



CHCNAV TC100

USER MANUAL



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1 Introduction

Thank you for choosing CHCNAV TC100 GNSS Data Controller.

This Getting Started Guide will provide useful information about your controller. It will also guide you through your first steps of using TC100 in the field.

1.1 Technical Assistance

If you have a problem and cannot find the information you need in the product documentation, contact your local dealer from which you purchased the TC100. Alternatively, please request technical support using the Website (www.chcnav.com) or technical support email (support@chcnav.com).

1.2 Your Comments

Your feedback about this Getting Started Guide will help us to improve it in a future revision. Please e-mail your comments to support@chcnav.com.

1.3 Safety Information

This manual describes CHC TC100 GNSS Data Controller. Before using the TC100, please make sure that you have read and understood this Getting Started Guide, as well as the safety requirements.

1.4 Warning and Cautions

A Warning or Caution information is intended to minimize the risk of personal injury and/or damage to the equipment.



WARNING - A Warning alerts you to a potential misused or wrong setting of the equipment.



CAUTION - A Caution alerts you to a possible risk of serious injury to your person and/or damage to the equipment.

1.5 Use and Care

CHCNAV TC100 is a high-performance smart handheld terminal developed by CHC Navigation. Therefore, the TC100 should be treated with reasonable care.

1.6 FCC Interference Statement

This equipment has been designed to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules in the Portable Mode. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

An absence of specific alerts does not mean that there are no safety risks involved.

1.7 CE Interference Statement

Declaration of Conformity: Hereby, CHC Navigation declares that this TC100 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. A copy of the Declaration of conformity can be found at CHC Navigation.



2 Overview

2.1 Features

The CHCNAV TC100 is a high-performance intelligent tablet developed by Shanghai Huace Navigation Technology Co., Ltd. The TC100 integrates powerful navigation capabilities, offers enhanced sensitivity, and helps achieve more accurate and faster positioning services. It adopts the Android 15.0 operating system, is equipped with a 6.0GHz octa-core processor, and features ultra-long battery life.

2.2 Specifications

Operating System	Android 15
CPU	MTK MT8781(Helio G99)
RAM	6 GB
Flash Memory	32 GB
Memory Extend	MicroSDHC up to 1TB
WIFI	IEEE802.11 a/b/g/n/ac/d/e/h/i/k/v/w (2.4G/5.8G)
Network Modem	Eurasian Configuration: LTE FDD: B1/B2/B3/B5/B7/B8/B18/B19/B20/B26/B28AB LTE TDD: B34/B38/B39/B40/B41 WCDMA: B1/B2/B5/B8 GSM: 850/900/1800/1900 North American Configuration LTE FDD: B2/B4/B5/B30/B12/B17/B19/B25/B26/B13/B7 1/B66 LTE TDD: B38/B40/B41 WCDMA: B2/B4/B5 GSM: 850/1900 2G/3G/4G (Can be switched manually, with automatic switching by default.)
Bluetooth	BT5.0 + BR/EDR + BLE
USB	USB2.0 Type-C,OTG

Li-ion Battery	10000mAh
Camera	13 MP rear camera with auto-focus and flash

Physical specifications

Display

- Size: 8.0" IPS LTPS LCD capacitive multi-touch
- Resolution: 1920 × 1200 pixels
- Brightness: 400 nit
- Touchscreen: BOE glass, supports multi-touch, and allows operation with gloves or wet hands

Physical

- Dust proof and waterproof: IP67
- Shock: Survives 1.5 m (4.9 ft) fall on concrete
- Humidity: 5% - 95% (non-condensing)
- Dimension: 221mm*78mm*16.5mm
- Weight: 725g (with battery)
- Operating temperature: -20 °C to + 50 °C
- Storage temperature: -40 °C to + 65°C
- Electrostatic Protection: Level 4 : Class A;Air discharge: ±15 kV;Contact discharge: ±8 kV

Sensors

- NFC: Not Support
- G-sensor: Support
- Light sensor: Support
- E-compass: Support
- Microphone: Support

2.3 Front View



Keypad		Instruction
Bottom button	1.FN 1 button	Quickly open LS or customized app
	2.FN 2 button	used for Landstar survey Hotkey.
	3.Power button	Turn on/off device

2.4 Back View



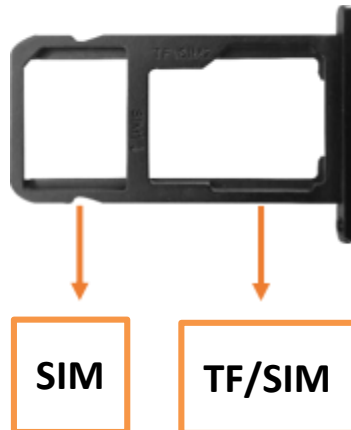
2.5 Side



USB Type-C Charging/Data Interface

2.6 Installation

Please insert the SIM card and the TF card in the direction of the diagram.

