

# A20S GPS watch



This manual to explain how to setup and use the watch.

## How to use

Please make a note of the ID number on the label on the box. You will need this number, and a password, to log in. Check that the accessories are present inside it: a) USB charging cable with magnetic connector; b) SIM lever and c) a 5V power adaptor.

A GSM (2G) nano-SIM has already been fitted to support any of the quad frequency: GSM 850, 900, 1800 or 1900MHz. The A20S watch supports GPRS internet access, not 3G or 4G.

To power on, press and hold in the power button for 3 secs

To power off a) if the SIM is not inserted, press the power button for more than 3 secs, or b) with the SIM inserted, press the power button 10 times or use the phone app going to Settings and choosing Remote Shutdown.

To charge the watch's internal battery, attach the magnetic charging head on the contacts on the back surface. Then connect the USB cable to the mains power adaptor.

## SIM card insertion

The watch comes with a SIM already installed but for whatever reason, it may be necessary to re-install it. Before inserting the SIM, power the watch off. Using the supplied plastic lever, open the SIM bay and insert the nano-SIM into the SIM holder and very carefully close the retaining clip.



## APN setting

The APN has already been set before you receive the watch. The APN command has already been sent to the watch and doesn't need to be sent more than once, by SMS to the watch's SIM card number:

**pw,123456,apn,APN-name,username,password,MCCMNC#**

where MCC is the Mobile Country Code of the Telecom company supplying the SIM, and its MNC (Mobile Network Code) is its identifier within that country. These can be referenced at the following [link](https://en.wikipedia.org/wiki/Mobile_Network_Codes_in_ITU_region_2xx_(Europe)) (https://en.wikipedia.org/wiki/Mobile\_Network\_Codes\_in\_ITU\_region\_2xx\_(Europe)) for European SIM suppliers. If there is no username or password, leave these blank – i.e. include the empty commas in the command. The command starts with pw, followed by the password, which may or may not be the original (default) value of 123456.

After sending the APN command, there should be a reply confirming that the APN command has been received.

Example: “pw,123456,apn,bsnlnet,,,40480#” where BSNLnet is the APN name, username and password are null, the MCC of BSNL is 404 and its MNC is 80.

## Equipment features.

Positioning is achieved through: GPS satellites / BeiDou (Chinese),  
AGPS (Assisted GPS);  
WiFi positioning  
LBS Base station positioning

Device dimensions: 49 x 40 x 14.5 mm

Gross weight: 52g

Battery capacity: 500 mAh or approx 3 days normal usage.



## User interfaces

User interfaces: Small screen app: aibeile

Large screen web-app: <https://www.aibeile26.com/>

Many functions require the installation of the Aibeile app on a phone. Functions are listed in 4 locations: App home screen, More, Settings and Watch only.

## Product functions

The phone has multiple functions, of which many are relating to its use as a phone, which are not supported / enabled by our installed SIMs, which only support data, not voice traffic. All functions, other than GPS, are incidental and **we do not guarantee** them to be working reliable or accurate. Customers use these at their own risk, as we do not support them. What follows is to explain how they work only. We only assure these watches as GPS locating devices.

### App Home page

#### 1. Voice Talk (**not enabled**)

To send voice messages between the app and the watch. Needs to be set up for this first.

#### 2. Historical route review

The database retains 3 months of historical data. If 2 GPS position points are very close to each other, the redundant ones will be deleted to save storage space.

### 3. Mode (Working mode)

*There are three tracking modes to follow the location of the watch, which can be selected using the Aibeile phone app.*

- a) Rapid positioning reporting its location every 1 min. This is not recommended for long term use because it will exhaust the battery relatively quickly.
- b) Standard positioning every 10 mins (recommended).
- c) Economy positioning every 1 hr.

