

Ulbotech Tracking Devices Configuration Software User Manual

Version: V1.0

Table of Contents

1. General Note-----	4
1.1 The aim of this document-----	4
1.2 Copyright-----	4
1.3 Reference Materials-----	4
2. Software Overview & Installation-----	5
2.1 Software usage-----	5
2.2 Software operation-----	5
2.3 Installation of the USB driver for the software -----	5.6.7
3. T363B user interface overview-----	8
3.1 The tool is composed of these tabs-----	9
3.2 “Communication” explanation-----	10
3.3 “Function”-----	11
3.4 “Device info”-----	12
4. Service Configuration-----	13
4.1 Service-Software-----	13.14
4.2 Function-Software-----	15
4.3 Authority –Software -----	16
4.3.1 Auth-----	17

4.3.2 Alarm-----	18
4.3.3 User shortcut-----	19
4.4 Geo-Fence-----	20
4.4.1 Geo-Fence-Setting-----	20
4.5 OBD II-----	21
4.6 WIFI-----	22
4.7 Phone-----	23
4.8 Command-----	24
4.9 Misc-----	25

1.General Note

1.1 The aim of this document

Ulbotech provide this document to describe the functions and operation environment of configuration software, with the aim of providing a better understanding of using scope and approaches of the configuration software for the OEM manufacture, What's more, this document also provides necessary maintaining and updating information for Ulbotech tracking devices of T3xx series configuration software.

1.2 Copyright

This document is a confidential document, Ulbotech reserves all rights to this document and the information contained herein. Any individual or organization is strictly prohibited to reproduction, use or disclosure to the third party without permission. Otherwise, we hold the right to investigate the legal responsibility.

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1.3 Reference materials

Ulbotech Communication Protocol and T363B user manual

2. Software Overview & Installation

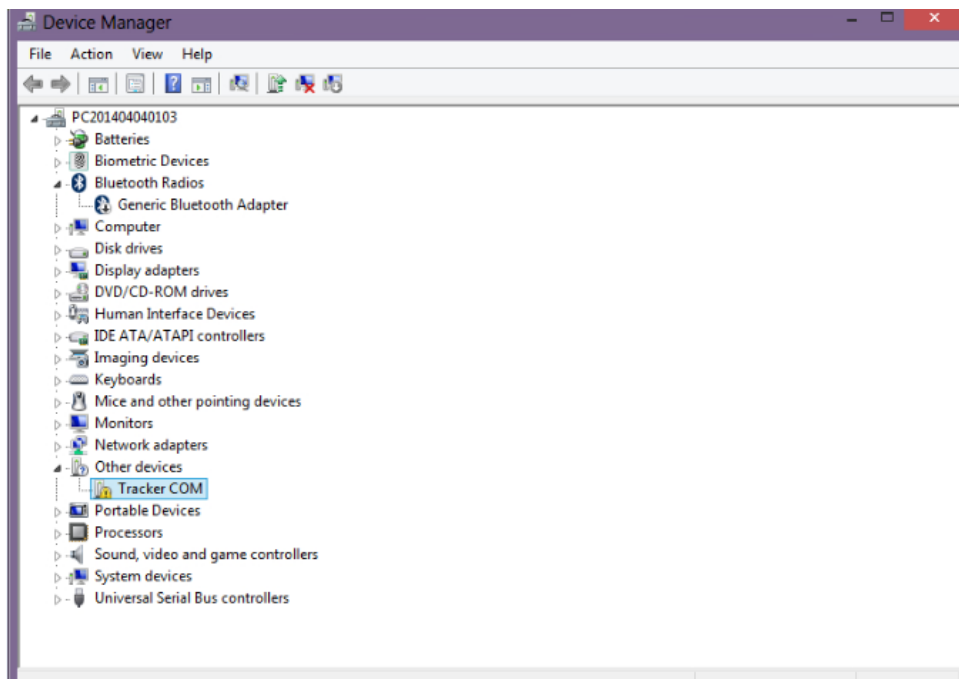
2.1 Software usage

The intended audiences of this document are the distributor and reseller of Ulbotech tracking Devices. Who use the T3xx device series, this document also provides a fast configuration tool.

2.2 Software operation

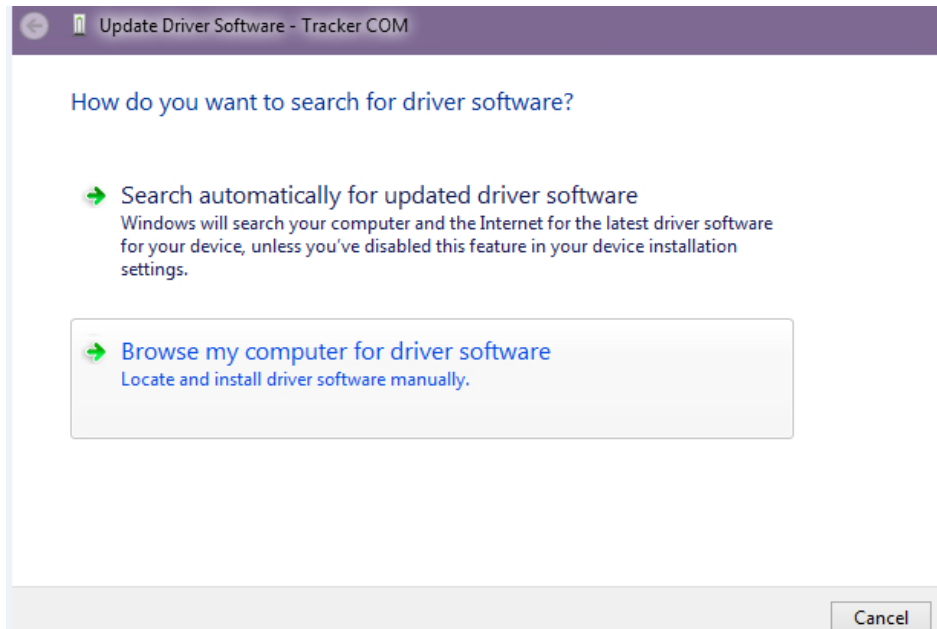
This software can be operated on both the PC and the compatible machine, it can be used with Microsoft windows (compatible windows7), at first, you should decompress the software, and then click the icons directly, then you can see the main menu of the software, you can configure the device as you need.

