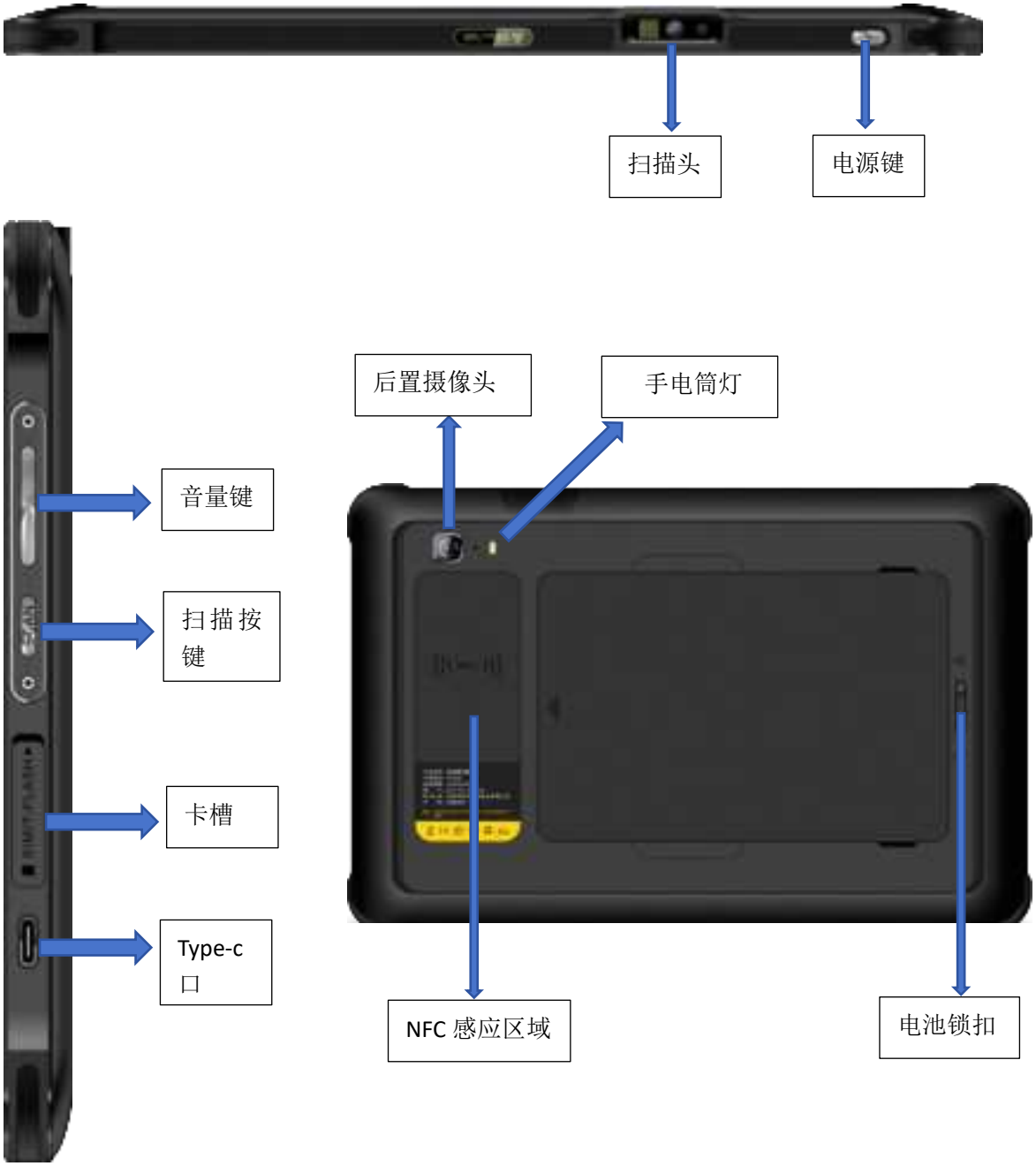
2.1 Appearance

Note: The pictures are for reference only.

2.2 Battery Charging

Use the original adapter to charge the battery via the USB port. Do not use other brands of adapters to charge the device .