## More

### 4. Geo-fence

Using the phone app, select the Geo-fence function. Zoom and move the map to select where to centre the circular zone and use the slider control to set its diameter, which should be 500m minimum diameter. Give the zone a name and press Save. If the watch leaves the zone, an alarm message will be received by the phone from the server. The delay in this alarm message is related to the tracking mode selected.

### 5. App alarm Settings

There are 3 option selection (On/Off) to: a) Enable alarms; b) Sound and c) Vibration.

### 6. Alarm messages

Log file of recent alarm messages giving watch name, alarm type, and time and date sent.

### 7. Heart rate and blood pressure

On the back of the watch there is a sensor to detect your pulse. To measure blood parameters once only, click the heart rate icon on the watch. This will initiate the measuring procedure yielding a measurement results in about 30 secs, which it will send to the server. For scheduled (periodic) measurement, use the app to set parameters in the Heart Rate Check settings (icon top right) set : a) Turn upload On/Off of result to server; and b) Measurement interval (5 mins to every 12 hours). The app displays the last single or Scheduled measurement values.

### 8. Health step counter

By default, the step counter is closed/off and needs to be manually turned on using the app. After selecting it, there is a Settings icon in the top righthand corner to set the Step settings:

- a) Time – up to 3 times intervals each day when it will count. Set parameters, press Submit button;
- b) Stride length in cms;
- c) Body weight in kgs

The Step counter will then count steps, Energy consumption and Distance travelled. You can turn off the counting function when not needed.

## Settings

### 9. Working mode

As already described above.

### 10. Admin number

- a) Using the phone app, set an Admin number in format with country code/area code/number, omitting leading zeroes:  
e.g. +353 87 451234567 (but without the spaces)

### 11. Emergency numbers **(not enabled)**

Set the number for SoS alerts. SoS emergency number: Set up to 2 numbers that will be called by a long press on the Power/SoS button. The phone SIM doesn't support the watch then trying to call the first number then the second if the first doesn't answer. It will return to the first number if the second doesn't answer and repeats the cycle once only.

### 12. Whitelist numbers **(not enabled)**

Whitelist numbers: Set 5 numbers which can phone the watch. If empty any number can call

### 13. Phonebook **(not enabled)**

In the app, set up to 15 numbers that the phone can store for quick selection on the watch.

### 14. Clock alarm

It is possible to set a clock alarm, which can be: Once only / Daily / User-defined (particular day of week and time).

### 15. Fall alarm

If the Fall Alarm On/Off switch is turned on, the watch will issue an alert, if falling is detected. If the Fall Call Alarm On/Off switch is turned on it will also call the Admin number. The watch will present the wearer with the option to cancel this alert/call before it is sent, if it is an error.

### 16. Pill-taking alarm

Like the Clock alarm function, it is possible to set a reminder to take pills in 3 criteria: a) once only; b) Daily at a selected time; c) Custom on a particular day at a particular time.

### 17. Voice monitoring **(not enabled)**

To be allowed to listen-in to the watch, the watch can make a remote silent call to a monitoring number if set, formatted as before. This is done using the phone app by answering the monitoring number (phone) when it rings to listen to sounds around the watch.

### 18. Do not disturb mode

Using the phone app, it is possible to set up to 4 time intervals (Start time 0 End time) for Do not disturb conditions, when it will not be possible to call the watch. It is only available Monday to Friday, not at weekends.

### 19. Language and time zone

Presently 4 languages available: English / Chinese / Russian / Norsk. The time zone. Time zone is set by defining a +ve or -ve value (01 to 12) relative to UTC. Because there is not Daylight Savings Time option, this value needs to be manually changed when the clocks change.

### 20. Find device

If selected, there is an option to call the watch and make it ring, in order to find it.

### 21. Remote shutdown

If selected, there is an option to send a message to the watch to power it off. Ordinarily, the person wearing the watch cannot turn it off if a SIM is installed.

## 22. Call alert **(not enabled)**

It is possible to select the call alert mode from: Vibration and Ring / Ring only / Vibration only / None(Mute).