2.3 Installation of the USB driver for the software



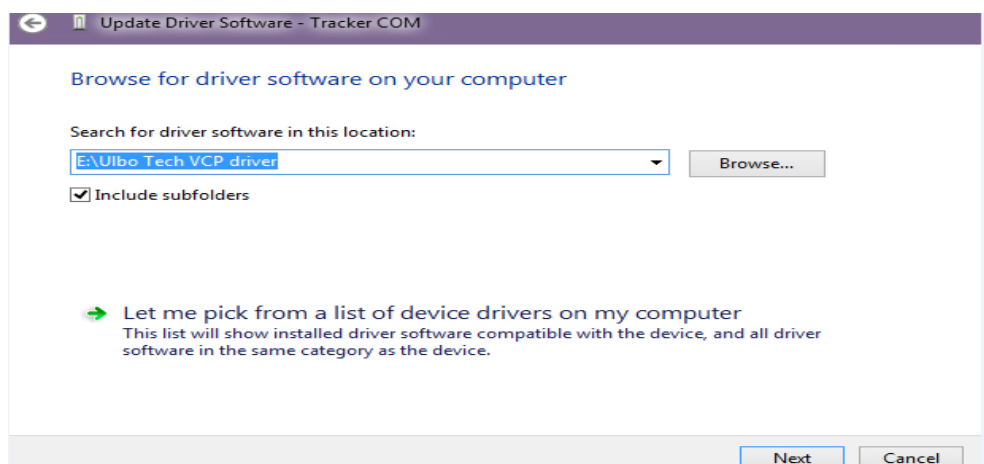
In the Device Manager window there will be a device under Other Device with a yellow warning symbol to indicate a problem i.e. no driver installed. The text next to this device attached. In this example the device was “Tracker COM” device.

Right click on the other device(Tracker COM) to bring up a menu as shown below.



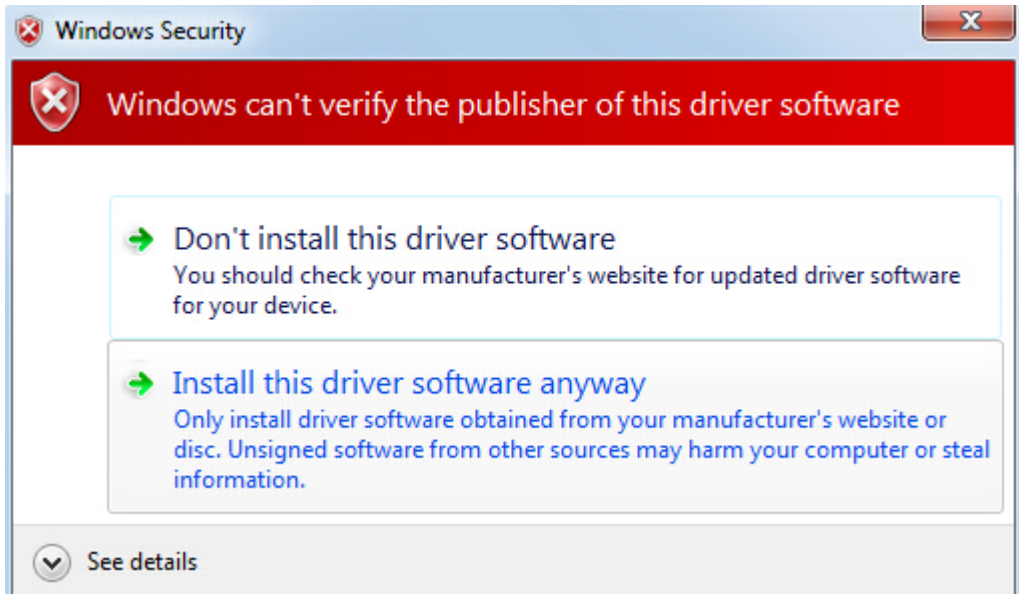
From the displayed menu select" Update Driver Software-Tracker COM".

This then displays the option for an automatic search or a manual search as above picture showed. Select the second to browse manually.

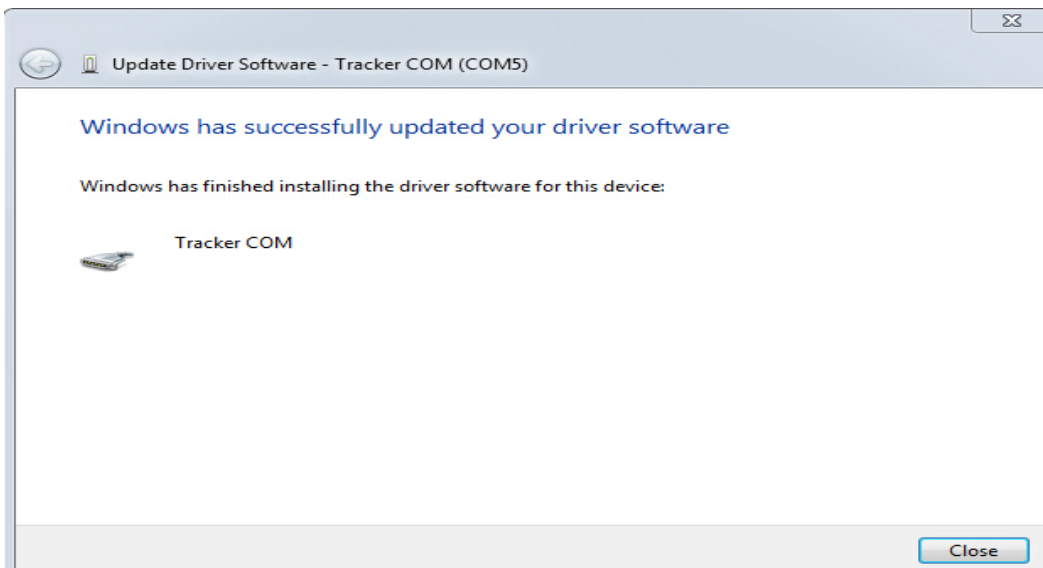


In the address box put the exact location where the drivers have been saved to. This is in a folder on the PC .It's not necessarily the exact location as shown in the screenshot

The drivers could have been saved anywhere of the users choosing. After entering the address select "NEXT" to start the installation.



