HD201

Portable base station

Manual

Please read this manual carefully before you use the portable base station and please keep it properly for future reference

Catalog

01 Introduction

1.HD201 Portable base stations are mainly used for high-precision navigation and positioning operations, and can provide centimeter-level positioning services.

2.Ensure that the navigation device can be used normally without a mobile phone signal network.
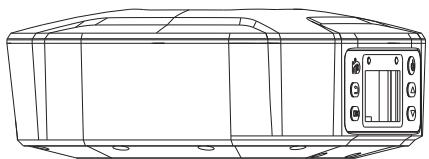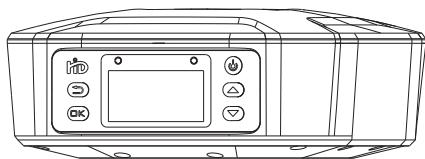
Highly integrated integrated design: built-in three-axis acceleration sensor.

Stable radio: perfect balance between signal transmission distance and low power consumption, stable signal transmission, effective transmission distance > 3km.

Ultra-low power consumption, support mobile phone power supply and battery power supply, strong versatility; standard Power bank supply, ultra-long battery life, effective working time > 24h; at the same time support battery hot swap, alternate work, never power off.

Sturdy body: It adopts industrial-grade modulated PC shell, strictly measured IP67 waterproof and dustproof standard, and resists 1m free drop. Sturdy and durable, fully adaptable to the working environment of agricultural machinery.

Access the host built-in Web operation interface via WI-FI mode is convenient for parameter configuration and version upgrade

Humanized interaction: 2.5-inch LCD display with buttons, clearly visible in the sun, humanized human-computer interaction interface.

02 Constitute

Name	Function	Picture
Mobile base station	System host, used for navigation and positioning signal reception and transmission, display and setting	
Radio antenna	Radio signal transmitter	
Mobile power (Separate sale)	Provide 5V DC power supply for mobile base station	
USB power cable	Mobile power supply and mobile base station power cable	
Alligator clip power cable	Battery (12V) and mobile base station power cable	
Power bank waterproof bag	Protects the power bank for easy hanging on a tripod	
Tripod	Easy to install and set up mobile base stations on the ground	
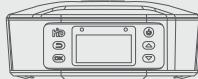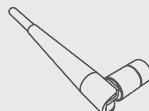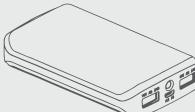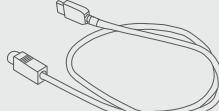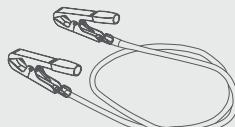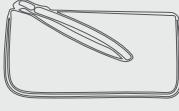
03 Interface Description

Radio light · свет силы

Return key · Power button

Enter · Up/Down keys

antennainterface   Power interface
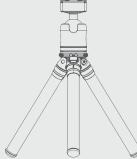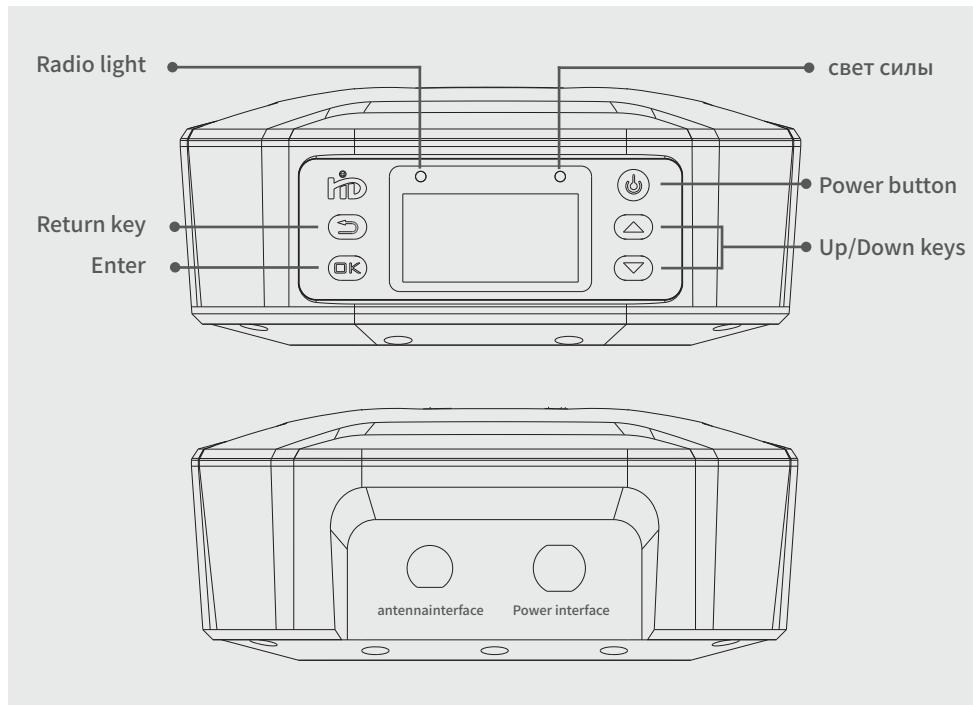
Description of buttons and indicators