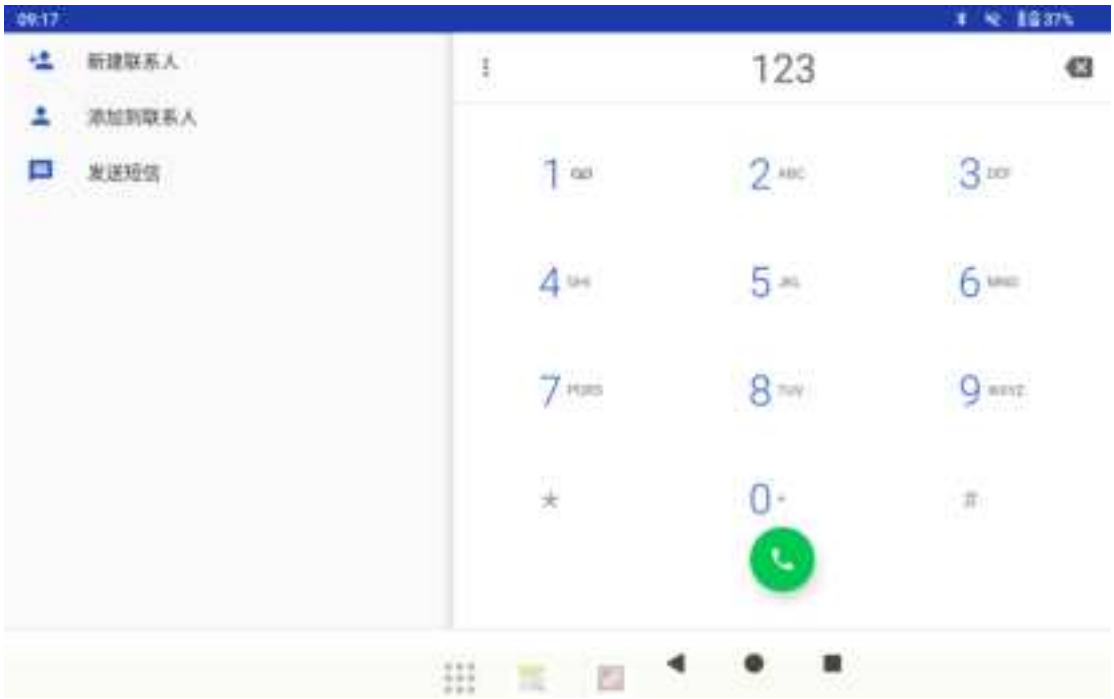
2.3 Button and Function Area Display



第三章 Phone Features

3.1 Make a call

1. Click the icon  ;
2. Press the number keys to enter the number;
3. Click  to make a call;
4. Tap Hang up  to end the call.