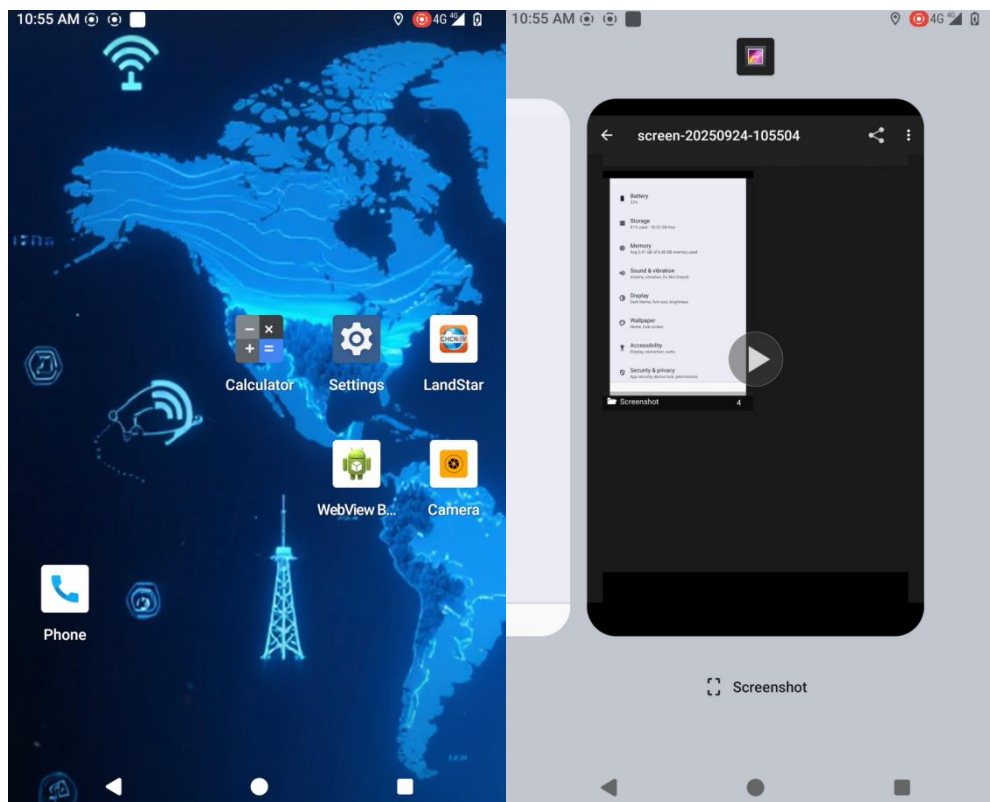


3 Basic Operation

3.1 Insert SIM Card and power on

Refer to **2.6 Installation** find the SIM card and TF card slot, and then insert the cards into slots correctly.

Before powering on TC100, please make sure the battery has plenty of power. Then long press the power button to turn on TC100 and enter its home screen.



Use virtual button key to facilitate your operation with TC100.

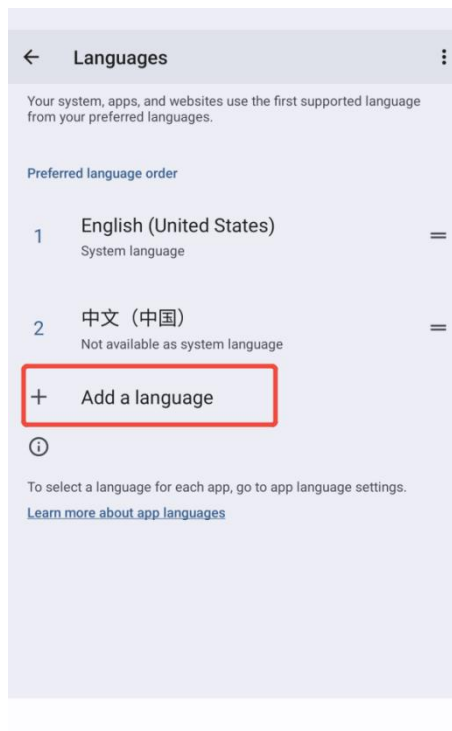
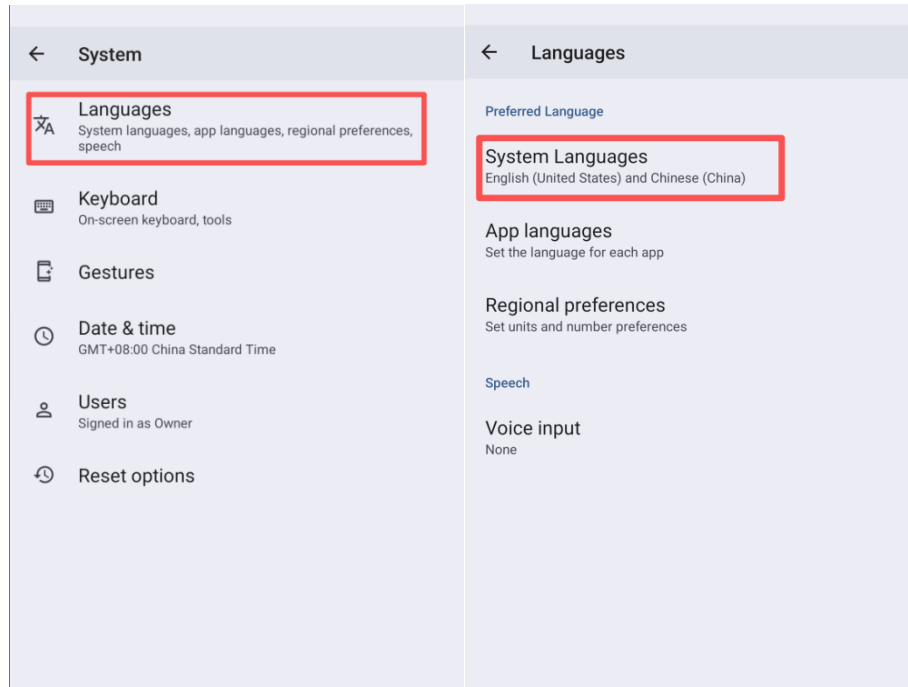
Click  to go back to previous menu.

Click  to return home screen.