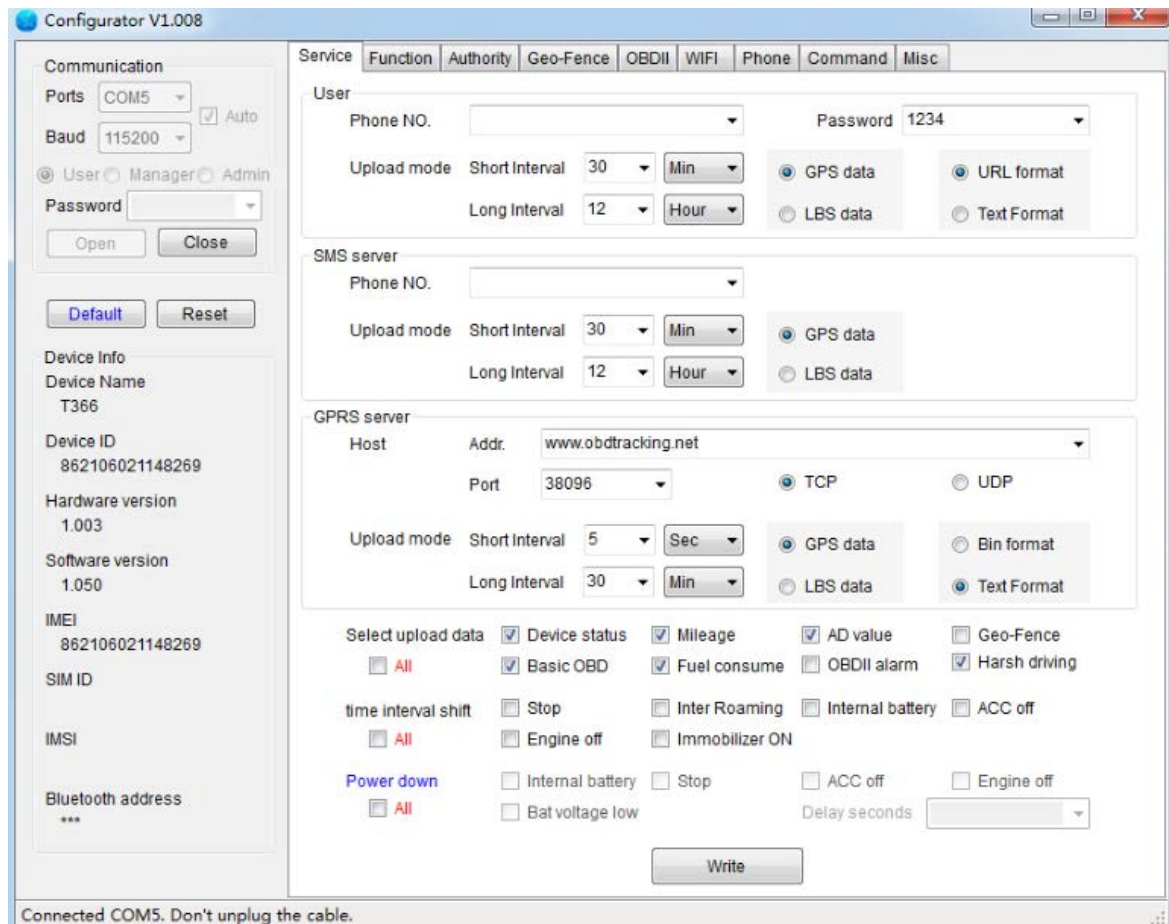
When the installation has finished a completion screen is displayed. Press Close button as below picture showed to close this window and go back to the Device Manager Window.



Note: If you have not done the installation of the USB driver, the device will not be connected to your computer.

3. T366 user interface overview

Once "T366" is started, and connect to the computer correctly, the tool will start up as shown in Figure 1.



-----Figure 1-----

3.1 The tool is composed of these tabs:

1. "Service"
2. "Function"
3. "Authority" → "Auth" + "Alarm" + "User shortcut"
4. "Geo-fence" → "Enable" + "Setting"
5. "OBDII"
6. "WIFI"
7. "Phone"
8. "Command"
9. "Misc"

Chose the function you need, to read and write the parameter. When the parameter is not correct, it will show "Command error!"

3.2 “Communication” explanation:

1. **“Comm ports” & “Baud”** → means the device is connect to Port No. (computer can automatic identification):
2. **“Device Model”** → T366 Product model: T366 ; Click the button, can choose the automatic login the configuration status).
3. **“User”, “Manager” & “Admin”** → means there are three authority level.
4. **“Password”** → default password is “0123456789”(the only one password which can automatic login the configuration status).
5. **Button: “Open”** means the device is connect with the computer, when the password is not the default one, need to input the correct one and then press “Connect” button, then the device can login the configuration status.
6. **Button: “Close”** means cancel the device connects with the computer.
7. **Button “Default”** means to recover the parameters as original setting.
8. **Button “Reset”** means to set the parameters to default configuration

3.3“Device info”

Communication

Ports

COM5

Baud

115200

☒ Auto

☒ User
 ☐ Manager
 ☐ Admin

Password

Open

Close

Default

Reset

Device Info

Device Name

T366

Device ID

862106021148269

Hardware version

1.003

Software version

1.050

IMEI

862106021148269

SIM ID

IMSI

Bluetooth address

The software contains nine setting pages:

“Service”, “Function”, “Authority”, “Geo-fence”, “OBDII”, “WIFI”, “Phone”, “Command”, “Misc”.

4. Service Configuration

4.1 Service -Software

When read or write the parameter, the operation status information will show on the right of the page.

Please see figure 2.

The screenshot shows the 'Service' configuration window. It has a tabbed interface with 'Service' selected. The 'User' section includes a 'Phone NO.' dropdown and a 'Password' dropdown set to '1234'. The 'Upload mode' section has 'Short Interval' (30 Min) and 'Long Interval' (12 Hour) dropdowns, with radio buttons for 'GPS data' (selected), 'LBS data', 'URL format' (selected), and 'Text Format'. The 'SMS server' section has a 'Phone NO.' dropdown and similar 'Upload mode' options with 'GPS data' and 'LBS data' radio buttons. The 'GPRS server' section has a 'Host Addr.' dropdown set to 'www.obdtracking.net', a 'Port' dropdown set to '38096', and radio buttons for 'TCP' (selected) and 'UDP'. It also has 'Upload mode' options with 'GPS data' (selected), 'LBS data', 'Bin format', and 'Text Format' (selected). Below these are checkboxes for 'Select upload data' (Device status, Mileage, AD value, Geo-Fence, Basic OBD, Fuel consume, OBDII alarm, Harsh driving) and 'time interval shift' (Stop, Inter Roaming, Internal battery, ACC off, Engine off, Immobilizer ON). There is also a 'Power down' section with checkboxes for 'Internal battery', 'Stop', 'ACC off', 'Engine off', and 'Bat voltage low', along with a 'Delay seconds' dropdown. A 'Write' button is at the bottom.

