

P300 PLUS GNSS Tablet

User Manual

SinoGNSS
By ComNav Technology Ltd.

Preface

This manual primarily explains the functions, operations, precautions, and common troubleshooting methods for the P300 PLUS positioning terminal product.

Safety information

- Please carefully read all user materials provided with the product before use to understand the usage methods and precautions.
- During the outdoor installation of the P300 PLUS positioning terminal device, ensure proper waterproofing. When using or testing, the P300 PLUS positioning terminal receiver must be placed outdoors in an open area.
- Avoid dropping the product on the ground or subjecting it to strong impacts from other objects.
- Do not arbitrarily plug or unplug serial cables and other connection cables while the power is on.
- Strictly follow the requirements in the manual to connect your device. For cables such as the seven-core data cable, gently plug and unplug by holding the base of the connector. Do not pull hard or twist, as this can easily damage the data cable.
- Pay attention to the power requirements of the device when supplying power to the product (system).
- The device may generate high temperatures during use. Avoid burns and minimize or eliminate unnecessary coverings on the device surface to maintain good ventilation.
- Do not continue using damaged connection cables. Replace them promptly to avoid unnecessary harm and ensure proper functionality.
- Damage to the device caused by force majeure (lightning strikes, high voltage, collisions) is not covered by our company's free repair service.
- Do not disassemble the product's casing yourself, or the warranty will be void.

FCC Caution:

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.

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

NOTE: 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

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1、 Introduction

1.1 Overview

The P300 PLUS GNSS Tablet (hereinafter referred to as P300 PLUS) is an intelligent terminal developed by ComNav Technology Ltd. to meet the needs of the intelligent agricultural machinery industry. It integrates advanced technologies such as GNSS satellite navigation, the Internet of Things, computing, and communications, combining measurement, monitoring, and navigation into one device. It is widely applicable in industries such as precision agriculture, driving tests and training, construction machinery, and positioning control. Through years of practical application in these industries, the P300 PLUS has established a reputation for rock-solid quality and a positive industry reputation.。

1.2 Feature

- Compact size, 12V/24V voltage input, IP65 rating, wide temperature design, and excellent shock resistance;
- Supports multiple software applications and multitasking, Android system, 4GB RAM, 64GB storage;
- Supports 4G, WIFI, and Bluetooth modules, can be used as an independent navigation and positioning display terminal, or integrated into other control systems;
- Rich terminal interfaces, equipped with 3 USB ports and 1 RS232 serial port.

1.3 Function keys introduction

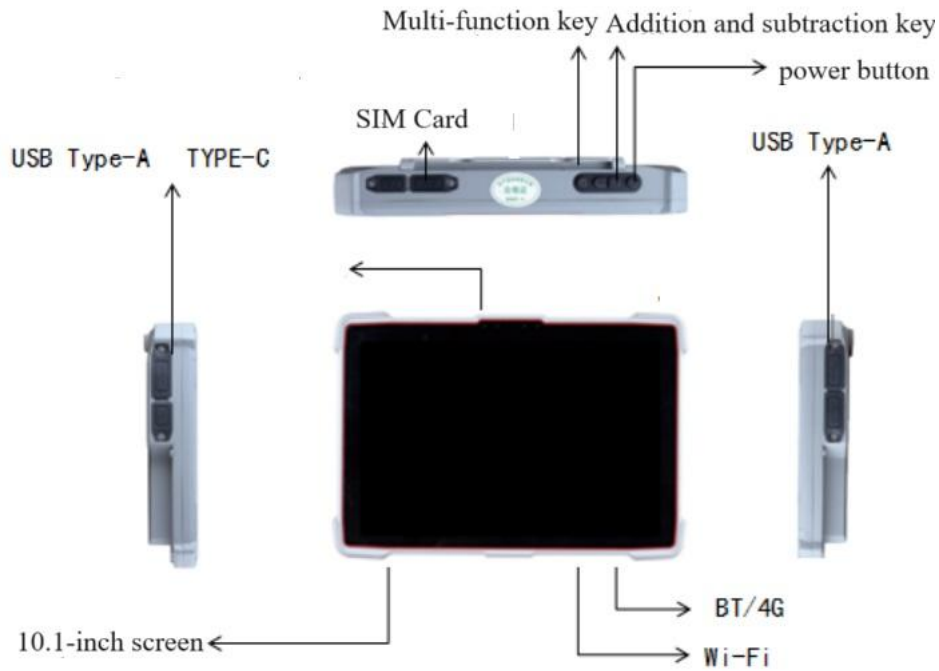


Figure 1.2 Introduction to the buttons on the front and side

1.4 Specifications

CPU	Qualcomm™ octa-core 64-bit ARM Cortex-A53™ processor 2.0GHZ
Store	RAM 4G、ROM 64G
Operating System	Android 9
Display size	10.1" touchscreen
Dimensions	1280*800
Bluetooth	Bluetooth 4.2
WiFi	IEEE802.11,AP
4G	Dual-SIM card slot
Extend storage	TF card