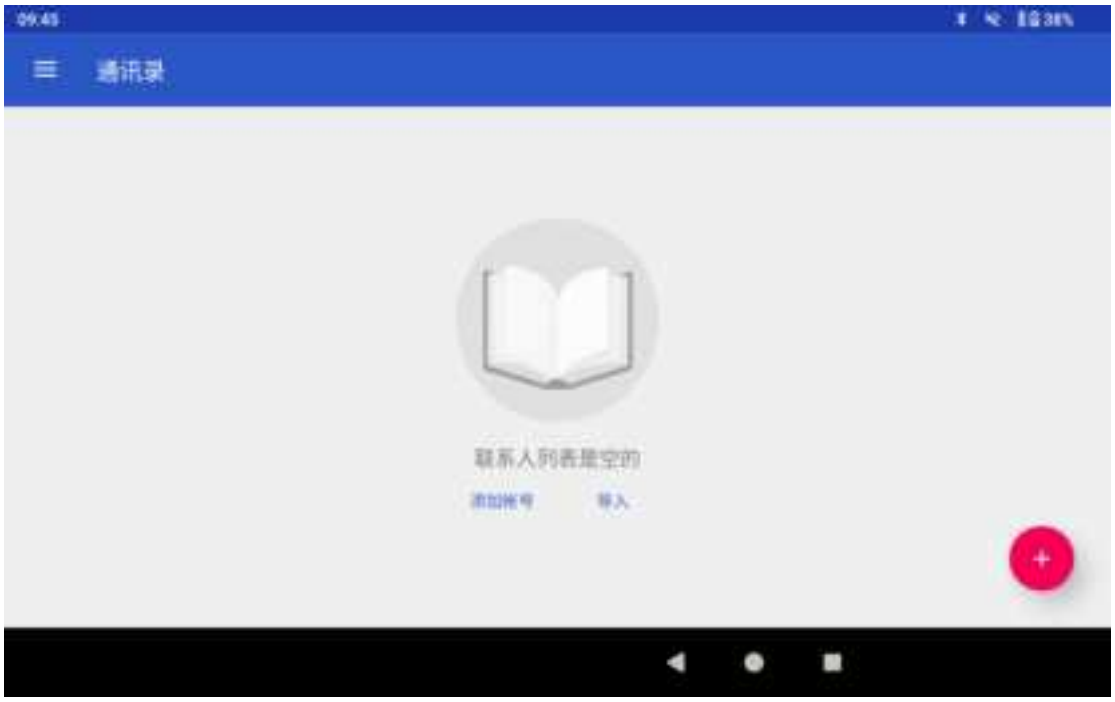


3.2 Contacts and Address Book

1. Tap Contacts to open the contact list;

2. Add a new contact. Click to add a new contact.

3. Tap Contacts  to import/export contact lists.



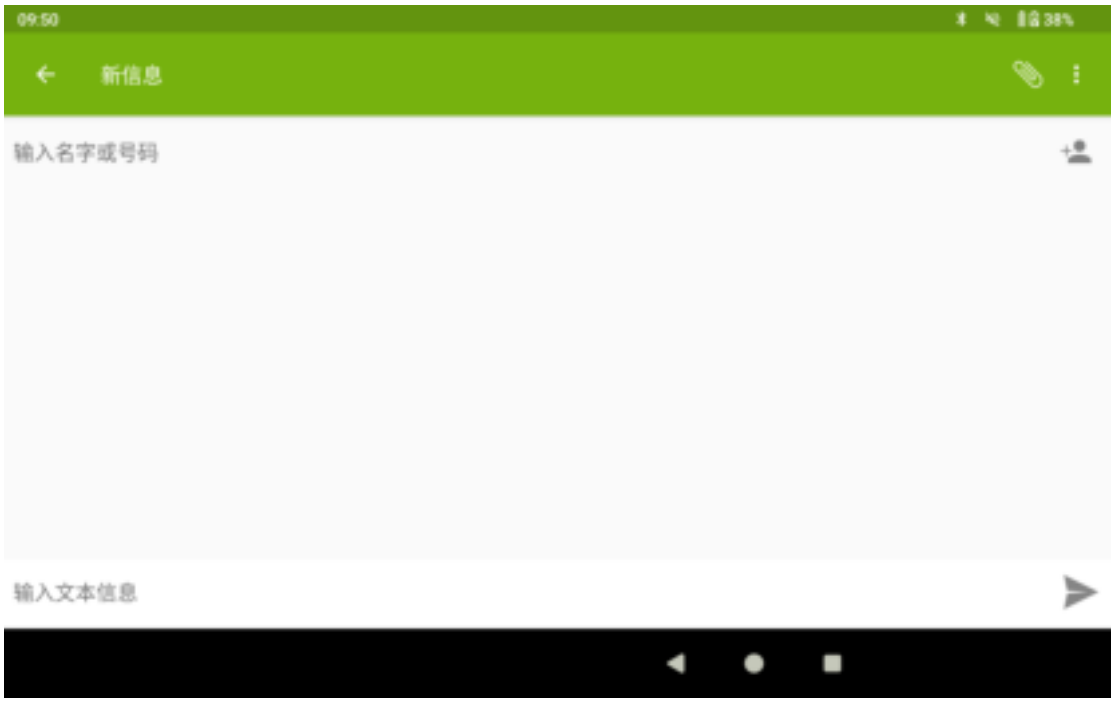
3.3 SMS and MMS

1. Click  to open the SMS window;

2. Tap the upper right corner  and enter the message content and recipient;

3. Tap  to add pictures/videos;

4. Tap  to send the text message.



第四章 InfoWedge — Barcode Scanning

InfoWedge has the following main functions:

(1) Configure the scanner, such as scanning parameters, decoder, trigger mode, etc.

