

TR-151 Vehicle/ Asset Tracker

User's Manual

V0.8



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1. Warning



USE RESPONSIBLY. READ ALL INSTRUCTIONS AND SAFETY INFORMATION BEFORE USE TO AVOID INJURY.

Globalsat Technology Corporation / USGlobalsat, Inc. will not accept any responsibility whatsoever for accidents resulting from failure to observe common sense precautions. Your personal judgment, traffic regulations, and common sense must always take precedence over any directions produced by GPS receiver or the mapping software.

WARNING: Be certain GPS receiver is secure and does not interfere with driving visibility and safety.

It is your responsibility as the vehicle operator to securely place the GPS unit and antenna so that they will not interfere with driving and prevent operations of any safety device, i.e. vehicle's airbag. Do not mount the devices in a place where the driver or passengers may receive injury during vehicle operation or collision. For your safety, take care to route all cables away from shifters, pedals, accessory controls and mechanisms.

WARNING: Drive safely and use common sense.

It is your responsibility as the vehicle operator to drive safely, observe all traffic rules and above all use your own personal judgment while driving. If you feel that a route suggested by the navigation software instructs you to perform an unsafe or illegal maneuver, places you in an unsafe situation, or routes you into an area which you consider unsafe, do not follow the instructions.

WARNING: Keep your eyes on the road.

It is your responsibility as the vehicle operator to keep your eyes on the road and be an alert driver at all times, especially when the vehicle is moving. The vehicle's operator should not be distracted by the navigation equipment or software. Should there be a distraction with the ability to drive responsibly, please turn off the device. Should you want to look at the display for a prolonged time, park the car safely, while following all traffic regulations before looking at the display.

WARNING: TO REDUCE FIRE OR SHOCK HAZARDD RISK, DO NOT EXPOSE PRODUCT TO RAIN OR MOISTURE. DO NOT REMOVE ENCLOSURE, THERE IS NO USER INTERNAL SERVICEABLE PARTS. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

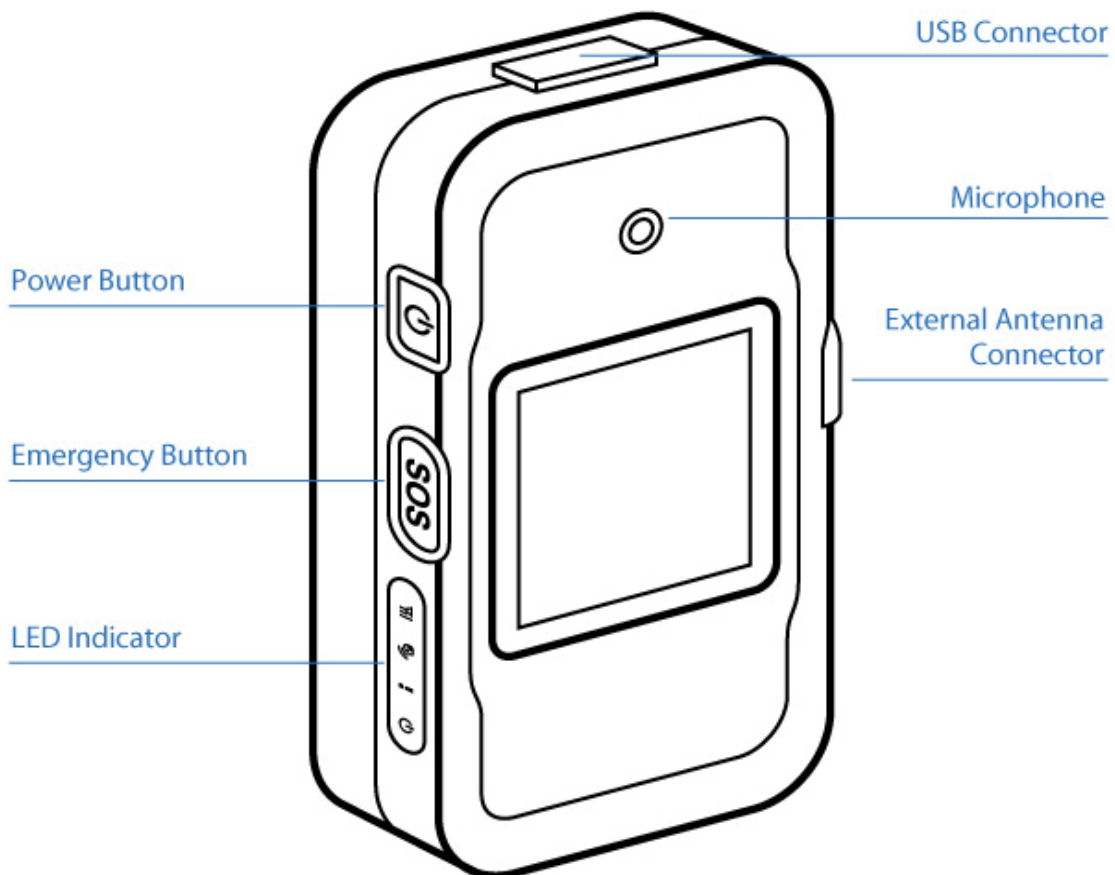
2. Welcome

Thank you for purchasing the GlobalSat TR151 Vehicle/ Asset Tracker. The GlobalSat TR151 Vehicle/ Asset Tracker is a compact and portable tracking device, allowing flexibility to equip the unit to any vehicle with ease. In addition to its tracking abilities, the unit incorporates a wide array of custom configurations for users with unique needs. In result, the TR-151 tracker's versatility can be used for many tracking applications.

3. Introduction and Features

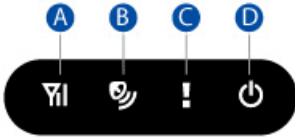
3.1 Introduction

TR-151 is a durable and water resistant GPS/GSM/GPRS tracker. In which, it can be install TR-151 on vehicles or assets for tracking with a free web service to track vehicles or assets remotely. Allowing the tracker to communicate via SMS, with location (longitude and latitude) information to user's cell phone. All performed from a GSM network or to personal computer via an internet network. The TR-151 is equipped with a high capacity Li-Ion battery designed for extensive operation times. The TR-151 includes an SOS button for emergency assistance. The TR-151 is very simple to install and hide in a vehicle to perform tracking. In ideal applications, TR-151 is for vehicle tracking and equipment/assets monitoring.



