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Project	For MVT600/T1/T3	Creation Date:	2011-12-30
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File Type	Accessory User Guide	Page:	1 of 16
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## MEITRACK® LCD Display



**A21**

**User Guide**

**Applicable to: MVT600/T1/T3**



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## 2. Application

- Using for match with Meitrack terminals with RS232 interface.
- Using for dispatch and management of vehicles

## 3. Functions and Specifications

### 3.1 Functions

- 192\*64 lattice LCD display in 4 lines
- Universal RS232 interface
- Chinese/English language display and input method
- Voice tips in Chinese
- Fully functional keys
- Speakerphone voice communication. The maximum communicating distance reaches 1 meter
- 4 one-key speed dial numbers
- Batch setting of terminal parameters



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### 3.2 Specifications

Item	Description
Dimension	179 x 77 x 32mm
Weight	300g
Power Consumption	25mA
Operating Temperature	-20°C~55°C
Operating Humidity	5%~95%
Operating Voltage	4V-6V
LCD	192 x 64 (Display in 4 lines)
Baud Rate	115200bps
Microphone Sensitivity	-26dB
Loudspeaker	8Ω 2W

### 4. A21 and Its Accessories

- A21
- Holder
- 8 screws
- Glue
- Warranty Card
- User Guide CD

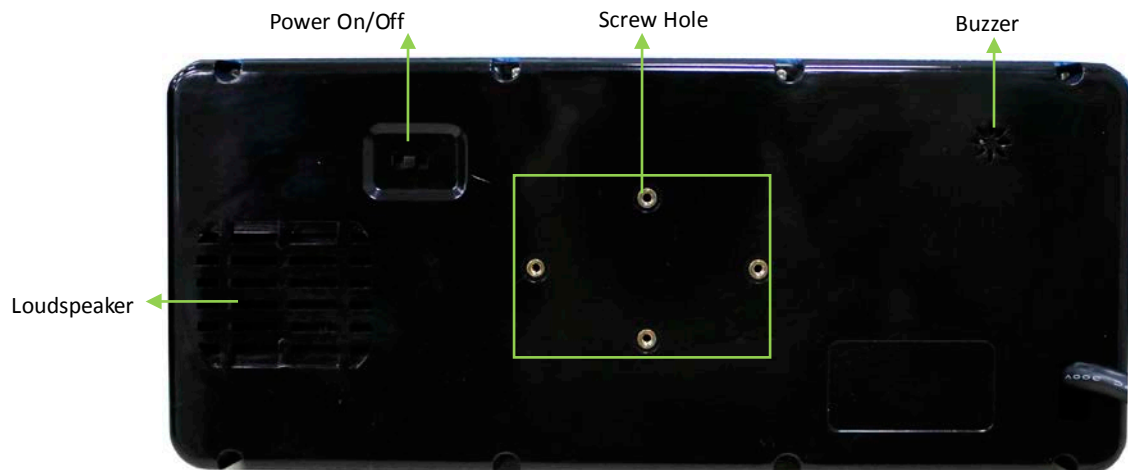
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## 5. View

### Front:



### Back:



### Side:



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Panel Descriptions:

Items	Descriptions
<b>Dial/Answer</b>	Dial a phone number Answer incoming calls
<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>Up/Down Rolling Key</b>	Roll the menu Up key: Turn up the volume during a call Down key: Turn down the volume during a call
<b>Backspace/Delete</b>	Delete characters when composing SMS; also Left key To move left to select Turn down microphone sensitivity to reduce noise during call
<b>Next/ Select</b>	To move right to select; also Right key Turn up microphone sensitivity to extend communicable distance
<b>Fast Answer</b>	For fast dial numbers and fast select contents of corresponding line
<b>Number Keys</b>	<b>0-9</b> : common number keys <b>*</b> : To answer the voice input symbol <b>#</b> : To answer the voice input symbol and switch input method when composing 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>	Buzz when there is press, SMS and dispatch data
<b>Power On/Off</b>	Left: On, Right: Off Turn off the power to save battery if the dispatcher will not be used for a long time
<b>Audio Output</b>	3.5mm interface, to connect AUX input of vehicles
<b>USB Interface</b>	To update firmware of the dispatcher

## 6. First Use

### 6.1 Installation and Fixation

Machine and Holder: fasten the machine to the holder by the four screw holes.

