MEITRACK Manager User Guide (New Version)

Applicable Model: Meitrack Products

Change History

File Name	MEITRACK Manager User Guide (New Version)		
Project	MT90G/MT90/T1/TC68S/MVT100/MVT340 /MVT600/MVT800/T311/T333/MVT380/T3 55/T622/T622G/P99G/T366/T366G/P66/P 11/T388G/T688/MD522S/MD511H/K211G /T399G/P99L/P99E/T622E/T366L/T633L/TC 68L/TC68SL/TS299L	Creation Date Update Date	2018-01-25 2019-06-06
Subproject	User Guide	Total Pages	33
Version	V1.1	Confidential	External Documentation

Contents

1 Copyright and Disclaimer

2 Product Overview

The Meitrack Manager software is used to configure parameters, read historical trips, and implement data backup and recovery for Meitrack terminals.

3 Hardware and Software Requirements

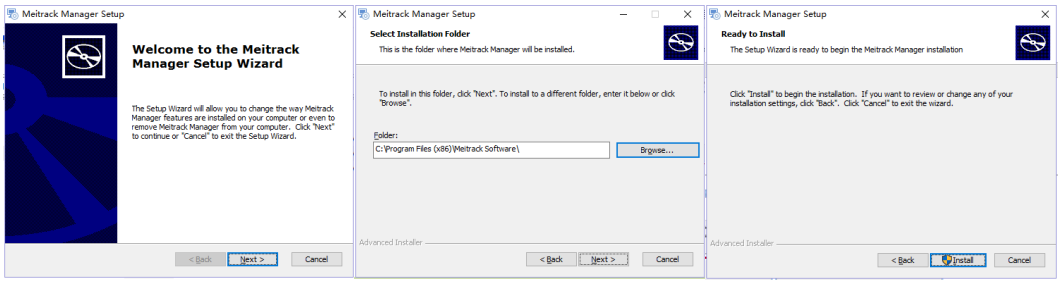
- A desktop computer or laptop whose operating system is Windows Vista, Windows 7, Windows 8, or Windows 10
- A USB cable

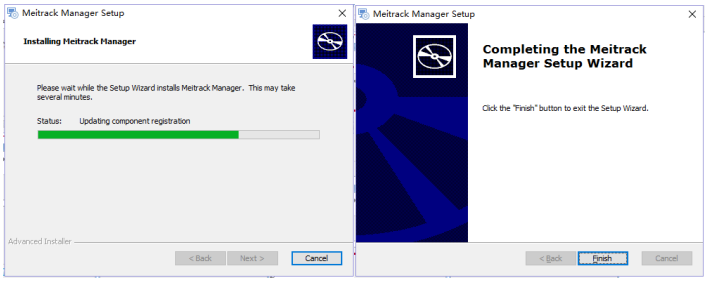
- USB232 driver
- Meitrack Manager software

4 Installing and Running Meitrack Manager

1. Run **PL2303_Prolific_DriverInstaller** to install the USB232 driver.
2. Install Meitrack Manager as prompted.

   Meitrack Manager requires **.Net Framework 4.52** to be installed. If it is not installed, the system will prompt to do so.

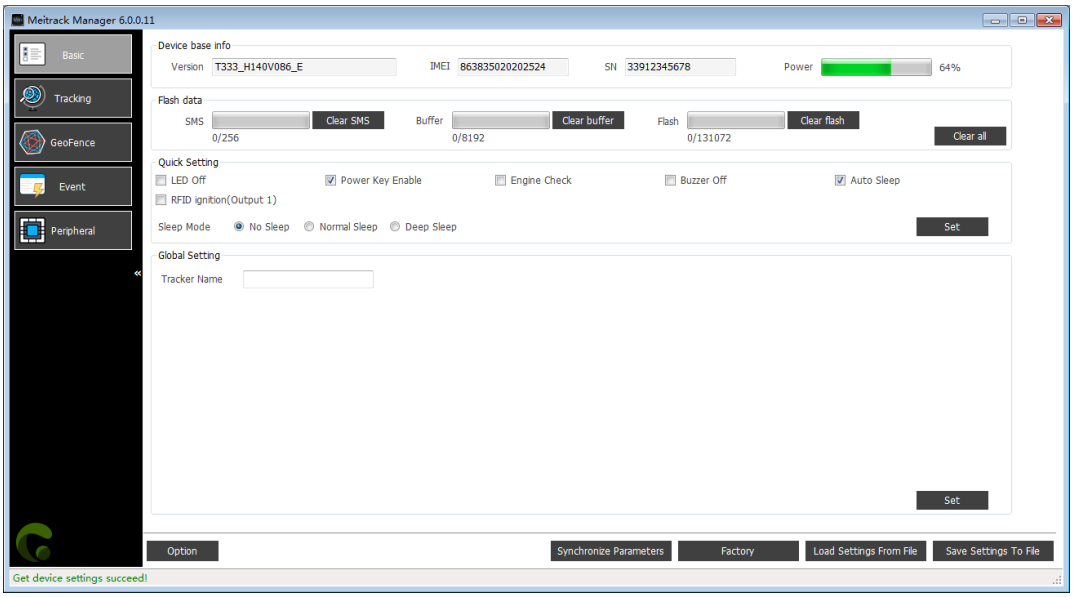




3. Connect the MT90/T1/T333 to a computer by using the USB cable.

For the T1/T333/T622, after the device is connected to the computer, you need to press and hold down the power button for 3 seconds to turn on it. For the MT90G/MT90/TC68S, the device will turn on automatically upon connecting to the computer. You are advised to turn off the device if you do not use it after parameter settings.

4. Run Meitrack Manager. If the device is connected to the computer successfully and the auto connection mode has been set for Meitrack Manager, Meitrack Manager will automatically detect the port number and model of the device and read all the parameters of the device.



Meitrack Manager integrates with the following product models:

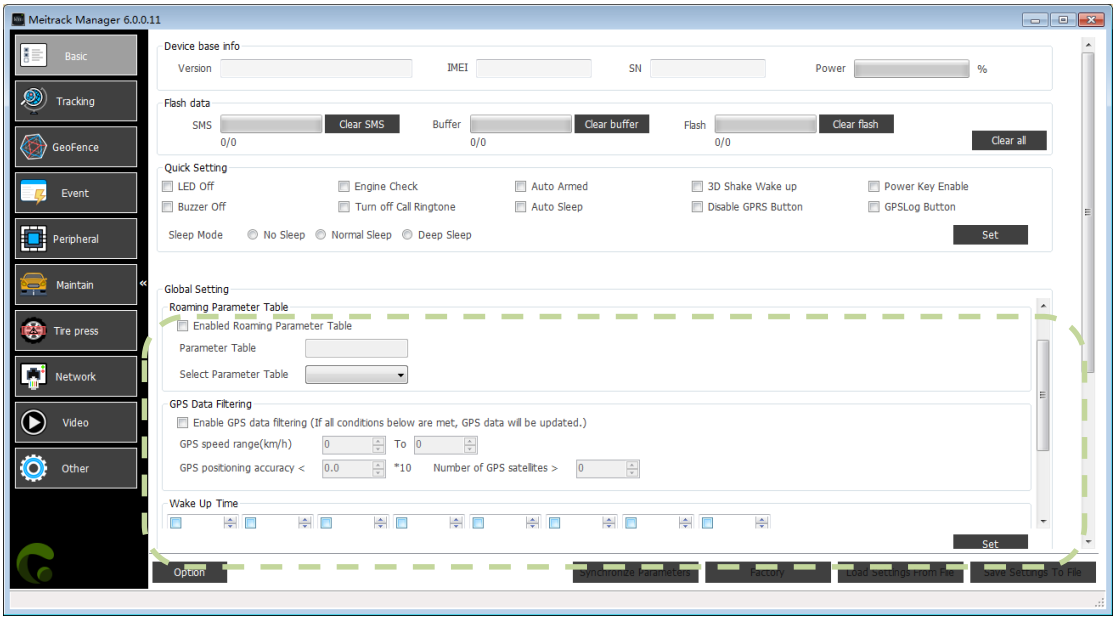
MT90G/MT90/T1/TC68S/MVT100/MVT340/MVT600/MVT800/T311/T333/MVT380/T355/T622/T622G/P99G/T366/T366G/P66/P11/T388G/T688/MD522S/MD511H/K211G//T399G/P99L/P99E/T622E/T366L/T633L/TC68L/TC68SL/TS299L.

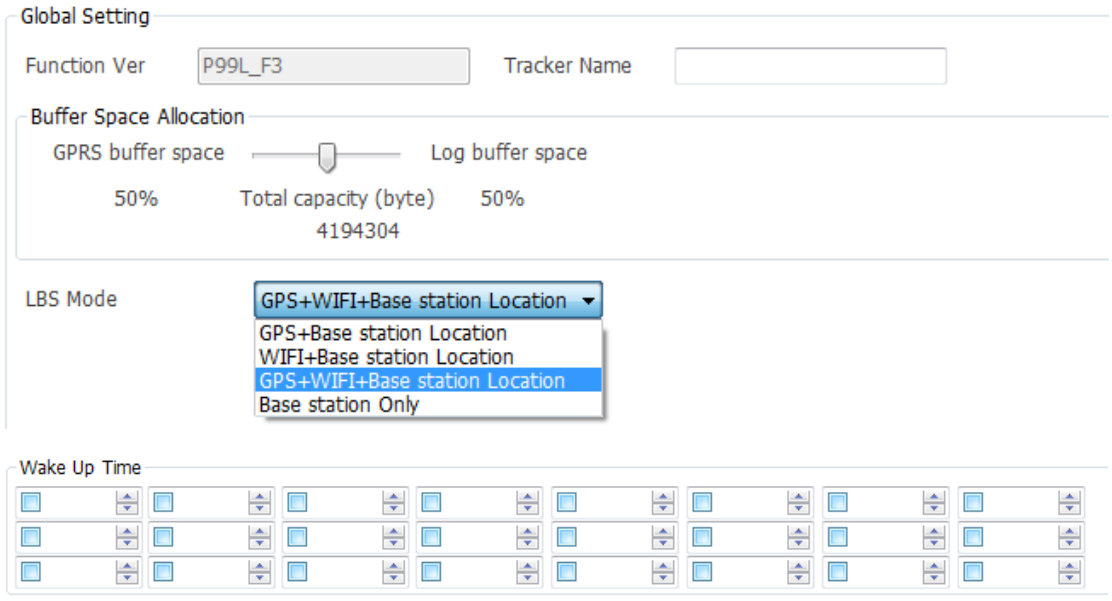
If a device mentioned is automatically detected, the corresponding device page will be displayed.

5 Tracker Parameter Settings

This chapter describes the Meitrack Manager functions. Each tracker has unique pages due to different functions. This chapter uses some figures of the debugging version of Meitrack Manager as an example, and the figures shown in this chapter are for reference only.