3. Introduction and Features (Continued)

3.2 LED Indicators



GSM LED

LED	Blink Quickly (Once per second)	Blink Slowly (Once every 3 seconds)	Off
State	No SIM card inserted TR-151 is searching GSM network	SIM card is registered to GSM network. TR-151 is sending data to GSM network	TR-151 is in standby mode

GPS LED

LED	Keeps On	Blink Slowly (Once every 3 seconds)	Off
State	TR-151 has not received a GPS fix TR-151 is attempting to attain a GPS fix	TR-151 has attained a GPS fix	TR-151 is in standby mode

Status LED

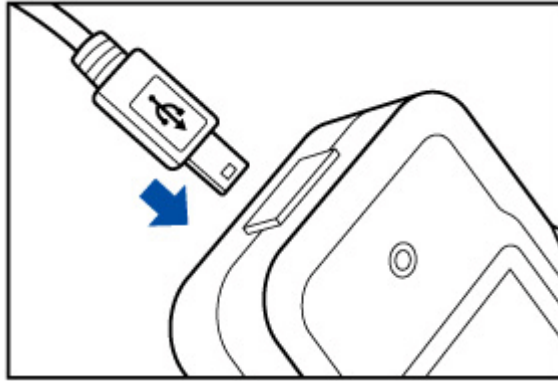
LED	Keeps On	Off	Blink			
			1 time	2 times	3 times	5 times
State	Battery Low	TR-151 is in standby mode	TR-151 is being turned "ON".	TR-151 is being turned "OFF".	SOS button is pressed	Error occurs

Power LED

LED	Orange	Off
State	TR-151 connected to charger or USB to Mini-USB cable.	LED shuts down after battery charge completion.

4. Device Operation

4.1 Device charging



First time users, rechargeable battery requires a complete charge before using TR-151 device. Therefore, to maximize your device's battery life proceed by performing the steps listed below.

Using the AC Adapter charge method:

1. Connect TR-151 to its supplied AC power adapter cable.
2. Allow a 4 hour battery charge time. (TR-151 in power-off condition)

Using the USB cable charge method:

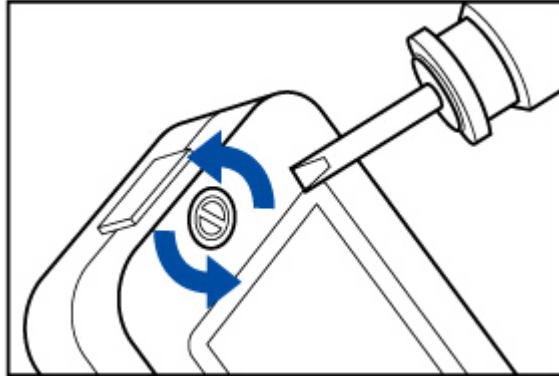
1. Connect TR-151 to its supplied USB to Mini-USB cable to PC or Notebook. (Computer requires to be "ON")
2. Allow a 4 hour battery charge time. (TR-151 in power-off condition)

Note: The attached battery is specially designed for TR-151 devices. Please do not use other battery types; otherwise, it may cause permanent device damage. In effect, voiding your warranty. Please, contact your local dealer for battery replacements.

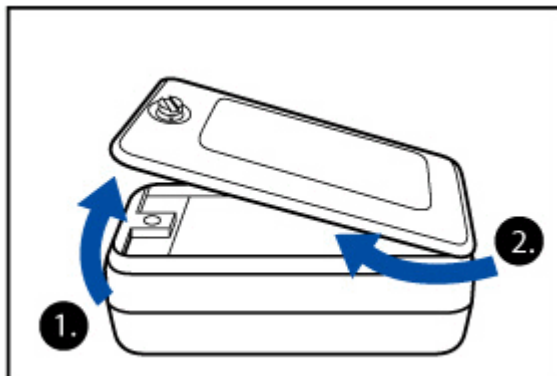
4. Device Operation (Continued)

4.2 SIM card and Battery Installation

- Unscrew TR-151 by screwdriver.

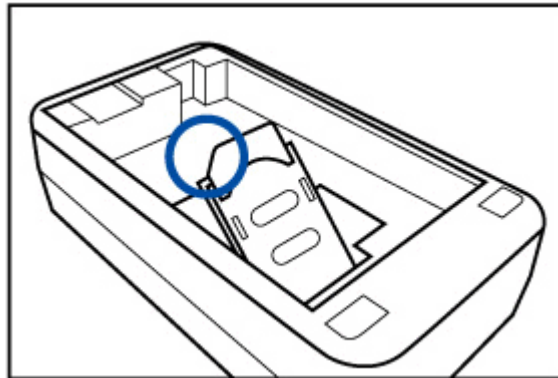


- Lift and remove the back cover.

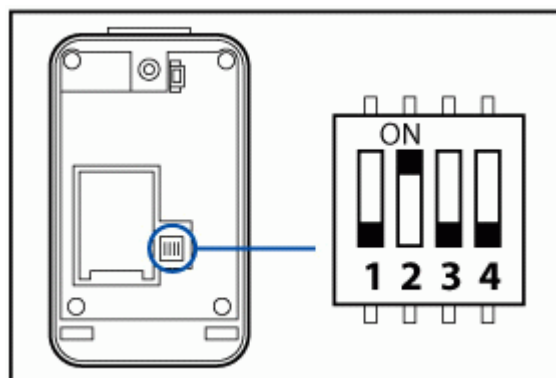


4. Device Operation (Continued)

- Push forward the SIM card slot cover to the position marked with “OPEN”. Then, lift cover up.
- Insert SIM card with its metal contacts facing down with the cut corner at position on the top left.

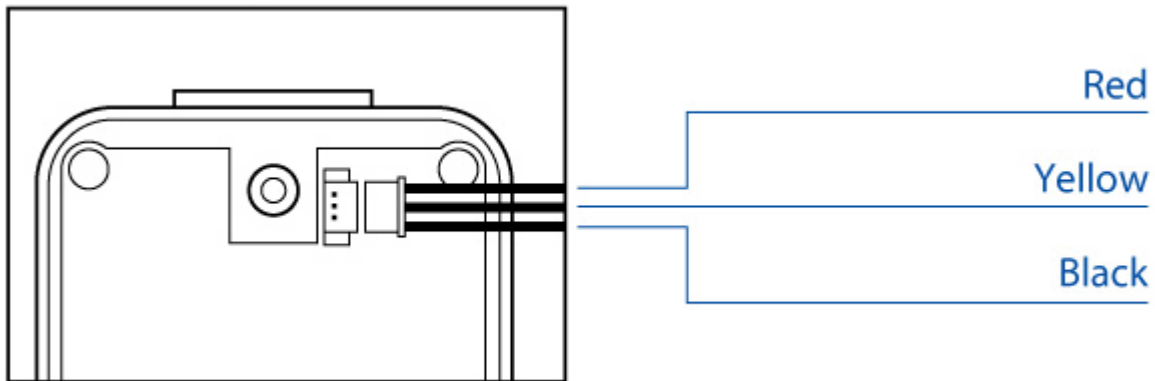


- Be certain DIP switch “3” is in “OFF” position with the sharp point object i.e., pen point.