Holder and Vehicle: Fix the holder on the panel under the windshield by screws; or stick the bottom of the holder to the vehicle panel by glue.

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## 6.2 Connecting to Terminal

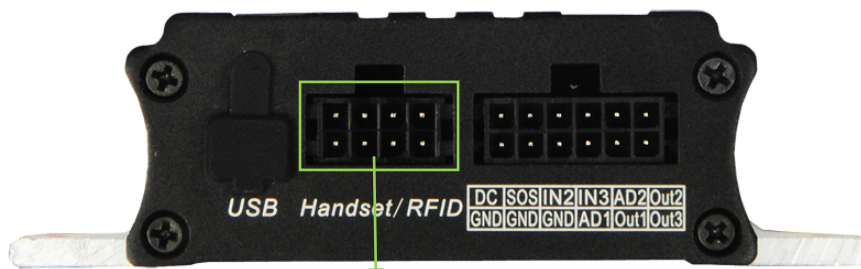
Connecting A21 to the tracker's interface tailored for A21

MVT600 interface:



Interface for A21

T1 interface:

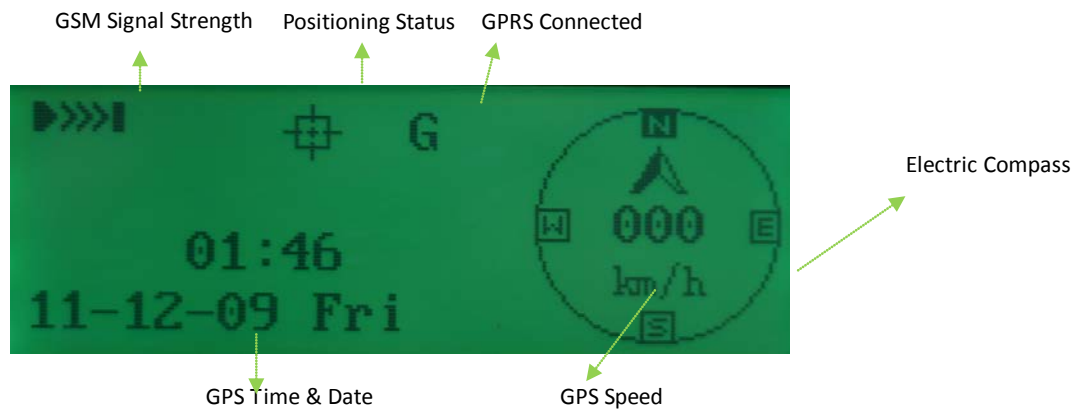


Interface for A21

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## 7. How to Use

### Main Screen



### System Menu

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



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## 7.1 Message

### 7.1.1 Inbox

Command C13 with regular format can be edited by server to send to the tracker and can be displayed on the screen. If voice tip is valid, it will be voice played.

Luohu District: to pick up a guest for Meiligao  
Luohu District Dispatch Request  
Futian District: go to Futian People's Hospital to pick up a patient  
Futian District Dispatch Request

Appendix: MS02 send operation:

1. Select command panel, tick the terminals you want to choose.
2. Model: select MT or MVT series, T1 is a model.
3. Command: select message.
4. Serial Number: select "urgent message", then it will be voice played (recommended); select "common message", then it will be in Inbox and showed only when you select it.
5. Content: input content, Chinese and English are selectable.
6. Click "send" button.

Note: the Status in the Device List will show sending result. If the device is offline, please retry a moment later.

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**Control Panel** >>

**Device**

	Device Name	Latest Update	Status	Retu
<b>Demo (10 Devices)</b>				
<input type="checkbox"/>	2011年广东-产...	11-12 16:51:10		
<input type="checkbox"/>	MT90停用	09-05 13:38:28		
<input type="checkbox"/>	MVT600-Fuel	10-13 17:19:41		
<input type="checkbox"/>	Tu0387	---		
<input type="checkbox"/>	VT310_Demo-n	11-05 14:06:45		

**Command** >>

Model:

Command:

Index:

Text:

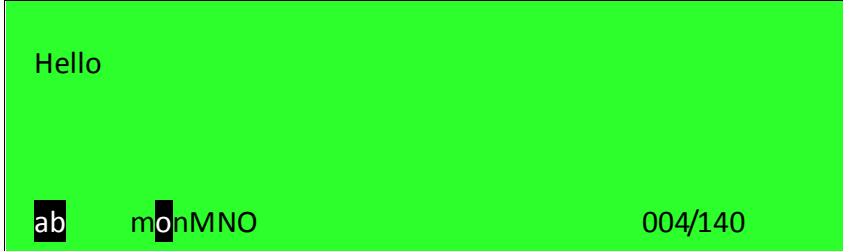
Appendix: Command Format by Server

GPRS set	C13,level,type,content
GPRS get	C13,OK
Description	<p><b>To show message sent from platform on the LCD screen</b></p> <p>Level: 0 = normal message, 1 = urgent message</p> <p>Type: coding mode. E=ASCII, U=UNICODE2</p> <p>Content: message content, maximal 140 bytes. If it's ASCII, then it directly show characters, if Unicode, it is hexadecimal. Both Chinese and English are supportable.</p>
<b>Example</b>	
GPRS send	@@C34,353358017784062,C13,1,E,Test*FB\r\n
GPRS get	\$\$C28,353358017784062,C13,OK*F2\r\n

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### 7.1.2 Create New Message

For tracker to send message to the platform via GPRS. Chinese and English characters are supportable.



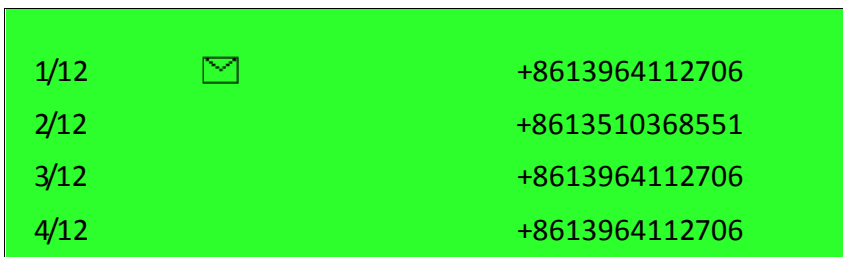
When composing a SMS, use # to switch input method among “Letter/Number/Punctuation”. Use “Left/Down” to select character and Left key to delete entered character.

When finish composing SMS, use “OK” or “Dial” key to send. There will be a notice received if the SMS has been 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 mark of unread SMS, the right line indicates the phone number that sent the SMS.



Press “Up/Down” keys to turn page, “OK” key to select the SMS and enter to read the SMS.

### Appendix: SMS format sent by mobile phone

The server or mobile phone can edit and send command C11 with regular format to the tracker, and display on the screen.

The SMS format is like below:

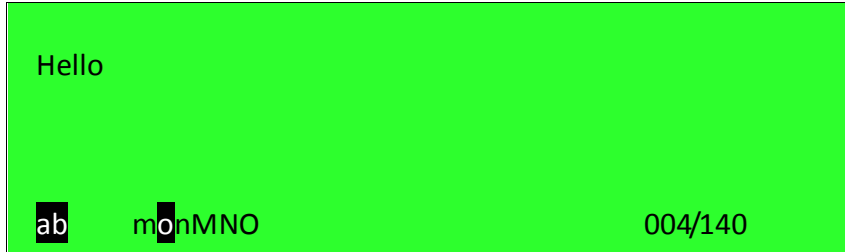
SMS set	0000,C11,content
SMS get	IMEI,C11,OK
Description	<b>To show message sent from platform on the LCD screen</b> Content: SMS content. It must be in ASCII character, maximal 150 bytes. Both Chinese and English are supportable.
<b>Example</b>	
SMS send	0000,C11,SMS Message
SMS get	353358017784062,C11,OK

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.

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## 7.2.2 New SMS

The SMS edited by the dispatch screen can be sent to the server or mobile phone. Chinese and English characters are supportable.



When composing a SMS, use # to switch input method among “Letter/Number/Punctuation”. Use “Left/Down” to select character and Left key to delete entered character.

When finish composing SMS, use “OK” or “Dial” key to enter phone number and send. There will be a notice received if the SMS has been 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/end the call.