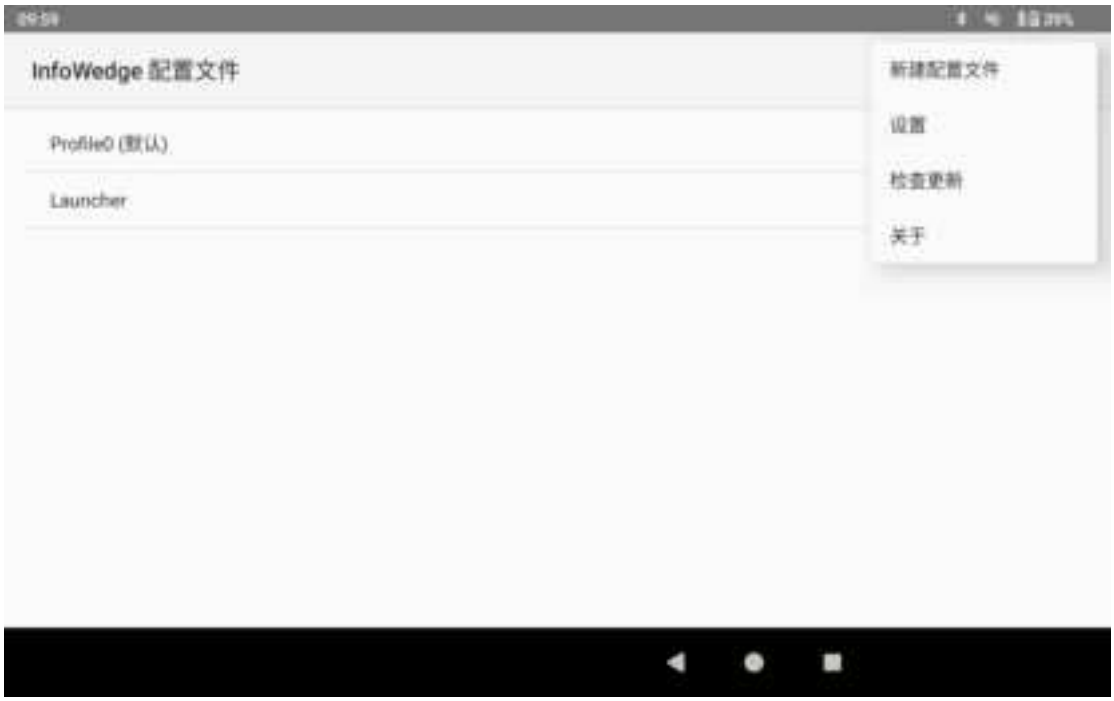
(2) Process the scanned code results, such as adding a prefix, deleting specified content, sending the Enter key, etc.

(3) The processed scan results are output to the application. For example, the result can be output to the cursor position of the application, and the scan function can be used in the application without additional programming.

