The User Manual

MPIP-620

V1.0.1

China Aerospace Telecommunications Ltd

Revision history			
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1. PRODUCT INSTRUCTION

MPIP-620 is a lighter motorcycle tracker with high precision GPS positioning module developed by, use the GPRS and SMS dual mode. The appearance is very delicate and the operation is simple bythe APP "Lit Guardian".it can provide positioning monitor, security, and running status for motorcycles , and also provide fortification, towing alarm when in danger， whichreminds the users of real-time security guard.

2. DISCLAIMER

MPIP-620 motorcycle tracker is developed on the GPS application, for the embedded GPS receivers must keep communication with the satellite, therefore the device may be affected in the region of the electromagnetic shielding or cover above the device (eg： Indoors. In tunnel. Underground parking or below the bridge)

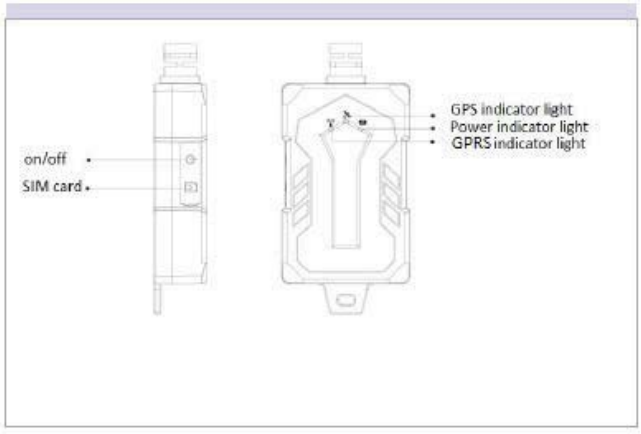
MPIP-620 motorcycle tracker is wireless and should be far away from fuel depots, chemical plants where may explode , and the device may be affected at the gas stations, hospitals and schools where may install radio frequency interference;

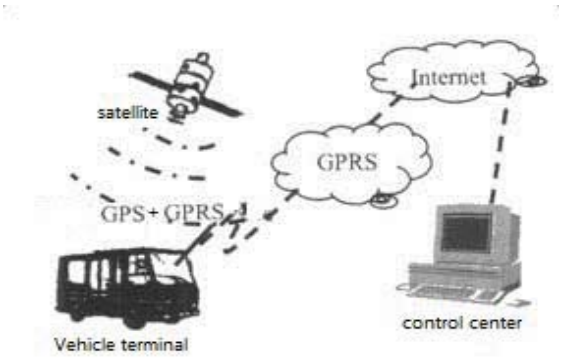
Because this system use the GPRS global communication technology to communicate with the monitoring center, so the user must choose the network provider which support the GPRS data service of the SIM card on the region where the vehicle driving, and ensure the SIM card is available, do not choose the SIM card which restricted by region;

In order to guarantee the use of the product, please select accessories provided by the original factory;

The content of the user manual compiled in "current status" form. China Aerospace Telecommunications LTD will not provide any guarantee with the correctness and reliability of the user manual . China Aerospace Telecommunications LTD reserves the right to revise or retrieve the user manual without any notice in advance.

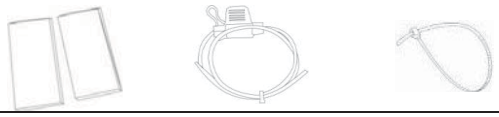
3. PRODUCT PARTS FIGURE AND INSTALLATION DIAGRAM



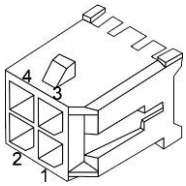


4. PRODUCT ACCESSORIES SHOWN

note：The following pictures are for reference only, actual appearance refer to the product.

	
Installation kit (fuse, Velcro, cable tie)	The power cable

5. INTERFACE SPECIFICATION

The interface type		pin	Function definition	Note
	2x 2-PinThe connector The power port	1	AWG22，gray，ACC	
		2	AWG22，black，ground wire of power（-）	
		3	AWG22，red，power（+12/+24V）	
		4	AWG22，purple，cut-off fuel/power	
USB interface				
SIM card interface				

6. INDICATOR LED STATE INSTRUCTION

graphic	Related system	the color of indicator	State of indicator	State of the device
	Power	Red	Off	No power
			Flash	Working well
	GPRS	Blue	Off	Sleepy or no power
			Flash	Internet log on successfully
			On	Internet log on unsuccessfully
	GPS	Green	Off	Sleepy or no power

			Flash	Satellite location successful
			On	Searching the signal

7. EQUIPMENT FUNCTION INSTRUCTION

7.1 REAL-TIME LOCATION

User can send command to tracker from the APP "real-time positioning"， then tracker immediately upload the current GPS position information to the APP．User can check the tracker's current location information through the APP.

7.2 TIMING LOCATION

Users can set the frequency of uploading the location to the APP in the Settings “location frequency” as they want, and also can view the historical route through the historical route query , the historical route can be stored for a month.

7.3 BLIND AREA AND RESEND SUBSEQUENTLY

When tracker in GPRS signal blind area, device will stored the position information in local automatically according to the tracker’s frequency set by user, and when tracker recovery immediately sent to the APP ,so users don't worry about the lack of information;(note: the current equipment only save 3000 blind area data, and when the flash is full then delete history data to ensure the circulation use of storage.)

7.4 ELECTRONIC FENCE

Users can set the specific circular area to ensure the safety running of the motorcycle through the "electronic fence" .If the equipment or vehicles out of range, tracker will automatically send the "cross-border“ alarm to App. So far only support to set one circular area;

7.5 HISTORIC TOUTE

Historical route can store information in a month, and allows user to select any time as they want .