Click  to see all the running apps, and you can stop apps by sliding them upward

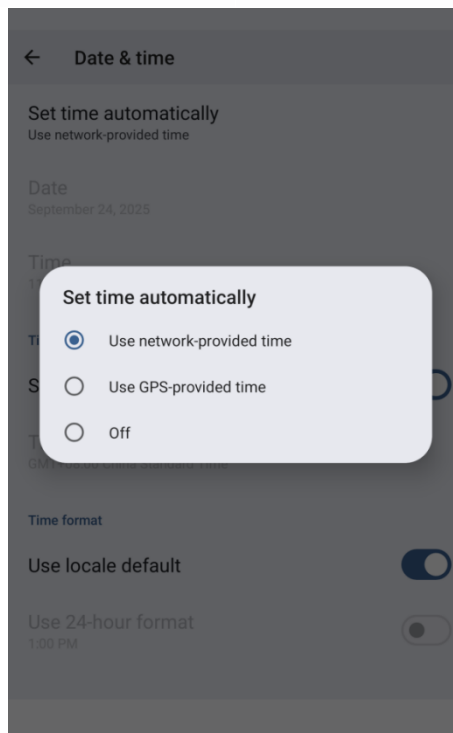
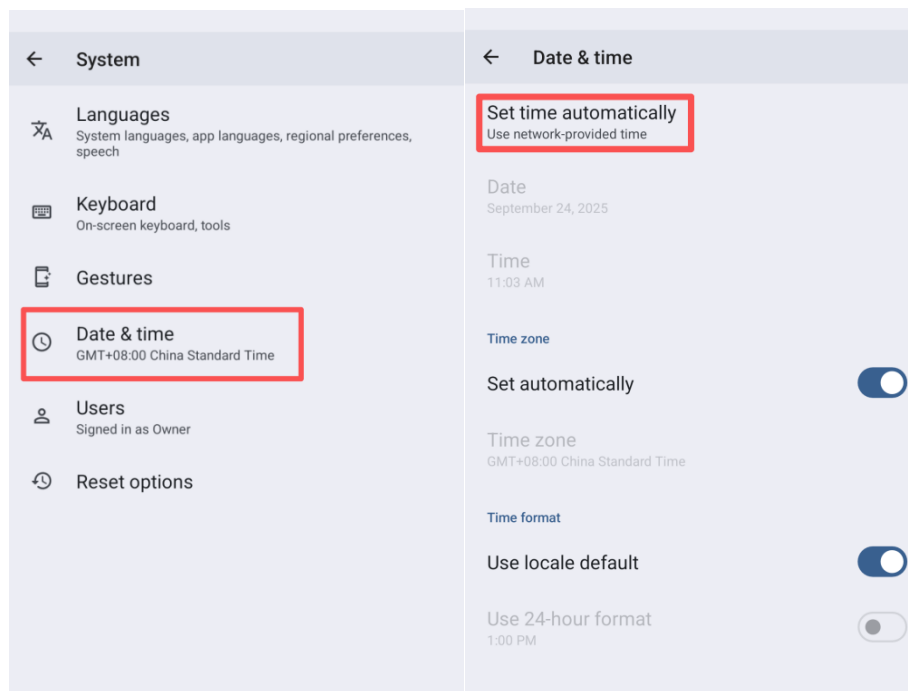
3.2 Language & input

Click **[Settings] – [System] – [Language] – [System Languages]** to select language. If you have not found the language you want to choose, click **[Add a language]** to find the target language.

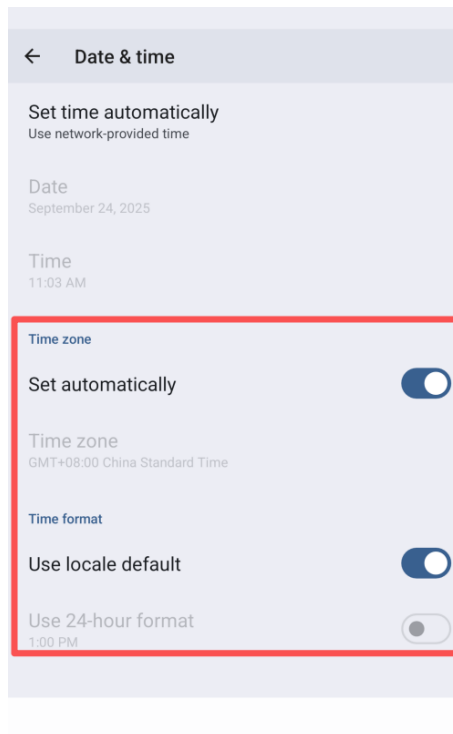


3.3 Set Date & Time

Click [Settings] – [System] – [Date & time] and enter [Date & time] interface.

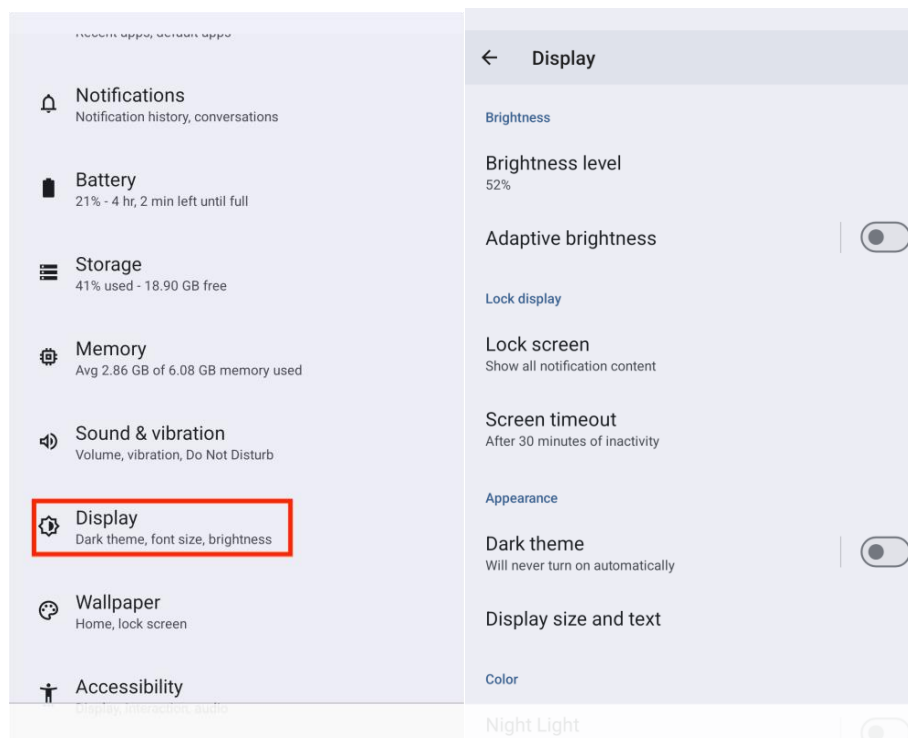


If you want to set date and time by yourself, please turn off the Use network-provided time and start your own settings.



