GR





CAUTION

Thank you for choosing our product.

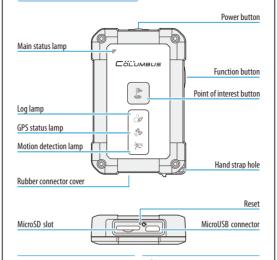
This manual is intended to guide you through the safe and correct use of the product and its accessories, avoiding improper operations that may result in injury of yourself or any other person or cause device damage.

As a precision electronics, the product contains no component that can be repaired by your own. Any attempt to disassemble the product will void the original manufacturer's warranty.

The protection class is IP66, P-1 can work normally in rain, snow and high dust environments. The rubber connector cover must be fully covered.

Do not immerse P-1 in water. Do not try to damage or puncture the device, otherwise, electrolyte in its built-in battery may leak or combust, causing injury or environmental pollution.

Parts Description



Main Status Lamp

- · Power on: Green, always on
- Sleeping: Green, flashing
- · Low battery: Red, flashing
- · Charging: Red, always on
- · Fully Charged: Green, always on
- · Spv mode: Blue

GPS Status Lamp

- · Acquiring satellite: Always on
- GPS is fixed: Flashing

a Log Lamp

- · High speed log: Flash every 1 second (10Hz/5Hz)
- · Normal log: Flash every 3 seconds (1Hz/distance interval)
- · Pause: Always on
- MicroSD card error or no card: Continuous flashing

Motion Detection Lamp

- Motion Detection Mode On/Offs Always On/Off
- · Device is in motion: Flashing

Power button

- Long press: Turn On/Off.
- · Short press: Turn On/Off Motion Detecting Mode.

Point of interest button

- Short press: Mark the current position as a point of interest (POI). (for CSV files only)
- Long press: Start a new track.

FN Function button

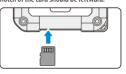
- · Short press: Pause / continue logging (default).
- · This button can be configured to other functions, see page 5.

○ Reset

 If the device stops responding, use a pin to press the reset hole to reset.

Logging a track

P-1 supports high capacity SDXC MicroSD card, we recommend the 4G-32G. Insert the MicroSD card into the slot. Please note the direction of the card. The notch of the card should be leftward





Long press the "Power button" to power on.



Wait for GPS positioning in the open air. The cold start needs 1-3 minutes. When the "GPS lamp" and the "Log lamp" start flashing, it indicates track logging has started.





5 Long press the "Power Button" to turn the device off and save the track

Do not remove the memory card while it is turned on. which will result in data loss!



If the memory card fails to log, the Log lamp will flash continuously with continuous warning sound. In such case, please format or replace the card.

Loa Mode

P-1 has three operating modes: Normal Mode, Motion Detection Mode and Spy Tracking Mode.

Motion Detection Mode

How to enter this mode: Power on, short press the "Power Button", the motion detection lamp (white) lights up.

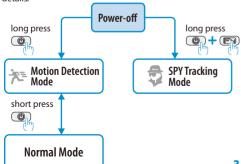
When P-1 is stationary, the lamp is on. When P-1 is in motion. the lamp is flashing. When P-1 stops moving or loses the satellite signal more than 5 minutes, it enters the standby mode automatically. Once P-1 detects motion, it automatically wakes up and continues to log. This mode is suitable for long time records of vehicles and other large objects.

Spy Tracking Mode

How to enter this mode: In the power-off state, press the "Power button" and the "Function button" simultaneously for about 3s.

In this mode, P-1 gets positioned and logs 8 way points at a certain time interval*. When P-1 is standby, the main status lamp intermittently flashes in blue. All other lamps on the device are off and the speaker is mute. This mode is suitable for tracking your car for an extended period, or for places where charging is unavailable, e.g. in a long hiking.

*The value of the interval can be customized. See page 5 for details.



Configuring the Device

Obtain the configuration file

For the first use, visit the link to obtain the configuration file which is named as CONFIG.TXT: http://cbaps.com/p1/config_en.htmn



Configuration steps

- 1 Turn off P-1. Connect P-1 to the computer with the cable, copy the configuration file under the root directory of the MicroSD card, and eiect the device.
- In the power-off state, press the "Power Button" and the "POI Button" simultaneously until you hear 3 short beeps, then the 3 lamps will flash three times at the same time, and finally you hear one long beep, indicating the configuration is successfully completed.







х3



Details about configuration

TimeZone	$\begin{array}{l} -12:00, -11:00, -10:00, -09:30, -09:00, -08:00, -07:00, -06:00, \\ -05:00, -04:30, -04:00, -03:30, -03:00, -02:30, -02:00, -01:00, \\ +00:00, +01:00, +02:00, +03:00, +03:30, +04:00, +04:30, \\ +05:00, +05:30, +05:45, +06:00, +06:30, +07:00, +08:00, \\ +08:45, +09:00, +09:30, +10:00, +10:30, +11:00, +11:30, \\ +12:00, +12:45, +13:00, +13:45, +14:00 \end{array}$

Time zone. The default is UTC time (+00:00), please check your local time zone in advance (for CSV files only).

Speed alarm. When the speed exceeds the value, the P-1 will alert. Short press the "POI Button" to temporarily stop.

AutoPowerOn OFF, ON

Auto power on. When connecting to the MicroUSB cable, P-1 automatically turns On/Off with the power status.

eeper	OFF, ON

Beeper, Turn On/Off the beeper

FunctionButton Pause, POI

Format

Function Button, It can be configured for two purposes; POI or Pause. Pause: Press this button to pause logging, press again to continue.