5.1 Basic Settings





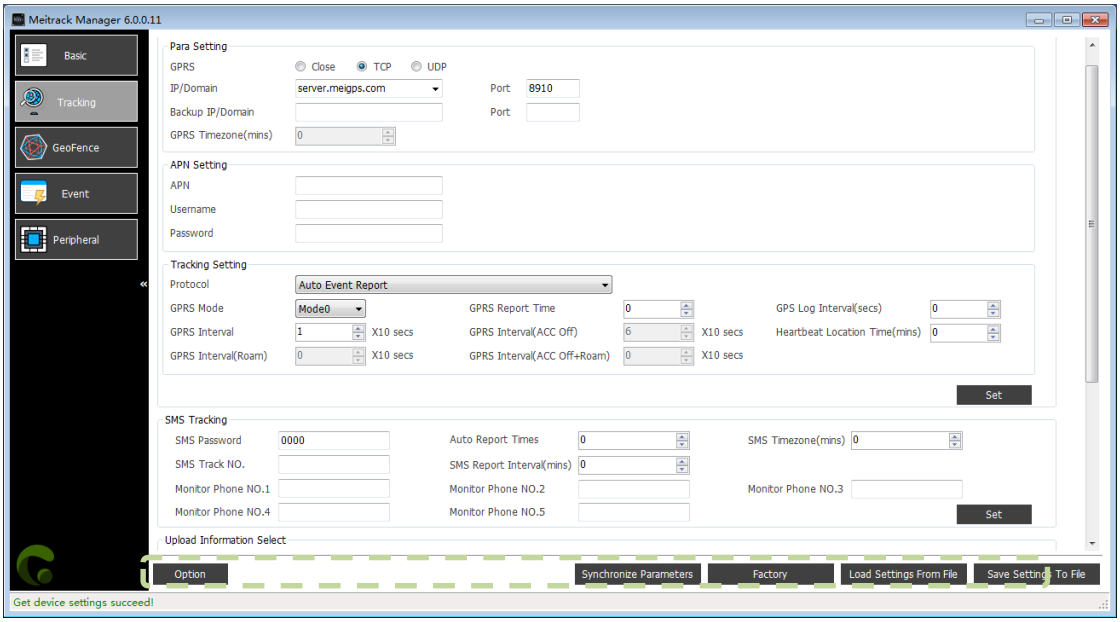
The following parameters are listed in order of displaying on the debugging version of Meitrack Manager.

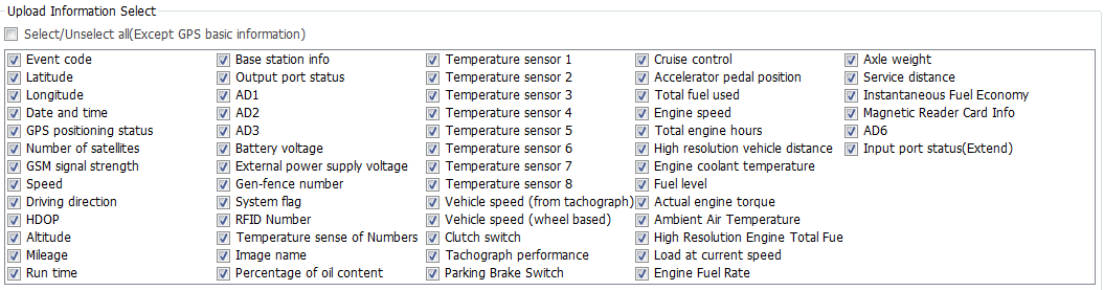
Parameter	Description
Version	Includes the firmware version, device model, and firmware creation date. When new official firmware is released, you can compare the new firmware with the old one, and then check whether an upgrade is required. This field cannot be edited.

IMEI	Indicates the device's IMEI number. It is a unique number for the GPS tracking system and cannot be changed.
SN	Indicates the device's serial number (SN). It is a unique number for the product and cannot be changed.
Power	Indicates the remaining battery capacity of the internal battery. It is displayed by percentage.
SMS	Indicates the number of SMS messages that fail to be sent. It is displayed in the form of "*Cache quantity/Total data capacity*". You can click **Clear SMS** to clear all cache. Cached data will be sent again when a valid GSM signal recovers.
Buffer	Indicates the quantity of GPRS data that fails to be sent. It is displayed in the form of "*Cache quantity/Total data capacity*". You can click **Clear buffer** to clear all cache. Cached data will be sent again when a valid GSM signal recovers.
Flash	Indicates the quantity of data recorded by the GPS Logger. It is displayed in the form of "*Recorded data quantity/Total data capacity*". You can click **Clear flash** to clear all recorded data. This releases storage space.
Clear all	Clear all cached GPRS data, SMS messages and recorded data at the same time.
LED Off	Turn off GSM and GPS LED indicators of the device. After that, the device is easy to hide and its battery power is saved, but GSM and GPS running status cannot be confirmed by the LED indicators.
Turn off Call Ringtone	Turn off the sounds of phone keys and incoming calls. After that, when you press keys and there is an incoming call, no sound will remind you.
Engine Check	This function is only available for vehicle trackers. After the option is selected, if the device detects that the ACC is off, the longitude and latitude will not be updated to avoid static drift.
Buzzer Off	Turn off the rings of phone keys and incoming calls. After that,when you press keys and there is an incoming call, no ring will remind you
RFID ignition by output 1	After the option is selected and an RFID card is swiped, output 1 can be controlled to start the engine. (For more information about the function, please see the *Meitrack RFID user guide*.)
Auto Armed	Select this option to enable the auto arming function. When the device enters the sleep mode, it will be automatically armed. You can set disarming by a command or remote control.
Auto Sleep	After the option is selected, when the voltage of the external power supply is lower than the preset value, the device will automatically enter the deep sleep mode.
3D Shake Wake up	After the option is selected, when the device is in the sleep mode, it can be woken up by 3D vibration. Default: Not wakeup.
Disable GPRS Button	After the option is selected, you cannot press and hold down the **Volume** button"-" to rapidly enable or disable the GPRS function. The GPRS function is disabled by default.
Power Key Enable	After the option is selected, you can press and hold down the power button for three seconds to turn off the device. If the option is deselected, you cannot turn off the device by the power button.
GPS Log Button	After the option is selected, you cannot press and hold down the **Volume** button"+" to rapidly enable or disable the GPS log function.

Sleep Mode	There are three modes available: No Sleep, Normal Sleep, and Deep Sleep. Normal Sleep: The GSM module always works, and the GPS module occasionally enters the sleep mode (every five minutes). Deep Sleep: The GPS module stops working and the GSM module enters the sleep mode five minutes after no events are triggered.
Tracker Name	Used to identify devices and not used for data transmission. This option can be defined by users.
Buffer Space Allocation	The storage percentage of GPRS and log cache will be showed. You can move the scroll bar to allocate the storage space.
LBS Mode	You can select proper positioning mode based on usage conditions and environments. There are four positioning modes available: ● GPS + LBS positioning ● WiFi + LBS positioning ● GPS + WiFi + LBS positioning ● LBS positioning
Roaming Parameter Table	After you enable the roaming parameter table and the device enters a roaming area, the roaming parameters will take effect. There are two parameter tables: **General Settings** (non-roaming parameters) and **Roaming Settings** (roaming parameters).
GPS Data Filtering	After you enable GPS data filtering, if all conditions of the GPS speed, GPS positioning accuracy, and number of GPS satellites are met, GPS data will be updated. The GPS data filtering function can eliminate static drift. Filtered data includes the GPS speed, GPS positioning accuracy, and number of GPS satellites.
P66 Working Mode	The P66 tracker supports three working modes: Long Standby Mode, SOS Mode, and Normal Mode. For details, see the *Meitrack P66 User Guide*.
Wake Up Time	When the P66 is in the long standby mode, users are allowed to set at most 24 time points for the device, such as 6: 00, 7:15, or 8:50. At a preset time point, the device will automatically send a piece of positioning data to the tracking platform, and then it will automatically enter the sleep mode. At other time points, the device will not send data.
Synchronize Parameters	Read the latest parameters from the device to check whether edited parameters are saved successfully.
Factory	Restore all device parameters to initial settings.
Load Settings From File	Read the parameter file saved before. If the file is read successfully, a dialog box asking whether to apply to the current device will pop up. If yes, you are advised to change the Tracker Name.
Save Settings To File	Save all parameters of the device as a file. The parameter configurations can be used for another device.
Set	Save the parameter settings shown in the current column. If you do not want to affect parameters in other columns, click the **Set** button in the current column.

5.2 Tracking Settings





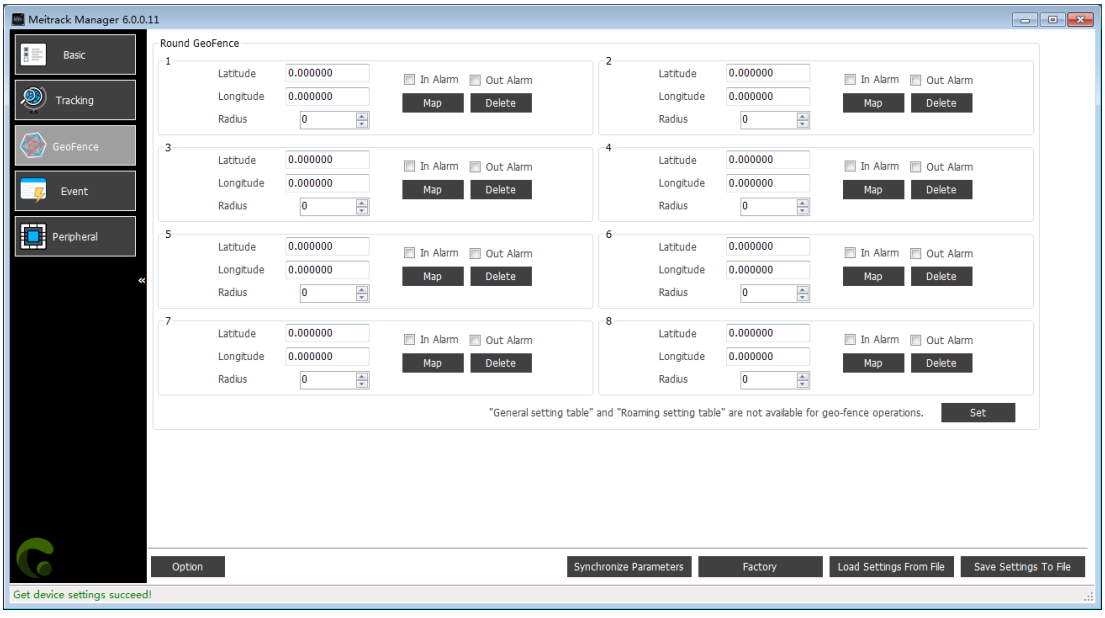
Parameter	Description
GPRS	**Close**: Disable the GPRS scheduled uploading function. **TCP**: This is a reliable connection mode. You are advised to select this option. **UDP**: This mode saves data usage but is not reliable.
IP/Domain and Port	Set the active server IP address and port. You can set the IP address to **67.203.15.7** and port to **10003**.
Backup IP/Domain and Port	Set the standby server IP address and port. When the active server stops, the device automatically sends data to the standby server to prevent data loss. If there is no standby server, delete the parameter settings.
GPRS Time Zone	When **GPRS minute** is **0**, the time zone is GMT 0 (default time zone). Please set the GPRS time zone to **0** when you use our tracking platform. When **GPRS minute** is a value ranging from **-32768** to **32767**, set time zones.
APN, Username, and Password	Each parameter contains a maximum of 32 bytes. If no username and password are required, leave them blank. *The APN of China Mobile is CMNET, and the APN of China Unicom is UNINET. Their usernames and passwords are left blank.*
Protocol	The default value of this parameter is **Auto Event Report**.

