



SC200 Data Controller User Manual

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Table of Content

Chapter 1 Introduction

1.1	Overview	3
1.2	Packing List.....	3
1.3	Specification	4
1.4	Front View.....	5
1.5	Back View	6
1.6	Left/Right Side	6
1.7	Installation.....	7

Chapter 2 General Operations

2.1	Power on and Power off	8
2.2	Language & input	8
2.3	Set Date & Time	8
2.4	Display	9
2.5	WIFI	10
2.6	Bluetooth.....	10
2.7	USB Connection.....	11
2.8	Use Camera	12
2.9	Log in 4G	12
2.10	Location	13
2.11	Check the IMEI Number of the Device.....	13
2.12	Restore Factory Setting	14

1.1 Overview

SC200 Data Controller is a high-performance smart handheld terminal developed by SingularXYZ.

Embracing the latest Android 11 OS, the SC200 reaches new heights in performance and compatibility. With an 8-core 2.0GHz CPU, 4GB RAM, and 64GB internal storage, it ensures seamless compatibility with various third-party field software. The inclusion of advanced sensors further solidifies its technological prowess.

The SC200 elevates the user interaction with a 5.5" sunlight-readable touch screen, providing better clarity and convenience. Integrated 4G, WiFi, and Bluetooth technologies redefine connectivity, simplifying the process of linking with external GNSS devices and transmitting data. A user-centric workflow is at the core of its design.

Built to withstand extreme conditions, the SC200 holds an IP67 waterproof & dustproof rating. The device's durability ensures reliable operation in challenging environments. Fueled by a robust 7700mAh battery, the SC200 extends operational time beyond 12 hours, setting a new standard for work efficiency.

This manual will introduce how to use the SC200 Data Controller properly and expertly.

1.2 Packing List

No.	Name	Quantity	Figure
1	SC200 Data Collector	1	
2	USB Cable	1	
3	Charger Adapter (EU/USA/UK)	1	

4	Data Collector Bracket (Optional)	1	
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1.3 Specification

The following tables describe the specifications of the SC200.

SYSTEM

Item	Specification
CPU	8 core 2.0GHz
Operating System	Android 11
RAM	4GB
ROM	64GB
Camera	13MP rear camera
Screen	5.5-Inch HD highlight screen, 5-point capacitive touch screen
Resolution	720*1440 pixels
Signal tracking	GPS+BDS+GLONASS
Sensors	G-sensors, Light-Sensors, Accelerator, NFC, Microphone

PHYSICAL&ELECTRICAL

Item	Specification
Size	221*77.7*16mm
Weight	350g (Including battery)
Battery	7700mAh, more than 12 hours working time with screen on
Charge	Fast charge, less than 5 hours charging time

COMMUNICATION

Item	Specification
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BT	BT5.0 (BLE)
Wi-Fi	IEEE 802.11 a/b/g/n 2.4G/5G
SIM	- 1 nano SIM card slot - 1 SIM card slot shared with TF
4G	FDD-LTE B1/B3/B5/B7/B8 TDD-LTE B38/B39/B40/B41 WCDMA B1/B2/B5/B8 GSM B2/B3/B5/B8 CDMA/EVDO BC0/BC1
NFC	-Support protocol: ISO14443A/B, ISO15693
TF	-Reading distance: 0-5cm Support up to 256G extend TF card
Interface	USB-Type C, support fast charge, support OTG

ENVIRONMENTAL

Item	Specification
Working temperature	-20℃ ~ +55℃
Storage temperature	-30℃ ~ +70℃
Waterproof & dustproof	IP67
Shock	Designed to survive a 1.5m drop onto concrete
Humidity	95% no condensation
Electrostatic protection	Air discharge ±15kV, contact discharge ±8kV

