

MEITRACK® LCD Display



A21 User Guide

Applicable to: MVT600/T1/T3

Change History

File Name	MEITRACK A21 User Guide	Creator	Renny Lee
Project	For MVT600/T1/T3	Creation Date	2011-12-30
		Update	2013-06-26
File Type	Accessory User Guide	Total Pages	15
Version	V2.3	Confidential	External Document

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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
- one-key speed dial numbers
- Batch setting of terminal parameters

3.2 Specifications

Item	Description
Dimension	179 x 77 x 32mm
Weight	300g
Power Consumption	25mA
Operating Temperature	-20°C to 55°C
Operating Humidity	5% to 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

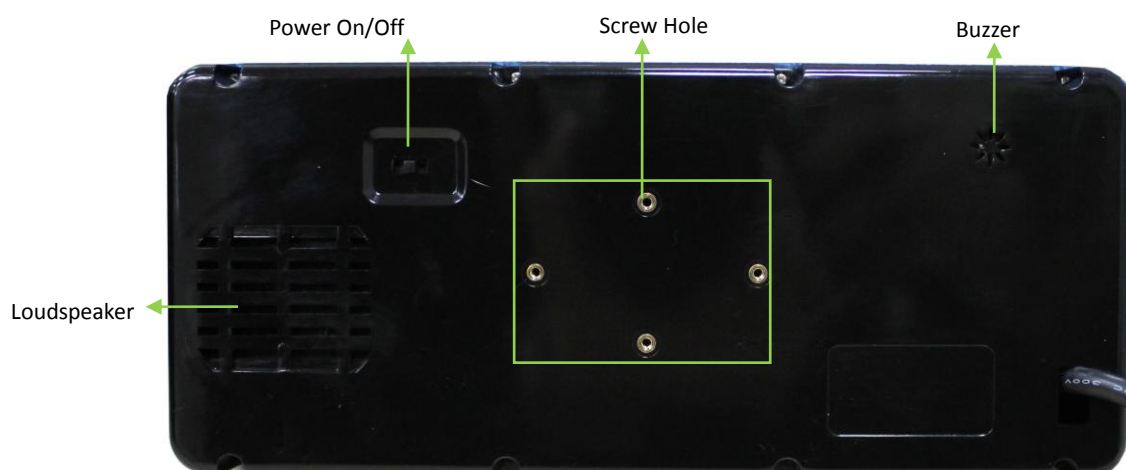
- A21
- Holder
- 8 screws
- Glue
- Warranty Card
- User Guide CD

5 View

Front:



Back:



Side:



Panel Descriptions:

Items	Descriptions
Dial/Answer	Dial a phone number Answer incoming calls
Hang-up/Back	End the conversation Back to the previous menu Turn on backlight
Menu/OK	Open the menu Enter the selected menu
Up/Down Rolling Key	Roll the menu Up key: Turn up the volume during a call Down key: Turn down the volume during a call
Backspace/Delete	Delete characters when composing SMS; also Left key To move left to select Turn down microphone sensitivity to reduce noise during call
Next/ Select	To move right to select; also Right key Turn up microphone sensitivity to extend communicable distance
Fast Answer	For fast dial numbers and fast select contents of corresponding line
Number Keys	0-9 : common number keys * : To answer the voice input symbol # : To answer the voice input symbol and switch input method when composing SMS
Loudspeaker	To allow voices or sounds to be heard loudly
Microphone	To make voices louder when someone is calling
Buzzer	Buzz when there is press, SMS and dispatch data
Power On/Off	Left: On, Right: Off Turn off the power to save battery if the dispatcher will not be used for a long time
Audio Output	3.5mm interface, to connect AUX input of vehicles
USB Interface	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.