	If you want to transmit other events, "Event report needs server's confirmation and delete the event report" option needs to work with the UDP. For details, see the *MEITRACK GPRS protocol*.
GPRS Mode	GPRS mode: ACC ON, ACC OFF, Local, and Roaming
Mode 0	Mode 0 (T1): In this mode, **T1** is the data uploading interval that is not restricted by any condition.
Mode 1	Mode 1 (T1 + T2): In this mode, **T1** is the data uploading interval when the ACC is on, while **T2** is the data uploading interval when the ACC is off.
Mode 2	Mode 2 (T1 + T3): In this mode, **T1** is the non-roaming data uploading interval, while **T3** is the roaming data uploading interval.
Mode 3	Mode 3 (T1 + T3 + T4): In this mode, **T1** is the non-roaming data uploading interval that is not restricted by the engine status, **T3** is the roaming data uploading interval when the ACC is on, and **T4** is the roaming data uploading interval when the ACC is off.
Mode 4	Mode 4 (T1 + T2 + T3 + T4): In this mode, **T1** is the non-roaming data uploading interval when the ACC is on, **T2** is the non-roaming data uploading interval when the ACC is off, **T3** is the roaming data uploading interval when the ACC is on, and **T4** is the roaming data uploading interval when the ACC is off.
GPRS Report Time	Indicates the number of GPRS reporting times. When the number of times is **0**, data can be reported for unlimited times. When the number of times is a value ranging from **1** to **65535**, set the number of reporting times. When the number of reporting times reaches the preset value, reporting stops.
GPS Log Interval	The location information will be recorded by GPRS at a specific interval. This function is available when GPS is valid and there is no GSM signal (such as climbing). Therefore, this function is not recommended for normal conditions.
GPRS Interval	Indicates the data uploading interval when the ACC is on.
GPRS Interval (ACC Off)	Indicates the data uploading interval when the ACC is off.
GPRS Interval (Roam)	Indicates the data uploading interval when the ACC is on in the Roaming mode.
GPRS Interval (ACC Off + Roam)	Indicates the data uploading interval when the ACC is off in the Roaming mode.
Heartbeat Location Time (min)	Indicates the device positioning time before a heartbeat is sent. If the device positioning time exceeds the preset value, a heartbeat event with invalid positioning information will be sent.
SMS Password	Indicates the password used for sending an SMS command. The default parameter value is **0000**.
SMS Time Zone	The default time zone of the device is GMT 0. This option is used to change the time zone of SMS reports to the local time zone. The time zone of SMS reports is different from that of GPRS data packets. When **SMS minute** is **0**, the time zone is GMT 0 (default time zone). When **SMS minute** is a value ranging from **-32768** to **32767**, set time zones. Unit: minute. For example, set the Beijing time zone to **480**.

SMS Tracking No.	**SMS Tracking No.**: Indicates the phone number receiving SMS messages at a specified time interval. **SMS Report Interval (mins)**: Report the device's location at a specified time interval by an SMS message. Set the SMS report time interval. ● When the interval is **0**, the scheduled SMS reporting function is disabled (default value). ● When the interval is a value ranging from **1** to **65535**, set a time interval. Unit: minute. Set the number of reporting times. ● When the number of times is **0**, data can be reported for unlimited times. ● When the number of times is a value ranging from **1** to **65535**, set the number of reporting times. When the number of reporting times reaches the preset value, reporting stops.
Monitor Phone NO.	When you call the device by using an authorized listen-in phone number, the device will answer the call automatically and enter the listen-in state. In the meanwhile, the device will not make any sound. A maximum of two phone numbers can be set. Each phone number has a maximum of 16 digits. If no phone numbers are set, leave them blank. Phone numbers are empty by default.
Upload Information Select	Except for basic GPS information, you can select the information to be uploaded.
Set	Save the parameter settings shown in the current column.

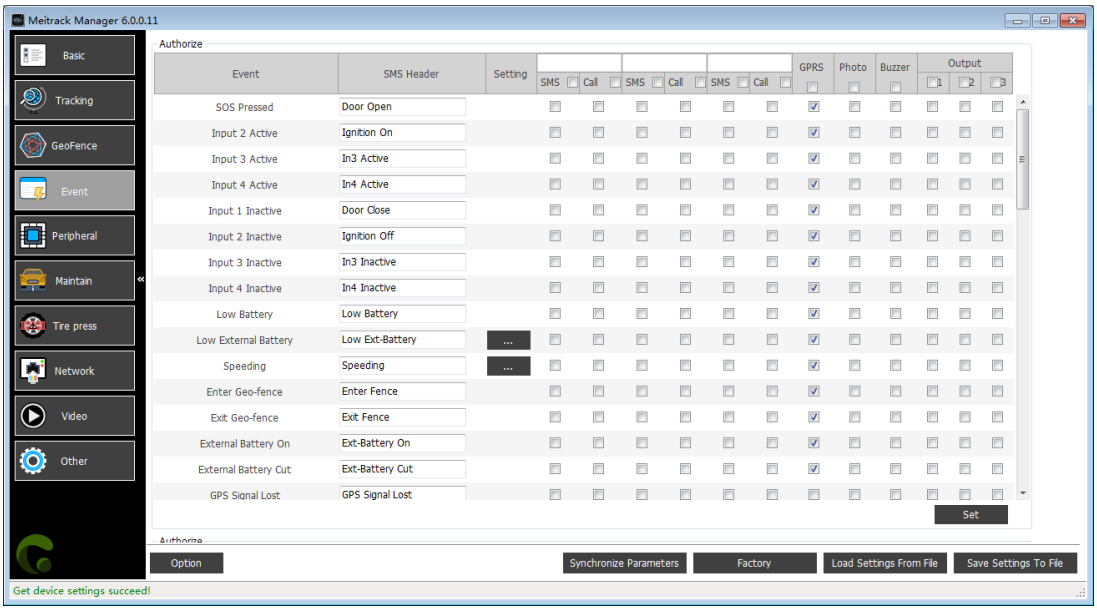
For details about GPRS settings, see the *MEITRACK SMS Protocol* and *MEITRACK GPRS Protocol*.

5.3 Geo-Fence Settings



Parameter	Description
Geo-fence	A maximum of eight circular geo-fences can be set. Enter a geo-fence: If you select **In Alarm**, an alert will be sent when the device enters a preset geo-fence. Exit a geo-fence: If you select **Out Alarm**, an alert will be sent when the device exits a preset geo-fence. You can enter parameter values in **Latitude**, **Longitude**, and **Radius**, or click **Map** to draw a geo-fence. If you want to delete a geo-fence, click **Delete**.
Set	Save the parameter settings shown in the current column.

5.4 Event Settings



Parameter	Description
Event	The selected event reports will be sent to the server through GPRS. For details, see the *MEITRACK GPRS Protocol* and *MEITRACK SMS Protocol*. For details about event descriptions, see the following table.
SMS Header	Indicates the name of an SMS alert event. Users are allowed to set the name.
Setting	Indicates the parameter value of an event. For example, set the speeding event value to 50 km/h. When the driving speed exceeds the preset value, a speeding alert will be sent.
Phone Number	A maximum of three phone numbers can be set. If an alert is generated, it will be notified of users by using authorized three phone numbers.
SMS	Tick the check box of a corresponding event. After this option is selected, if the event is generated, the device will send an event report through SMS to an authorized phone number. Note: If you tick the check box next to **SMS**, all events with the SMS function will be

	selected.
Call	Tick the check box of a corresponding event. After this option is selected, if the event is generated, the device will call the users who has authorized phone numbers. Note: If you tick the check box next to **Call**, all events with the call function will be selected.
GPRS	Tick the check box of a corresponding event. After this option is selected, if the event is generated, the device will send a GPRS event report to the server. Note: If you tick the first check box under **GPRS**, all events with the GPRS function will be selected.
Photo	Tick the check box of a corresponding event. After this option is selected, if the event is generated, the device will take a photo automatically. Note: If you tick the first check box under **Photo**, all events with the photo function will be selected.
Buzzer	Tick the check box of a corresponding event. After this option is selected, if the event is generated, the device will announce a voice prompt through the speaker. Note: If you tick the first check box under **Buzzer**, all events with the voice prompt function will be selected.
Output *n* (*n*: 1, 2, or 3)	You can set output port 1 and output port 2. When some alert events are generated, output ports can be used to trigger the high level, low level, or PWM wave. Can be set in the I/O Config Triggering mode: high level, low level, and PWM Unit of output time: 10 ms Duty cycle range: 0%–100% Unit of PWM period: μs
Set	Save the parameter settings shown in the current column.

Event descriptions (example)

Event	**Description** ***(If a check box is selected, the event report will be sent to the server through GPRS.)***
Input 1 Active (SOS Pressed)	When input 1 is activated (or the SOS button is pressed), an alert will be sent.
Input 2 Active	When input 2 is activated, an alert will be sent. SMS header: Ignition On: MVT100&T366&T388G Door Open: MVT600&T1&MVT800&T622&T688. Other devices are not defined.
Input 3 Active	When input 3 is activated, an alert will be sent. SMS header: Ignition On: MVT600&T1&T622&T688&T388G Door Open: MVT800. Other devices are not defined.
Input 4 Active	When input 4 is activated, an alert will be sent. SMS header: Ignition On
Input 1 Inactive (SOS Released)	When input 1 is not activated (or the SOS button is released), an alert will be sent.

Input 2 Inactive	When input 2 is not activated, an alert will be sent. SMS header: Ignition Off: MVT100&T366&T388G Door Close: MVT600&T1&MVT800&T622&T688. Other devices are not defined.
Input 3 Inactive	When input 3 is not activated, an alert will be sent. SMS header: Ignition Off: MVT600&T1&T622&T688&T388G Door Close: MVT800. Other devices are not defined.
Input 4 Inactive	When input 4 is not activated, an alert will be sent. SMS header: Ignition Off
Low Battery	When the voltage of the internal battery is lower than the preset value, an alert will be sent.
Low External Battery	When the voltage of the external power supply (vehicle battery) is lower than the preset value, an alert will be sent. You can change the low battery threshold in the **Setting** column.
Speeding	When the driving speed exceeds the preset value, an alert will be sent. You can change the speeding threshold in the **Setting** column.
Enter Geo-fence	When the device enters a preset geo-fence, an alert will be sent.
Exit Geo-fence	When the device exits a preset geo-fence, an alert will be sent. You can change the geo-fence threshold in the **Setting** column.
External Battery On	When the vehicle battery is properly connected to the device, an alert will be sent. Note: You can directly plug the TC68S into the vehicle without any cable.
External Battery Cut	When the vehicle battery power is cut off, an alert will be sent. Note: You can directly plug out the TC68S from the vehicle.
GPS Signal Lost	When the device enters a GPS blind spot or no valid GPS signal is received, an alert will be sent.
GPS Signal Recovery	When the device exits a GPS blind spot or a valid GPS signal is received, an alert will be sent.
Enter Sleep	When the device enters the sleep mode, an alert will be sent.
Exit Sleep	When the device is woken up from the power-saving mode, an alert will be sent. You can modify the sleep mode in the **Setting** column.
GPS Antenna Cut	The external GPS antenna is not connected or is cut off.
Device Reboot	After the device is turned on, an event report will be sent.
Heartbeat	Enable the heartbeat report function. You can change the heartbeat packet interval in the **Setting** column.
Cornering	Enable the cornering report function. When the driving angle exceeds the preset value, a cornering report will be sent. You can change the cornering angle threshold in the **Setting** column.
Track by Distance	Track by distance. You can change the distance threshold in the **Setting** column.
Reply Current (Passive)	When the device receives a call or an SMS from an authorized phone number, the current location will be replied.
Track By Time Interval	Track by time interval.