ACCESSORY

Item
AC adapter
USB cable
Hand strap
Battery

1.4 Front View



1.5 Back View



1.6 Left/Right Side





USB Type-C Charging/Data Interface

1.7 Installation

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



SIM card

TF/SIM card

2.1 Power on and Power off

Power on: Holding power button for 2 seconds

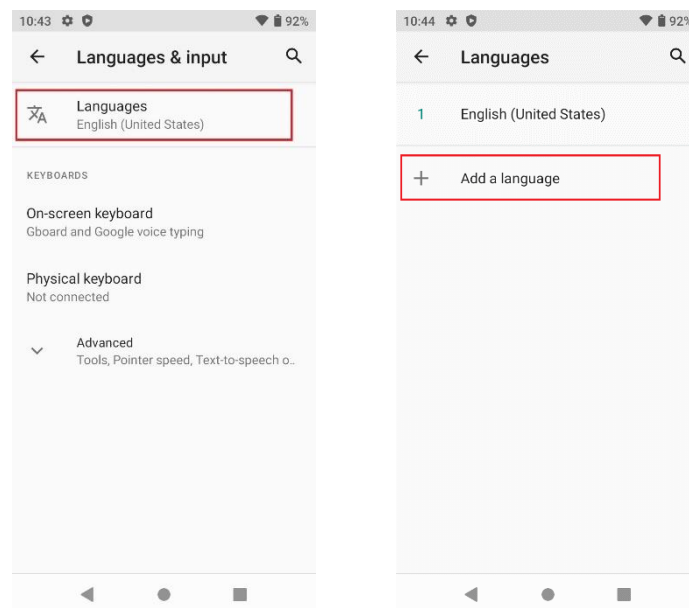
Power off: Holding power button for 8 seconds

Restart: Holding power button for 2 seconds, choose restart.

Force Restart: Holding power button for 8 seconds, to force start SC200.