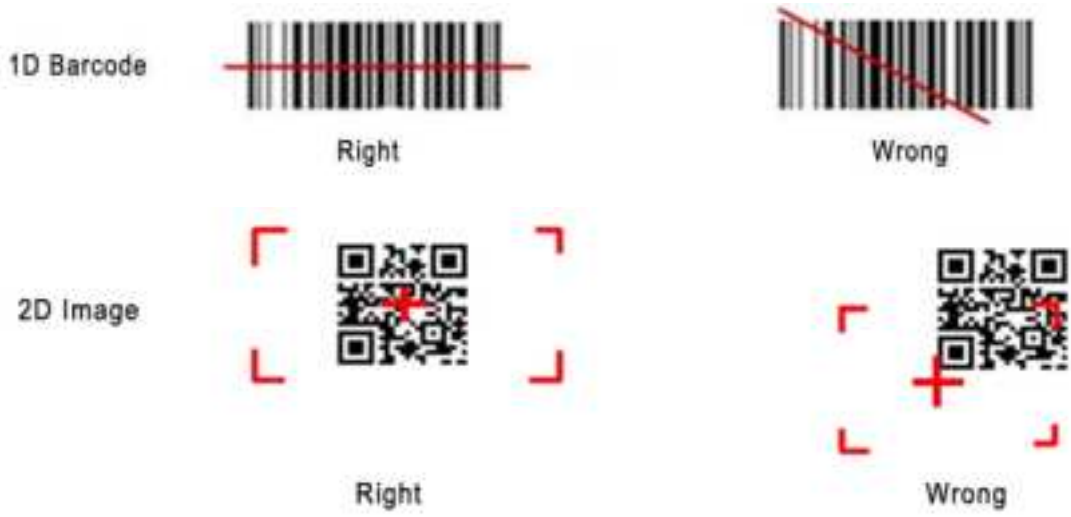
(4) Automatic switching of multiple configurations. The corresponding configuration can be automatically selected according to the front page of the current device.

(5) Configuration sharing. The settings on one device can be shared with other devices by scanning a code.

Note: For more detailed function introduction, please contact relevant technical support personnel, who will guide you on how to use or provide you with InfoWedge usage instructions.



Note: Please scan the barcode correctly, otherwise the scan will fail;



Note: The scanning head emits laser radiation. Please do not look directly at the scanning head.

第五章 RFID read and write function

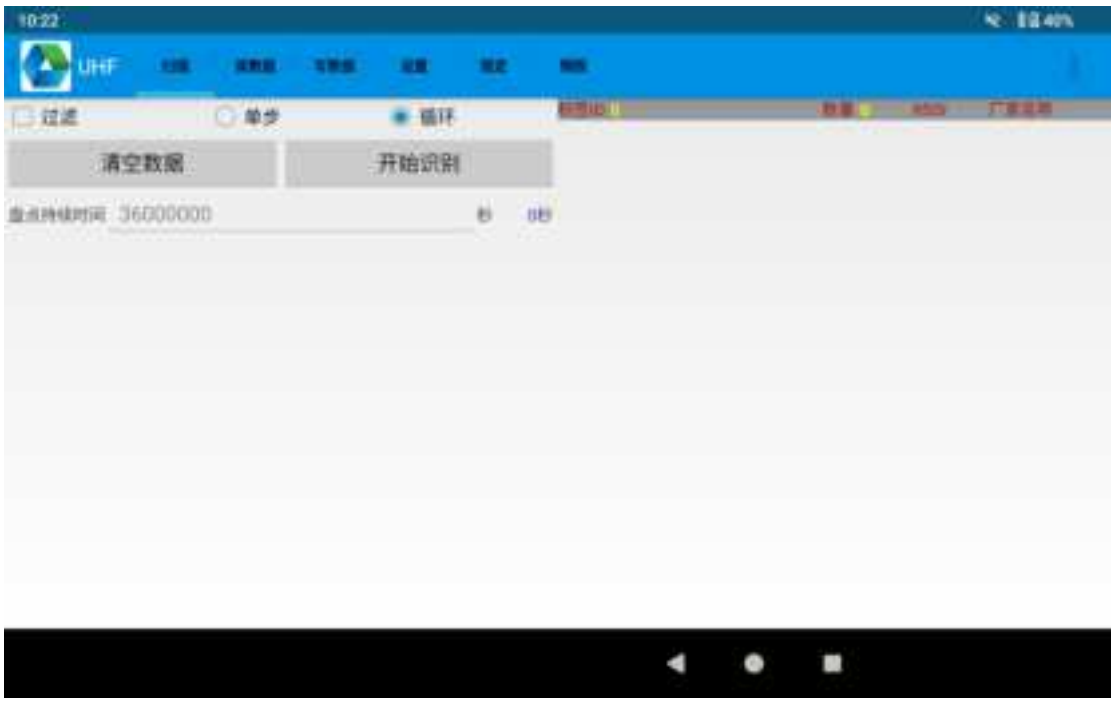
5.1 NFC Function

In the device APP Center application software, turn on "NFC" to read NFC information and write information.