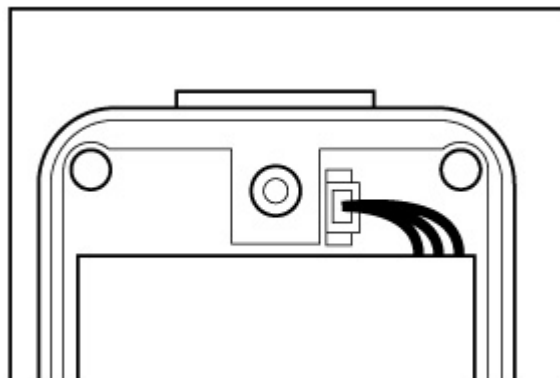


4. Device Operation (Continued)

- Connect the battery connector into the 3 pin white socket. As illustrated below, red wire orientation must be positioned next to the outer enclosure rim.



- Place battery wires under the battery, then, gently position the physical battery into the compartment.



Note: After installing the battery, the status LED will emit red light. After the LED goes out, please wait for 5 seconds before turning on the power.

Note: Please take out the battery if you do not use TR-151 for a long time.

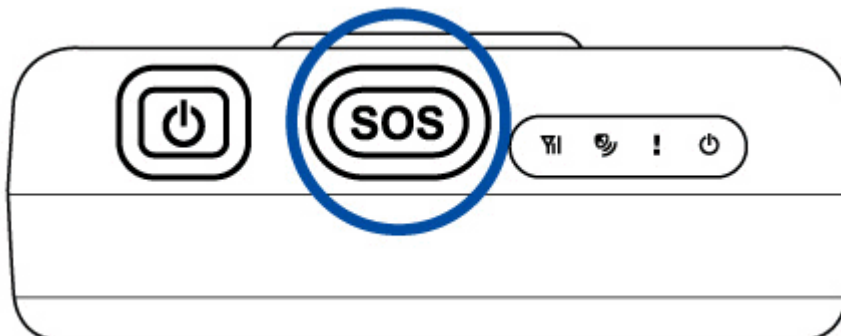
4. Device Operation (Continued)

4.3 Power



To turn the device “ON”, press and hold the power button until you see status LED ! blink 2 twice.
To turn the device “OFF”, press and hold the power button until you see status LED ! blink 1 once.

4.4 Emergency button



Press and hold the emergency button until you see status LED ! blink 3 times. TR-151 will attempt to receive a GPS fix, then, communicate the emergency SMS to the preset phone number.

5. Free Web Service

5.1 Preparation for Use Website

- Be certain your SIM card has credit and verify with telecom operator for GPRS activation. Or, you may verify GPRS connectivity by inserting SIM card to the mobile phone. Next, test by utilizing your web browser.
- Contact your telecom operator concerning GPRS setting parameters.
- Contact your telecom operator to **disable** *voicemail, call waiting, and call forwarding* functions to the SIM card.
- Disable the SIM PIN entry of the SIM card via mobile phone.
- Tracker IMEI and serial number information can be found in the TR-151 battery compartment.
- Turn your TR-151 “ON” to allow and commence receiving SMS configuration communications.

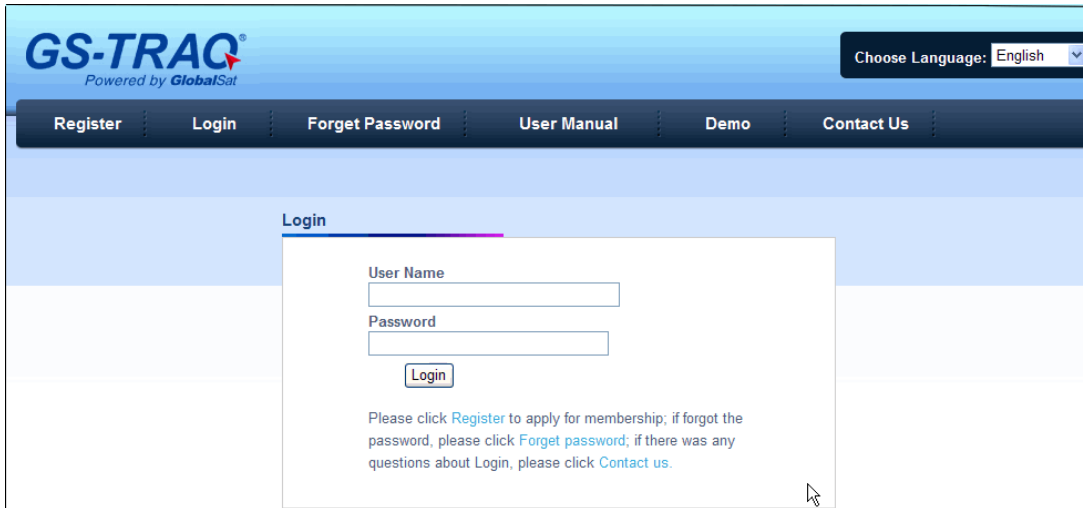
Note: *Your telecom operator will charge GPRS transmission fee when you use the function of Ping, Periodic report of TR-151. For details of charging method, please contact with your telecom operator.*

5. Free Web Service (Continued)

5.2 Account creation

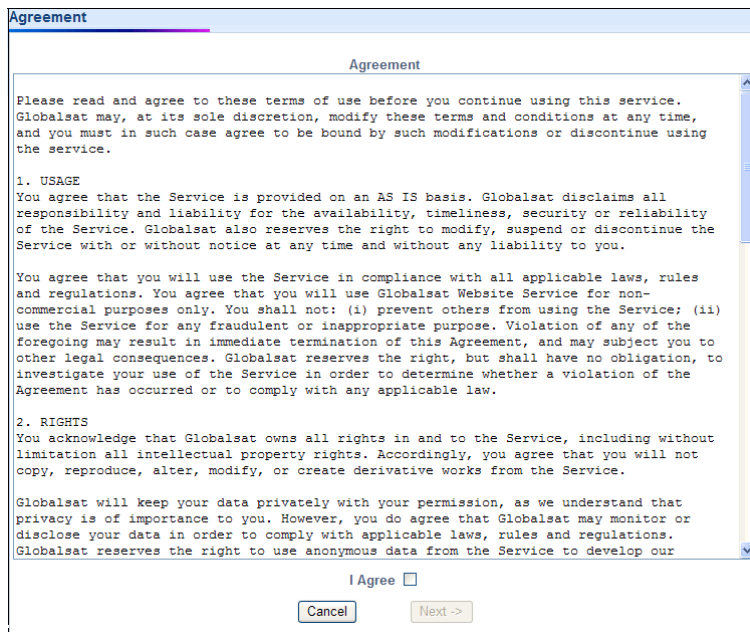
Please turn on your web browser and go to <http://traq.gstraq.com/>

Next, click the **Register** hyperlink.



