

# MEITRACK A21 LCD Display User Guide



**Applicable Model: MVT600/T1/T333**

## Change History



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## Contents

1 Copyright and Disclaimer.....	- 4 -
2 Application.....	- 4 -
3 Product Function and Specifications .....	- 4 -
3.1 Product Function .....	- 4 -
3.2 Specifications.....	- 4 -
4 Main Device and Accessories .....	- 5 -
5 Appearance.....	- 5 -
6 First Use .....	- 6 -
6.1 Installing and Mounting the LCD Display .....	- 6 -
6.2 Connecting the LCD Display to the Tracker .....	- 7 -
7 Functions .....	- 7 -
7.1 Platform Message .....	- 8 -
7.1.1 Inbox.....	- 8 -
7.1.2 Create Message .....	- 10 -
7.2 SMS.....	- 10 -
7.2.1 Inbox .....	- 10 -
7.2.2 Create SMS.....	- 11 -
7.3 Call History.....	- 11 -
7.3.1 Missed Calls .....	- 11 -
7.3.2 Received Calls .....	- 11 -
7.3.3 Dialed Calls .....	- 11 -
7.4 Settings .....	- 11 -
7.4.1 Language.....	- 11 -
7.4.2 Backlight .....	- 12 -
7.4.3 Fast Dial .....	- 12 -
7.4.4 Voice Tip .....	- 12 -
7.4.5 Set Default .....	- 13 -
7.4.6 Version .....	- 13 -
7.5 Terminal .....	- 13 -
7.5.1 Para Sync.....	- 13 -
7.5.2 Batch Set.....	- 14 -
7.5.3 Para Edit.....	- 14 -
7.5.4 Terminal Version .....	- 14 -

## 1 Copyright and Disclaimer

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## 2 Application

- Works with the MVT600/T1/T333 tracker.
- Used for real-time vehicle dispatching and management.

## 3 Product Function and Specifications

### 3.1 Product Function

- 192x64 dot matrix display in 4 lines
- Equipped with a universal RS232 interface
- Chinese/English language display and input method
- Voice tips in Chinese
- Full numeral function keys
- Hands-free microphone. The maximum communicating distance reaches 1 meter.
- Support 4 speed dial numbers by one key
- Batch settings of tracker parameters

### 3.2 Specifications

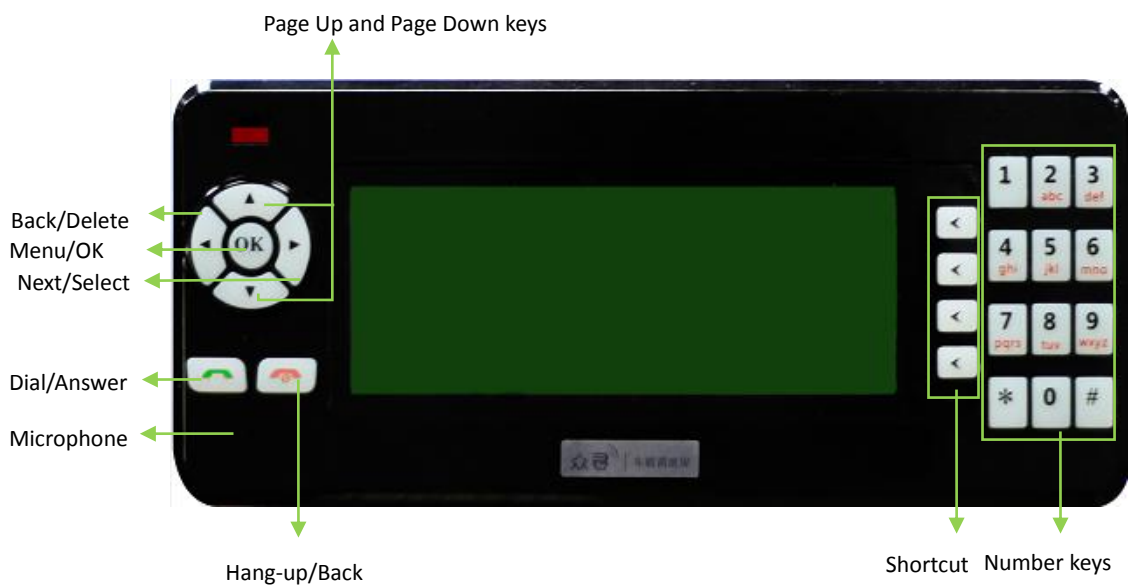
Item	Specifications
Dimension	179 mm x 77 mm x 32 mm
Weight	300g
Power consumption	25 mA
Operating temperature	-20°C to 55°C
Operating humidity	5%–95%
Operating voltage	4V–6V
Dot matrix	192x64 (Display in 4 lines)
Baud rate	115200bps
Microphone sensitivity	-26 dB
Loudspeaker power	8Ω 2W