5.2 UHF (optional)

In the device App Center application software, open "UHF" to read tag information, set UHF functions, read and write tags, etc.

Note: If you need UHF operation guidance or need to use DEMO, please contact technical support personnel, thank you!

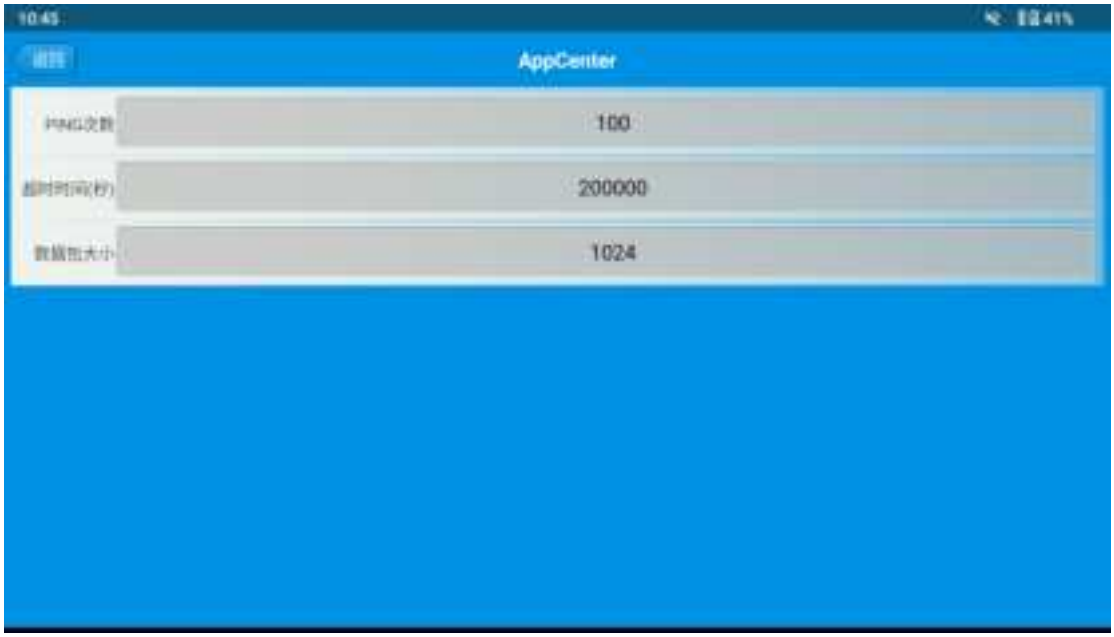


第六章 Other features of APP Center

6.1 PING Tool

1. In the device App Center, open "PING test";

2. Set PING parameters and select external/internal address.



6.2 Bluetooth

1. In the device App Center, open "Bluetooth Print Test";

2. In the list of found devices, tap the device you want to connect to pair;

3. Select the printer and click "Print" to start printing the content;

6.3 GPS

1. In the device App Center, open "GPS Positioning Test";

2. Set GPS parameters and obtain GPS data information;

6.4 Volume Settings

1. In the device App Center, open "Volume Settings";

2. Set the volume according to your needs;

6.5 Sensors

1. In the device App Center, open "Sensors";

2. Detect sensors according to needs;

6.6 Key Test

1. In the device App Center, open "Button Test";

2. Set and test the main values of the equipment;

6.7 Network Signaling

1. In the device App Center, open "Network Signal";

2. Test WIFI/mobile signal as required;


网络信号
WIFI
UNKNOWN
UNKNOWN
UNKNOWN
UNKNOWN

第七章 Equipment Specifications

Physical parameters	
size	263.5mm*175.0mm*13.5mm
weight	802g (basic version weight, depending on configuration)
Display	10.951 inches, 1920*1200 resolution
Touch screen	Corning glass, supports multi-touch, supports gloves and wet hands
Battery	The host is removable 10000mAh, supports fast charging, and has a
Expansion slots	1 PSAM card slot (optional); 1 Nano SIM card slot, 1 Nano SIM card slot or TF card slot, either one, compatible with
Audio	2 microphones (one main and one secondary); 2 speakers;
Camera	Rear camera: 13 megapixel color camera, auto focus, flash Front camera: 5 megapixel color camera
sensor	Gravity sensor, light sensor, distance sensor, geomagnetism (optional),
Performance parameters	
CPU	Octa-core 2.4GHZ
operating system	Android 14.0
RAM	4GB/6GB/8GB
Communication interface	USB 2.0 Type-C, OTG, supports Type-C headphones
ROM	64GB/128GB (optional)/256GB (optional)
Maximum capacity	Expandable MicroSD (TF) card supports up to 512 GB
Usage Environment	
Operating temperature	-20 ℃ to 50 ℃
Storage temperature	-40 ℃ to 70 ℃
humidity	5%RH-95%RH (no condensation)
Drop specifications	Within the operating temperature range, the six sides can withstand multiple drops from a height of 1.2 meters onto the concrete floor
Sealed environment	IP6 7 , meets IEC sealing specifications
Data Communication	