7.6 SECURITY FORTIFY

When the motorcycle is shutdown, the user can do anti-theft security settings through the APP " fortify", . Before user cancel the setup, if start the ignition, tracker will send alarm to APP to notify the user that the motorcycle may be started illegal to prevent the motorcycle stolen。

7.7 ALERT ALARM

Tracker can provide a series of emergency alarm reminds according to the setting。

1) **Low voltage alarm：** Users no longer worry about forgetting to recharge tracker；
2) **Electronic fence alarm：** **it will remind the user w**hen the tracking target out of the safety area ;

3) **The main line alarm**：it will send APP to prompt the user that equipment is unloaded now when someone illegally uninstall tracker and detect after the power disconnect；

4) **Over speed alarm**：it will send alarm to the APP reminding user to safety driving when the speed of the motorcycle exceeds the value set in the APP;

5) **Towing alarm** : it will send towing alarm to the APP informing the user the motorcycle moved illegally to avoid stolen after the motorcycle parking in fortified.

7.8 PARAMETERS SETTING

Users can set the character, tracking frequency, account password, and a series of characteristic parameters。

8. INSTALLATION INSTRUCTION

！WARNING：The following guidelines are only for reference and advise to installe the device by professional person.Any damage due to incorrect operation, the company will not be responsible for it。

8.1 SIM CARD INSTALLATION

Please insert the SIM Card before install the host and follow the steps as below：

1) Firstly open the SIM card cover；
2) Put the chip of the SIM card above，gap inside and insert into the cassette Insert the SIM card according to illustration on the cover.
3) Press the power button beside the SIM card；
4) Have the cover of the SIM card 。

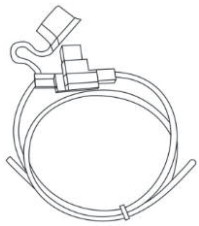
8.2 SIM CARD INST THE WIRING OPERATION SPECIFICATION AND INSTALLATION OF THE HOST

1) The way of checking the line: user can check the position of the line with the below instruction before they install the product。

a. The way of checking the power cord
b. The way of checking the ground wire
c. The way of ACC checking wire(IGN+)
d. The way of checking pump wire

2) the power cord and multifunctional line connection

a. please refer to the instruction when installation ，ensure the port connected correctly;；
b. Before installation please remove the fuse in the holder fuse to ensure that the power cut-off；



c. All joint and exposed threads must be insulation

d. Power cord requires to connect fuse blocks with the joint within 0.3 meters，Ground line take iron principle nearby to host and the wire no more than 1 m

8.3 THE HOST PLACEMENT

1) The place of host installation should be choose in advance, and need to be firm、concealment、 moisture, also avoid high temperature and be away from magnetic fields、 sound system、 ABS system and other sensitive electronic equipment; At the same time requires to install in a place where is not easy to be found. The installation place should be selected in advance. And it required install firmly, concealment, dry, far way from high temperature and magnetic fields, stereo, ABS system and other sensitive electronic devices. And also the place should be subtle, not easy to be found.

2) Recommended host installation location is : xxxxxxxx

3) Installation position can check as below：

8.4 END OF THE INSTALLATION

1) Please insert the fuse to fuse holder to get the power connected after all the equipment installed；

2) Please check all equipment working correctly when start motorcycle。

3) If found any abnormal, please cut off the power immediately and check all connection again, or check in the professional maintenance station.

Use the APP to check the positionRefer to the manual or contact with the authorized dealer if there is any problem.

9. PACKING LIST

9.1 THE STANDARD CONFIGURATION

Standard accessories	number
MPIP-620 vehicle terminal host	1
Power cord	1

The installation accessories(including fuse , Velcro, tie)	1

10. MAINTENANCE INSTRUCTION

For ensure to use the device correctly and extend the device life time , pay attention to the following notes during installation and maintenance：

1) The power voltage range is 9 v - 36 v of DC, recommend value is 12 Vor 24 V.Check the power range before installation. To avoid damage to the device or the SIM card , don't plug antenna or remove the SIM card when the device is working.,
2) Don't connect with conductive object directly avoiding damage.Keepthe device in environment which indicate in the manual, it might damage thedevice if the temperature is higher than 85 ℃ or lower than 40 ℃ for a long time
3) GPRS network will be influenced when the device is in building, tunnel, or shielding area; After out of the area, the GPS signal and GPRS network will recover automatically
4) There is a backup battery,and it can be activiated after the device working with the external power supplier.. The backup power can work after the external power cut off, last for ten hours（counted with sending one message per 5 minutes.）, the exact time depends on the environment
5) This terminal external accessories can be used only from China Aerospace Telecommunications LTD. Unauthorized accessories may damage the device
6) In case the terminal accessories not work properly, please contact the manufacturer or the local sales

Product Warranty Card

User name

Contact

Address

Zip code

Date of purchase

The serial number of product

Emergency contact

Note

Please keep this card, so that to provide you with better service, service details see as below.。

dealers (seals) ：

Maintenance Record

Product Model：

date	Fault and maintenance record		repairman signature	customer signature
	Fault	maintenance record		

Note: the guarantee units during the guarantee must fill in this form

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The receiving and operating time may different from the SIM card, network setting or the environment.

Remark： The product is fixed on vehicle to use

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

In the users manual of the end product, the end user has to be informed to keep at least 20cm separation with the antenna while this end product is installed and operated. The end user has to be informed that the FCC radio-frequency exposure guidelines for an uncontrolled environment can be satisfied. The end user has to also be informed that any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

This device complies with Part 15 of 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.