The screenshot shows the GS-TRAQ website interface. At the top left is the logo "GS-TRAQ Powered by GlobalSat". At the top right is a language selection dropdown menu set to "English". Below the logo is a navigation bar with links: Register, Login, Forget Password, User Manual, Demo, and Contact Us. The main content area is titled "Login" and contains a form with two input fields: "User Name" and "Password". Below the fields is a "Login" button. Underneath the button, there is a paragraph of text: "Please click Register to apply for membership; if forgot the password, please click Forget password; if there was any questions about Login, please click Contact us."

Read the Agreement, check **I Agree**, and click **Next** button.



The screenshot shows the "Agreement" page. The title "Agreement" is centered at the top. Below the title is a paragraph of text: "Please read and agree to these terms of use before you continue using this service. Globalsat may, at its sole discretion, modify these terms and conditions at any time, and you must in such case agree to be bound by such modifications or discontinue using the service." This is followed by two sections: "1. USAGE" and "2. RIGHTS". The "1. USAGE" section contains text about the service being provided on an AS IS basis and the user's responsibility to use it in compliance with laws. The "2. RIGHTS" section contains text about Globalsat's ownership of the service and the user's agreement not to copy or create derivative works. At the bottom of the page, there is a checkbox labeled "I Agree" which is currently unchecked. Below the checkbox are two buttons: "Cancel" and "Next ->".

5. Free Web Service (Continued)

Check the preparation again and click **Next** button.

Step1.

Please follow the steps below to prepare to configuring your tracker.

1. Disable the SIM PIN entry of the SIM card. You could insert SIM card in the mobile phone and follow the instructions of the phone manual to disable the SIM PIN entry .
2. Make sure your SIM card has credit and verify if the telecom operator has activated GPRS. By inserting SIM card into the mobile phone and test it by the web browser.
3. Please contact your telecom operator for turning off the voicemail, call waiting and call forwarding function of the SIM card.
4. Find out the TR-203 **device IMEI and Serial number** , which is on the back of the device case Find out TR-151 **device IMEI and Serial number** in the compartment of battery
- 5 Please turn on the device for receiving the configuration SMS. Before turning on the device, please check if the device is fully charged.

Select **TR-151** for **Device Type**, your **Time Zone**, **Device IMEI** and **Serial No.**, your **Country code**, enter your **Device Phone Number**, **Device Name**, and click **Next** button.

Step2.

Enter the required device information.

Device Type:
 TR-151 TR-203

Time Zone:
Asia/Taipei(GMT+8)

Device IMEI:

Device Serial No:

Country Code:
African(+236) (Please select your country code.)

Device Phone Number:
 (Please enter local number. Example:09716532xxx)

Device Name:
 (Please enter device name. Example: Tracker ...)

Step3.

Enter the login user information.

User Name:

Password:

Confirm Password:

E- Mail:

Create your login profile by entering **User Name**, **Password**, and **Email**, and click **Next** button.

Please print this page or write down your **User Name**, **Password** and click “**Click to start Setup**” button.

Step3.

The user account is created successfully!

Please print this page or write down your user name and password

User Name:joshua
Password: savior
E- Mail: heaven@gmail.com

5. Free Web Service (Continued)

Please select your country and telecom operator. Selecting your telecom operator will display the corresponding GPRS parameters. In the case, you cannot locate your telecom operator from the pull-down menu or the information is incorrect in the pull-down menu. Please click **"User Define"**, then, contact your telecom operator for GPRS parameter information. Lastly, click **Auto Send SMS** button.

Step4. Enter the GPRS setting parameter.

Please contact your telecom operator about the GPRS parameter and fill in it.

Attention:

1. Because system service providers change without notice, there may be errors in pull-down menu and thus errors can cause incorrect setting. We suggest you to contact your system service provider about GPRS parameters before set-up. Otherwise, incorrect parameters will make TR device can not connect to GPRS to send back data. If your system service provider is not in pull-down menu, or the info in pull-down menu is incorrect, please press "User Define" in right hand side to set up GPRS paramet manually.
2. Some system service providers sell pre-paid/value pre-loaded SIM cards, and their parameter settings may be different with monthly-plan SIM card. As a result, please contact your system service providers before set-up.
3. You can put the SIM card into your cellular phone; open web browser to connect internet, in order to ensure GPRS parameters are correct and the function of GPRS is on.

Please choose the country ==> choose operator.

Country :	=== Choose Country ===	▼
Your telecom operator:	= Choose telecom operator =	▼
GPRS APN:	<input type="text"/>	
GPRS User Name :	<input type="text"/>	
GPRS Password :	<input type="text"/>	

Website provides 3 pieces of free SMS for setting the GPRS parameters of TR Device.

After receiving the setup SMS, TR device will use the setup GPRS setting and connect to the web side.

If you fail to set up at the first time and would like to re-set up, please login Web Server; click "setup" tab, and then go to "Send setup SMS" to do it again.

You could send the free SMS by clicking button.

Auto Send SMS:

Website provides 3 pieces of free SMS for setting the GPRS parameters of TR device. You could send the free SMS by clicking Send button. After receiving the setup SMS, TR device will have the required GPRS settings to connect to the web side.

Device phone number: + 82933112233

You still have 3 SMS Message(s) to try:

The Setup SMS content is follow:

GSC,9999999999999999,LA,N1(D1=mobile.o2.co.uk,D2=web,D3=password,E1=80,E0=gw.gtraq.com,OM=1,D8=10,H1=0,H0=10,OD=10,A1=1,A2=5),N2*3e!

NOTE:SMS might not be instantly reached to the trackers. It takes about from 20 seconds to several minute for trackers to receive SMS from system. Sometimes it takes more than the estimated time. If your device has received the setup SMS from the system, it will **vibrate indicating** that it has accepted the command. We suggest you to hold the device, so that you could feel the vibration when it receives the command.If tracker does not received Setup SMS after 5 minutes, you can resend again.If you fail to set up at the first time and would like to re-set up, please login Web Server; click (setup) tab, and then go to(Send setup SMS) to do it again.

Please click **Send** button.

5. Free Web Service (Continued)

For verification purposes, verify your account is created correctly by performing the following steps:

1. Login to the service.
2. Click **History** to view TR-151 communicates a ping report to website.

In the case you cannot view ping report on website, make a phone call to the TR-151 and wait approximately 30 seconds to see if it transmits a ping report.

In a worse case scenario, in which, you cannot view any ping report responses on website, check your SIM card's GPRS parameters from **Setup → Send Setup SMS → Edit GPRS parameter**

3. After entering the correct GPRS parameters, please click **OK** button.
4. Please go to **Setup → Send Setup SMS → Auto Mode**
5. Please click **Send** button.

5.3 Add device in your account

Perform the following: **Setup** → **Add New Device**

Then please refer to **5.2 Create Account** to enter the concerning information of the device

After adding the required information and sending out the SMS, you could switch to use separate device by selecting in the **Device** pull-down menu on the upper right corner of the webpage.

Note:

You could add up to 100 trackers in the account.