3.4 Display

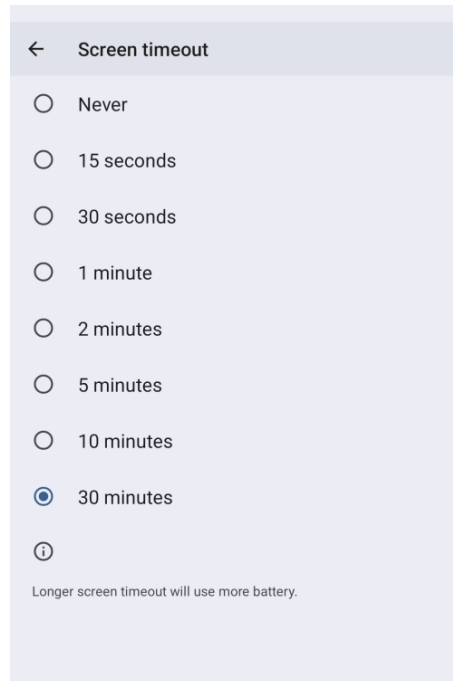
Click **[Settings]** – **[Display]** to enter Display interface.



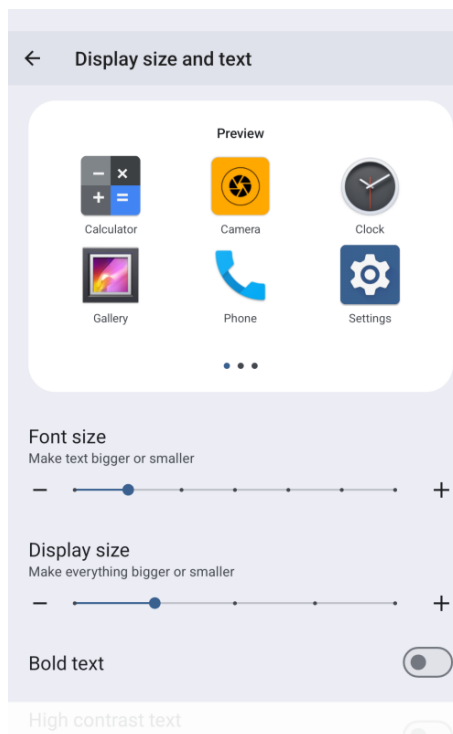
Brightness adjusting: Click **Brightness level** to adjust it according to your preference.



Screen timeout: Click to optimize the inactivity time TC100 needs to close screen.

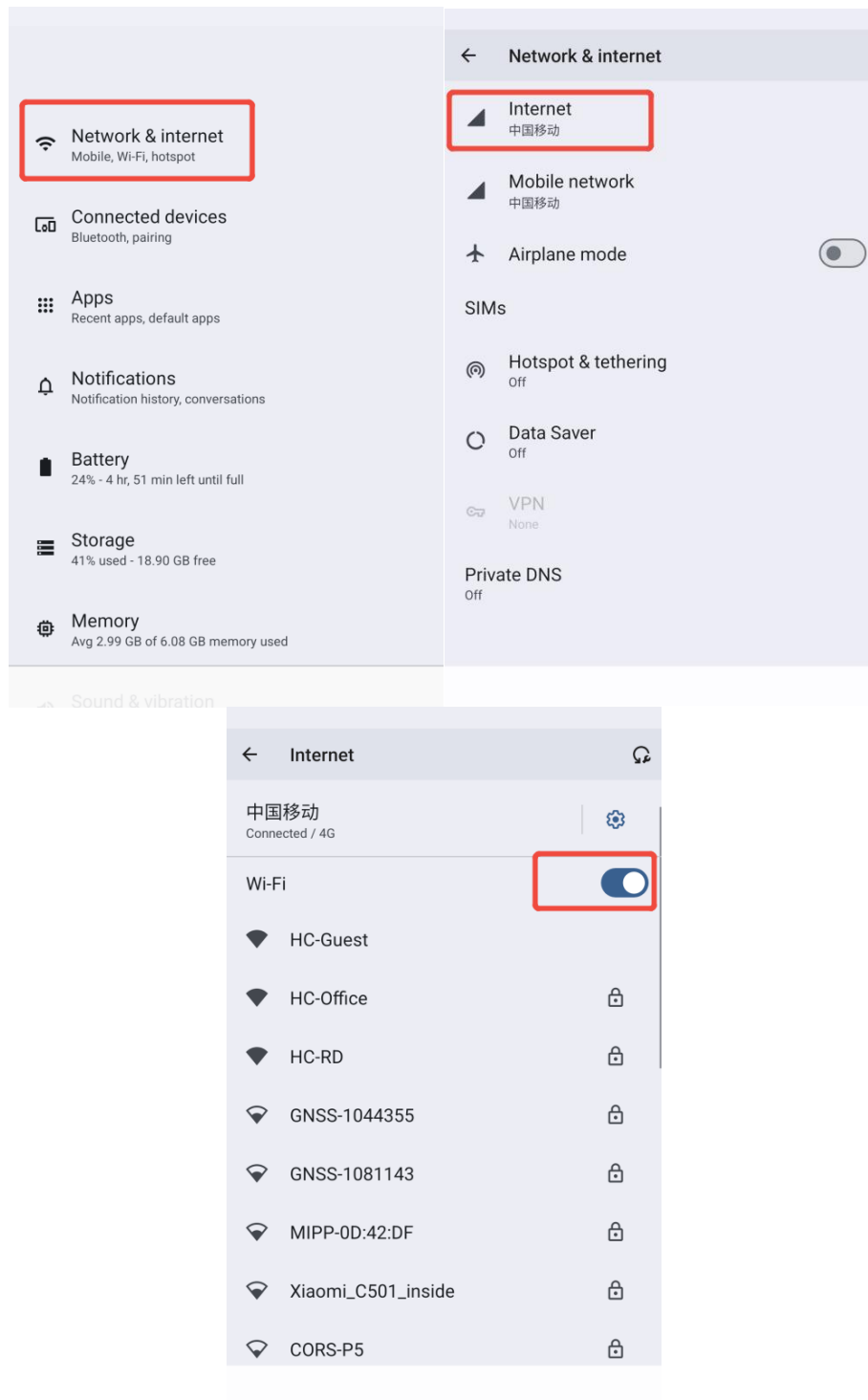


Font size: Slide the green dot to change the font size.