W WAN (Eurasian version)	2G:GSM:B2/B3/B5/B8 CDMA 1XEVDO BC0, BC1 3G:WCDMA:B1/B2/B5/B8 4G:TDD LTE:B34/B38/B39/B40/B41(2496-2690)/B42/B43 FDD LTE:B1/B2/B3/B4/B5/B7/B8/B20/B28full/B66
WWAN (US version)	2G:GSM:B2/B3/B5/B8 CDMA 1XEVDO BC0, BC1 3G:WCDMA:B1/B2/B4/B5 4G:TDD LTE:B38/B41(2496-2690) FDD LTE:B1/B2/B4/B5/B7/B12/B13/B17/B25/B26/B66/B71
WLAN	Support IEEE802.11 a/b/g/ n/ac/ax protocol ; 2.4G/5G dual-band;
Bluetooth	Bluetooth V5.2 , support Bluetooth headset
Data collection	
Barcode scanning engine	Zebra: SE41 0 0 / SE5 50 0 ; CM60; CB300; Honeywell: N6 7 03
NFC	ISO14443A/B , IS015693 , NFC-IP1 , NFC-IP2, etc. Reading and writing distance 2-4 cm
Development Environment	
SDK	Become a terminal software development kit
Development Language	Java
Development Tools	Eclipse/Android Studio

第八章 statement

This document is protected by copyright law. Any unauthorized reproduction, modification, distribution or display of part or all of this document is an infringement.

This document is intended to provide users with instructions for using the P100S device. The information and guidelines described in the document are based on our best knowledge and are based on the author's knowledge at the time of writing. However, as the device may be upgraded, evolved, or otherwise changed, please be aware that the content in the document may become outdated. We will do our best to ensure that the information in the document is accurate, but we cannot guarantee the completeness, accuracy, or timeliness of the information.

This document is for reference and guidance purposes only and does not provide any form of guarantee or warranty. The author is not responsible for any misunderstanding, incorrect operation, loss or damage. For more information on this document or support on using the application, please refer to the official website or contact the technical support team.

Frequency Bands:
GSM 900: 880 MHz to 915 MHz
GSM1800: 1710 MHz to 1785 MHz
WCDMA Band I: 1920 MHz to 1980 MHz
WCDMA Band VIII: 880 MHz to 915 MHz
LTE Band 1: 1920 MHz to 1980 MHz
LTE Band 3: 1710 MHz to 1785 MHz
LTE Band 7: 2500 MHz to 2570 MHz
LTE Band 8: 880 MHz to 915 MHz
LTE Band 20: 832 MHz to 862 MHz
LTE Band 28: 703 MHz to 748 MHz
LTE Band 34: 2010MHz to 2025 MHz
LTE Band 38: 2570 MHz to 2620 MHz
LTE Band 40: 2305 MHz to 2400 MHz
LTE Band 41: 2496 MHz to 2690MHz
WLAN 802.11b/g/n20/ax20: 2412 to 2472 MHz
WLAN 802.11n40/ax40: 2422 to 2462 MHz
WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5150 to 5250 MHz
WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5250 to 5350 MHz
WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5470 to 5725 MHz
WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5725 to 5850 MHz
Bluetooth: 2402 MHz to 2480 MHz
GPS: 1575.42MHz
BDS: 1561.098MHz
GLONASS: 1602 MHz
NFC: 13.56MHz