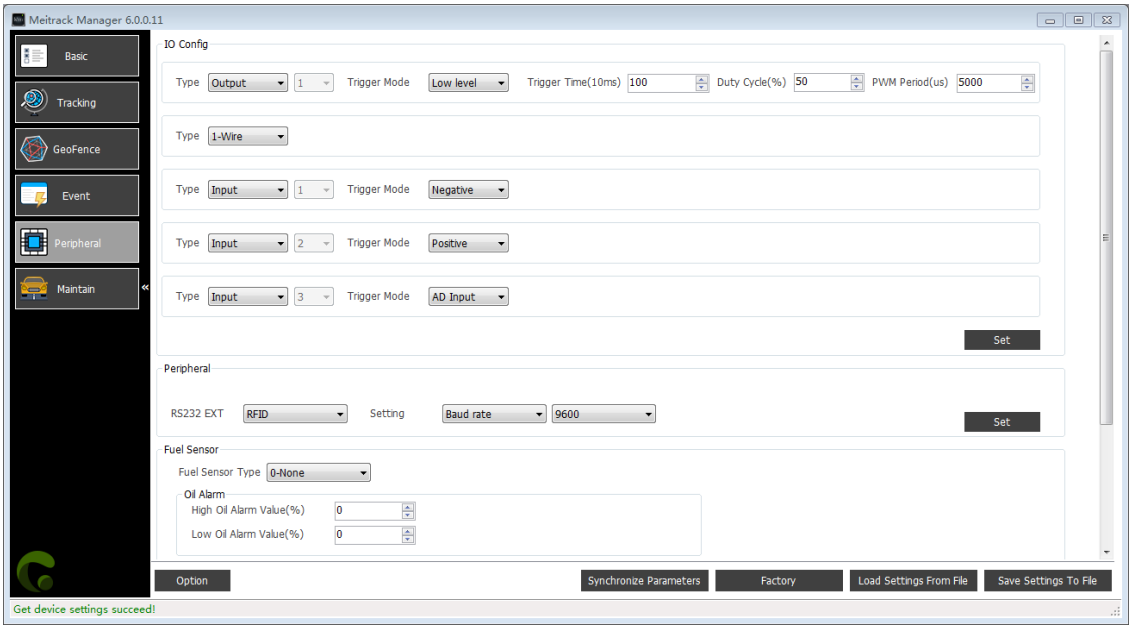
	You can change the time interval on the **Tracking** tab page.
Tow	When the device enters the deep sleep mode, if the vibration time exceeds the preset value, a towing alert will be sent. You can change the consecutive vibration time for a towing alert in the **Setting** column.
RFID	Connect the device to the RFID reader to obtain the RFID card number. (After the T622 is connected to iButton reader, related RFID events will be received.)
Temperature High	When the temperature of the temperature sensor is higher than the preset upper limit, an alert will be sent.
Temperature Low	When the temperature of the temperature sensor is lower than the preset lower limit, an alert will be sent.
Full Fuel	When the fuel level of the fuel level sensor exceeds the preset upper limit, an alert will be sent.
Low Fuel	When the fuel level of the fuel level sensor is less than the preset lower limit, an alert will be sent.
Fuel Filling	When the fuel level increases by over 2% within three minutes (default time), an alert will be sent.
Fuel Theft	When the fuel level reduces by over 2% within three minutes (default time), an alert will be sent.
Armed	When the arming mode is successfully set for the device, an event report will be sent.
Disarmed	When the disarming mode is successfully set for the device, an event report will be sent.
Vehicle Theft	In the arming mode, if the input is activated, it means that the vehicle is stolen. In this way, an alert will be sent.
Stop Moving	After this function is enabled, if the device stops moving, an event report will be sent.
Start Moving	After this function is enabled, if the device starts moving, an event report will be sent.
GSM Jamming	After this function is enabled, if the device detects jamming, an event report will be sent.
Reject Incoming Call	After this function is enabled, if the device receives a call from an authorized phone number, the call will be rejected automatically.
Auto Answer Incoming Call	After this function is enabled, if the device receives a call from an authorized phone number, the call will be answered automatically.
Harsh Braking	Harsh braking alerts help analyze drivers' driving behavior. After this function is enabled, if the driving speed reaches the preset value, an alert will be sent.
Harsh Acceleration	Harsh acceleration alerts help analyze drivers' driving habits. The alert value is a positive number. After this function is enabled, if the driving speed reaches the preset value, an alert will be sent.
Fall	After this function is enabled, if the device falls down, a Man Down alert will be sent.
No GSM Jamming	After this function is enabled, if the device detects no jamming, an event report will be sent.
Idle Overtime	This event helps analyze drivers' driving habits. When the vehicle parks overtime without ignition off, an alert will be sent.
Idle Recovery	This event helps analyze drivers' driving habits. When the vehicle recovers to normal

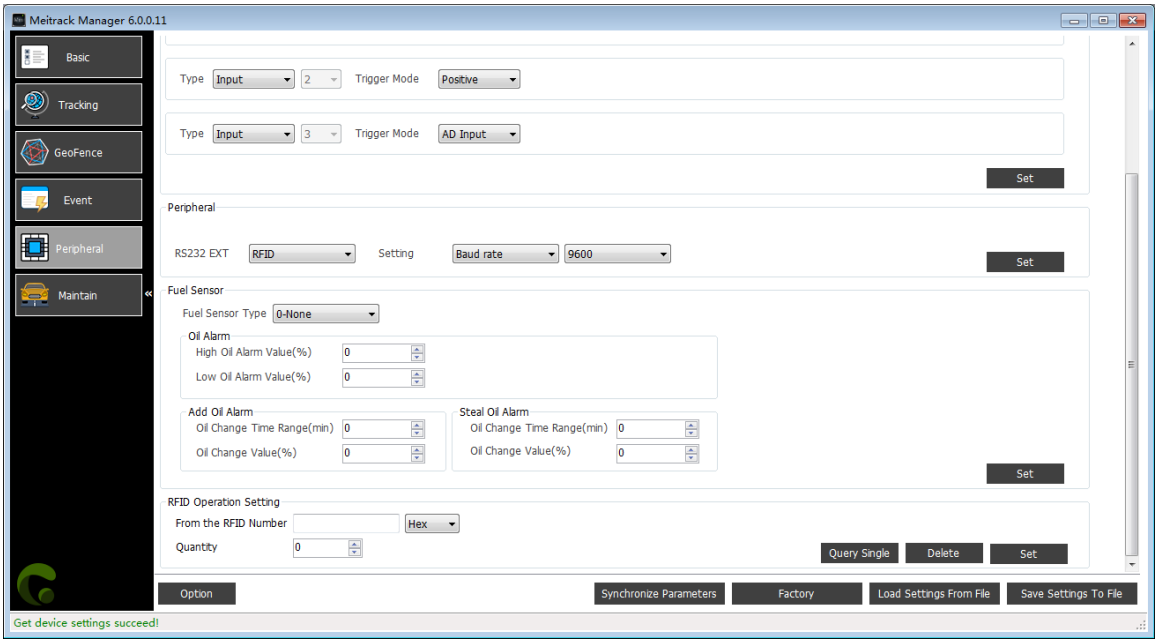
	speed from idling overtime, an idling recovery alert will be sent.
Fatigue Driving	After the driver fatigue function is enabled, if the driving time reaches the preset value, an event report will be sent. You can change the driver fatigue time in the **Setting** column.
Enough Rest after Fatigue Driving	After this function is enabled, if the rest time reaches the preset value, an event report will be sent. You can change the rest time in the **Setting** column.
Speed Recovery	After this function is enabled, if the driving speed recovers to the normal speed, an event report will be sent.
Maintenance Notice	After this function is enabled, if the driving distance or time reaches the preset value, an event report will be sent.
Ignition On	After this function is enabled, if the device detects that the ACC is on, an event report will be sent.
Ignition Off	After this function is enabled, if the device detects that the ACC is off, an event report will be sent.

For details about GPRS settings, see the *MEITRACK SMS Protocol* and *MEITRACK GPRS Protocol*.

5.5 Peripheral Settings

The following is the Peripheral page for the T366G.

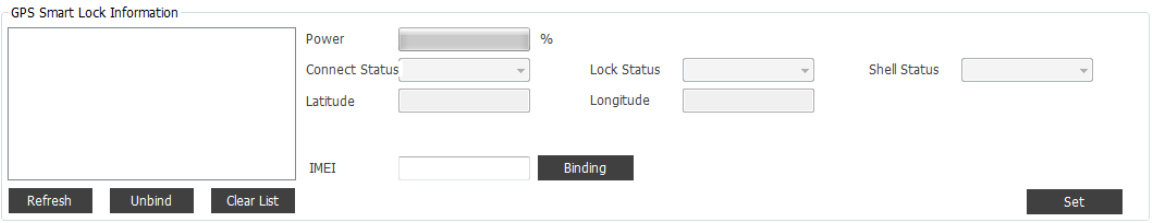




Parameter	Description
IO Config	You can select the I/O port type and trigger mode. When **Input** is selected from the **Type** drop-down list, you can set **Trigger Mode** to **Positive**, **Negative**, or **AD Input**. Positive and negative trigger modes are used to detect the SOS, ACC status, and vehicle door status, while the AD input is used to connect to an AD sensor, such as the fuel level sensor. When **Output** is selected from the **Type** drop-down list, you can set **Trigger Mode** to **High level**, **Low level**, or **PWM**, and can set the trigger time, duty cycle and PWM period. The output port is used to connect to the buzzer to remind drivers or connect to an external relay to remotely cut off the vehicle fuel cable and engine power supply. When **1-Wire** is selected from the **Type** drop-down list, it is used to connect to the A52 digital temperature sensor or iButton by default by using the A61 sensor box
Peripheral	RS232 peripherals are supported. RS232 peripherals include the RFID reader, LED display, and ultrasonic fuel level sensor. In the **Setting** drop-down list, you can select **Baud rate** and set the baud rate value.
Fuel Sensor	The device can connect to the C-type fuel level sensor, V-type fuel level sensor, R-type fuel level sensor, and ultrasonic fuel level sensor. You can set high and low fuel alert percentage. When the fuel percentage is greater than or lower than the preset value, a high fuel alert or a low fuel alert will be sent respectively. When the ultrasonic fuel level sensor selected, users can set the full fuel and empty fuel values as required. When the fuel level increases or reduces by over 2% within three minutes (default time), a fuel filling alert or fuel theft alert will be sent respectively. You can set the percentage as required.
RFID Operation Setting	**From the RFID Number**: The hexadecimal or decimal data format can be selected.

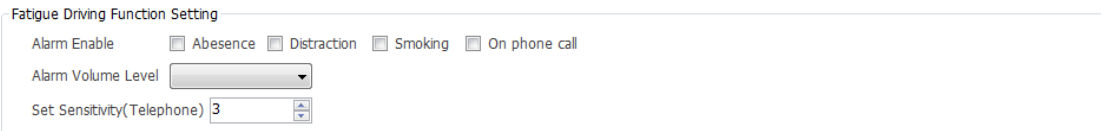
	Quantity: RFID card numbers can be authorized in batches. A maximum of 64 RFID cards can be authorized at a time. For example, after the **From the RFID Number** parameter is set to **1234** and the **Quantity** parameter is set to **5**, the RFID card numbers from 1234 to 1239 are authorized. **Query Single**: Click the **Query Single** button to query whether an RFID card number is authorized. **Delete**: Click the **Delete** button to delete authorized RFID card numbers. **Set**: After entering the RFID card start number and quantity, click the **Set** button to authorize these RFID card numbers in batches.