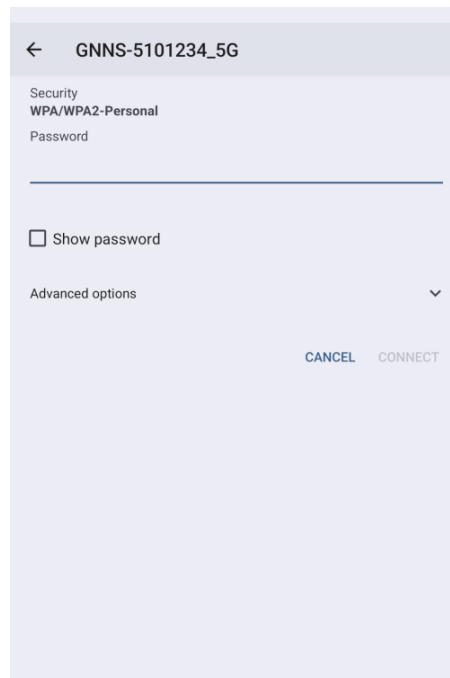


3.5 WIFI

Click **[Settings]** – **[Network & internet]** – **[Internet]**– **[WIFI]** to switch on the button.



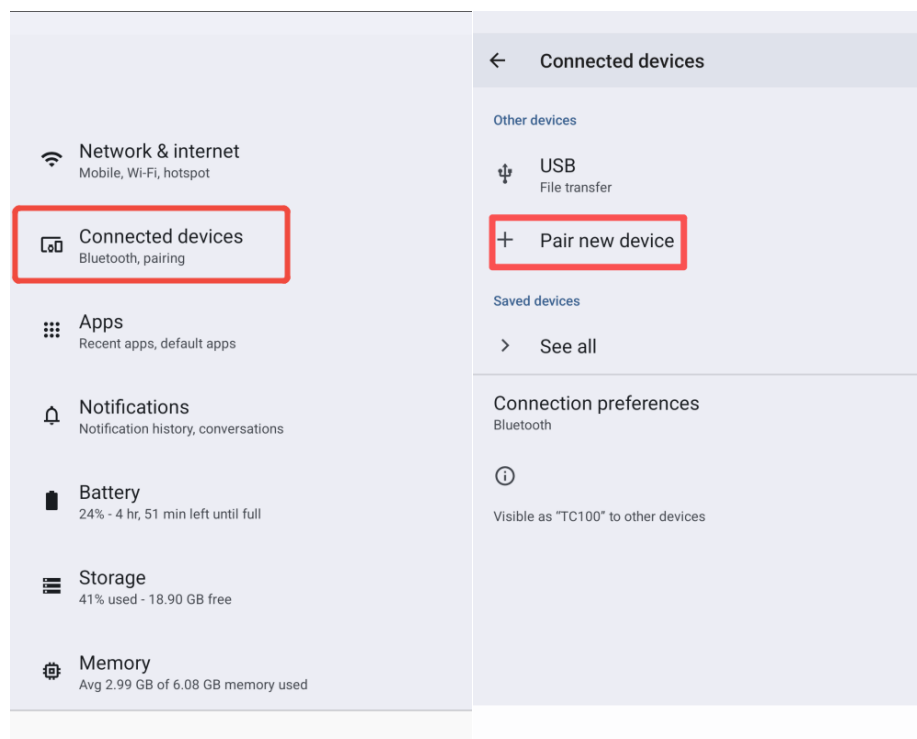
Select **WIFI** and type in its password to connect.



3.6 Bluetooth

Click **[Settings]** – **[Connected devices]** – **[Bluetooth]** to turn on the Bluetooth.

Users can view paired device list. Meanwhile, users can pair new device by clicking **[Pair new device]** button. Find nearby devices and pair with it.

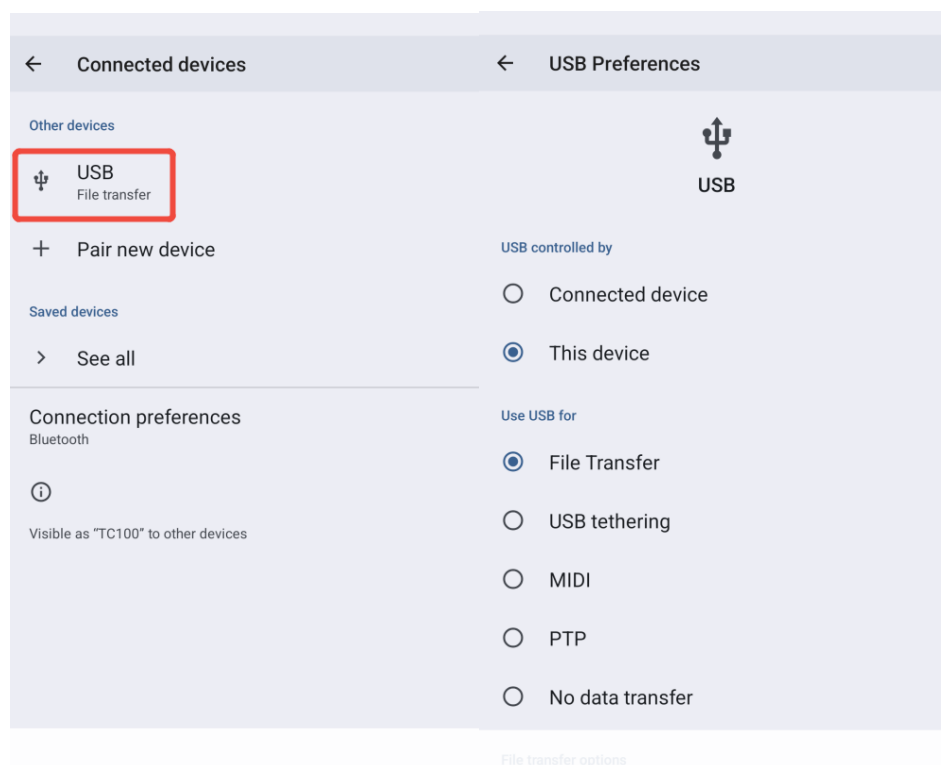


3.7 USB Connection

For connection or data transmission between TC100 and personal computer, please use the USB data cable as shown below.