POI: Press this button to mark the current position as the second type of POI (for CSV files only).

[RECORD] Values for configuration (the blue value is default) CSV. GPX. NMEA

Track format, P-1 offers three original file formats; CSV (plain code format). GPX (common exchange format), NMEA (NMEA 0183 format).



Loa mode, By frequency, e.g.: 1Hz, 5Hz, 10Hz: By distance, e.g.: 5m, 10m, 20m (Metric) / 20ft, 50ft, 100ft (Imperial).

Speed mask: Only record the track points whose speed exceeding the value

5 - 60. default: 15 SpyModeTimer Interval of Spy Tracking Mode: Set up the wake up interval (minute)

OneTrackPerDay OFF, ON

One track per day. OFF: A new file is generated each time it is turned on. ON: Only one file is generated per day, and the tracks are automatically

Values for configuration: [UNIT]

Speed Unit: km/h (Metric), mi/h (Imperial).

km/h, mi/h This configuration is only valid for SpeedAlert and SpeedMask.

Tips about configuration error

- Users can customize the configuration, only limited to the contents and formats listed in the above table (case sensitive).
 - Attention! The configuration cannot take effect if the configuration value does not conform to the format and content requirements. In case of abnormality, the main status lamp will flash in red, and the buzzer will give 5 short beeps as an error prompt. Please check the configuration values and fix it.



merged into one track.

Speed



Configuration Failure



View the current configuration

- 1 Make sure there is no CONFIG.TXT under the root directory of the MicroSD card.
- In the power-off state, press the "Power button" and the "POI button" simultaneously until you hear 3 short beeps and then one long beep, then P-1 will be turned off, which indicates that the current configuration file has been exported successfully. The current configuration file (INFO.TXT) is stored under the root directory of the MicroSD card.



Play Back the Track

Download the "TimeAlbum Pro™"

Please visit the following link to download the latest version: http://cbgps.com/download_en.htm

Read the track

P-1 is featured by USB direct reading, only need to connect it with the computer, click and open the disk.



- The data can only be read when P-1 is turned off.
- If the AutoPowerON is configured as ON, press and hold the POI button to connect the data cable.
- Please eject the disk (P-1) before disconnecting.

Track file naming







2018-08

01082050.CSV

e.g.: The track recorded in August, 2018 is saved in the "2018-08" folder. "01082050.CSV" means the CSV track is recorded at 08:20:50 on 1st August.

Detailed explanation of CSV format

The following is one track point of CSV format file recorded by P-1.

 1,T,180801,082050,27.091579N,120.293899E,76,37.5,180

 1
 Sequence number

 T
 Type of way point. T: Normal point; C: POI; D: Second type of POI; G: Wake-up point

 180801
 Date (yymmdd)

 082050
 Time (hhmmss)

 27.091579N
 Latitude (dd.dddddd). N: north; S: south

 120.293899E
 Longitude (ddd.dddddd). E: east; W: west

 76
 Mean sea level altitude (meters)

Detailed explanation of NMEA format

Course over around (degrees)

Speed (km/h)

37.5

180

\$GPGGA

\$GPGGA,165357.000,2605.8965,N,11915.8878,E,1,05,1.46 ,18.2,M,11.2,M,,0000*51 \$GPRMC,165357.000,A,2605.8965,N,11915.8878,E,0.00,0. 00,180718,,,A*6B

Global Positioning System Fix Data

165357.000 UTC time (hhmmss.sss)
2605.8965,N Latitude (ddmm.mmmm). N: north; S: south
11915.8878,E Longitude (dddmm.mmmm). E: east; W: west
1 Position fix indicator
1: GPS SPS Mode; 2: Differential GPS

05 Satellites used

1.46 HDOP (Horizontal Dilution of Precision)

18.2,M Mean sea level altitude (meters)

11.2,M Geoid separation (meters, WGS84 ellipsoid heights)
*51 Checksum

\$GPRMC Recommended Minimum Specific GNSS Data

165357.000 UTC time (hhmmss.sss)

A A: GPS fix valid

2605.8965,N Latitude (ddmm.mmmm). N: north; S: south

11915.8878,E Longitude (dddmm.mmmm). E: east; W: west

0.00 Speed over ground (knots)

0.00 Course over ground (degrees)

180718 Date (yymmdd)

*6B Checksum

Track playback and editing



Open "TimeAlbum Pro™", the imported track can be played back or edited on the Google Maps°.

Specifications

Way points amount (Use 32GB MicroSD *1)	Approx. CSV: 580 Million points; GPX: 310 Million points; NMEA: 210 Million points
Storage card	MicroSD, MicroSDHC, MicroSDXC
File format	FAT16, FAT32
Protection class	IP66
Operating temperature	-10 °C to 50 °C / 14 °F to 122 °F
Duration *2	Normal mode: 50-55 hours (10Hz continuous recording)
Acquisition time *3	Hot start: 1s, Warm start: 32s, Cold start: 35s
GPS accuracy *3	Horizontal: 2.5m/CEP(50%); 8.0m/CEP(95%)
Geodesics	WGS-84
Power consumption	DC 5V, 800mA
Dimensions (WxHxD)	55.0×85.0×17.7mm / 2.2×3.3×0.7in
Weight	75g / 2.6oz

^{*1} Way points amount is an approximate value and may slightly vary from different conditions.

On content unmentioned in the instruction, please visit the official website at any time to learn about the latest use skill and information.

^{*2} Duration is subject to the environment of use, operating temperature.

^{*3} The test was done outdoor, in an open area.