## 4 Main Device and Accessories

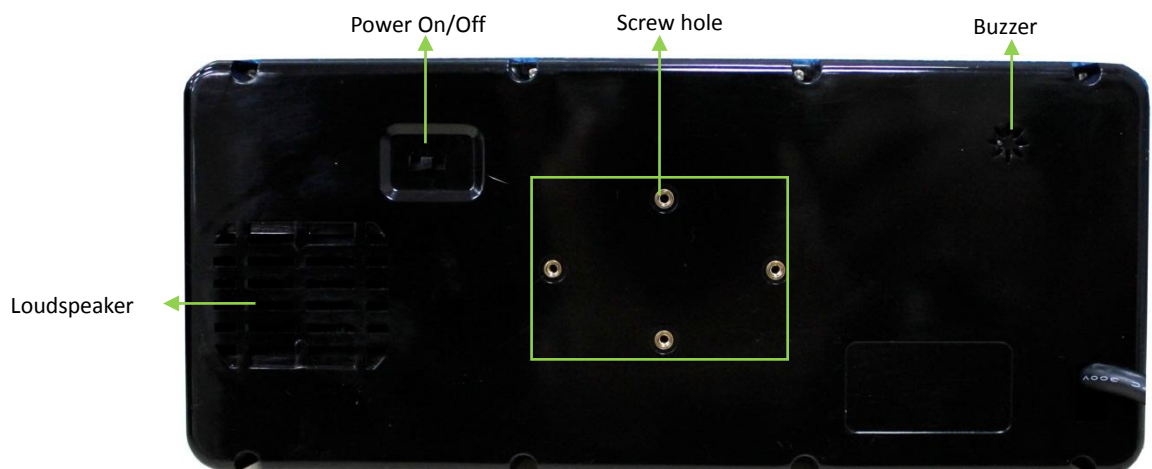
- A21 LCD Display
- Holder
- 8 screws
- 3M sticker
- Warranty card
- CD

## 5 Appearance

**Front View:**



**Rear View:**



**Side View:**



Panel descriptions are as follows:

Item	Description
<b>Dial/Answer</b>	Answer incoming calls. Dial a phone number.
<b>Hang-up/Back</b>	End the conversation. Back to the previous menu. Turn on backlight.
<b>Menu/OK</b>	Open the menu. Enter the selected menu.
<b>Page Up and Page Down keys</b>	Scroll the menu. Page Up key: Turn up the volume during a call. Page Down key: Turn down the volume during a call.
<b>Back/Delete</b>	Delete characters while editing an SMS; also called "Left key". Move left to select. Turn down microphone sensitivity to reduce noise during a call.
<b>Next/Select</b>	Move right to select; also called "Right key". Turn up microphone sensitivity to extend communicable distance during a call.
<b>Shortcuts</b>	To fast dial phone numbers and fast select desired line.
<b>Number keys</b>	<b>0–9</b> : number keys *: To answer the voice input symbol. #: To answer the voice input symbol and switch input methods between letter, number, and punctuation while editing an SMS.
<b>Loudspeaker</b>	To allow voices or sounds to be heard loudly.
<b>Microphone</b>	To make voices louder when someone is calling.
<b>Buzzer</b>	To make a sound when there is a press, SMS, and information tip.
<b>Power On/Off</b>	Switch left to turn on the LCD display; switch right to turn off it. Turn off the LCD display to save power if it is not used.
<b>Audio output</b>	3.5 mm interface; To connect vehicle's AUX input.
<b>USB port</b>	To upgrade LCD display's firmware.

## 6 First Use

### 6.1 Installing and Mounting the LCD Display

1. Installing the LCD display: Fasten the LCD display to the holder by four screws provided by Meitrack.

2. Mounting the LCD display to a vehicle: Fix the LCD display with the holder to the panel under the windshield by screws; or attach the holder base to the vehicle panel by 3M sticker.