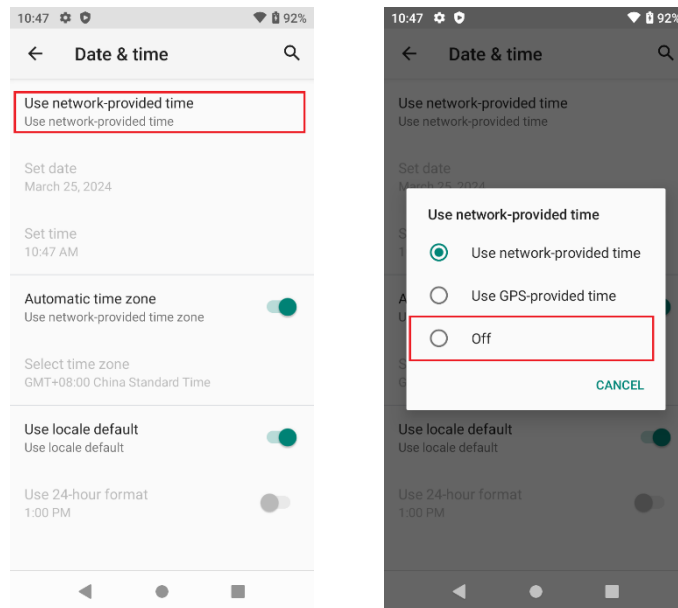
2.2 Language & input

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

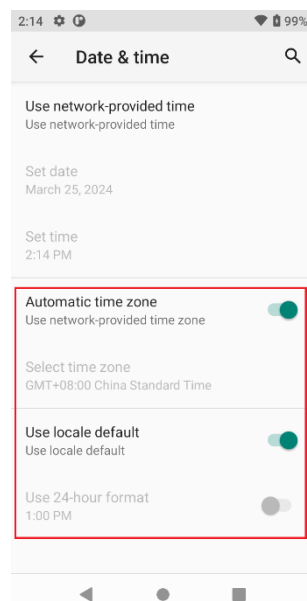


2.3 Set Date & Time

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



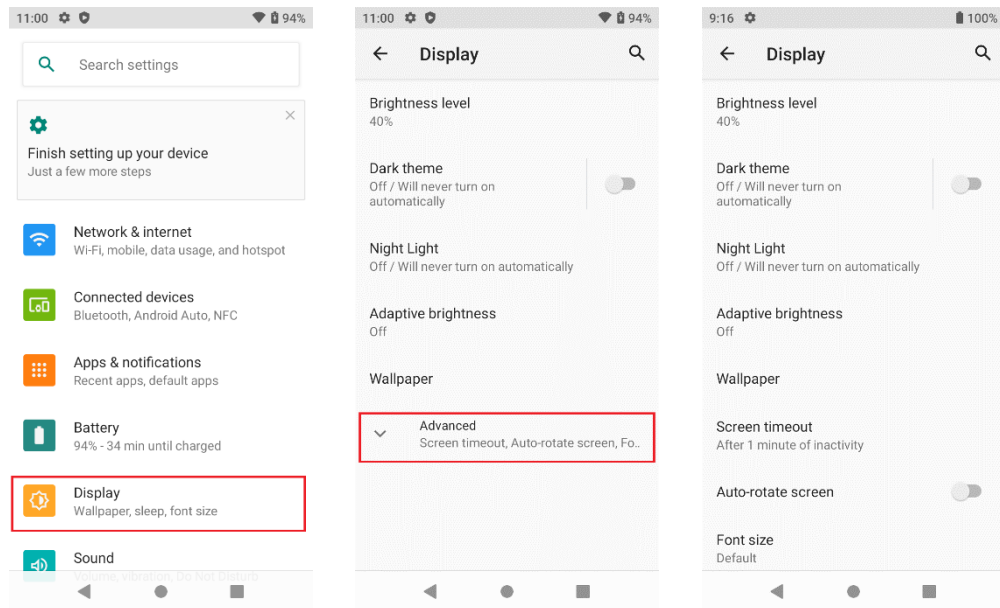
If you want to manually set the date and time, please turn off the **Use network-provided time** and proceed with manual configuration.



You can also customize your time zone and choose whether to use 24-hour format in this interface.

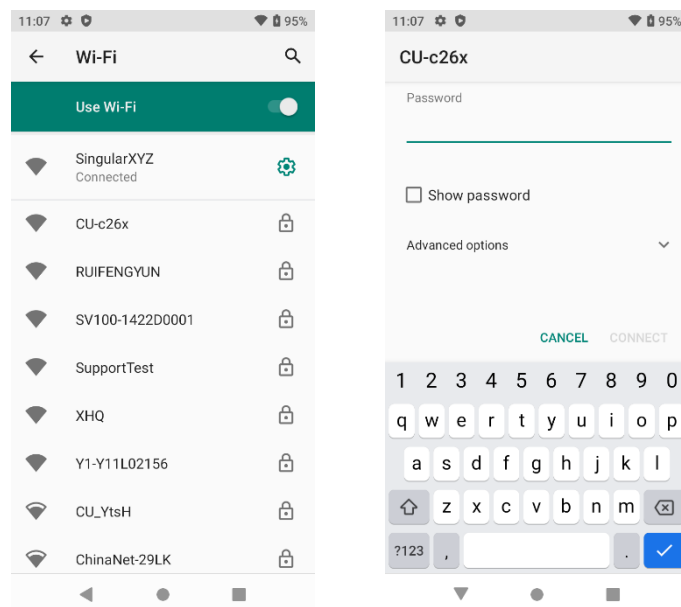
2.4 Display

Click [Settings] – [Display] to enter Display interface. Click **Advanced** to view all the options.



2.5 WIFI

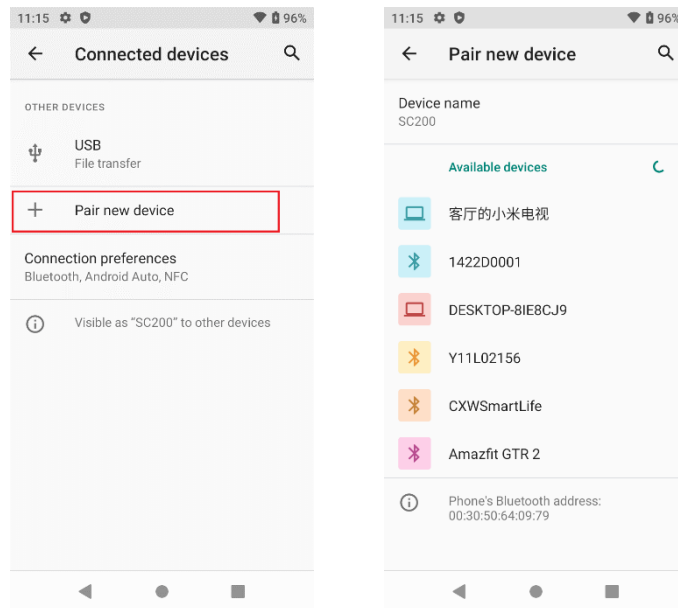
Click [Settings] – [Network & internet] – [WIFI] to switch on the button. Then select **WIFI** and type in its password to connect.