---- Figure 2----

1. User: There contain "Phone no", "Password" "Upload mode". User can set he used phone no. ,password and select the upload mode. Including upload interval time ,upload data and format.

2. SMS server: There contain "Phone no & Upload mode". User can set the phone no. what he used and select the upload mode of interval time ,GPS data or LBS data.

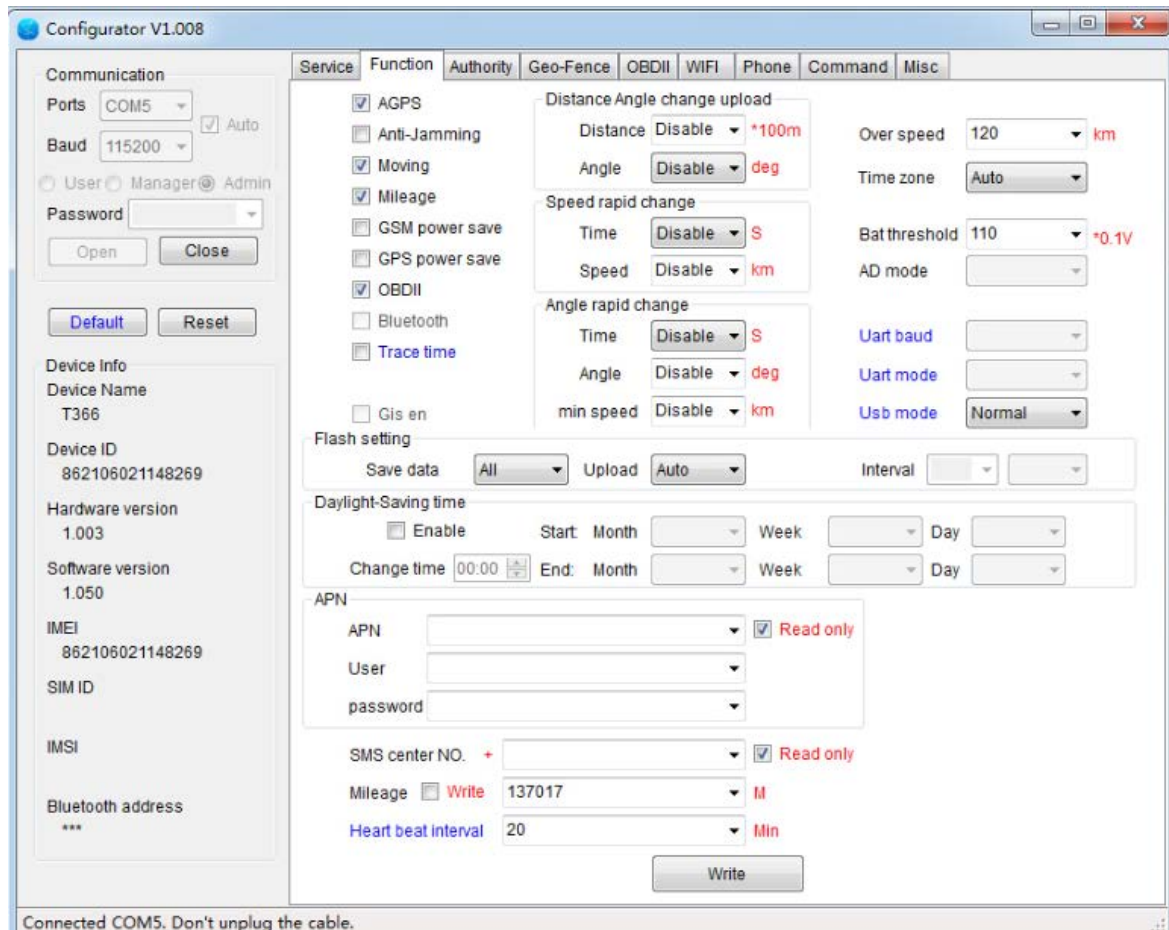
3. GPRS server: Set the Host address what user used ,including port, upload type, mode, interval time, data type and format.

4. Select upload data: There're 8 types data for selection. User can select all features or which feature as he needs.

5. Time interval shift: There're 6 types time interval shift for selection by user.

6. Power down : User can select all or just one type of power down as he needs.

4.2 Function-Software



1.**AGPS(AGP)** : Enable/disable AGPS.

Parameter can be :0: disable;1: enable, Default: AGP;1.

2. **Enable/Disable Distance & Angle change upload (DAU):**

Distance threshold: Para1-“255”

Range :0~255, unit: hundred meter . **example:** “255” means uploading when the distance up to 25.5KM.

NOTE:

1. if set it to be 0, disable distance upload.
2. This function applies to GPRS channel

Angle threshold :para2-"20":

Range : 0 or 3~20, unit: degree

NOTE:

a. If set it to be 0, disable distance upload.

b. This function applies to GPRS channel

Default DAU: DAU;0;0

3. Over Speed: Over-speed alarm parameters setting (OSS)

- Range:0~255,unit:KM/H
- over-speed alarm threshold: 120
- Note: "0" is disable over speed
- Default OSS: OSS;120

4. Anti-Jamming Setting(AJS): Set anti-jamming alarm condition. This parameter is related to the GSM modem.

Para1-"30" interference channel number.

Range: 1 ~ 255

Para2-"20" : voltage threshold

Range: 3 ~ 63

5.Moving(MSE): Enable /disable movement sensor. When disable the movement sensor, the functions related to movement sensor is not available. Thus device status will always be moving (no stop status). Parameter can be:"0": disable;"1": enable;Default:MSE;1.

6.Mileage initial value setting(MGS): unit: meter, range: 0-4294967294;Default : MGS;0.

7.GSM Power Save: Enable/disable GSM power save function. Parameter can be:"0": disable; "1": enable.

8.GPS Power Save: Enable/disable GPS power save function. Parameter can be:"0": disable ;"1": enable.

9.OBD II: Enable/disable OBD II .

10.Bluetooth:Enable/disable Bluetooth. Parameter can be:"0": disable Bluetooth;"1": enable Bluetooth

11.Trace Time: Showed in Blue on the page means “OEM” command.