## 6.2 Connecting the LCD Display to the Tracker

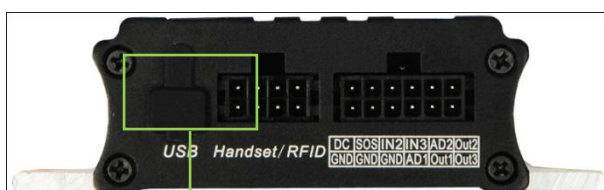
Plug the A21 LCD display into the dedicated interface of a tracker.

MVT600's dedicated interface is as follows:



Dedicated interface for A21

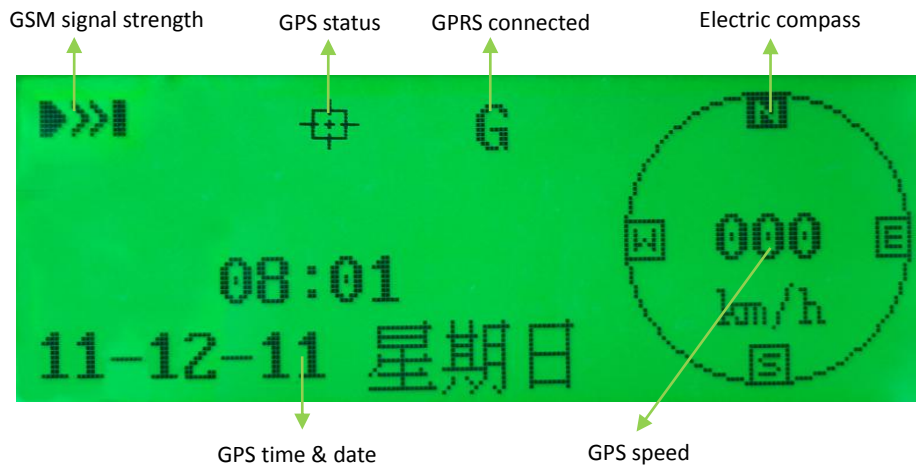
T1's dedicated interface is as follows:



Dedicated interface for A21

## 7 Functions

**Main Screen**



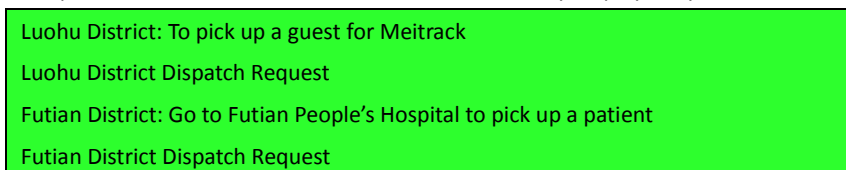
**System Menu**

Main Menu	Submenu
Platform Message	Inbox
	Create Message
SMS	Inbox
	Create SMS
Call History	Missed Calls
	Received Calls
	Dialed Calls
Settings	Language
	Backlight
	Fast Dial
	Voice Tip
	Set Default
	Version
Terminal	Para Sync
	Batch Set
	Para Edit
	Terminal Version

**7.1 Platform Message**

**7.1.1 Inbox**

Command C13 with regular format can be edited by server to send to the tracker, and then displayed on the LCD display. If the voice tip function is enabled, information will automatically be played by voice.