Max power:
GSM900: 33.12dBm
DCS1800: 30.75dBm
WCDMA Band 1: 25.36dBm
WCDMA Band 8: 25.08dBm
LTE Band 1: 25.47dBm
LTE Band 3: 24.86dBm
LTE Band 7: 24.74dBm
LTE Band 8: 24.42dBm
LTE Band 20: 24.62dBm
LTE Band 28: 24.48dBm
LTE Band 34: 24.86dBm
LTE Band 38: 24.02dBm
LTE Band 40: 25.57dBm
LTE Band 41: 24.48dBm
BT: 4.81dBm EIRP
BT LE: 2.04dBm EIRP

2.4 WLAN: 16.46dBm EIRP
5.2 WLAN: 15.95dBm EIRP
5.3 WLAN: 15.37dBm EIRP
5.6 WLAN: 15.84dBm EIRP
5.8 WLAN: 13.19dBm EIRP
NFC: -15.18dBuA/m at 10m

Modulation Mode:
GSM: GMSK for GSM/GPRS; GMSK and 8PSK for EDGE
WCDMA: QPSK; HSDPA: QPSK/16QAM; HSUPA: BPSK
LTE: QPSK/16QAM
Bluetooth: BT(1Mbps): GFSK, BT EDR(2Mbps): π/4-DQPSK, BT EDR(3Mbps): 8DPSK
BLE: GFSK
2.4G WLAN: 802.11b(DSSS): CCK, DQPSK, DBPSK
802.11g(OFDM): BPSK, QPSK,16-QAM,64-QAM
802.11n(OFDM): BPSK, QPSK,16-QAM,64-QAM
5G WLAN: 802.11a/n(OFDM): BPSK, QPSK,16-QAM,64-QAM
802.11ac (OFDM): BPSK, QPSK,16-QAM,64-QAM, 256-QAM
GPS: BPSK
GLONASS: FDMA
NFC: ASK

Antenna Specification:
GSM/WCDMA/LTE: FPC Antenna
Bluetooth: FPC Antenna
WLAN: FPC Antenna
GNSS: FPC Antenna
NFC: Coil Antenna

CE Maintenance

1. Use careful with the earphone maybe excessive sound pressure from

earphones and headphones can cause hearing loss.

2. Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

3. The product shall only be connected to a USB interface of version USB2.0. 4.Adapter shall be installed near the equipment and shall be easily accessible. 5.EUT Operating temperature range: 0° C to 40° C .

6. Adapter: The plug considered as disconnect device of adapter

Power supply and ADP(rating):

Input: 100-240V 50/60Hz 0.8A

Output: (PD)5V 3A 15W or 9V 3A 27W or 12V 2.5A 30W or 15V 2A 30W or 20V 1.5A 30W (PPS)3.3V-11V 3A(33W MAX)

7. The device complies with RF specifications when the device used at 5mm you're your body. 8.To prevent possible hearing damage. Do not listen at high volume levels for long periods.

Declaration of Conformity

Shenzhen Chainway Information Technology Co., Ltd hereby declares that this Multifunctional Tablet is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. In accordance with Article 10(2) and Article 10(10),This product is allowed to be used in all EU member states.

CE

Federal Communication Commission Interference Statement
FCC ID: 2AC6AP100S

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Radiation Exposure Statement:

This device meets the government’s requirements for exposure to radio waves.
This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless device employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions (0mm) accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands.

To maintain compliance with radio frequency exposure guidelines and limits, keep the smartphone at least 0 mm away from your body. When you carry the smartphone on your body, use only accessories equipped with an integrated belt clip that are supplied or approved by the manufacturer. If you use a body-worn accessory not supplied by the manufacturer, verify that the accessory does not contain metal and keep the smartphone at least 10 mm from your body.