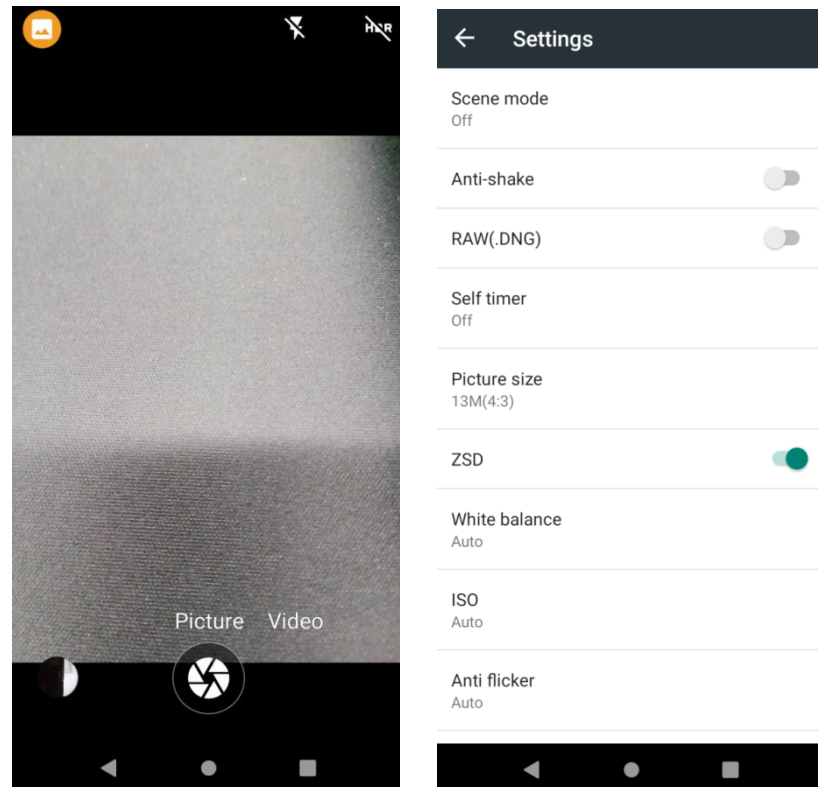
Click **[Settings]** – **[Connected devices]** – **[Bluetooth]** to make sure this function is switched on.



You can also use third party software to manage the documents and data stored in TC100 and install software like GNSS Tool into it.

3.8 Use Camera

Make sure that the battery is charged. If the battery capacity is lower than 5% percent, the device is not allowed to use camera function.



You can slide to change Picture or Video.



Click this button to take a photo.



button means Camera Modes

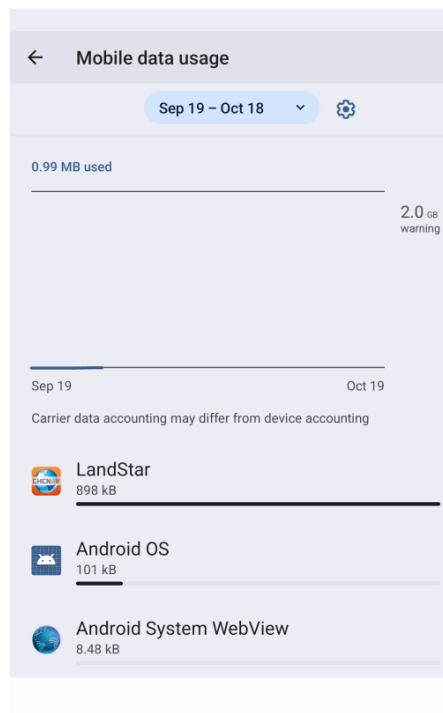
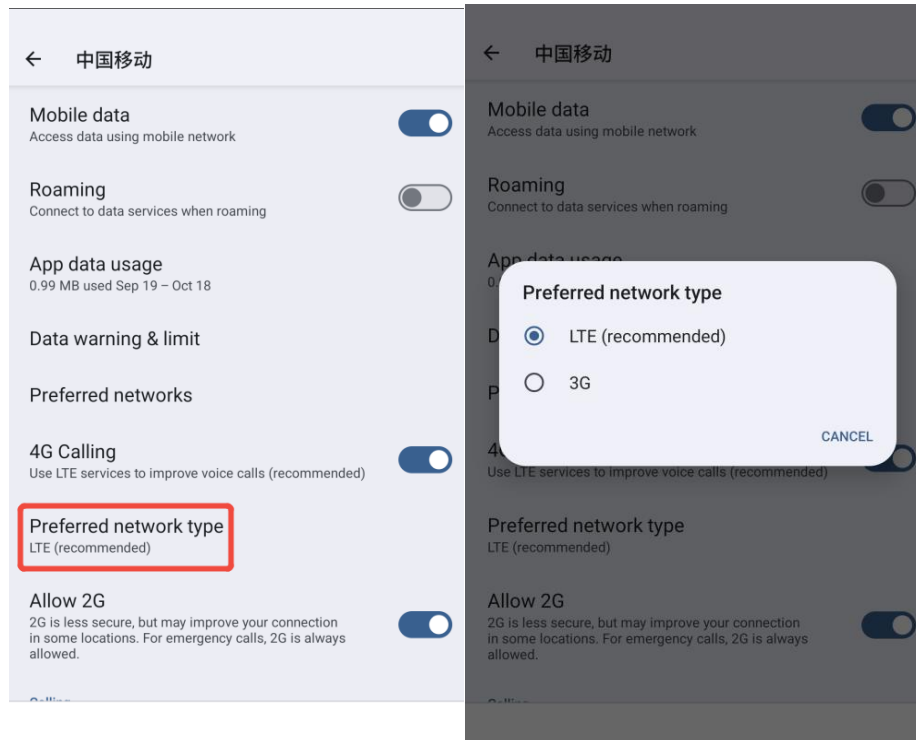


button means Settings.