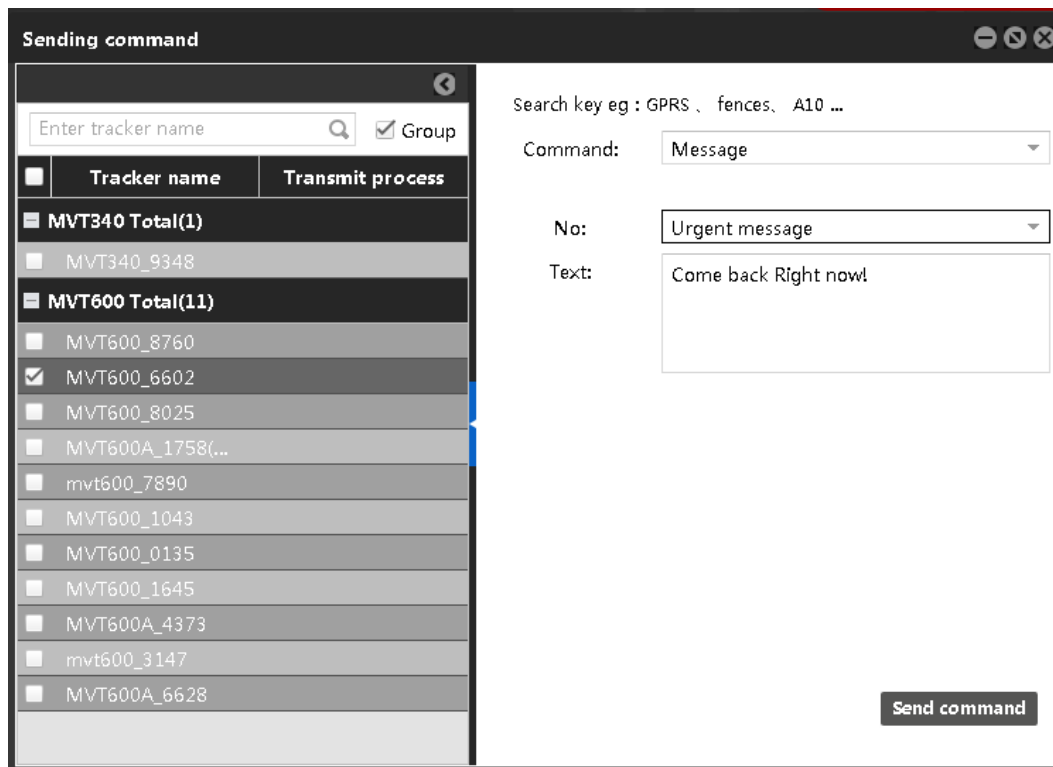




**Appendix: Sending commands in batches from MS03**

1. On the main interface, choose **Management**. On the **Management** window that is displayed, select **Sending command** from **Use Normal**.
2. On the **Sending command** window that is displayed, select a single or multiple trackers from the left pane.
3. **Command:** Select **Message**.
4. **No:** Select **Urgent message**, then information will be automatically played by voice (recommended); if **Ordinary message** is selected, information will be stored in the inbox and showed only when you select it.
5. **Text:** Input information. Chinese and English are selectable.
6. Click **Send command**.

Note: Sending progress will be showed in the **Transmit process** column. If the tracker is offline, try again later.

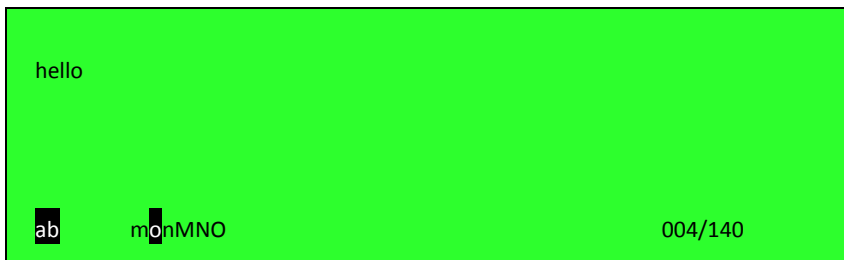


**Appendix: Command sent by server**

GPRS Setting	C13,Level,Type,Content
GPRS Reply	C13,OK
Description	<p><b>The command is used to display the GPRS information sent by the platform on the LCD display.</b></p> <p>Level: Level 0 indicates normal information, while level 1 indicates urgent information.</p> <p>Type: indicates the encoding mode. E = ASCII. U = UNICODE2.</p> <p>Content: indicates the information text and has a maximum of 150 bytes.</p>
Applicable Model	MVT600/T1/T333/T3
<b>Example</b>	
GPRS Sending	@@m42,013777001338688,C13,0,E,Test Message*08
GPRS Reply	\$\$m28,013777001338688,C13,OK*1C

## 7.1.2 Create Message

To send a message from the tracker to the platform via GPRS. Chinese and English characters are supported.




Use "#" key to switch input methods between letter, number, and punctuation while editing a message. Use "Left/Right" key to select a character. Use "Left" key to delete characters entered.

After finishing message editing, use "OK" or "Dial" key to send. There will be a notice received if the message is sent successfully.

## 7.2 SMS

### 7.2.1 Inbox

You can check unread SMS in the inbox. The left line indicates "current SMS numbers/total SMS numbers"; the middle line is the icon of unread SMS; the right line indicates sender's phone number.

1/12		+8613964112706
2/12		+8613510368551
3/12		+8613964112706
4/12		+8613964112706

Press "Up/Down" key to turn pages; Press "OK" key to read the desired SMS.

### Appendix: SMS sent by mobile phone

Command C11 with regular format can be edited by server or mobile phone to send to the tracker, and then displayed on the LCD display.