12. Speed rapid change alarm setting(SCA): when target’s moving speed rapid change in a specific period, the speed rapid change alarm would be triggered, and device upload alert data.(Details refer to Ulbotech communication protocol)

13. Angel rapid change: When target’s moving Direction angle rapid change in a specific period, the angle rapid change alarm would be triggered, and device upload alert data.(Details refer to Ulbotech communication protocol)

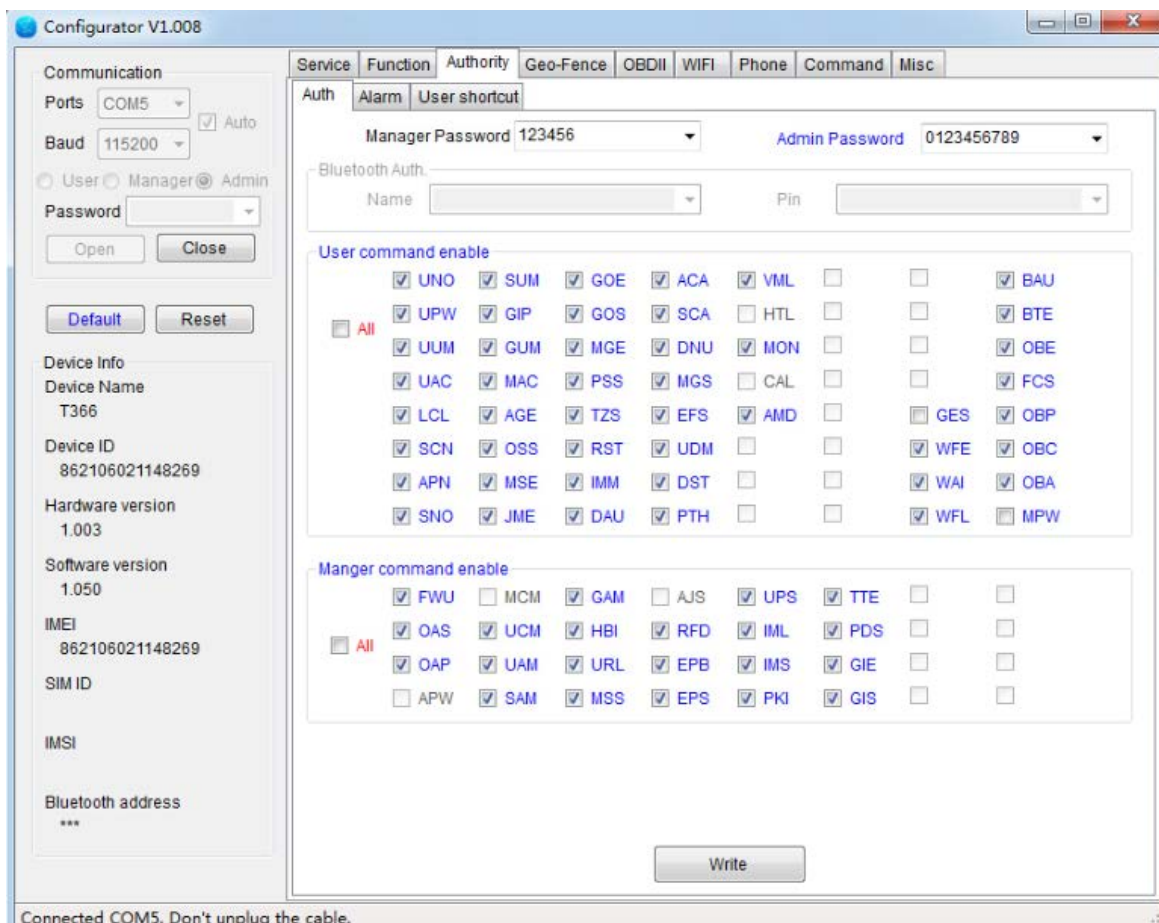
14.Flash Setting(EFS): In order to keep the data safe, device can save the data to Flash instead of RAM. Only applied for GPRS (TCP and UDP) communication.

15. Daylight-Saving Time (DST): Set daylight-saving time. First parameter is start date and second parameter is finish date. Start and finish time is decided by the third parameter. This function only based on the user's cell phone.

16.APN: When input the SIM card and device powered up. Send this command to set APN.

17. Time Zone(TZS): Set local time zone. Negative number represents western time zone, positive number represents eastern time zone.

4.3.1 Authority—Auth



1. **Manager Password (MPW):** Default APW is 123456,user can set as 6—10 digits.

2. **Admin Password (APW):** Default APW : 0123456789,user can set as 6-10 digits.

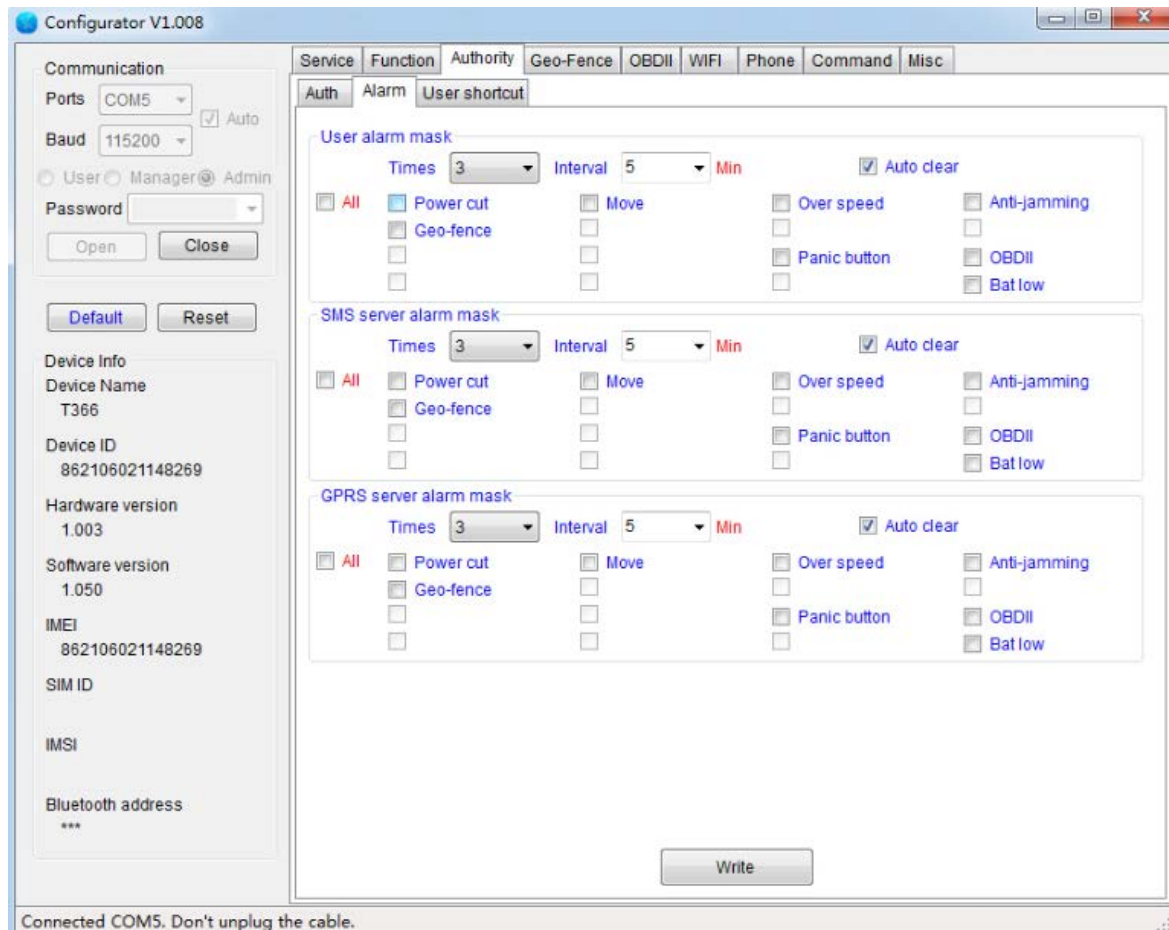
3. **Bluetooth Auth (BAU):** This command can set the name and password for Bluetooth channel.