Port	Type C port *1 USB port *3 lemo port *1
LED light	Power light *1
Audio	Built-in dual speakers and microphone
Panel buttons	1*power button, 2*Backlight adjustment button, 1*function button
Weight	<1kg (excluding battery)
Dimensions	2650*1800*350mm
Physical	
Waterproof and dustproof	IP66
Shock and vibration	Designed to meet MIL-STD-810H
Operating humidity	100% no condensation
Working temperature	-20℃~60℃(No battery included)
Storage temperature	-40℃~85℃(No battery included)

1.5 Hardware

1. Dimensions: 2650*1800*350mm;
2. Weight: <1kg (excluding battery);
3. Material: The product shell is made of aluminum-magnesium alloy die-casting and surface spraying technology;

2、General Operation Instructions

2.1 Power on

The tablet can be powered on automatically or manually.

(1) Automatic power on: After the power cord is connected, the power indicator lights up, and the P300 PLUS displays the power on screen, and the system enters normally.

(2) Manual power on: If the system does not power on automatically, you can press and hold the power button to power it on.

2.2 Power off

Press and hold the power button for 5 seconds.

2.3 Using USB devices

The P300 PLUS is equipped with 3 Type A USB Host interfaces on the left and right sides, which can be used for peripherals such as USB flash drives, USB mice, USB keyboards, and USB wireless network cards. Another USB Host is on the LEMO C interface. The Type-C USB interface is a USB device interface, which is used for system upgrades and power supply operations.

Note: The Type C USB device interface and the Type A USB Host interface cannot be used at the same time.

There is a dust cover on the outside of the USB interface. Please open it gently before using the USB device and close it again after use.

2.4 Mobile communication network

The SIM card slot is located on the upper side of the P300 PLUS. The SIM card used is a standard Nano SIM card.

There is a dust cover on the outside of the SIM card slot interface. Please open it gently before use, insert the SIM card in the indicated direction, and then close the cover again.

2.5 WiFi、Bluetooth

P300 PLUS supports WiFi network and Bluetooth.

WiFi connection settings can be entered by long pressing the WiFi icon from the top drop-down menu, or from the settings option on the main page. After the connection is successful, you can use the WiFi network.

Bluetooth connection settings can be entered by long pressing the Bluetooth icon from the top drop-down menu, or from the settings option on the main page. After the connection is successful, you can use the Bluetooth data transmission function.。

2.6 Backlight adjustment

P300 PLUS has two backlight adjustment methods

1. Adjust through buttons:

Brighten: Press the backlight + button to increase the display backlight grid by grid;

dim: Press the backlight - button to reduce the display backlight grid by grid.

2. Adjust through the brightness adjustment slider displayed in the top drop-down list:

Slide right: increase the display brightness; slide left: reduce the display brightness.。

2.7 Software installation and opening

Software installation requires obtaining the APK installation package file through a USB flash drive or the Internet, and installing the software according to the prompts.

The software can be opened through the tablet desktop shortcut, or you can enter the all program interface to open the relevant software.。

3、Equipment maintenance

3.1 Screen maintenance

(1) Clean the touch screen on a daily basis. General dust can be removed directly by wiping with a clean and soft paper. However, for more stubborn stains, you need to use a professional screen cleaner.

(2) Reduce the possibility of the screen being exposed to sunlight. Try to avoid direct sunlight to prevent the screen from being overheated after being exposed to sunlight, which will accelerate aging.

(3) Do not click the screen with sharp objects, as this can easily cause bad pixels.

3.2 Body maintenance

(1) When dust accumulates, you can use a small brush to clean the gaps, or you can use a handheld vacuum cleaner to remove dust in the gaps.

(2) To clean the surface, you can use a soft cloth with a little detergent and gently wipe the surface of the machine when it is turned off.

(3) Try to use it in a stable state and avoid operating it in places that are prone to shaking.