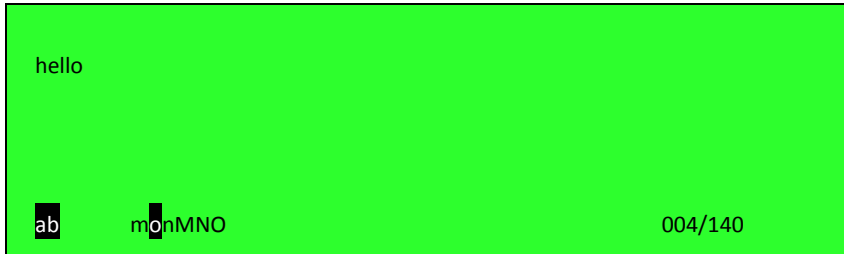
The SMS format is as follows:

SMS Sending	0000,C11,Text
SMS Reply	IMEI,C11,OK
Description	<b>The command is used to show an SMS sent by a mobile phone on the LCD display.</b> Text: indicates the SMS text. ASCII character string; a maximum of 140 bytes. The MVT600 does not support Unicode.
Applicable Model	MVT600/T1/T333/T3
<b>Example</b>	
SMS Sending	0000,C11,SMS Message
SMS Reply	353358017784062,C11,OK

When receiving an SMS, there will be a pop-up window to show if you want to read the SMS, and the buzzer will notify by sound. The third shortcut key is to read, the forth is to exit.

## 7.2.2 Create SMS

An SMS edited by the LCD display can be sent to the server or mobile phone. Chinese and English characters are supported.



Use "#" key to switch input methods between letter, number, and punctuation while editing a message. Use "Left/Right" key to select a character. Use "Left" key to delete characters entered.

After finishing message editing, press "OK" or "Dial" key and then input recipient's phone number. Press "OK" or "Dial" key again to send. There will be a notice received if the message is sent successfully.

## 7.3 Call History

### 7.3.1 Missed Calls

To show all missed calls.

1/4	13964112706
2/4	13510368551
3/4	13964112706
4/4	13964112706

### 7.3.2 Received Calls

To show all received calls. Press "Dial" key to answer the call; press "Hang-up" key to reject or end the call.

### 7.3.3 Dialed Calls

To show all dialed calls.

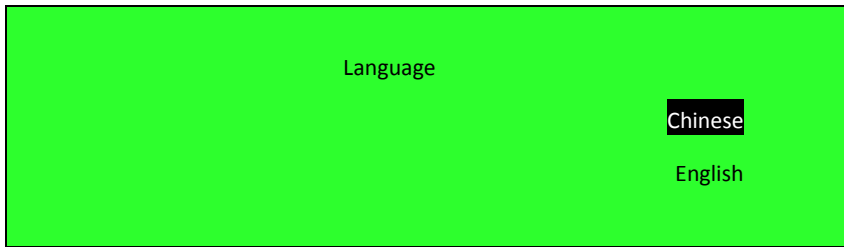
**You can use any of the following ways to dial a phone number:**

- **Common dial:** Use number keys to enter a phone number, then press "Dial" key to call; "Hang-up" key to end the call. Use "Up/Down" key to adjust volume during a call and "Left/Right" to adjust microphone sensitivity.
- **Speed dial:** Use "Shortcut" keys to fast dial the preset phone numbers. Each "Shortcut" key matches one phone number. Please refer to "Settings > Fast Dial" for details.

## 7.4 Settings

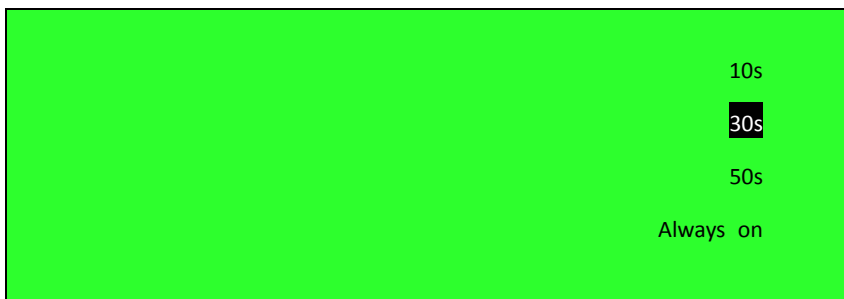
System settings include the following options: **Language**, **Backlight**, **Fast Dial**, **Voice Tip**, **Set Default**, and **Version.Language**

There are Chinese and English available for the machine. Use "Up/Down" key to select the desired language, and then press "OK" key to confirm.