The screenshot displays two side-by-side panels. The left panel, titled 'Setting menu', contains a list of options: 'Setup Menu', 'User Information', 'Setup Menu', 'Device Information', 'Add New Device' (circled in red), 'Delete Device', 'Send Setup SMS', 'Auto Mode', 'Manual Mode', 'Edit GPRS Parameter', 'Setup SOS Menu', 'Setup SOS Number', and 'Setup SOS Other Parameter'. The right panel, titled 'Setup menu', shows user information (Login Name: david, Login Password: loveJ, User Email: david.shen@globalsat.com.tw) and device information (Device Name: yvonne, Device Type: TR151, Device IMEI: 3520230065958902, Country Code: +886, Device Phone Number: 0939001902, Time Zone: Asia/Taipei, Last Command: Stop Report!, Command Status: Wait for connect., Command Interval: 60).

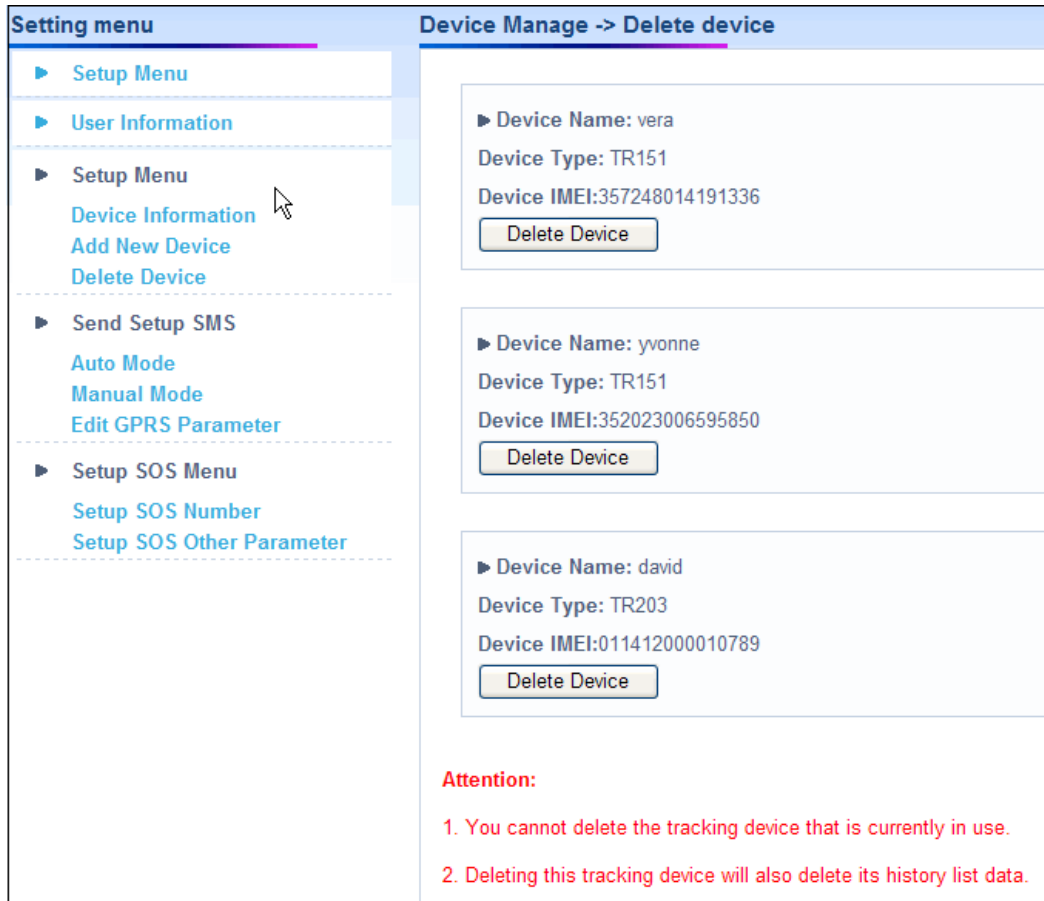
The header bar for GS-TRAC (Powered by GlobalSat) includes a user profile section with 'User: david', a 'Logout' button, and a 'Device:' dropdown menu currently set to 'jennifer' (circled in red). To the right is a 'Choose Language:' dropdown set to 'English'. Below the header is a navigation bar with buttons for 'Show Last Point', 'Show Last 25 Points', 'History', 'Setup Report mode', 'Setup', 'Refresh', and 'User Manual'.

5.4 Delete device from your account

Perform the following: **Setup** → **Delete Device**

Please select the device you would like to delete.

And then please click **Delete Device** button.



Setting menu

- ▶ Setup Menu
- ▶ User Information
- ▶ Setup Menu
 - Device Information
 - Add New Device
 - Delete Device
- ▶ Send Setup SMS
 - Auto Mode
 - Manual Mode
 - Edit GPRS Parameter
- ▶ Setup SOS Menu
 - Setup SOS Number
 - Setup SOS Other Parameter

Device Manage -> Delete device

▶ Device Name: vera
Device Type: TR151
Device IMEI:357248014191336

▶ Device Name: yvonne
Device Type: TR151
Device IMEI:352023006595850

▶ Device Name: david
Device Type: TR203
Device IMEI:011412000010789

Attention:

1. You cannot delete the tracking device that is currently in use.
2. Deleting this tracking device will also delete its history list data.

5.5 Set up SOS parameters

SOS Phone Number

1. Perform the following: **Setup** → **Setup SOS Number**
2. Enter destination phone number to receive emergency SMS.
3. Please click **Send** button.
4. Next, go to **Setup SOS Other Parameter**

The screenshot shows a web interface with a left sidebar menu and a main content area. The sidebar menu includes 'Setup Menu', 'User Information', 'Setup Menu' (with sub-items: Device Information, Add New Device, Delete Device), 'Send Setup SMS' (with sub-items: Auto Mode, Manual Mode, Edit GPRS Parameter), and 'Setup SOS Menu' (with sub-items: Setup SOS Number, Setup SOS Other Parameter). The 'Setup SOS Number' item is circled in red. The main content area is titled 'Setup SOS parameter -> Setup SOS number' and contains a text block: 'After sending your command please use any phone and call your tracker. The tracker will not answer but hang up automatically. This will trigger it to communicate with the website. And last status will change from 'wait for connect' to 'Command Send..'. Below this is a form with a text input field labeled 'SOS Phone Number:', a 'Last Status: No Setup!' indicator, and a 'Send' button.

SOS Time Zone

1. Select SOS Time Zone and SOS Report Type
2. Click **Send** button.
3. Then please call TR-151. TR-151 will not answer the phone call but connect to this website.