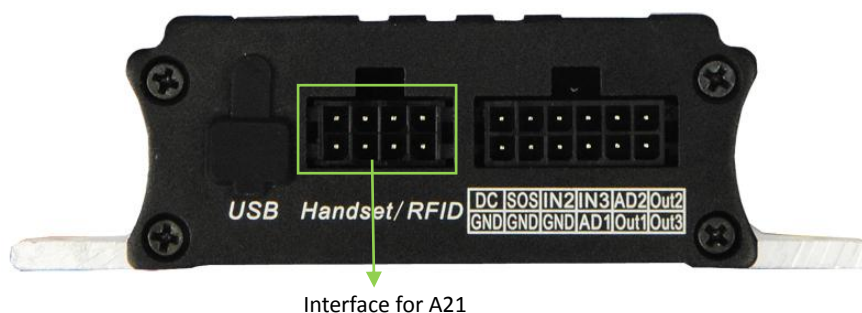
6.2 Connecting to Terminal

Connecting A21 to the tracker's interface tailored for A21

MVT600 interface:

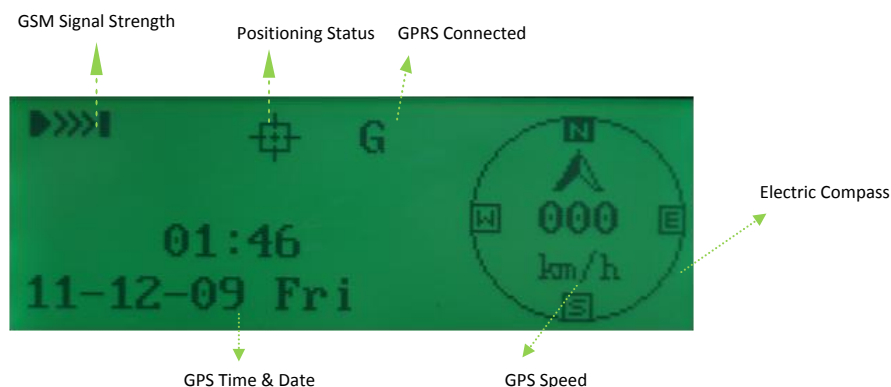


T1 interface:



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
	Dialed Calls
Settings	Language
	Backlight
	Fast Dial
	Voice Tip
	Set Default
	Version
Terminal Parameter	Para Sync
	Batch Set
	Para Edit
	Terminal Version

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

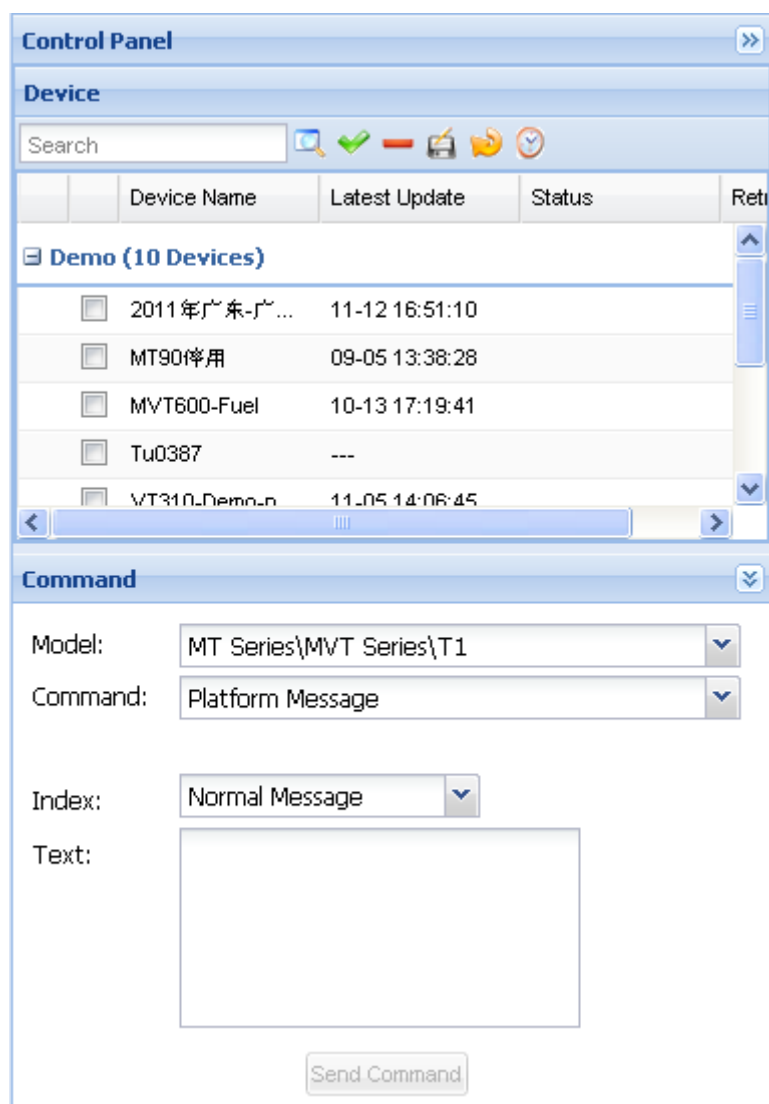
Futian District: go to Futian People's Hospital to pick up a patient