- Para1 “GPS tracker”: Name displayed on Bluetooth channel
- Para2 “1234”: password for Bluetooth channel

4. **User Command Enable:** This is used to allow which command the user can use.

5. **Manager Command Enable:** This is used to allow which command the manager can use.

4.3.2 Authority-Alarm

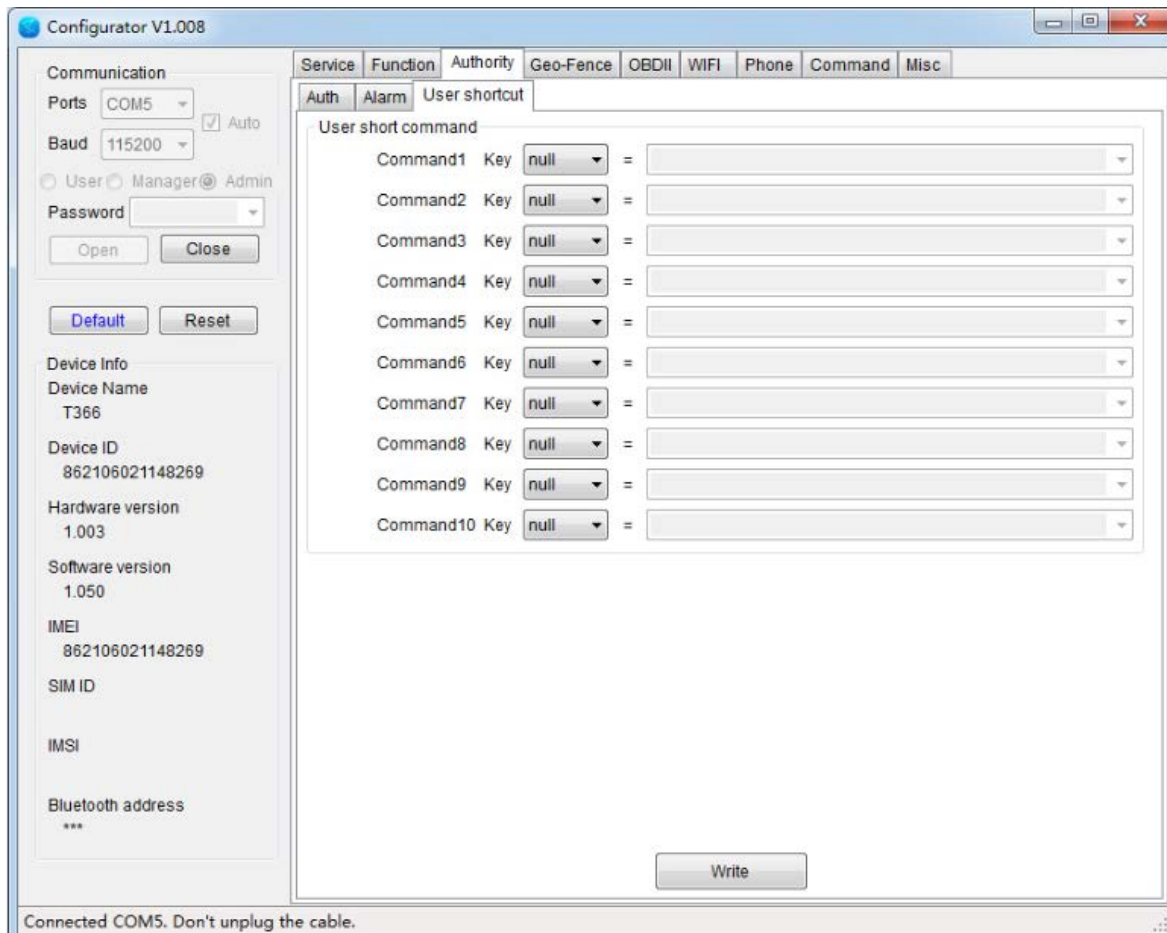


1. User Alarm Mask(UAM): This command defines what kind of alarm can be authorized to user. When one alarm triggered, device can send SMS alarm several times as per the pre-set interval. Also the alarms can be auto cleared or by command as per configuration. Details refer to command list.

2. SMS Server Alarm Mask (SAM): This command defines what kind of alarm can be authorized to SMS server. When one alarm triggered, device can send SMS alarm several times as per the pre-set interval. Also the alarms can be auto cleared or by command as per configuration. Details refer to command list.

3. GPRS Server Alarm Mask (GAM): This command defines what kind of alarm can be authorized to GPRS server. When one alarm triggered, device can send SMS alarm several times as per the pre-set interval. Also the alarms can be auto cleared or by command as per configuration. Details refer to command list.