5.5.1 Binding the K211G to the T399G



Parameter	Description	Applicable Model
IMEI	After the K211G GPS smart lock is bound to the T399G tracker, the T399G can upload the K211G status information. To bind the two devices, enter the T399G's IMEI number on the box next to **IMEI**, and click **Binding** and **Set**.	K211G/T399G
Power, Connect Status, Lock status, Shell Status, Latitude, and Longitude	Indicates the K211G status information. The information is uploaded by the bound T399G to the server.	K211G/T399G

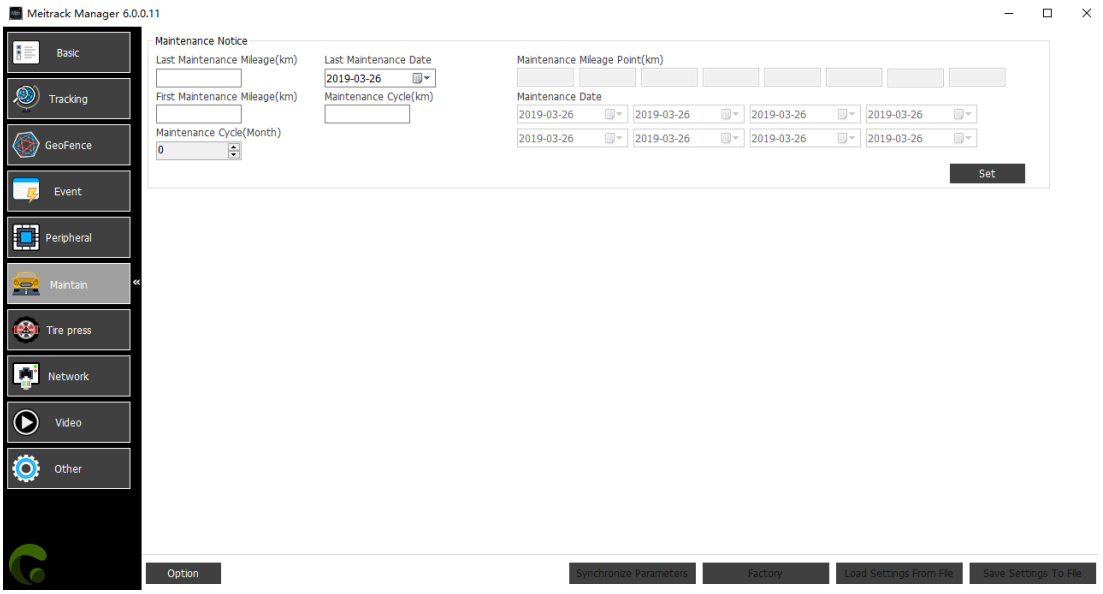
5.5.2 Driver Fatigue Setting



Parameter	Description	Applicable Model
Alarm Enable	If you do not set **Alarm Enable**, no alerts and GPRS events will be generated and no photos will be taken. Also, there will be no voice warnings.	**T466G/MD511H/ MD522S**
Alarm Volume Level	There are three alert volume levels: mute, medium volume, and high volume.	**T466G/MD511H/ MD522S**
Set Sensitivity (Telephone)	Set the sensitivity of detecting a call alert event. The stronger	**T466G/MD511H/**

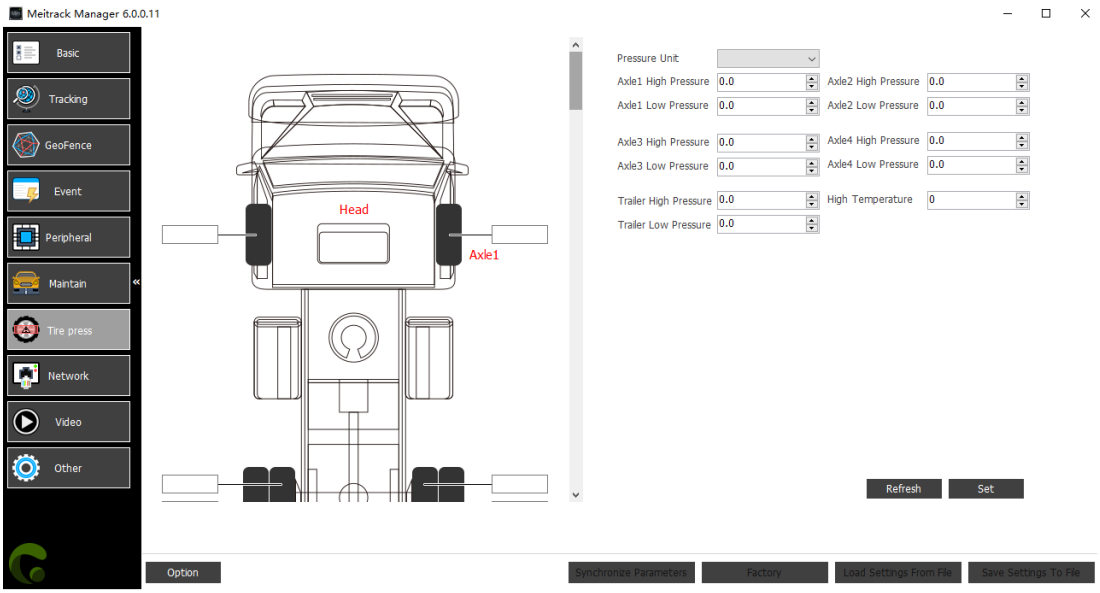
	the sensitivity is, the higher the alert possibility is.	**MD522S**

5.6 Vehicle Maintenance Settings



Parameter	Description
Last Maintenance Mileage (km) and Last Maintenance Date	Set the most recent vehicle maintenance mileage and date. If the vehicle has never been maintained, set **Last Maintenance Mileage (km)** to **0** and **Last Maintenance Date** to the vehicle purchase date.
First Maintenance Mileage (km) and Maintenance Cycle (km)	After the two parameters are set, if the driving distance reaches the preset value, a maintenance warning will be sent.
Maintenance Cycle (Month)	After the parameter is set, if the device running time reaches the preset value, a maintenance warning will be sent.
Maintenance Mileage Point (km) and Maintenance Date	Maintenance mileage point = Last maintenance mileage +Maintain Cycle(km) There are eight mileage points in total. Maintenance time point = Last maintenance date + Maintenance Cycle (Month) There are eight maintenance time points in total.

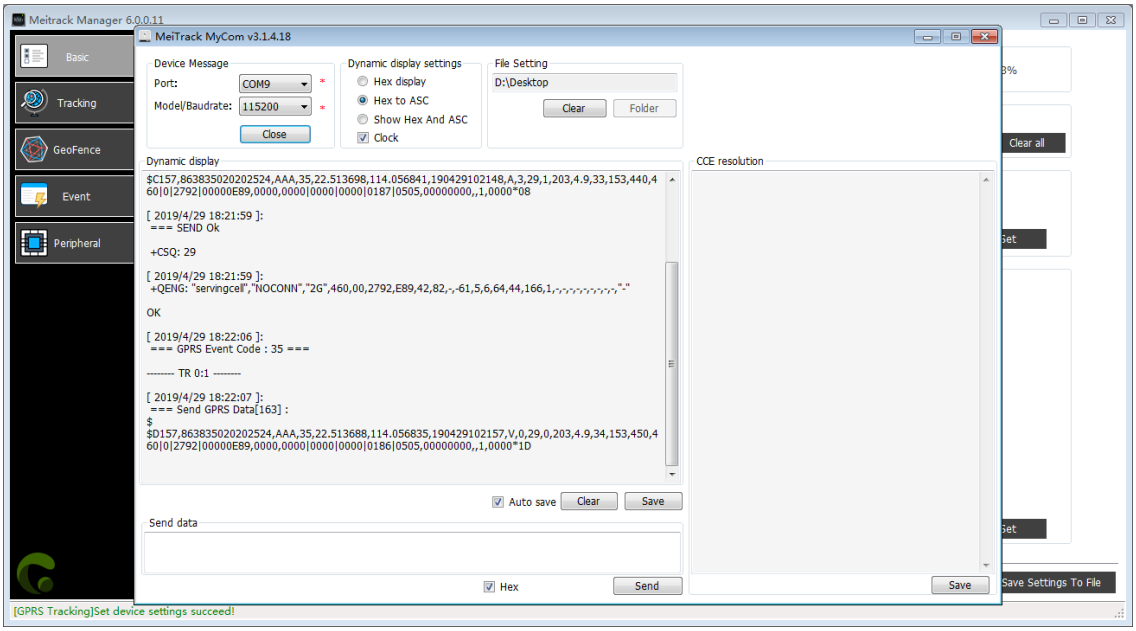
5.7 Tire Pressure Settings



Parameter	Description	Applicable Model
Pressure Unit	Two units are supported: bar and PSI.	T400G
Axle *n* High Pressure (*n*: 1, 2, 3, or 4)	Set the high pressure alert threshold of axle 1, 2, 3, or 4.	T400G
Axle *n* Low Pressure (*n*: 1, 2, 3, or 4)	Set the low pressure alert threshold of axle 1, 2, 3, or 4.	T400G
Trailer High Pressure	Set the high pressure alert threshold of the trailer.	T400G
Trailer Low Pressure	Set the low pressure alert threshold of the trailer.	T400G
High Temperature	Set the high temperature alert threshold of tires.	T400G

5.8 Fast Starting the MYCOM Tool

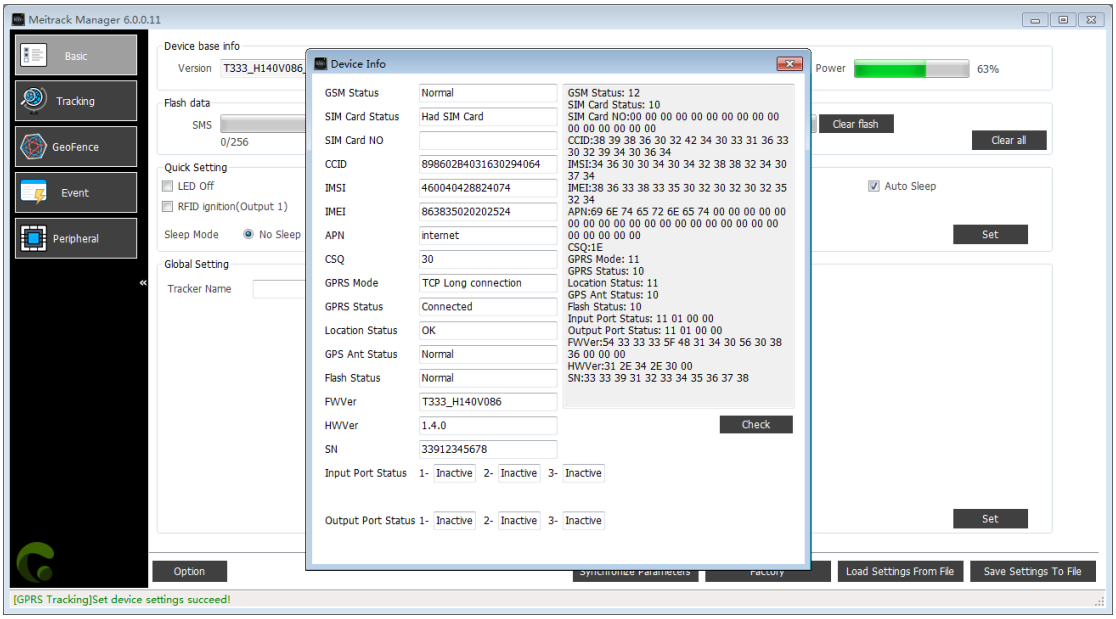
After Meitrack Manager starts, you can use the keyboard shortcut Ctrl+Alt+M to switch to the MYCOM serial port tool. The MYCOM tool will print the current running status of the device and data that is uploaded to the server, so that users can learn about the current working status of the device.



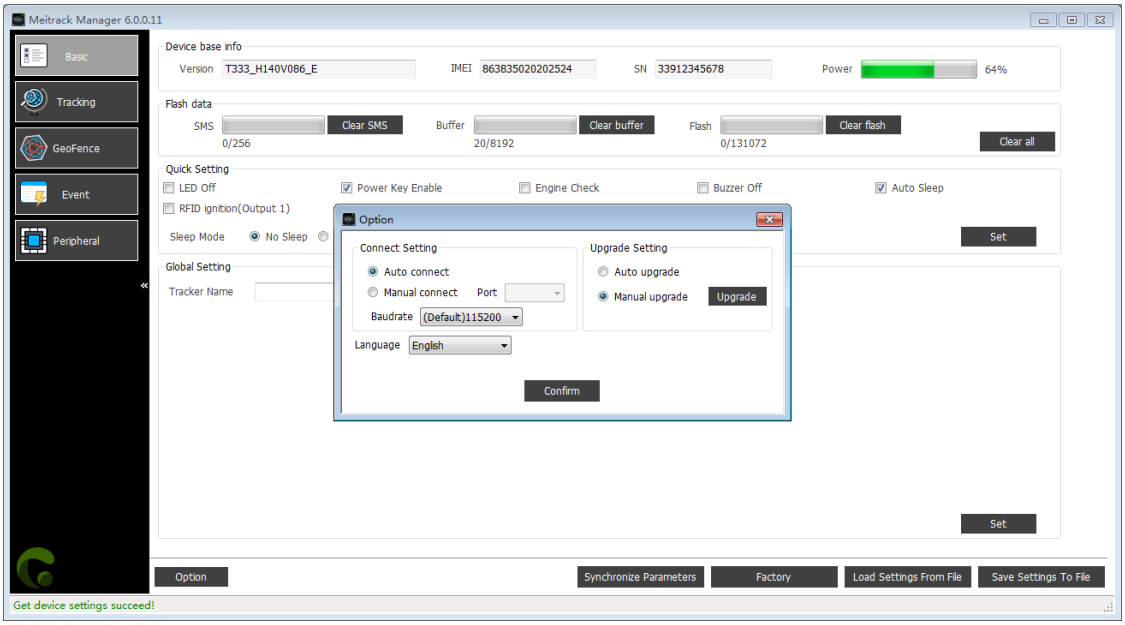
If you want to know more about GPRS data formats, see the *MEITRACK GPRS Protocol*.