2.6 Bluetooth

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

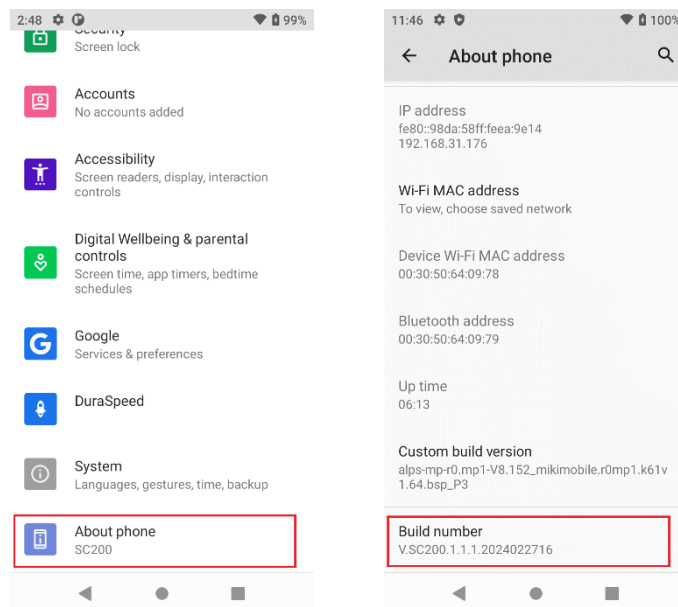
Users can view paired device list. Meanwhile, users can pair new device by clicking [Pair new device] button.



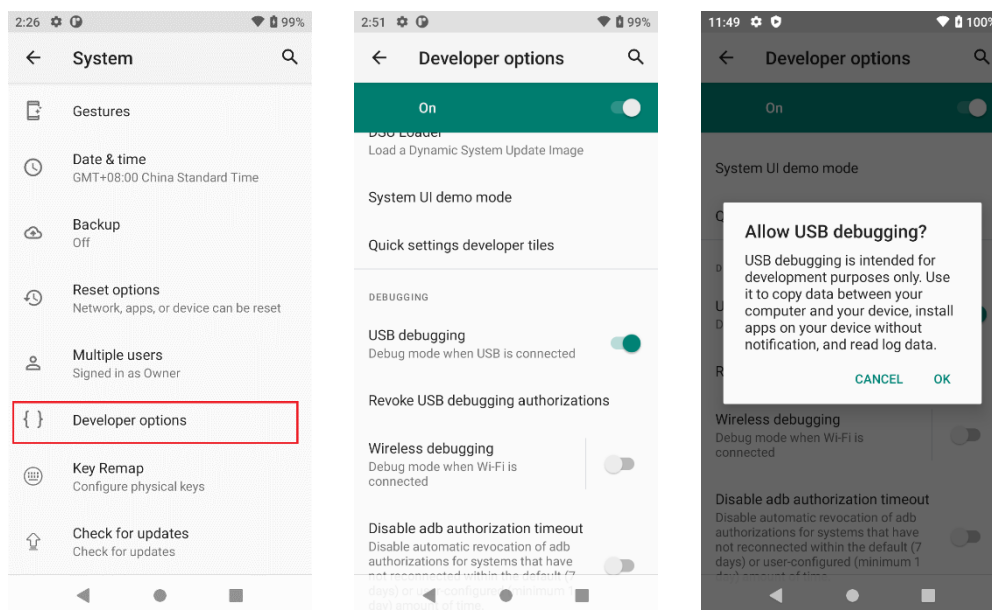
2.7 USB Connection

For connection or data transmission between SC200 and personal computer, please use the USB data cable.

Click [Settings] – [About phone] to find out [Build Number], then click [Build Number] several times until it appears at the bottom of the screen that you are now a developer.



In the end, click [Settings] – [System] – [Advanced] – [Developer options] – [USB debugging] to make sure this function is switched on. After USB data cable is connected to PC, wait until the **Allow USB debugging** dialogue pops up, click OK.