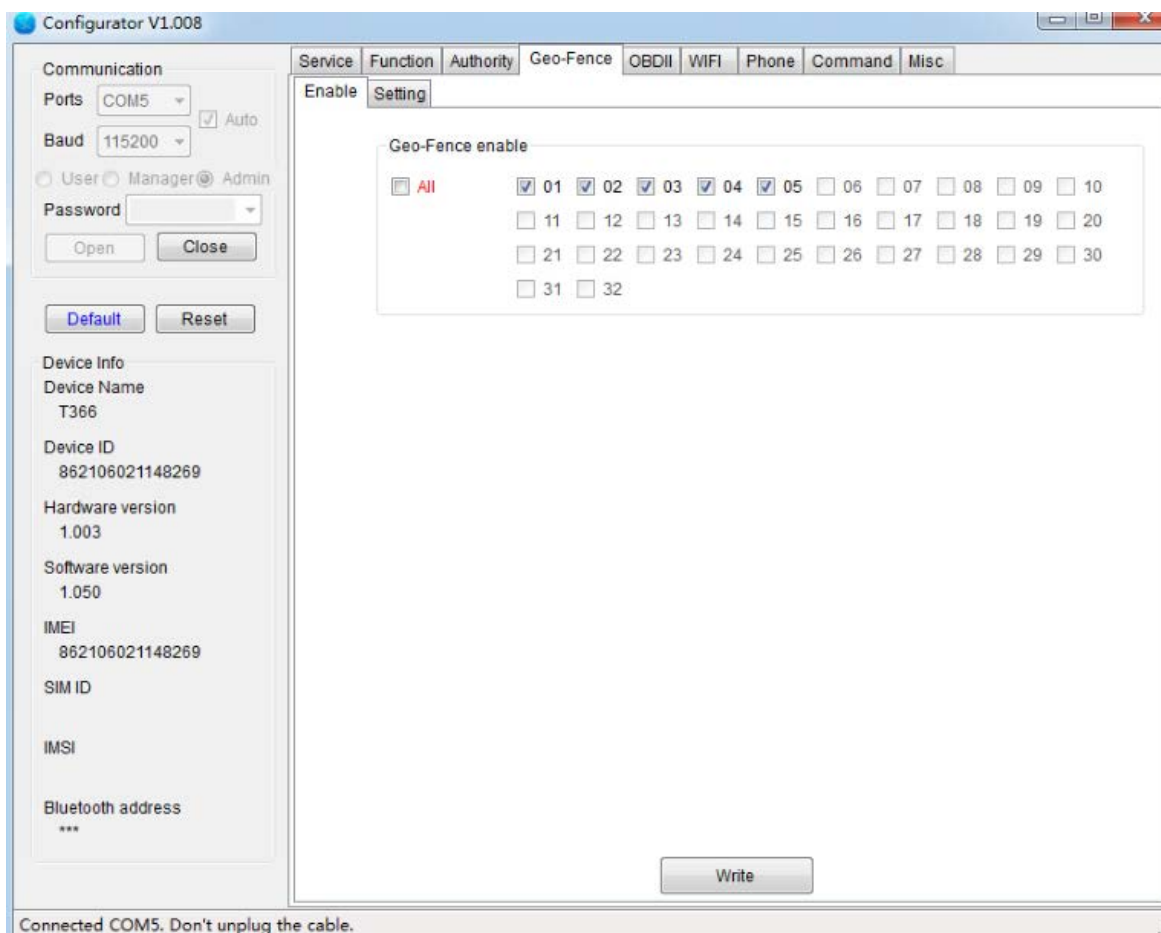
4.3.3 Authority-User shortcut



1. User Shortcut(USC):User can set shortcut to represent a specific command.

Note: only applied with user mobile NO.

4.4.1 Geo-Fence—Enable



1. **Geo-Fence Enable (GOE):** We have 32 fences available in total, then user can choose some of the them or all to let them work. If you choose it like the above picture, then only number 01.02.03.04 and 05 will work, others won't work.

4.5 OBDII

The screenshot shows the 'Configurator V1.008' window with the 'OBDII' tab selected. The left sidebar contains the following sections:

- Communication:** Ports (COM5), Baud (115200), Auto checkbox, User/Manager/Admin radio buttons, Password field, Open/Close buttons, Default/Reset buttons.
- Device Info:** Device Name (T366), Device ID (862106021148269), Hardware version (1.003), Software version (1.050), IMEI (862106021148269), SIM ID, IMSI, Bluetooth address (***).

The main area has tabs for Service, Function, Authority, Geo-Fence, OBDII (selected), WIFI, Phone, Command, and Misc. The OBDII tab contains:

- Read OBDII parameters:** A table with 16 rows (Para01 to Para16). Para01-Para05 are set to 0105, 010C, 010D, 012F, and 0131 respectively. Para06-Para16 are set to 'Disable'.
- OBDII Alarm:** A section with 4 rows (Alarm1 to Alarm4). Each row has a dropdown set to 'Disable', a '>' button, another dropdown, and a 'Until' field with a 'Sec' label.
- Fuel consume set:** A dropdown set to '16715804' and a 'Write' button.
- Write:** A large 'Write' button at the bottom.

At the bottom of the window, a status bar reads: 'Connected COM5. Don't unplug the cable.'

1.Read OBDII Parameters(OBC):Read OBD II Parameters. Details refer to OBD protocol.

2.OBD II Alarm(OBA): This command is used to set alarm parameters for some OBD alarm. Refer to Command list for details.

3. Fuel consumer set(FCS):Details refer to Command list.

4.6 WIF

The screenshot displays the 'Configurator V1.008' application window. The 'WIFI' tab is selected in the top navigation bar. The interface is divided into several sections:

- Communication:** Includes fields for 'Ports' (set to COM5), 'Baud' (set to 115200), and a checked 'Auto' checkbox. Below these are radio buttons for 'User', 'Manager', and 'Admin' (selected), and a 'Password' field. 'Open' and 'Close' buttons are present.
- Device Info:** A sidebar on the left showing device details: Device Name (T366), Device ID (862106021148269), Hardware version (1.003), Software version (1.050), IMEI (862106021148269), SIM ID, IMSI, and Bluetooth address (***).
- WIFI Settings:**
 - GSM Setting:** Radio buttons for 'GSM Disable', 'GSM Enable', and 'GPRS Enable' (selected).
 - WIFI Setting:** Radio buttons for 'WIFI Disable', 'WIFI STA' (selected), and 'WIFI STA+AP'.
 - WIFIAP Setting:** Fields for 'SSID' and 'Pwd'.
 - WIFI STAAP List Setting:** A table with 16 rows, each containing an 'SSID' field and a 'Pwd' field.
- Write Button:** A large button at the bottom right of the settings area.