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.



Control Panel

Device

Search

	Device Name	Latest Update	Status	Retu
Demo (10 Devices)				
☐	2011年广东-广...	11-12 16:51:10		
☐	MT90停用	09-05 13:38:28		
☐	MVT600-Fuel	10-13 17:19:41		
☐	Tu0387	---		
☐	VT310-Demo-n	11-05 14:06:45		

Command

Model: MT Series\MVT Series\T1

Command: Platform Message

Index: Normal Message

Text:

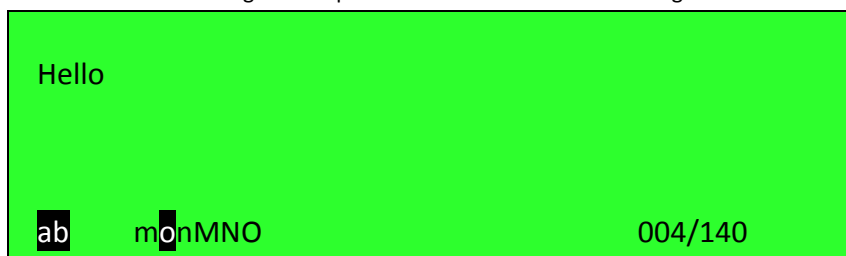
Send Command

Appendix: Command Format by Server

GPRS set	C13,level,type,content
GPRS get	C13,OK
Description	To show message sent from platform on the LCD screen Level: 0 = normal message, 1 = urgent message Type: coding mode. E=ASCII, U=UNICODE2 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.
Example	
GPRS send	@@C34,353358017784062,C13,1,E,Test*FB\r\n
GPRS get	\$\$C28,353358017784062,C13,OK*F2\r\n

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.

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

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.

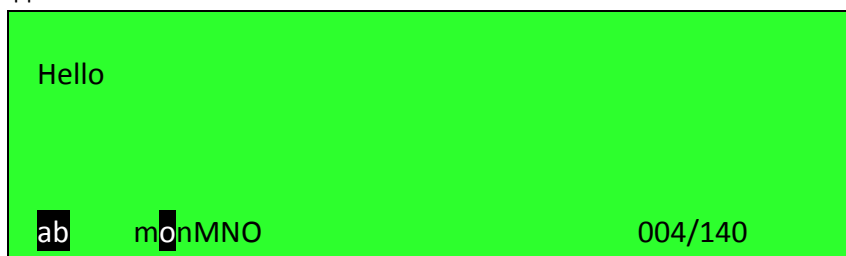
The SMS format is like below:

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

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:

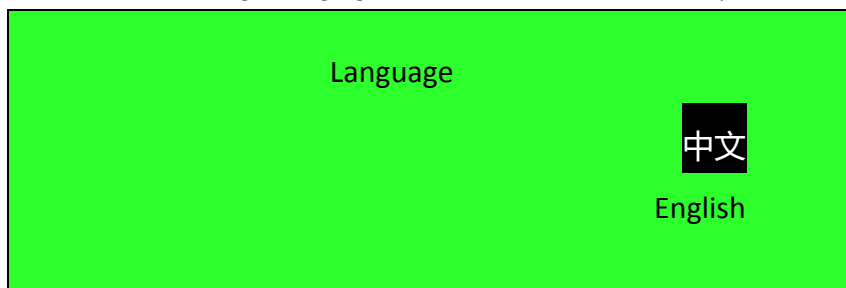
- Common Dial: use number keys to enter phone number, then press “Dial” to call; “Hang-up” key to end the call. Use “Up/Down” to adjust volume during a call and “Left/Right” to adjust microphone sensitivity.
- Fast Dial: Use shortcuts to fast dial the phone numbers preset, each shortcut key matches one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

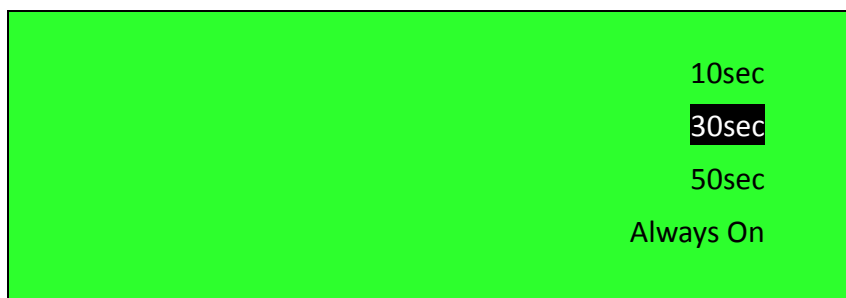
7.4.1 Language

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



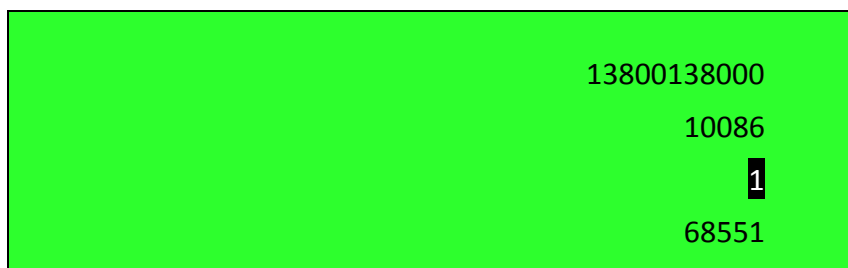
7.4.2 Backlight

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



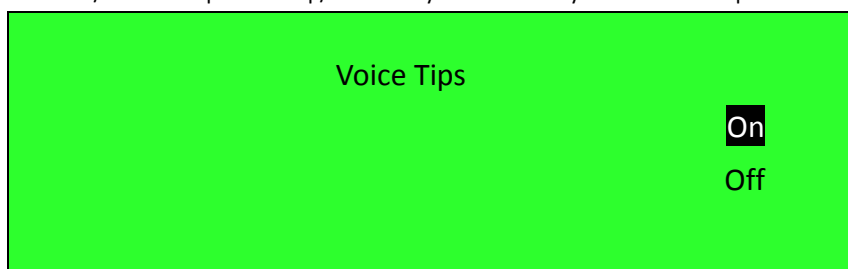
7.4.3 Fast Dial

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.