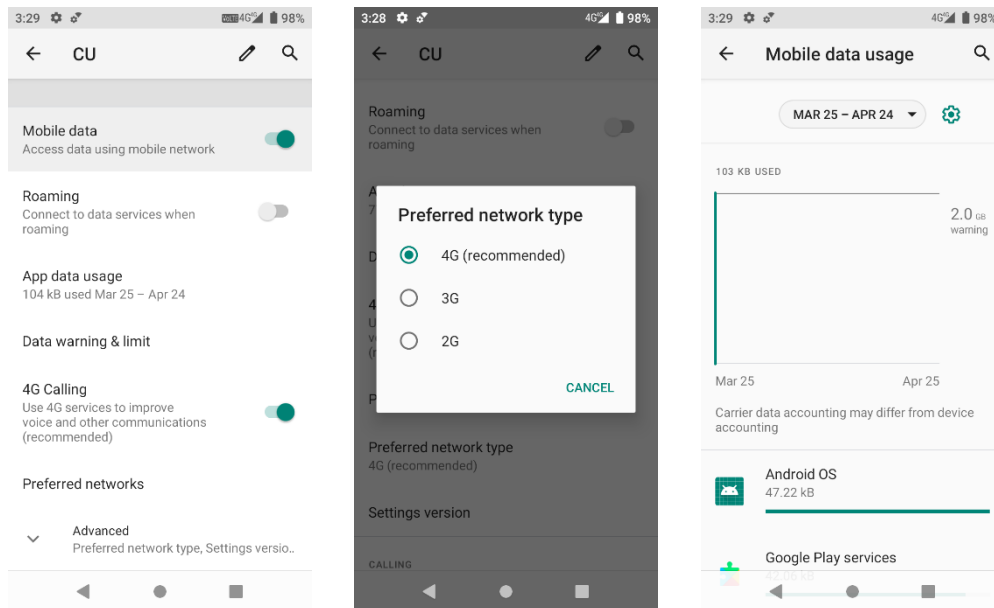
2.8 Use Camera

Please 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 also configure related parameters by yourself.



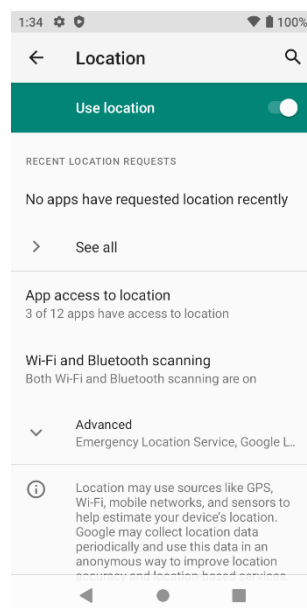
2.9 Log in 4G

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.



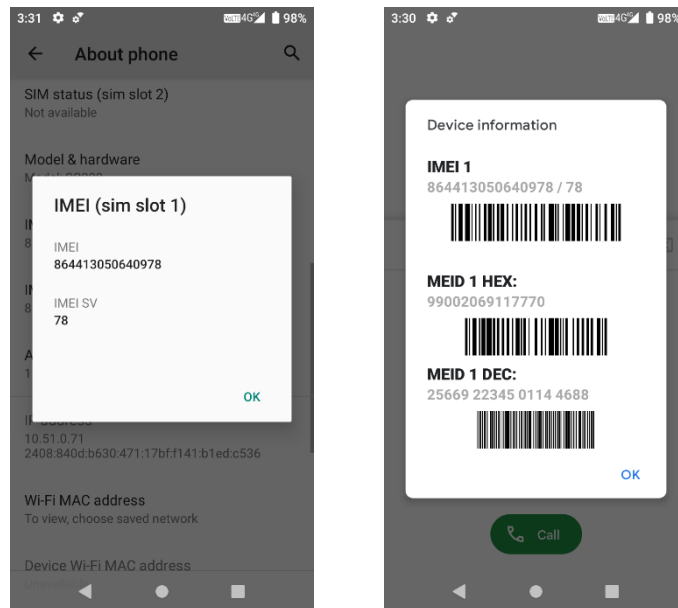
2.10 Location

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



2.11 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.



2.12 Restore Factory Setting

Click [Settings] – [System] – [Reset options] – [Erase all data] – [Delete all data], and then SC200 Data Controller will automatically shut down and restart.

Notice: After choosing [Delete all data], the memory data in SC200 Data Controller will be cleared forever!