5.9 Fast Switching to the Device Info Dialog Box

After Meitrack Manager starts, you can use the keyboard shortcut Ctrl+Alt+C to switch to the Device Info dialog box. The following device status information is displayed on the Device Info dialog box: GSM Status, SIM Card Status, APN, CSQ (GSM signal strength), GPRS Status, Location Status, GPS Ant Status, Flash Status, Input Port Status, and Output Port Status. With the above information, users can view and determine the current working status of the device. At present, the new firmware of the following devices supports this function: T333/T1B/T366/T366G/T622G/TC68S/TC68SG/MT90/P99G/P99L/366L/MD522S/MD511H.



5.10 Option Settings

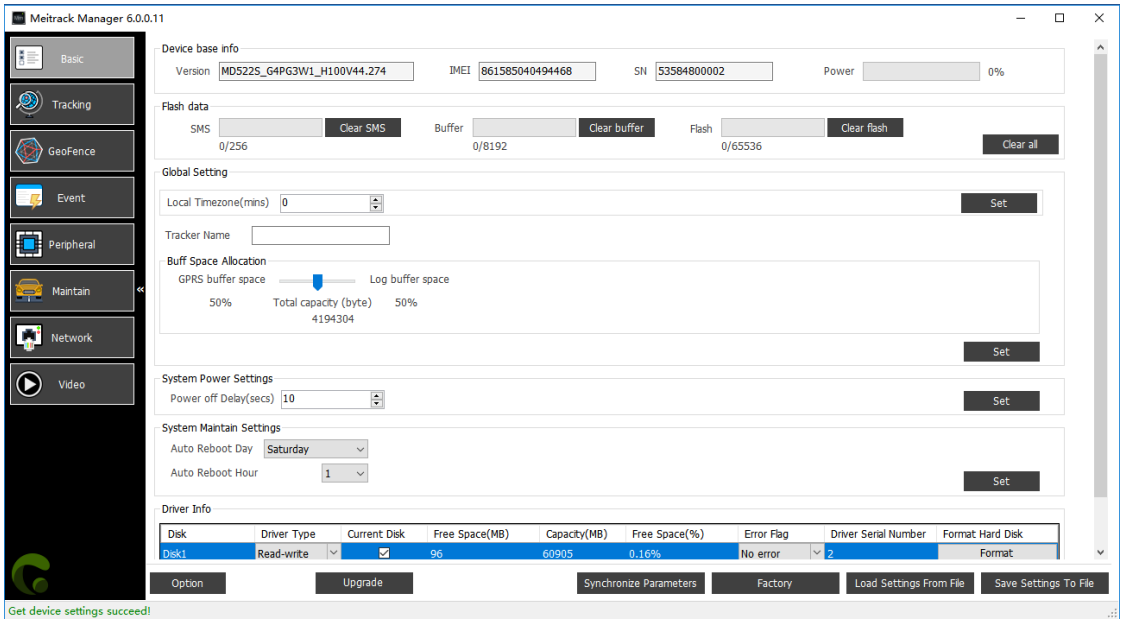


Parameter	Description
Connect Setting	There are two connection methods as follows: ● **Auto connect**: After the driver is installed and the device is connected properly, the computer will automatically detect the corresponding port and you do not need to manually set the port on Meitrack Manager. ● **Manual connect**: If the port fails to be automatically detected, select **Manual connect** to manually set the port.
Upgrade Setting	There are two upgrade methods as follows: ● **Auto upgrade**: When the software starts running, the existing version will be compared with the latest version. If the latest version exists, the software will be automatically updated. You are advised to select this option and make sure that the network is connected properly. ● **Manual upgrade**: If customized software is used or you do not want to update software automatically, select this option. Click **Upgrade** to manually compare the software versions. If a new version exists, the software will be automatically updated.
Option	You can select **Baud rate** and **Port** as required. The self-adaptive mode is supported by default.
Language	To set the software language, select a language from the **Language** drop-down list. Chinese and English languages are supported. After the language is switched, the software will be automatically restarted.
Confirm	Click **Confirm** to confirm the settings.
Enter MYCOM	After Meitrack Manager starts, you can use the keyboard shortcut Ctrl+Alt+M to switch to MYCOM tool. MYCOM and Meitrack Manager cannot be used at the same time.

6 MDVR Parameter Settings

This chapter uses the MD522S as an example.

6.1 Basic Settings



Parameter		Description	Remarks
Local Timezone(mins)		Indicates the time characters shown among camera OSD characters or among SMS alert texts.	If the current time of the GMT 0 time zone is 12:00:00, set the local time zone to 480 minutes. Therefore, the OSD time shown on a camera is 20:00:00.
Tracker Name		Used to identify devices and not used for data transmission. This option can be defined by users	
Power off Delay (secs)		Indicates the delay time of device power-off after the external power supply is cut off. (The delay time depends on the capacitance and working status of the device.)	
Auto Reboot Day and Auto Reboot Hour		Indicates the MDVR restart date and time. Auto Reboot Day: Evert Day/Never/Monday to Sunday. Auto Reboot Hour: 24 Hours After the two parameters are set, the MDVR will restart according to the preset date and time.	
Driver Info	Disk	Indicates the disk number. For example, disk 1, which means the first disk.	
	Driver Type	Indicates the memory permission, such as read and write.	

	Current Disk	Indicates the current disk that stores data.	
	Free Space (MB)	Indicates the remaining storage space of the current disk. Unit: MB.	
	Capacity (MB)	Indicates the total storage space of the current disk. Unit: MB.	
	Free Space (%)	Indicates the ratio of remaining storage space to total storage space.	
	Error Flag	Show whether the disk works properly.	
	Driver Serial Number	Indicates the serial number of the mounted disk.	
	Format Hard Disk	Manually format the disk or SD card. If users' disk is full, click **Format** to delete and format the disk, so users can record new audio and videos.	After the device with a disk installed for the first time is turned on, the disk name will be automatically modified to the default system name.

6.2 Tracking Settings

The parameter settings are the same as that of a tracker. For details, see the section 5.2 "Tracking Settings."

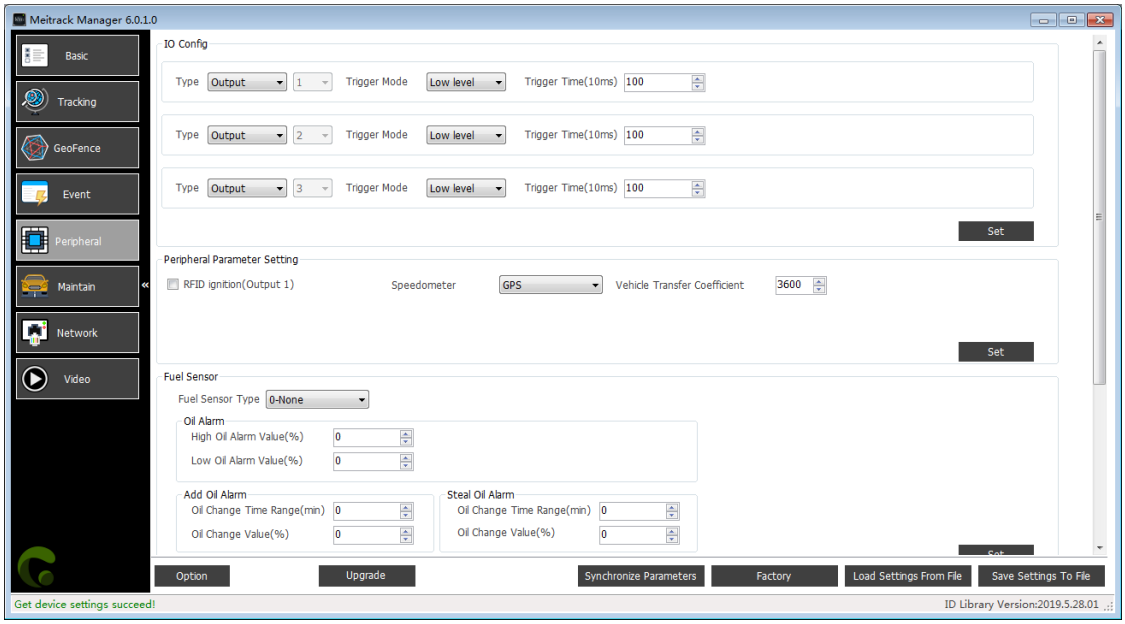
6.3 Geo-Fence Settings

The parameter settings are the same as that of a tracker. For details, see the section 5.3 "Geo-Fence Settings."

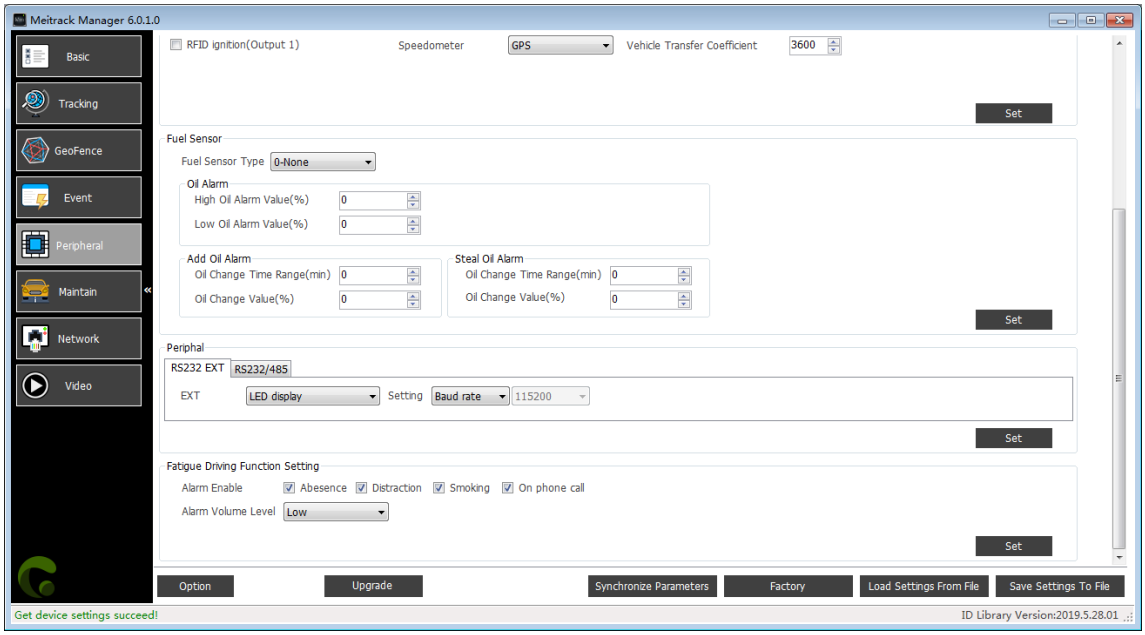
6.4 Vehicle Maintenance Settings

The parameter settings are the same as that of a tracker. For details, see the section 5.6 "Vehicle Maintenance Settings."