The screenshot shows a web interface with a left sidebar menu and a main content area. The sidebar menu includes 'Setup Menu', 'User Information', 'Setup Menu' (with sub-items: Device Information, Add New Device, Delete Device), 'Send Setup SMS' (with sub-items: Auto Mode, Manual Mode, Edit GPRS Parameter), and 'Setup SOS Menu' (with sub-items: Setup SOS Number, Setup SOS Other Parameter). The 'Setup SOS Other Parameter' item is circled in red. The main content area is titled 'Setup SOS parameter -> Setup SOS other parameter' and contains a text block: 'After sending your command please use any phone and call your tracker. The tracker will not answer but hang up automatically. This will trigger it to communicate with the website. And last status will change from 'wait for connect' to 'Command Send..'. Below this are two dropdown menus: 'SOS Time Zone:' with the value '(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London' and 'SOS Report Type:' with the value 'SMS & GPRS'. Below these is a 'Last Status: No Setup!' indicator and a 'Send' button.

Note: .The content of SOS report includes GPS fix date and time. The GPS date and time will be according to the setting of SOS Time Zone.

5.6 TR-151 Ping

Log into your account

1. Select **Setup Report mode** on the menu bar.
2. Select **Ping Report** in the pull-down menu of **Report Command**
3. Click **Send** button.

Setup Report mode

Device Name: jennifer

Type Of Device: TR151

Device Phone Number:0988552902

Last Command:Stop Report

Last Status:Command Send!

Report Command

After sending your command there is one method of TR device taking command when TR device is on Ping mode.

1. Call TR device; but TR device does not pick up the call, it hangs up and will connect to the website; command is sent out at the same time.

Note: If the TR-151 is not in Periodic or Motion report mode, you may contact the device by calling it from your phone. The TR-151 will not answer the phone call, but, it will hang up the call automatically. Then, the TR-151 will connect to the website and report its physical location. To verify GPS fix and location reports are being registered, proceed to **History** on menu bar. At this point, you may select **Show Last Point** on menu bar to view TR-151 map location.

5.7 TR-151 Periodic Report

Periodic Reporting

1. Select **Setup Report Mode** on the menu bar.
2. Select **Periodic Report** in the pull-down menu of **Report Command**
3. Enter value for **Report Interval**. (Range 30~65535 seconds)
4. Click **Send** button.

Setup Report mode

Device Name: jennifer

Type Of Device: TR151

Device Phone Number:0988552902

Last Command:Stop Report

Last Status:Command Send!

Report Command

Report Interval Secs

The report interval must be set between 30-65535 sec.

After sending your command there are two methods of TR device taking command when TR device is on Period Report mode.

1. Wait till next period report; command is sent out while TR device connects to the website.
2. Call TR device; but TR device does not pick up the call, it hangs up and will connect to the website; command is sent out at the same time.

Note: If your TR-151 is not in Periodic or Motion report mode, you may contact the device by calling it from your phone. TR-151 will not answer the phone call but hang up it automatically. Then, TR-151 will communicate to the website and report its location according to the report interval.

5.8 TR-151 Motion Report

1. Select **Setup Report Mode** on the menu bar.
2. Select **Motion Report** in the pull-down menu of **Report Command**
3. Enter value for **Report Interval (Static)** (Range 30~1440 minutes) and **Report Interval (Moving)**. (Range 10~65535 seconds)
4. Click **Send** button.

Setup Report mode

Device Name: jennifer

Type Of Device: TR151

Device Phone Number:0988552902

Last Command:Stop Report

Last Status:**Command Send!**

Report Command

Report Interval(**Static**) Minutes
(The report interval must be set between 30-1440 Minutes.)

Report Interval(**Moving**) Secs
(The report interval must be set between 10-65535 sec.)

After sending your command there is one method of TR device taking command when TR device is on Motion Report mode.

1. Call TR device; but TR device does not pick up the call, it hangs up and will connect to the website; command is sent out at the same time.

Note: If your TR-151 is not in Periodic or Motion report mode, you may contact the device by calling it from your phone. TR-151 will not answer the phone call but hang up it automatically. Then, TR-151 will communicate to the website and report its location according to the report interval.

5.9 Stop TR-151 Periodic and Motion Report

Disable Periodic and Motion Reporting

1. Select **Setup Report Mode** on the menu bar.
2. Select **Stop Report** in the pull-down menu of **Report Command**
3. Click **Send** button. TR-151 will stop periodic report.

Setup Report mode

Device Name: jennifer

Type Of Device: TR151

Device Phone Number:0988552902

Last Command:Stop Report

Last Status:Command Send!

Report Command ▼

After sending your command there is one method of TR device taking command when TR device is on Stop mode.

1. Call TR device; but TR device does not pick up the call, it hangs up and will connect to the website; command is sent out at the same time.

5.10 Editing login profile and e-mail

1. Select **Setup** → **User Information**
2. Click **Edit**.

The screenshot shows a web interface with two main panels: 'Setting menu' on the left and 'Setup menu' on the right. The 'Setting menu' contains several expandable sections: 'Setup Menu', 'User Information', 'Setup Menu' (with sub-items: Device Information, Add New Device, Delete Device), 'Send Setup SMS' (with sub-items: Auto Mode, Manual Mode, Edit GPRS Parameter), and 'Setup SOS Menu' (with sub-items: Setup SOS Number, Setup SOS Other Parameter). The 'Setup menu' panel is currently expanded to show 'User Information' settings. The 'User Information' section includes: 'Login Name: david (Edit)', 'Login Password: loveJ (Edit)', and 'User Email: david.shen@globalsat.com.tw (Edit)'. Below this, there is a section for 'Device Information' with the following details: 'Device Name: yvonne (Edit)', 'Device Type: TR151', 'Device IMEI: 352023006595902', 'Country Code: +886 (Edit)', 'Device Phone Number: 0902101902 (Edit)', 'Time Zone: Asia/Taipei (Edit)', 'Last Command: Stop Report!', 'Command Status: Wait for connect..', and 'Command Interval: 60'.

Edit the content and click **OK** button.

The screenshot shows the 'Edit -> User information' form. It contains three input fields: 'Login Name: david', 'Login Password: loveJ', and 'User Email: david.shen@globalsat.com.tw'. At the bottom of the form, there are two buttons: 'Return' and 'OK'.

5. Free Web Service (Continued)

5.11 TR-151 SIM card replacement

When replacing telecom operator's SIM card from the original, be certain, to change phone number on the website.

Select **Setup** → **Device Information**

The screenshot displays a web interface for managing a TR-151 device. On the left, a 'Setting menu' sidebar lists various options, with 'Device Information' circled in red. The main area, titled 'Device Manage -> Device information', contains the following details:

- Device Type: TR151
- Device IMEI: 352023006595902
- Device Name: yvonne
- Country Code: Taiwan(+886)(台灣)
- Device Phone Number: 0939001902
- Time Zone: Asia/Taipei(GMT+8)
- Last Command: Stop Report!
- Command Status: Wait for connect..
- Command Interval: 60

At the bottom of the main area, there are two buttons: 'Return' and 'OK'.