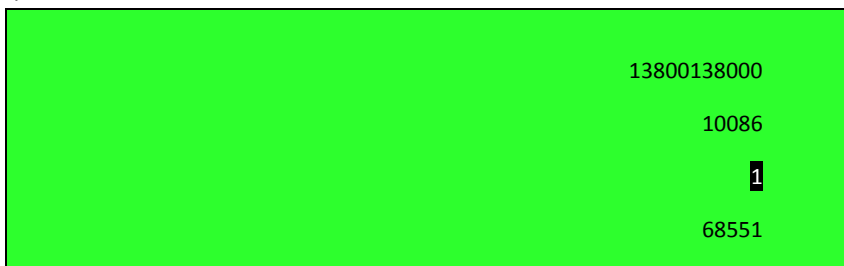
#### 7.4.2 Backlight

There are four options available: **10s**, **30s**, **50s**, and **Always on**. Use "Up/Down" key to select the desired option, and then press "OK" key to confirm.



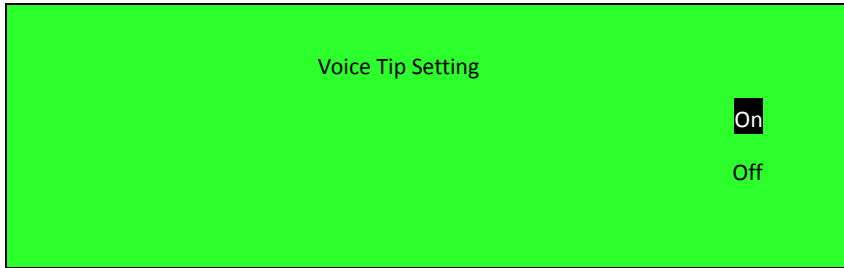
#### 7.4.3 Fast Dial

The speed dial function allows four phone numbers to be set. Each "Shortcut" key matches one phone number. Press the key for 2 seconds to dial the preset phone number. Use "Up/Down" key to select the desired phone number, and then press "OK" key to edit and confirm.



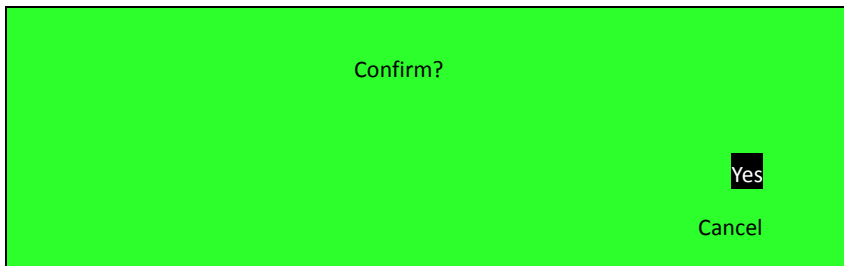
#### 7.4.4 Voice Tip

After the voice tip function is enabled, received dispatching data will be played by voice. Use "Up/Down" key to select the desired option, and then press "OK" key to confirm.



#### 7.4.5 Set Default

To restore to default factory settings. Use "Up/Down" key to select the desired option, and then press "OK" key to confirm.



#### 7.4.6 Version

To check A21's serial number (SN) and firmware version.



### 7.5 Terminal

To read and set parameters of the tracker, and edit preset parameters of the LCD display.



#### 7.5.1 Para Sync

To read GPRS parameters from the tracker and save them on A21, then synchronize saved parameters to other trackers.

```
Mode: TCP, cmnet
IP: 125.91.12.222
Port: 8500
User name:
```

### 7.5.2 Batch Set

To set parameters for multiple trackers through A21. The saved parameters will be exported from A21.

**Succeed:** indicates the number of trackers whose parameters are set successfully through A21.

**Auto Set:** To set parameters automatically.

**Set:** To set parameters manually.

```
Terminal Set
Succeed: 0
Auto Set
Set
```

### 7.5.3 Para Edit

Only the parameters saved on A21's memory can be edited. Set parameters for a single or multiple trackers.

Note: The format of IP address is IPv4; Enter numbers and dots according to actual situations.

```
Mode: TCP, CMNET
IP: 125.91.012.222
Port: 8500
User name:
```

### 7.5.4 Terminal Version

To check the SN, IMEI number, and firmware version of the connected tracker.

```
SN: 41703420347
IMEI: 012207007743971
FW: MVT600_SM9WB_FW3.08B_20120609
```

If you have any questions, do not hesitate to email us at [info@meitrack.com](mailto:info@meitrack.com).