Click the button to configure related parameters.

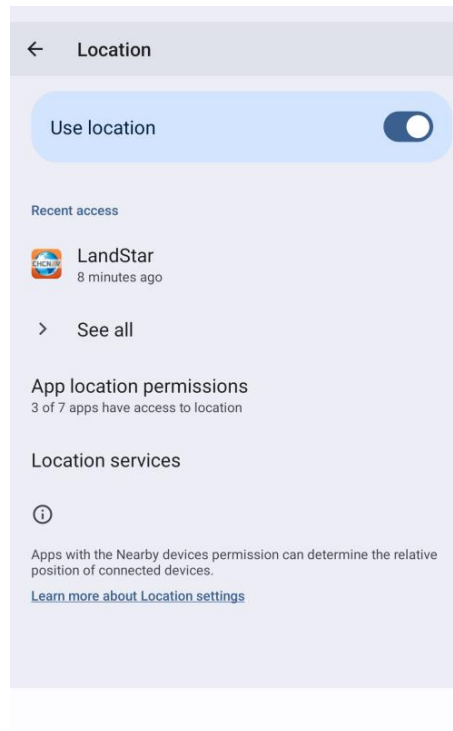
3.9 Login 4G

After inserting your SIM card, click **[Settings]** – **[Network & Internet]** – **[Mobile Networks]** – **[Advance]** – **[Preferred network type]** and select corresponding network type of your SIM card. Then turn on **Mobile data** and click **App data usage** to see data usage.



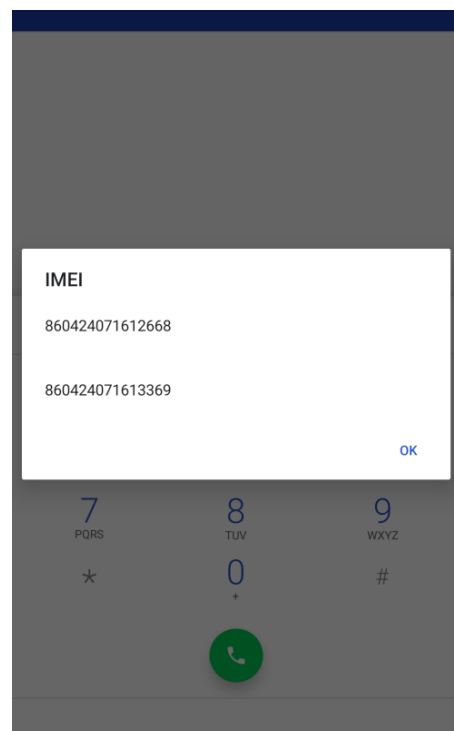
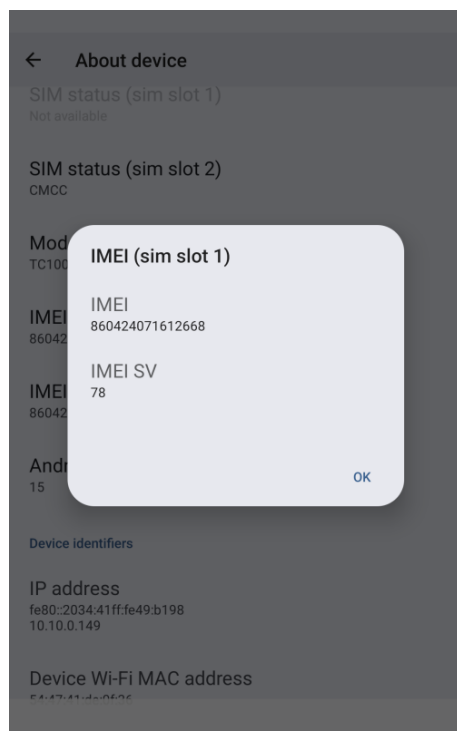
3.10 Location

Click **[Settings]** – **[Location]** to switch on location service.



3.11 Check the IMEI Number of the Device

Click **[Settings]** – **[About phone]** – **[IMEI]**. Or enter the dialing panel, tap “*#06#”, the IMEI numbers show up automatically.