Next, enter new phone number and click the **OK** button.

5. Free Web Service (Continued)

In the case, a different telecom operator's SIM card is desired to replace the original SIM card, then, perform the following steps to alter the phone number and GPRS parameters on the website.

Select **Setup** → **Device Information**

Next, enter new phone number and click the **OK** button.

Next, change the GPRS parameter by:

Selecting **Setup** → **Send Setup SMS** → **Edit GPRS parameter**

Send setup SMS -> Edit GPRS parameter

Please contact your telecom operator about the GPRS parameter and fill in it.

Attention:

1. Because system service providers change without notice, there may be errors in pull-down menu and thus errors can cause incorrect setting. We suggest you to contact your system service provider about GPRS parameters before set-up. Otherwise, incorrect parameters will make TR device can not connect to GPRS to send back data. If your system service provider is not in pull-down menu, or the info in pull-down menu is incorrect, please press "User Define" in right hand side to set up GPRS paramet manually.
2. Some system service providers sell pre-paid/value pre-loaded SIM cards, and their parameter settings may be different with monthly-plan SIM card. As a result, please contact your system service providers before set-up.
3. You can put the SIM card into your cellular phone; open web browser to connect internet, in order to ensure GPRS parameters are correct and the function of GPRS is on.

Please choose the country ==> choose operator.

Country : Taiwan(台灣)

Your telecom operator: Chungghwa(中華電信)

GPRS APN: internet

GPRS User Name :

GPRS Password :

User Define

<- Previous <-Ok->

Proceed by selecting your telecom operator from the drop-down menu. After selection, your telecom operator's GPRS parameters will be available. In the case, your telecom provider is not listed in the drop-down or information is incorrect, then, contact your telecom operator for GPRS parameter information for entry.



Click the **OK** button.

If you have not send SMS by Free Web Service over 3 times, proceed to **Setup → Send Setup SMS→ Auto Mode**. Click **Send** button

Send setup SMS -> Auto mode

Website provides 3 pieces of free SMS for setting the GPRS parameters of TR device. You could send the free SMS by clicking Send button.

You still have **2** Message(s) to try:

Device Type:TR-203
Country code: +886 (If the country code is wrong, please click [Edit](#))
device phone number: 0988552847 (If the device phone number is wrong, please click [Edit](#))
Device phone number(**International Format**) :  +889933112233 
(Your GPRS parameter following: If the GPRS parameter is wrong, please click [Edit](#))

APN: **internet**
User Name :
User Password :

The setup SMS content is the following:

GSC,011412000010203,LA,N1(D1=internet,D2=D3=E1=80,E0=gw.gstraq.com,OM=1,D8=10,H1=0,H0=10,OD=10,A1=1,A2=5),N2*22!

Free web service provides 3 pieces of free SMS for configuring TR-151. If you want to change the configuration after sending 3 pieces of free SMS, please go to **Setup → Send Setup SMS→ Manual Mode**.

Send setup SMS -> Manual mode

You could use skype or any cell-phone to send the following setup command to your tracker at any time. After receiving the setup SMS, TR Device will have the required GPRS settings to connect to the website.

The device phone number:0939001902

The setup SMS content is the following:

?7,352023006595902 A,80,internet,,gw.gstraq.com,A0,30!

Note: Copy the SMS webpage content and send it via SMS to the TR-151 phone number. This can be accomplished from your telecom operator's web SMS or Skype or your mobile phone.

5. Free Web Service (Continued)

5.12 History data information look up

Free Web Service could store up to 10000 reports from your TR-151. Otherwise, the 10001st report will replace 1st report and so on. That is to say, if TR-151 periodically reports its location to website every 1 minute, website can store the reports of 7 days. You could look up for the history data by selecting **History** on the menu bar.

You could enter specific period of date and time and click **Search** button to look for the data during that period.

You could delete the history data by clicking **Delete all data** button.

Start Date: 06/30/2014 14:08 Min End Date: 06/30/2014 19:11 Min Fix Data All Data **Search**

Time Zone : Asia/Taipei (GMT +8) [View Map Mode](#)

Date	Time	Mode	GPS Fix	Longitude	Latitude	Speed	Heading	Altitude
2010/06/30	19:11:27	Period	3D Fix	121.4878650	24.9965350	0.17 K/H	114	95.3 m
2010/06/30	19:10:49	Period	3D Fix	121.4877087	24.9965217	0.17 K/H	114	96.1 m
2010/06/30	19:10:11	Period	3D Fix	121.4877167	24.9965100	0.17 K/H	114	96.8 m
2010/06/30	19:09:33	Period	3D Fix	121.4877500	24.9965083	0.17 K/H	114	98 m
2010/06/30	19:08:55	Period	3D Fix	121.4877517	24.9965483	0.19 K/H	114	98.9 m
2010/06/30	19:08:17	Period	3D Fix	121.4877417	24.9965283	0.09 K/H	114	99.5 m
2010/06/30	19:07:38	Period	3D Fix	121.4877083	24.9965217	0.19 K/H	114	98.9 m
2010/06/30	19:07:02	Period	3D Fix	121.4876567	24.9965267	0.07 K/H	114	97.6 m
2010/06/30	19:06:23	Period	3D Fix	121.4876867	24.9965333	0.06 K/H	114	94.7 m
2010/06/30	19:05:47	Period	3D Fix	121.4876983	24.9965617	0.06 K/H	114	94.9 m
2010/06/30	19:05:09	Period	3D Fix	121.4877317	24.9965300	0.04 K/H	114	95.6 m
2010/06/30	19:04:29	Period	3D Fix	121.4877067	24.9965583	0.17 K/H	114	93.5 m

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[Download\(kml format\)](#) [Download\(CSV format\)](#) [Delete all data](#)

Note: The Heading field displays tracker moving direction.

You could also view the history data on the map by clicking **View Map Mode** button.

Note: If the value of GPS fix is **No Fix**, the point will not be displayed on the map. Only **2D** and **3D Fix** data will be displayed.

After clicking **View Map Mode** button, please click any piece of report to show it on the

map.