Function	Tips
Power light	After the device is powered on normally, the indicator light is always red
Radio light	After the device enters the advertising state, this indicator flashes green
Power button	Switch machine: long press this key for 3~5 seconds
Up/Down keys	Main interface: switch radio channel Menu interface: function option switching
Enter	Main interface: Click the confirmation button three times in a row to enter the menu interface Menu interface: select the desired function, click this key, enter the secondary interface of the selected function
Return key	Menu interface: execute return to exit the current interface operation

The second/third number

GPS0–00 ‧‧‧‧

Pos
SEARCHING
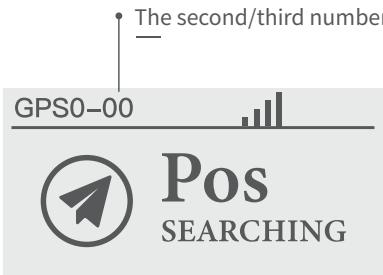
Main interface

0-none;
1-general CORS;
2-huida automatic;
3-configuration;
4-huida fixed base station;
5-huida portable base station

WiFi hotspot

Primary menu icon

04 Installation

1.The tripod should be unfolded and stably fixed near the operation plot. It is required to be erected in an open area, and the mobile radio should be erected as high as possible to ensure that there are no obstructions or high-voltage lines above.

2.Fix the portable mobile base station on the tripod

3.Connect the radio antenna to the antenna interface of the portable mobile base station and tighten the threads.

4.Connect the 4-pin plug side of the USB power cable to the power port of the portable mobile base station, insert it to the bottom and tighten.

Mobile power

antennainterface

Power interface

Radio antenna

USB power cable
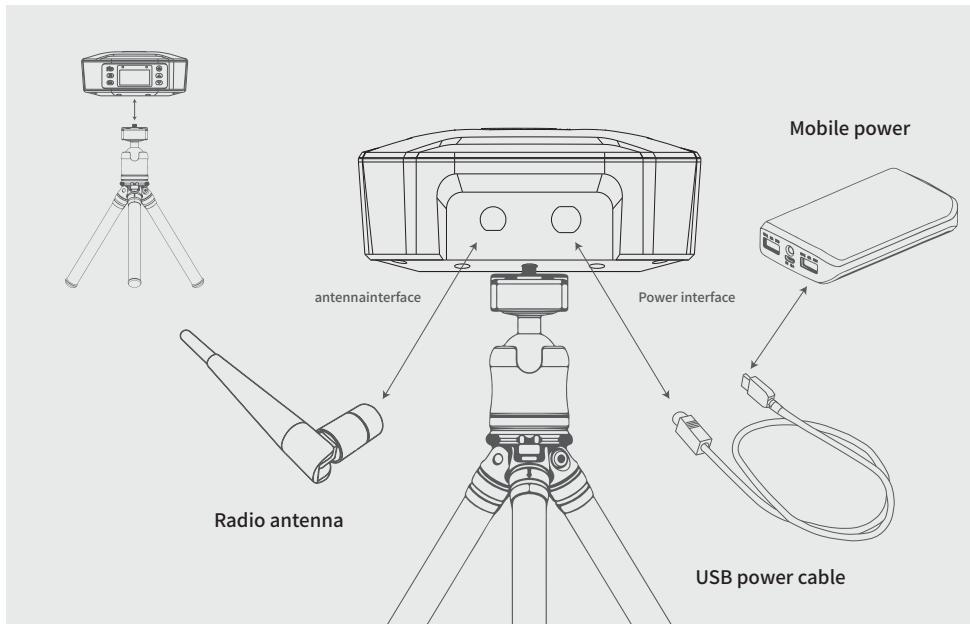
5.Press the power display button of the Power bank supply to check whether the Power bank supply has power. If the indicator light is not on or the power is insufficient, you can use a universal mobile phone charger to charge. If the power bank has sufficient power, connect the USB plug side of the USB power cable to the power bank and insert it to the bottom.

6.After the wiring is completed, you can put the power bank into the waterproof bag, pull up the zipper, and hang it on the tripod.

7. 7.The mobile base station also supports battery (12V) power supply. Connect the 4-pin plug side of the alligator clip power cord to the power interface of the portable mobile base station, insert it to the bottom and tighten it. The black alligator clip is connected to the negative pole of the battery, and the red alligator clip is connected to the positive pole of the battery.