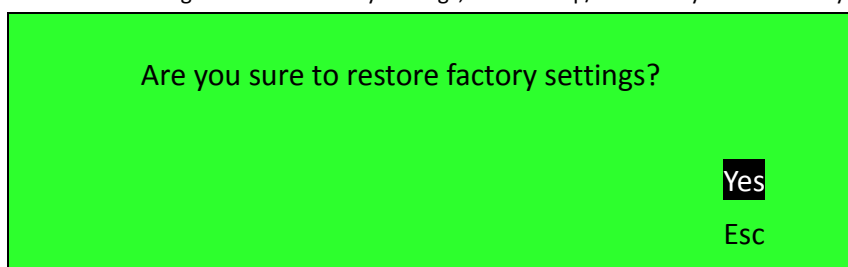
7.4.4 Voice Tips

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



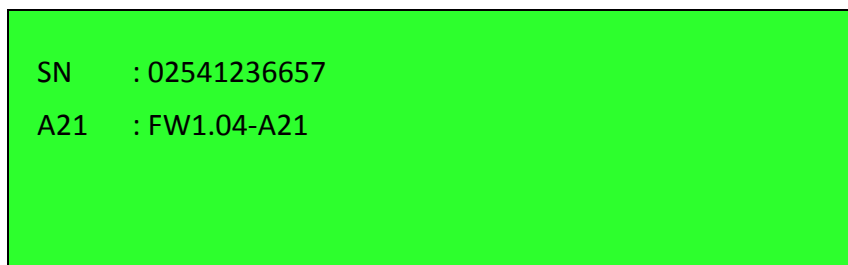
7.4.5 Restore to Factory Settings

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



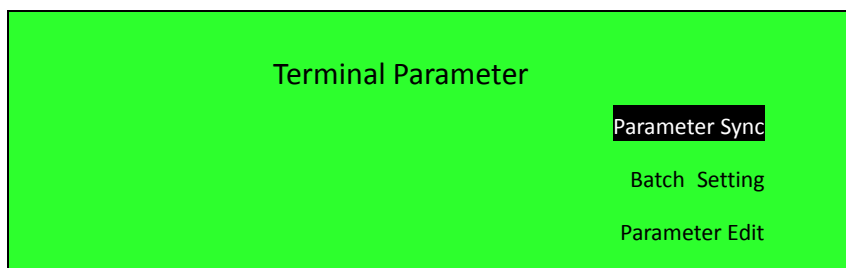
7.4.6 Version

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



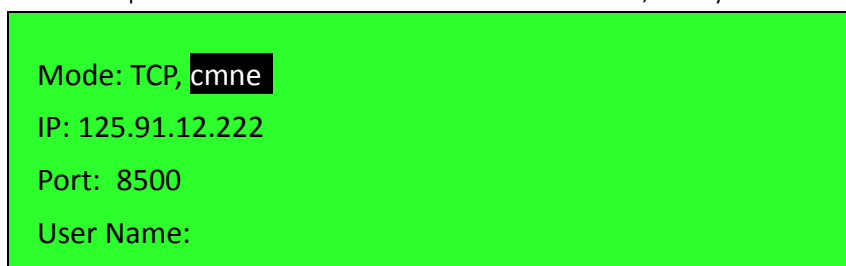
7.5 Terminal Parameter

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.

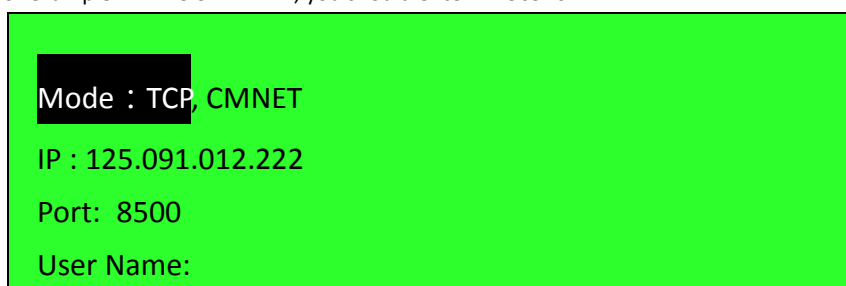


7.5.3 Parameter Edit

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



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.