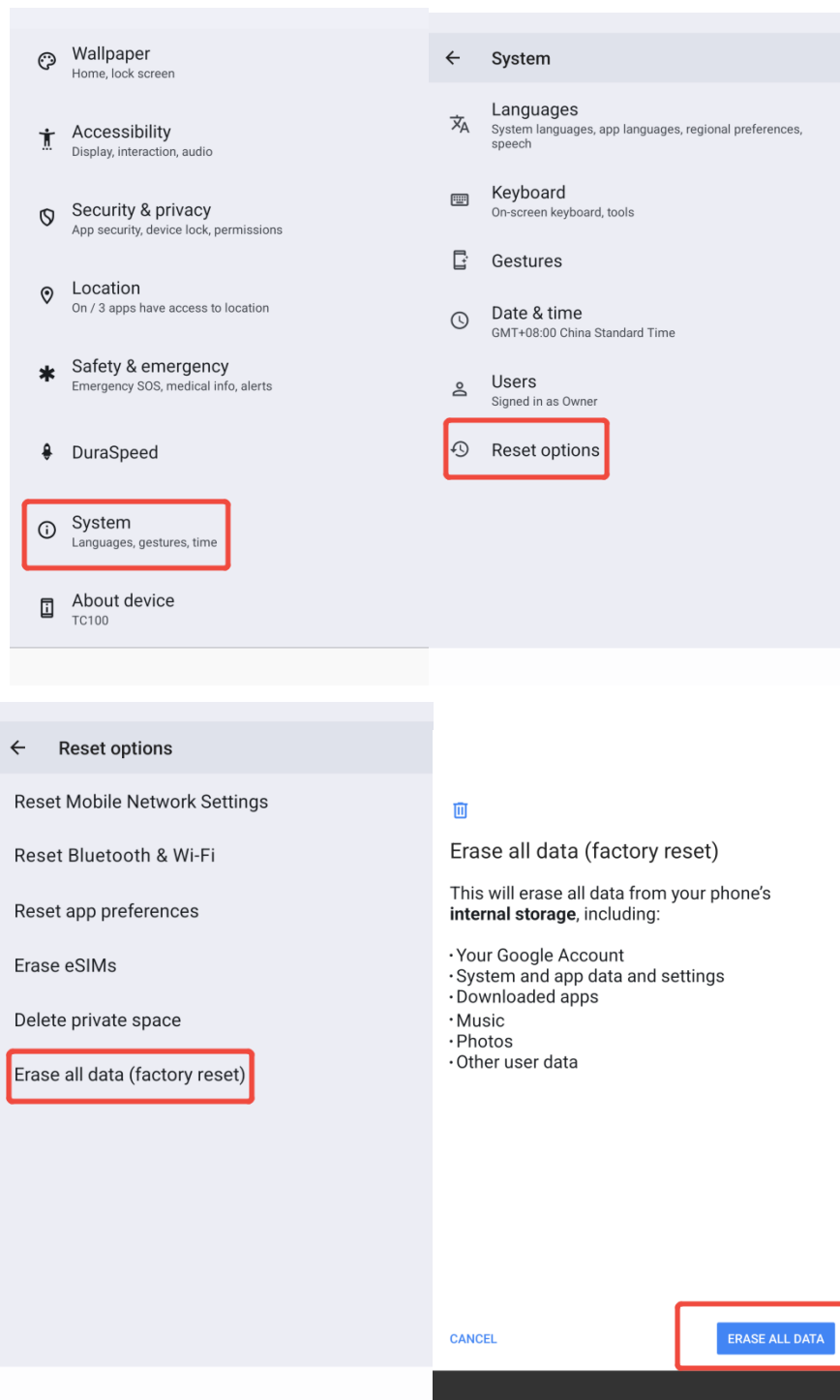


3.12 Restore Factory Setting

Enter the [Settings] – [System] – [Reset options] – [Erase all data]

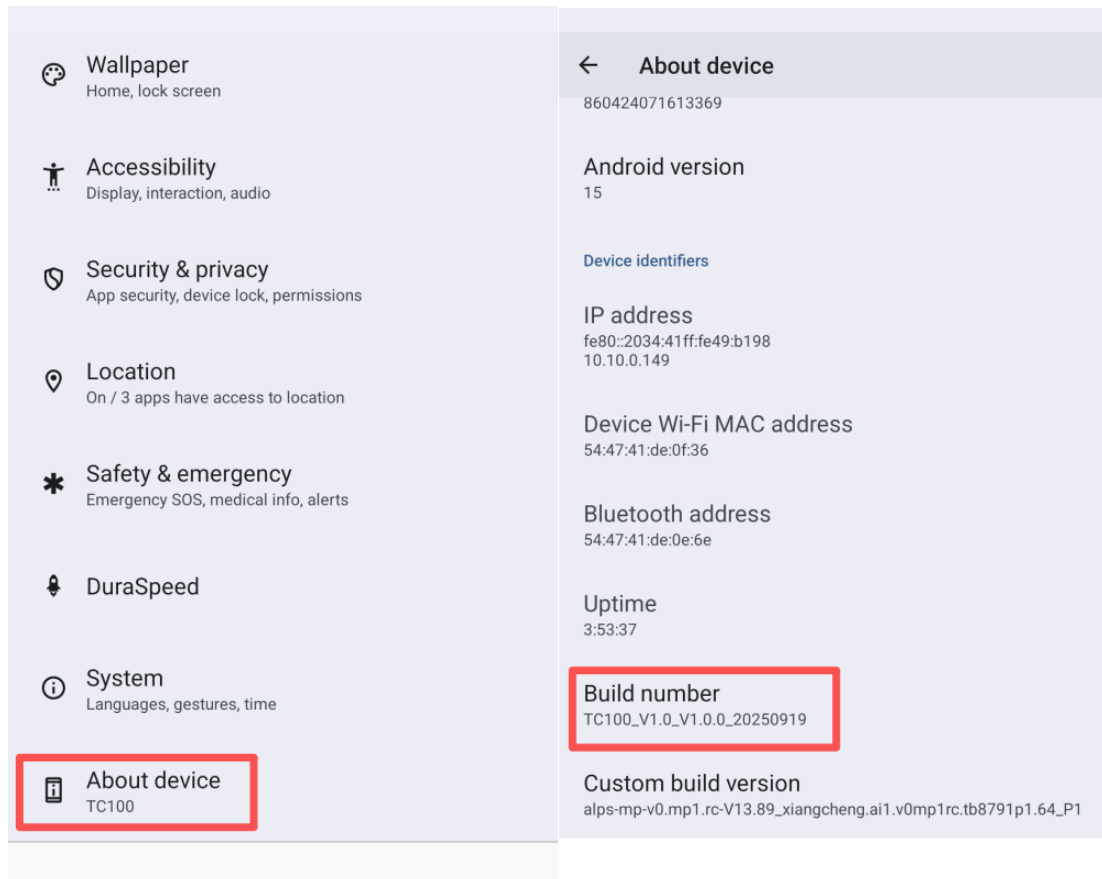
Press [Erase all data] – [Delete all data], data controller will automatically shut down and restart.

Note: After choosing [Delete all data], the memory data in data controller will be cleared!



4 The Operation System

Enter the **[Settings]**, find and tap **[About Phone]**, check core version of data controller firstly.



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FCC warning statements:

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 or more 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

The device has been evaluated to meet general RF exposure requirement.