05 Instructions for use

1. Power On & Power Off

(1) Press and hold the power button for 3-5 seconds, the device starts and lights up.

(2) The system will automatically perform GPS initialization when it is just turned on, and the screen will display "Pos SEARCHING" for a maximum of 3 minutes, after which it will automatically enter the broadcast state.

(3) When power off, press and hold the power button again for 3~5 seconds, the device will turn off and the screen will turn off

2.Channel switching

(1) After the device enters the broadcasting state, you can click the up and down keys on the key panel to switch the channel, and the user can select channels 09 to 18 according to the situation.

(2) After the power-on setting is completed, the screen will automatically turn off after 30 seconds of misoperation. Press any key to trigger the screen to light up again.
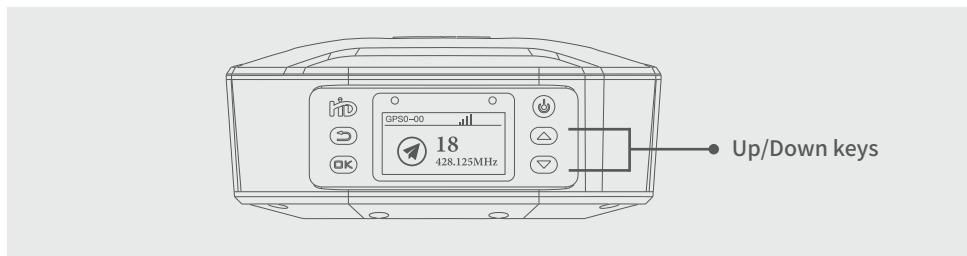
Up/Down keys

3.View device information

(1) After the screen is lit, click the confirmation button "icon ok" three times in a row to enter the system menu, click the up and down keys to find the device information option "icon", click the confirmation button "icon ok" again, and enter to view the device number and software version number.

(2) After viewing, click the back button "icon" until you exit to the main interface.

Return key
Enter

3200000441 → Device ID
10.0.4.2 → Version ID
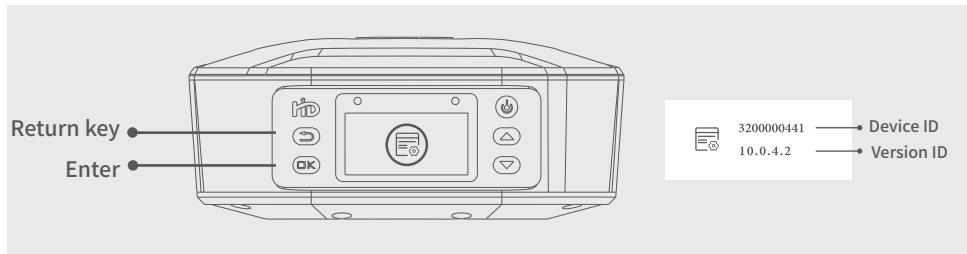
6. Instruction for Use of Drone Mode Configuration

Normal mode   Drone mode

(1) By default, the startup should wait for the system to enter the main interface. After waiting to enter the main interface, it is judged that it is currently normal mode or drone mode by ooking at the icon on the left side of the interface;

(2) When it is in Drone mode, operation is not required and it can be used directly.
If in Normal mode, manual selection is required, press OK key three times to enter the function interface, and then turn pages through the Up/Down keys. When an icon appears, click OK key to enter, then select the selection box first through the Up/Down keys, and finally return to the main interface through the return key. If displayed as Drone icon, the setting is completed and it can be used normally.

06 Notices

1.Notices

(1)The base station needs to be stably placed in a suitable position before starting the device.

(2)When it is necessary to transfer the base station to the next operation plot, the equipment should be restarted after the base station is firmly placed in a suitable position.

(3)Do not move the base station at will when the radio station is broadcasting, so as not to affect the positioning accuracy.

(4)(4)Please wipe gently with a soft cloth when cleaning the surface of the product;

(5)Do not squeeze and hit the screen with hard objects;

(6)Do not disassemble, repair or modify this product for any reason;

07 Usual question

Fault phenomenon	Tips
The power light is off	1. The power bank is out of power 2. The battery voltage is too low 3. The power harness connector is not inserted in place 4. Damaged power harness 5. Mobile base station failure
The number of satellites is 0 or less than 15, and the satellite signal at the receiving end is not fixed	1. Power bank virtual power 2. The battery voltage is too low 3. There are obstructions or high-voltage lines above the mobile base station 4. There are strong signal interference sources such as signal shielding facilities or signal towers near the mobile base station

FCC regulatory conformance：
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.
(2) This device must accept any interference received, including interference that may cause undesired operation.

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

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF Exposure
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 50 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.