### 7.3.3 Dialed Calls

To show all dialed calls.

Two ways to dial phone calls:

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

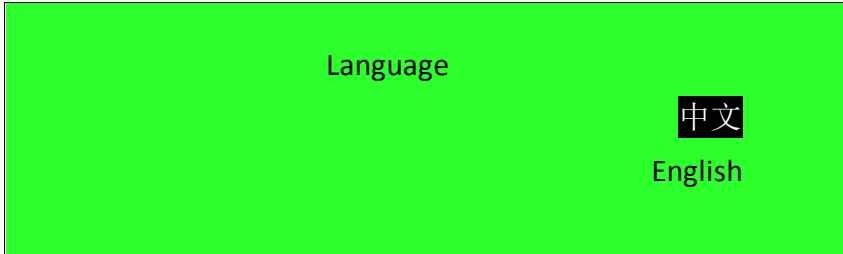
## 7.4 Settings

System settings include language, back light, fast dial, voice tip, restore to factory setting and version data.

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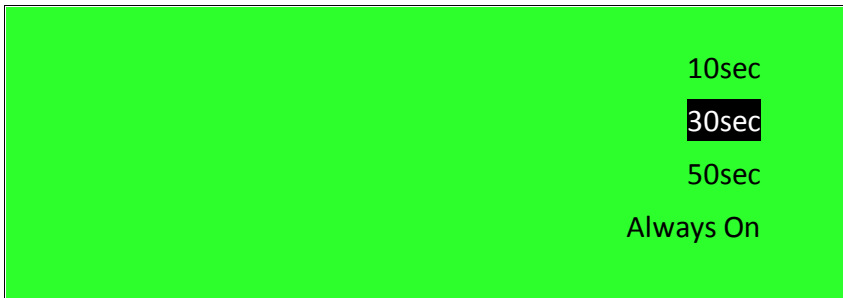
#### 7.4.1 Language

There are Chinese and English languages available for the machine. Use “Up/Down” to select and “OK” to enter.



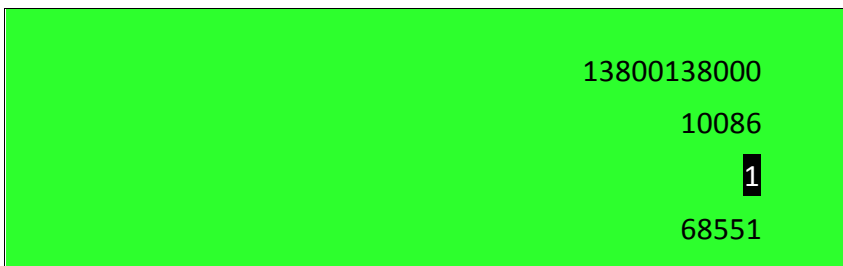
#### 7.4.2 Backlight

The options for backlight time are 10 seconds, 30 seconds, 50 seconds and always on. Use “Up/Down” to select and “OK” to enter.



#### 7.4.3 Fast Dial

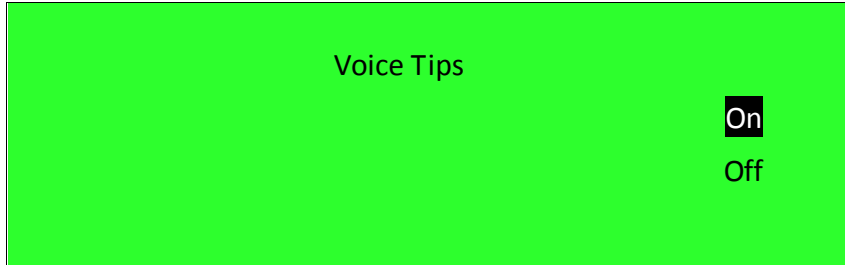
4 phone numbers can be preset for fast dial. Each Fast Answer key matches only one phone number. Press the key for 2 seconds to dial the phone number. Press “Up/Down” keys to select and “OK” to edit and enter.