## Watch only settings

### 23. Sedentary alert

On the watch, there is an option to turn on a reminder service to detect inactivity and prompt the wearer to take exercise. Press the Power/SoS button and select from the menu (white circle below clock face) by swiping sideways to move between options to reach Sedentary. This give the means to turn the function On (Open) or Off (Close), and set the time interval (in multiples of 10mins) defining sedentary threshold.

### 24. Time announcement

BY pressing the Power button a second time within about 3 secs the watch will announce the time. Pressing a second time after this will make the analogue watch time-out and go black.

## TroubleShooting

Problem	Possible cause
Device is not enabled on app	Check if : <ol style="list-style-type: none"><li>1. SIM card is not activated</li><li>2. APN is not setup</li></ol>
Device is offline on APP	Check if : <ol style="list-style-type: none"><li>1. SIM card not receiving signal</li><li>2. GPRS is cancelled or not enabled</li><li>3. The SIM card out of credits</li></ol>
Positioning is not accurate	The device support two modes of positioning, <ol style="list-style-type: none"><li>1. GPS positioning is mainly for outdoor positioning,with accuracy around 10m.</li><li>2. Local Base Stn (LBS)/GSM positioning is for indoor positioning with accuracy around 750m.</li></ol>

## Chapter 2 Main SMS command summary sheet

Command purpose	Command format	Example SMS to GPS watch	Response
To set up center number	pw,123456,center,xxxxx xxxxxx#	pw,123456,center,13640927062#	Central number 13640927062. Setup successful
To set up the APN	pw,123456,apn,apn-name,username,password,MCCMNC#	pw,123456,apn,wap.tmobil.cl,wap,wap,73002#	APN:wap.tmobil.cl;user:wap;password:wap;userdata:73002.
To set up the upload time interval	pw,123456,upload,x#	pw,123456,upload,300#	Upload time interval:300S;setup success!; upload : 300s;ok!
Enquire about the URL for the map	pw,123456,url# (need the platform support)	pw,123456,url#	[GPS] <a href="https://maps.google.com.hk/maps?q=N22.568657,E113.8663225">https://maps.google.com.hk/maps?q=N22.568657,E113.8663225</a> [BASE] https://maps.google.com.hk/maps?q=N22.568657,E113.8663225
Enquiry about parameters	pw,123456,ts#	pw,123456,ts#	ver:G19C_BASE_V1.0_2014.05.19_09.38.29; ID:7893267577; imei:000078932675770; ip:121.37.43.203; port:8711; center:1252013640927062; upload:300S; workmode:2; bat level:3; language:1; zone:8.00; GPS:NO(0); GPRS:OK(90); LED:ON; pw:123456;
To reset the device	pw,123456,reset#	pw,123456,reset#	The device will reset
To restore factory settings	pw,123456,factory#	pw,123456,factory#	The device will reset
To set up an IP and port number	pw,123456,ip,x.x.x.x,y#	pw,123456,ip,112.95.164.119,7755#	IP and port setup success!
To set up language and time zone	pw,123456,lz,x,y#	pw,123456,lz,0,8#	lz,x,y# x=0&1 is for language with 1 for Chinese / and 0 for English. y is for UTC time zone

## Personal information security

Please install and use this product correctly. For safety, make sure only permitted and trained people use the watch. We use technology and management measures to ensure the safety of network information in accordance with data protection rules, to ensure the security of your personal information. The company will not be responsible for the illegal use of this product.

If you remove or change the product's shell, the product will lose the warranty. Please use the provided accessories to avoid damage and warranty violation. GPS2Find Ltd does not undertake any responsibility where adequate care has not been observed.

Please do not:

- 1 Let the watch get wet or be immersed in water;
- 2 Let the watch get near a fire source, high temperature or an extreme environment;
- 3 Let children eat the watch or parts of it;
- 4, Use another charger other than the one provided or not 5V DC output.

When the product is powered off or if the GPRS service is lost, the positioning function will not work.