6.5 Peripheral Settings



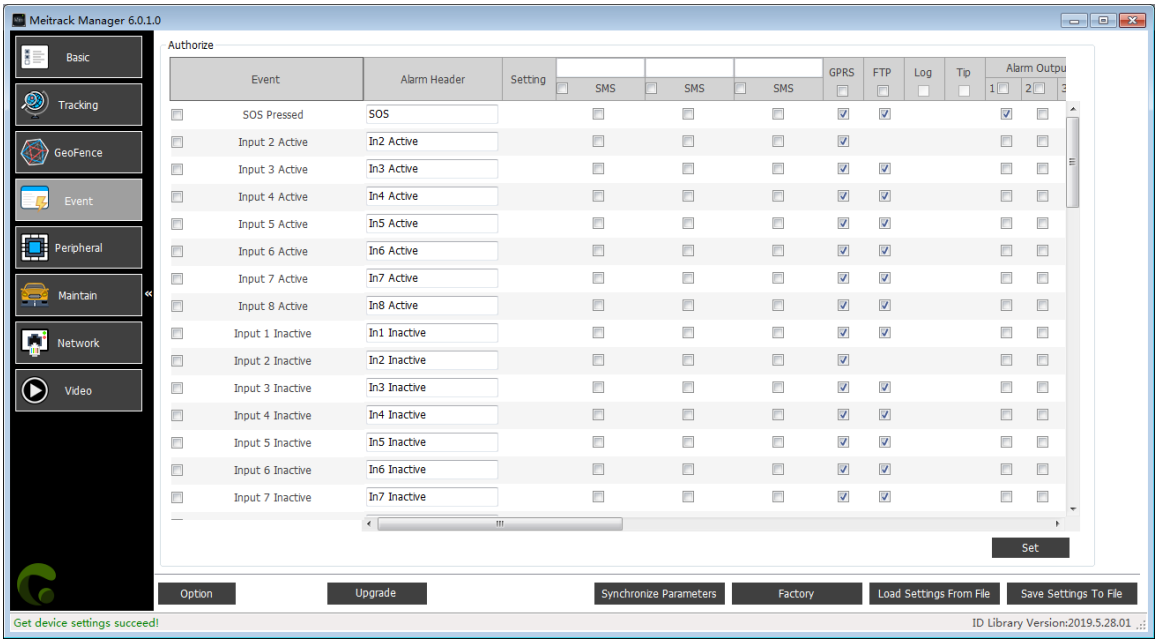
Drag the horizontal scroll bar right.



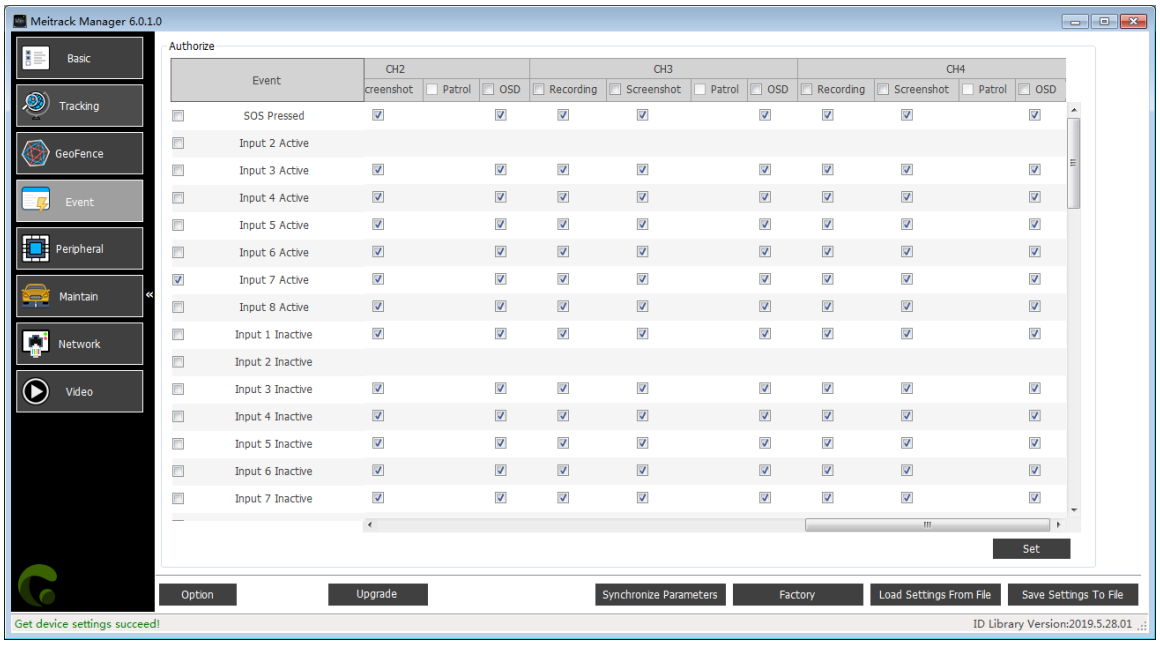
Parameter	Description
IO Config	Set the output port mode. When **Output** is selected from the **Type** drop-down list, you can set **Trigger Mode** to **Low level** or **High level**. The trigger time indicates the consecutive output time after the output port is activated.
RFID ignition (Output 1)	After the option is selected and an RFID card is swiped, output 1 can be controlled to start the engine. (For more information about the function, please see the *Meitrack RFID user guide*.)
Speedometer	The driving speed can be calculated by using the GPS or speed sensor. The **Speedometer** parameter is set to **GPS** by default.
Vehicle Transfer Coefficient	When the driving speed is calculated by using the speed sensor, the device will automatically calibrate the vehicle speed coefficient. You can also manually set the coefficient.
Peripheral	By default, the device can connect to peripherals supporting RS232 ports. If you want to use peripherals supporting RS485 ports, we can provide the custom-made service for you. Peripherals supporting RS232 ports include the Driver Fagitue Monitor, Ult fuel sensor, LED display, and RFID reader. Driver Fagitue Monitor baud rate: 115200 Ult fuel sensor baud rate: 115200 LED display baud rate: 115200 RFID reader baud rate: 9600(can be changed)

Fuel Sensor	The device can connect to the C-type fuel level sensor, V-type fuel level sensor, R-type fuel level sensor, and ultrasonic fuel level sensor. You can set high and low fuel alert percentage. When the fuel percentage is greater than or lower than the preset value, a high fuel alert or a low fuel alert will be sent respectively. When the fuel level increases or reduces by over 2% within three minutes (default time), a fuel filling alert or fuel theft alert will be sent respectively. You can set the percentage as required.
Fagitue Driver Funtion Setting	Alarm Enable: If you do not set Alarm Enable, no alerts and GPRS events will be generated and no photos will be taken. Also, there will be no voice warnings. Alarm Volume Level: There are four alert volume levels: mute, medium volume, high volume, and switch.

6.6 Event Settings



Drag the horizontal scroll bar right.



Parameter	Description	Remarks
Event	The selected event reports will be sent to the server through GPRS. For details, see the *MEITRACK GPRS Protocol* and *MEITRACK SMS Protocol*. For details about event descriptions, see the following table.	If you tick a check box on the left side of an event, all vertical options of the event will be selected.
Alarm Header	Indicates the header information of an SMS alert and has a maximum of 15 characters.	After the alert header information is modified, it will be shown in an SMS message with an alert event.
Setting	Set the threshold of an event. For example, set the speeding event value to 50 km/h. When the driving speed exceeds the preset value, a speeding alert will be sent.	When you hover your mouse over the "..." button, a floating parameter settings window pops up.
SMS	Tick the check box of a corresponding event. After this option is selected, if the event is generated, the device will send an event report through SMS to an authorized phone number. (On the box above **SMS**, set a phone number.)	
GPRS	Tick the check box of a corresponding event. After this option is selected, if the event is generated, the device will send a GPRS event report to the server. Note: If you tick the first check box under **GPRS**, all events with the GPRS function will be selected.	
FTP	Tick the check box of a corresponding event.After the FTP	

		server is configured, when the alarm linkage recording and snapshot are triggered, video and pictures will be automatically uploaded to the FTP server	
Log		Reserved	
Tip		Reserved	
Alarm Output	1	You can set output ports 1–3. When some alert events are generated, output ports can be used to trigger the high level, low level, or PWM wave. Triggering mode: high level, low level, and PWM Unit of output time: 10 ms Duty cycle range: 0%–100% Unit of PWM period: μs	For more information about how to configure the output port mode, see the section 6.5 "Peripheral Settings."
	2		
	3		
Record Delay (secs)		Indicates the recording time of audio or video recordings after an event is generated. The default time 300 seconds.	
CH1/2/3/4	Video	After an alert is generated, the device will record audio and a video in the current channel. The recording time depends on the recording delay time.	On the **Video** tab page, locate **DVR Basic Settings** > **Alarm Snapshot Number** to modify the number of photos.
	Shoot	After an alert is generated, the device will take photos. By default, 10 photos are taken.	
	Tour	Reserved	
	OSD	When the alarm is triggered, the alarm type will be shown on video screen	

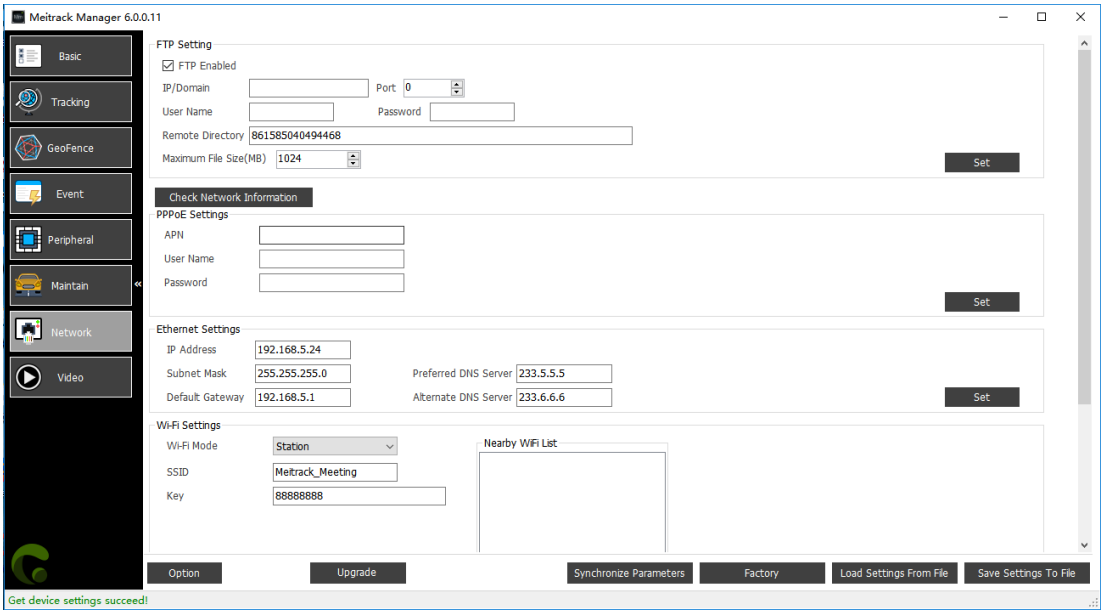
Event descriptions:

Event	Description
SOS Pressed	When input 1 is activated (or the SOS button is pressed), an alert will be sent.
Input 2/3/4/5/6/7/8 Active	When input *n* is activated, an alert will be sent. The value of *n* is **2**, **3**, **4**, **5**, **6**, **7**, or **8**.
Input 1 Inactive (SOS Released)	When input 1 is not activated (or the SOS button is released), an alert will be sent.
Input 2/3/4/5/6/7/8 Inactive	When input *n* is not activated, an alert will be sent. The value of *n* is **2**, **3**, **4**, **5**, **6**, **7**, or **8**.
Low External Battery	When the voltage of the external power supply (vehicle battery) is lower than the preset value, an alert will be sent. You can change the low battery threshold in the **Setting** column.
Speeding	When the driving speed exceeds the preset value, an alert will be sent. You can change the speeding threshold in the **Setting** column.
Enter Geo-fence	When the device enters a preset geo-fence, an alert will be sent.
Exit Geo-fence	When the device exits a preset geo-fence, an alert will be sent.
External Battery On	When the vehicle battery is properly connected to the device, an alert will be sent.
External Battery Cut	When the vehicle battery power is cut off, an alert will be sent.
GPS Signal Lost	When the device enters a GPS blind spot or no valid GPS signal is received, an

	alert will be sent.
GPS Signal Recovery	When the device exits a GPS blind spot or a valid GPS signal is received, an alert will be sent.
Enter Sleep	When the device enters the sleep mode, an alert will be sent.
Exit Sleep	When the device is woken up from the power-saving mode, an alert will be sent. You can modify the sleep mode in the **Setting** column.
GPS Antenna Cut	The external GPS antenna is not connected or is cut off.
Device Reboot	After the device is turned on, an event report will be sent.
Heartbeat	Enable the heartbeat report function. You can change the heartbeat packet interval in the **Setting** column.
Cornering	Enable the cornering report function. When the driving angle exceeds the preset value, a cornering report will be sent. You can change the cornering angle threshold in the **Setting** column.
Track by Distance	Track by distance. You can change the distance threshold in the **Setting** column.
Reply Current (Passive)	When the device receives a call or an SMS from an authorized phone number, the current location will be replied.
Track By Time Interval	Track by time interval. You can change the time interval on the **Tracking** tab page.
Tow	When the device enters the deep sleep mode, if the vibration time exceeds the preset value, a towing alert will be sent. You can change the consecutive vibration time for a towing alert in the **Setting** column.
RFID	Connect the device to the RFID reader to obtain the RFID card number.
Stop Moving	After this function is enabled, if the device stops moving, an event report will be sent.
Start Moving	After this function is enabled, if the device starts moving, an event report will be sent.
Temperature High	When the temperature of the temperature sensor is higher than the preset upper limit, an alert will be sent.
Temperature Low	When the temperature of the temperature sensor is lower than the preset lower limit, an alert will be sent.
Full Fuel	When the fuel level of the fuel level sensor exceeds the preset upper limit, an alert will be sent.
Low Fuel	When the fuel level of the fuel level sensor is less than the preset lower limit, an alert will be sent.
Fuel Theft	When the fuel level reduces by over 2% within three minutes (default time), an alert will be sent.
Fuel Filling	When the fuel level increases by over 2% within three minutes (default time), an alert will be sent.
Ult-Sensor Drop	While the fuel level sensor works properly, if its probe is disconnected from the fuel tank, an alert will be sent.

Output 1/2/3 Active	When output *n* is activated, an alert will be sent. The value of *n* is **1**, **2**, or **3**.
Output 1/2/3 Inactive	When output *n* is not activated, an alert will be sent. The value of *n* is **1**, **2**, or **3**.
Harsh Braking	Harsh braking alerts help analyze drivers' driving habits. The alert value is a negative number. After this function is enabled, if the driving speed reaches the preset value, an alert will be sent.
Harsh Acceleration	Harsh acceleration alerts help analyze drivers' driving habits. The alert value is a positive number. After this function is enabled, if the driving speed reaches the preset value, an alert will be sent.
CH1/2/3/4 Video Loss	While the camera works properly, if the camera is disconnected from the device, a video lost alert will be sent.
Storage Error	When a HDD or SD card is not inserted into the device or a read or write error occurs, an alert will be sent.
Full Storage	When the usage space of the memory reaches the storage threshold (percentage), an alert will be sent.
Driving Behavior	Fatigue driving alarm event
CH1/2/3/4 Video Recovery	The camera is reconnected to the device and working properly

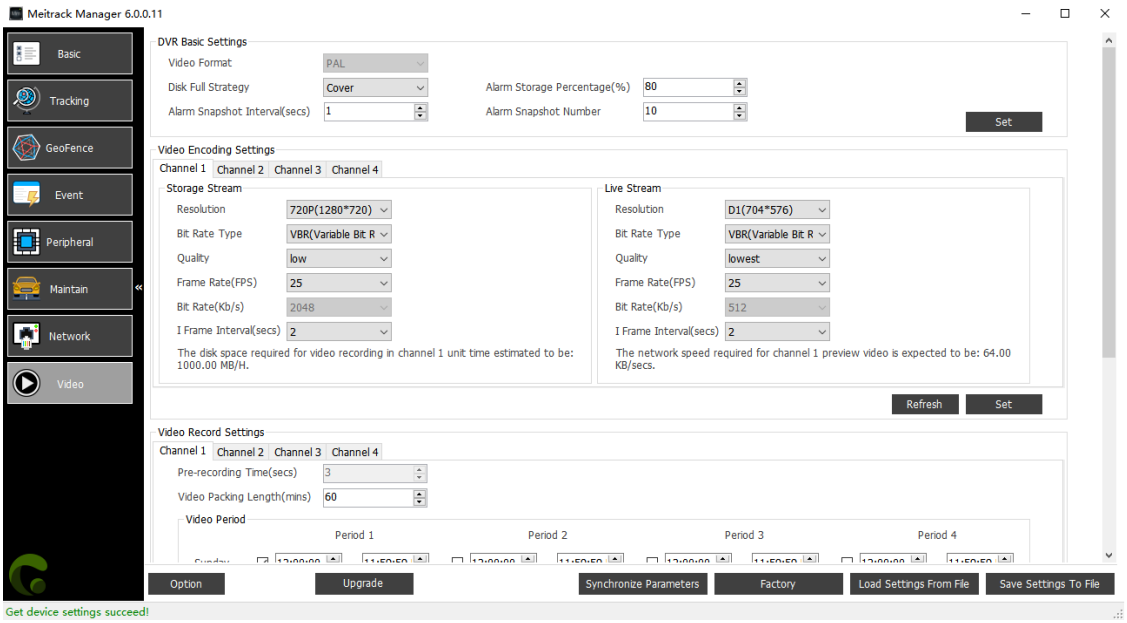
6.7 Network Settings



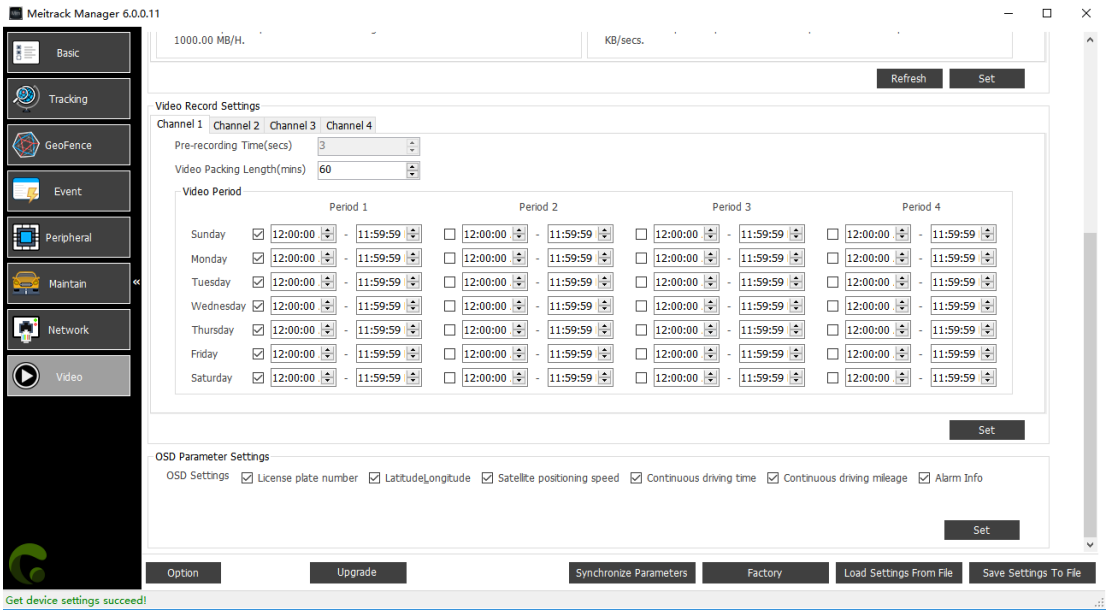
Parameter		Description	Remarks
FTP Setting	FTP Enabled	Enable or disable the FTP function of uploading alert videos and snapshots.	
	IP/Domain and Port	Indicates the FTP server host name (IP address/domain name) and port.	
	Username and Password	Indicates the FTP server username and password.	
	Remote Directory	Indicates the file storage directory of the FTP server.	

		By default, the device's IMEI number is used as the file storage directory name of the FTP server.	
	Maximum File Size (MB)	Indicates the maximum size of files to be uploaded to the FTP server. The default value is 1024 MB.	Users can set the parameter based on their network and system resources.
PPPoE Settings	APN, Username, and Password	Set mobile network connections. Enter the Access Point Name (APN) and login account. If no user name and password are required, leave them blank.	
Ethernet Settings	IP address, Subnet Mask, and Default Gateway	Enter the static IP address, subnet mask and default gateway of a local area network (LAN). The network status can be queried by Meitrack Manager, sending a command, or running the ipconfig command on the computer with a Windows system installed.	If you want to view the network status by Meitrack Manager, click **Check Network Information** on the **Network** tab page.
	Preferred DNS Server and Alternate DNS Server	Indicates the address of a DNS server. The default server is an Alibaba Cloud DNS server (address: 233.5.5.5 or 233.6.6.6).	
Wi-Fi Settings	Wi-Fi Mode	The Station mode is supported. The MDVR uploads data by a valid WiFi hotspot. If the parameter is not set, it means that the wireless WiFi function of the MDVR is disabled.	
	SSID	Indicates the name of a wireless network. You can select a wireless network from **Nearby WiFi List** or manually enter the name.	
	Key	Enter the password of a WiFi hotspot.	
Route Mode		Select a MDVR network connection mode. If **Auto** is selected, the MDVR will first detect the Ethernet network, then the WiFi network, and finally the GSM network.	

6.8 Video Settings



Drag the vertical scroll bar down.



Parameter		Description	Remarks
DVR Basic Settings	Video Format	The video format is the Phase Alternating Line (PAL). This option cannot be edited.	
	Disk Full Strategy	Indicates the measure taken after the disk is full. You can stop recordings or replace old videos with new ones. By default, **Cover** is selected.	
	Alarm Snapshot Interval (secs)	Set the interval of taking photos for an alert.	
	Alarm Storage	When the usage space of all disks reaches the	

	Percentage (%)	preset percentage value, a full disk alert will be sent. In this way, users can replace the disks with new ones or organize files on the disks to prevent video losses.	
	Alarm Snapshot Number	Indicates the number of camera photos for an alert. By default, 10 photos are taken.	
Video Encoding Settings (Storage Stream and Live Stream)	Resolution	Set the resolution of videos (storage stream or live stream). Default storage stream resolution: 720P; default live stream resolution: D1.	
	Bit Rate Type	Set the bitrate type. The default type is the variable bitrate (VBR). When a video image is still, the device can reduce the bitrate, which helps save data usage. For the constant bitrate (CBR), data consumption is relatively constant and is not affected by images.	
	Quality	Set the video image quality. There are six image quality levels. The image quality of storage streams is average by default. The better the image quality is, the larger the video size is.	
	Frame Rate (FPS)	Frame rate is the frequency (rate) at which consecutive images called frames appear on a display. The larger the number of frames is, the smoother videos are.	
	Bit Rate (Kb/s)	The parameter value is automatically set by default based on image quality. (If users want to change the value, set the bitrate type to the CBR.)	
	I Frame Interval (secs)	Indicates the interval of keyframes of moving images. The smaller the interval is, the more lifelike the moving images are. Common users do not need to change the default parameter value.	
Video Record Settings (Channel *n*)	Pre-recording Time (secs)	Indicates the start recording time before an alert is generated.	With pre-recording time, users can view videos recorded before an alert is generated.
	Video Packing Length (mins)	Package audio and video files based on the preset time, except for alarm videos	
	Video Period	Set the recording time. By default, after all cameras are turned on, they will start recording.	
OSD Parameter Settings		All vehicle information is selected by default, but users can select the information to be shown on the video screen as required.	

If you have any questions, do not hesitate to email us at info@meitrack.com.