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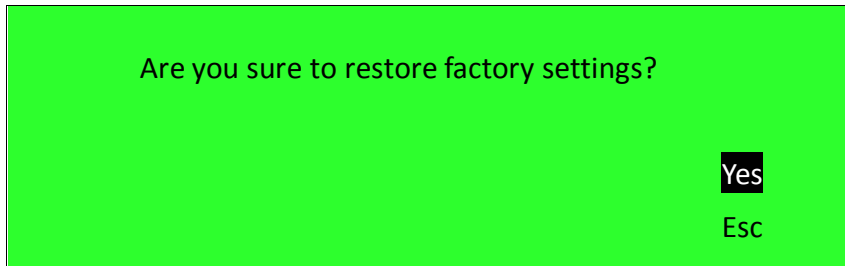
#### 7.4.4 Voice Tips

To turn on/off voice tips with “Up/Down” keys and “OK” key for received dispatch data.



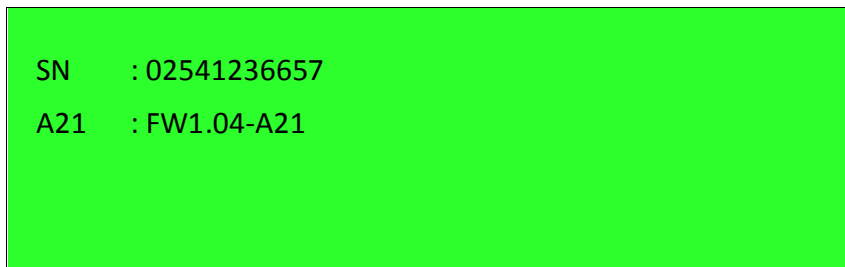
#### 7.4.5 Restore to Factory Settings

To restore all settings to default factory settings, use the “Up/Down” keys and “OK” key.



#### 7.4.6 Version

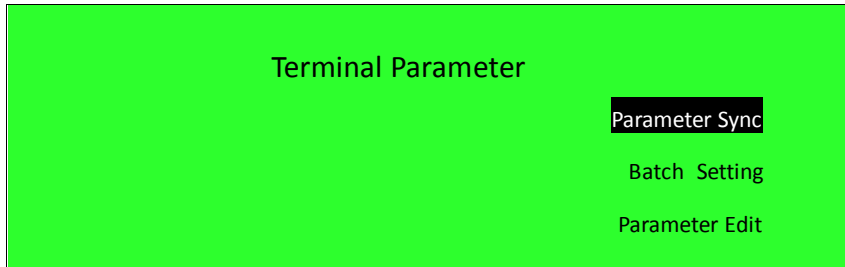
To check SN serial no, IMEI to connected terminal, Firmware version of terminal, Firmware version of A21.



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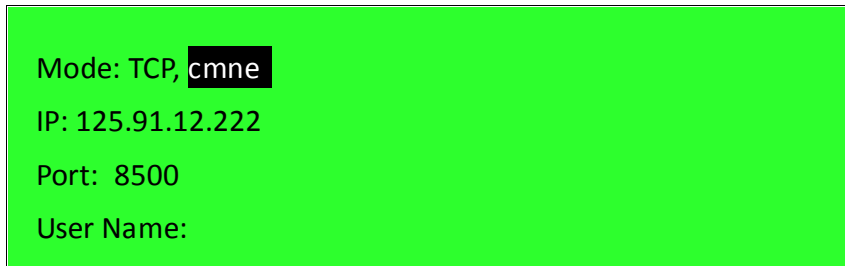
## 7.5 Terminal Parameter

To read and set parameters of the terminal, and edit preset parameters of the dispatcher.



### 7.5.1 Parameter Sync

To read GPRS parameters from the terminal and save them on A21, then synchronize saved parameters with other terminals.



### 7.5.2 Batch Setting

To set parameters for multiple terminals through A21, the saved parameters will be exported from A21.

Succeed: numbers of terminals.

Auto Setting: to set parameters automatically.

Setting: to set parameters manually.



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### 7.5.3 Parameter Edit

Only the parameters saved on A21 memory can be edited to set parameters for single terminal or multiple terminals.

Note: The format of IP address is IPv4; enter numbers and digits according to the actual content.

For example: IP: 125.91.12.222, you should enter: 125091012222

```
Mode: TCP, CMNET
IP : 125.091.012.222
Port: 8500
User Name:
```

### 7.5.4 Terminal Version

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

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

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