At the bottom of the window, a status bar reads: 'Connected COM5. Don't unplug the cable.'

4.7 Phone

The screenshot shows the 'Configurator V1.008' window with the 'Phone' tab selected. The interface includes a left sidebar with 'Communication' and 'Device Info' sections, and a main area with two lists: 'Voice Monitor NO. List' and 'Hot Line NO. List'. A 'Write' button is at the bottom right, and a status bar at the bottom indicates 'Connected COM5. Don't unplug the cable.'

Communication Section:

- Ports: COM5
- Baud: 115200
- Auto: ☒
- User: ☐ Manager: ☒ Admin: ☐
- Password: [Field]
- Buttons: Open, Close, Default, Reset

Device Info Section:

- Device Name: T366
- Device ID: 862106021148269
- Hardware version: 1.003
- Software version: 1.050
- IMEI: 862106021148269
- SIM ID: [Field]
- IMSI: [Field]
- Bluetooth address: ***

Phone Tab Content:

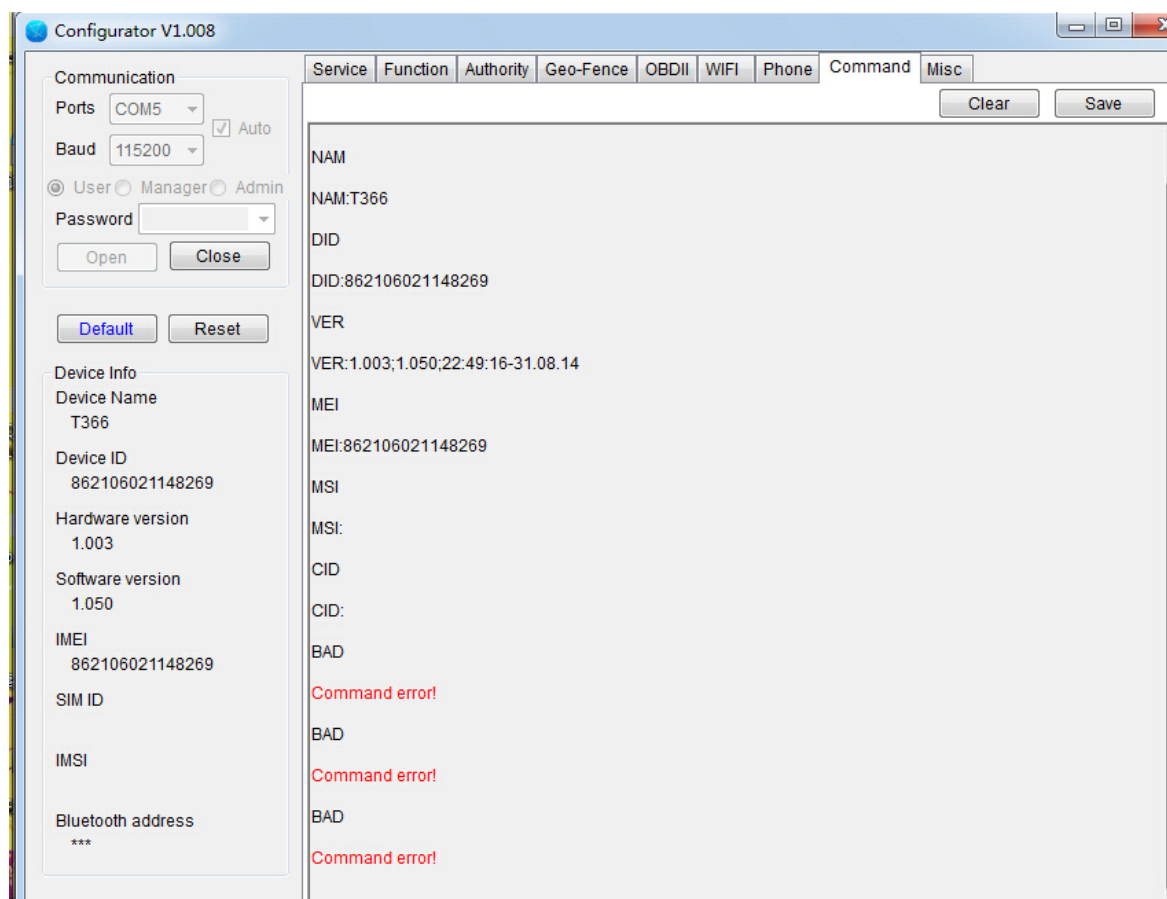
- Voice Monitor NO. List:** Five dropdown menus labeled No.1 to No.5.
- Hot Line NO. List:** Five dropdown menus labeled No.1 to No.5.
- Tip:** X for any digit
- Write Button:** Located at the bottom right of the main area.

Status Bar: Connected COM5. Don't unplug the cable.

1. Voice Monitor No. List (MON): We have five monitor no. can be set.

2. Hot Line No. List (HTL): There are five numbers for setting.

4.8 Command



4.9 Misc

The screenshot displays the 'Configurator V1.008' application window. The 'Misc' tab is selected, showing various configuration options. On the left, a 'Communication' panel includes settings for 'Ports' (COM5), 'Baud' (115200), and 'Auto' (checked). Below this is a 'Device Info' section with fields for 'Device Name' (T366), 'Device ID' (862106021148269), 'Hardware version' (1.003), 'Software version' (1.050), 'IMEI' (862106021148269), 'SIM ID', 'IMSI', and 'Bluetooth address' (***). The main area contains several sections: 'Firmware OTA' with 'Auto' selected and 'Addr' set to 'www.obdtracking.net'; 'User GPS URL' set to 'http://maps.google.com/maps?q=%n,%e&t=m&z=16'; 'User LBS URL'; 'Motion Para.' with 'Move duration' (3) and 'Stop duration' (60); 'Jamming Para.' with 'Level' and 'Channels'; 'Immo. Para.' with 'Low level' selected and 'Duty' and 'Cycles' fields; and 'Extend Uart data packet set' with 'Insert' and 'Pkt.ID' fields. A 'Write' button is at the bottom right. A status bar at the bottom indicates 'Connected COM5. Don't unplug the cable.'