



Accurate
positioning

22°43'59.57617"N 114°03'03.61546"E



P2A

BT handheld positioning Device



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Update

Version	Date	Author	Revise content
V1.0	2022-03-10	Li Song	Initial version

1. Product Description

P2A Bluetooth BDS Positioning device is a new generation of personnel positioning terminal independently developed by Jumpstar, the product adopts compact and lightweight design, professional positioning chip, with strong anti-interference, stable positioning function, with satellite positioning platform and realize the positioning of the operating personnel, scheduling, trajectory analysis, data collection and other management request. It is suitable for railroad inspection, fire emergency rescue, forestry patrol, event personnel, data collection, outdoor work and other application.

1.1 Main functions

(1).Location query

After receiving the location query command, the terminal returns the current location information of the device. The location information mainly includes: time, longitude, latitude, speed, orientation, positioning mark, etc.

(2).Parameter status query

After receiving the parameter status query command, the terminal returns the current status information of the device. The status information mainly includes: position information, terminal status, local number, return time and other configuration parameters.

(3)Version query

After receiving the version query command, the terminal returns the current version information. Version query includes: terminal model, communication module model, positioning module model, software version, software release time.

(4)Query track

In conjunction with the management platform, it can query the activity track of the terminal in the specified time period, and can play back the operation.

(5)Electronic fence setting

The terminal supports up to 50 electronic fences, the fences are in the range of rectangle, and the terminal will upload a reminder message when entering or leaving the fences.

Alarm mode: triggered, immediately generate a prompt message when out or in.

(6)Server IP and port settings

You can change the IP number and port number of the server to which the terminal is connected at any time. The new IP and port number set by the terminal will take effect immediately after the change.

(7)Remote Reboot

After the server sends a remote reboot command, the terminal will automatically power off and restart.

(8)Support remote software upgrade

Must be operated with the cooperation of the manufacturer

(9)Robbery / help alarm

Robbery/help alarm flag bit is included in the location information. When the alarm button is pressed for more than 0.5 seconds, the alarm will be generated if it is not in the state of robbery/help alarm. The alarm is canceled if it is in the alarm state. The button light will be on for a long time when the alarm is activated. When canceled, it will go out.

Alarm mode: When an alarm is generated for the first time, a message will be uploaded immediately. Later, it will be uploaded according to the interval of timed return.

Alarm canceling method: the center sends a command to cancel the alarm.

(10)Blind Zone Supplementary Transmission

When the equipment is in the blind zone of communication signal, the terminal will automatically save the position data according to the timed return time, and when the equipment receives the communication signal, the terminal will automatically upload the data stored in the blind zone to the center.

(11)SMS or platform remote query terminal parameters

Send SMS command or GPRS command to query the configuration of terminal parameters; including various parameters of the terminal, such as: TCP/UDP, local number, backhaul time, fault records, etc.

(12)Through the Bluetooth module, the device can send the positioning module data to the Bluetooth receiving device in NEMA0183 format.

2. Essential Parameter

2.1 Technical Parameters

Item	Parameter
Working Voltage	DC5V
Peak Current	3A
Operating Temperature And Humidity	-20℃ ~ +70℃, 20% ~ 95%
Positional Accuracy	2.5 m CEP
Satellite	■GPS L1 C/A ■SBAS L1 C/A ■QZSS L1 C/A ■GLONASS L1OF
Reporting interval	1 Second (default)
Bluetooth	Bluetooth 4.0
Charging Interface	Type-C
Built-in Battery	2500mAH
Working time	8hours
Size	130mmX55mmX38mm
Weight	104g

2.2 LED Indicator Definition

Indicator Light	Position	Operating status	LED display
GPS (green)	2.Positioning	NO Positioning	Lights off
		Positioning	2s/1t
BT (blue)	3.Bluetooth	App Connected	Lights on
		App not connect	Off
Power (red)	4.Power	Charging	Lights on
		Power 75% above	Lights on
		Power 25% under	2s/1t

Note s: second t: time

3. Equipment usage

3.1 Procedure

(1) Checking the equipment

Please first check whether the appearance and packaging of the device are in good condition

(2) Finish charging via USB port

(3) Install the SIM card

Turn on the device and put the SIM card into the card holder.

Please avoid damaging the card holder with excessive force and do not insert or remove the SIM card while the device is powered on.

(4) Turn on the power switch and check whether the indicator light works normally.

(5) Install and log in the platform, after logging in the platform, make sure the device has been displayed normally on the platform.

(6) Connect Bluetooth to the handheld APP and pair the device number. (e.g. P2_100001)

3.2 Physical Diagram



4. After-sales service

1. This product is covered by one-year warranty from the date of installation.
2. No repair for damage caused by customer's private dismantling or force majeure

(e.g., flood, vehicle accident).

3. After the expiration of the warranty period, due to the use of the product damage, failure, but need to charge the cost of repair materials.

4. Free to provide customers with product purchase, use, installation and other consulting and technical services.