Time Zone : Asia/Taipei (GMT +8) View Text Mode

Date	Time
2009/04/01	16:32:36
2009/04/01	16:31:36
2009/04/01	16:30:35
2009/04/01	16:29:35
2009/04/01	16:28:35
2009/04/01	16:27:35
2009/04/01	16:26:35
2009/04/01	16:25:35
2009/04/01	16:24:36
2009/04/01	16:23:36
2009/04/01	16:22:36
2009/04/01	16:21:35
2009/04/01	16:20:36
2009/04/01	16:20:24
2009/04/01	16:19:25
2009/04/01	16:18:21
2009/04/01	16:17:24
2009/04/01	16:16:24
2009/04/01	16:15:24
2009/04/01	16:14:23

Address:
[No. 196, 建一路, Zhonghe City](#)
[Taipei County, Taiwan 235](#)

Get directions: [To here](#) - [From here](#)
Search nearby - [Zoom here](#)

Map Sat Ter

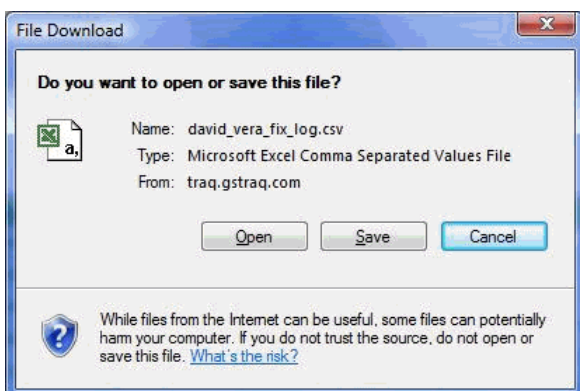
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You could also save the reports as CSV format for viewing by Microsoft Excel or save the reports as KML format for viewing by Google Earth.

Save as CSV format:

Please select you want to save all the history reports (All Data) or only save the reports with Fix data (Fix Data). Then please click **Download (CSV format)** button.

You will see the window below.

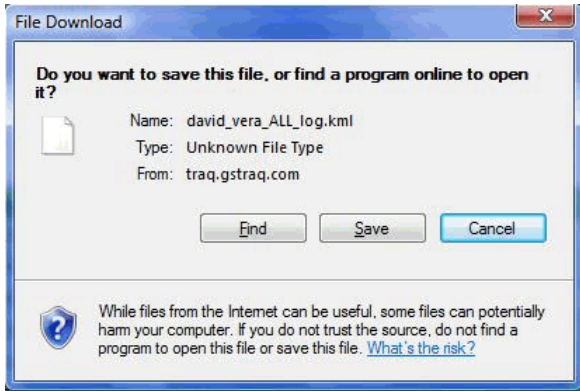


Please click **Save** and then select the location you want to save the file.

Save as KML format:

Please select you want to save all the history reports (All Data) or only save the reports with Fix data (Fix Data). Then please click **Download (kml format)** button.

You will see the window below.



Please click **Save** and then select the location you want to save the file.

In addition, you may also view the last TR-151 25 points by selecting **Show Last 25 Points** on the menu bar.

Note: If the value of GPS fix is **No Fix**, the point will not be displayed on the map of Show Last 25 Points. Only **2D** and **3D Fix** data will be displayed.

Note: Show Last Point is for showing the location of the last tracker's report on the map.



Users have the ability to click on any point to view detailed information.



6. Contact Information

Globalsat Technology Corporation (Taiwan)

www.globalsat.com.tw

service@globalsat.com.tw

(pre-sales GPS product questions only)

USGlobalsat, Inc. (North America)

www.usglobalsat.com

sales@usglobalsat.com

(pre-sales GPS product questions only)

Technical Support (North America)

See our DOWNLOADS and FAQ section on our web-site for GPS driver updates.

www.usglobalsat.com

Product Pre-registration Requirements: Before receiving product technical support and/ or online support from our "Support Ticket" system from USGlobalsat's web-site. Using our online support will expedite in receiving product resolutions in a secure and prompt manner. Note, products purchased from an authorize USGlobalsat dealer, require account and product registration at: www.usglobalsat.com/support/custadminlogin.asp

7. Safety Information

- As for the operation of this product in the aircraft, please consult the aviation company first of all. Special care should be taken when an electronics device is engaged during a flight.
- Never get closer to a place emitting intensive radio waves or radiation which could affect the operation of this product.
- Never make the navigator fall down or clash with stiff objects to project it against any damage in appearance, battery loose, data lose or other hardware mutilation.
- Never let this product expose to the humid environment or rain as the water leaked into could disable it to the extent beyond reparation.
- Never switch on this product in the dusty environment.
- Over-voltage, power cable strain, bending or squeezing by heavy objects is not allowed to avoid overheating or fire disaster.
- Never deploy any chemical or detergent to clean up the navigator to prevent erosion of the surface or paintwork.
- In order to eliminate the risk of electric shock, do not touch the cable power plug with wet hands and do plunge it into the socket completely.

- Never charge the battery in a neither extreme cold nor hot place, which could damage the battery.
- Keep this product which is being charged out of the reach of children.

7. Safety Information (Continued)

- Never put it under the direct baking sunshine or place it in a place with high temperature to avoid the problem of over-heat to the battery or this product, which could trigger fault or danger.
- When any sort of fault comes into being, please contract with qualified maintenance personnel for service rather than disassemble it at your own discretion.
- Keep all the wires in neat order to prevent damage-fostering tangling.

8. Limited Warranty

Globalsat/USGlobalsat (1) Year Limited Warranty

FOR CONSUMERS, WHO ARE COVERED BY CONSUMER PROTECTION LAWS OR REGULATIONS IN THEIR COUNTRY OF PURCHASE OR, IF DIFFERENT, IN THEIR COUNTRY OF RESIDENCE, THE BENEFITS CONFERRED BY THIS WARRANTY ARE IN ADDITION TO ALL RIGHTS AND REMEDIES CONVEYED BY SUCH CONSUMER PROTECTION LAWS AND REGULATIONS. THIS WARRANTY DOES NOT EXCLUDE, LIMIT OR SUSPEND ANY RIGHTS OF CONSUMERS ARISING OUT OF NONCONFORMITY WITH A SALES CONTRACT. SOME COUNTRIES, STATES AND PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION MAY LAST, SO THE LIMITATIONS OR EXCLUSIONS DESCRIBED BELOW MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY BY COUNTRY, STATE OR PROVIDENCE. THIS LIMITED WARRANTY IS GOVERNED BY AND CONSTRUED UNDER THE LAWS OF THE COUNTRY IN WHICH PRODUCT PURCHASE TOOK PLACE. GLOBALSAT/ USGLOBALSAT, THE WARRANTOR UNDER THIS LIMITED WARRANTY, IS IDENTIFIED AT THE END OF THIS DOCUMENT ACCORDING TO THE COUNTRY OR REGION IN WHICH THE PRODUCT PURCHASE TOOK PLACE.

Globalsat/ USGlobalsat's warranty obligations for this hardware product are limited to the terms set forth below:

Globalsat/ USGlobalsat, as defined below, warrants this hardware product against defects in materials



product hardware against manufacturing defects in materials and workmanship under normal use for a period of ONE (1) year from the date of retail purchase by the original end-user purchaser and purchased from a recognized “authorized dealer” (“Warranty Period”). Products purchased from any unauthorized source, such as unauthorized e-Bay resellers, will not qualify for free warranty service/support and may require the end-user to pre-pay fees associated with, but not limited to the support, repair, replacement and shipping of the product to and from the service center. If a hardware defect arises and a valid claim is received by Globalsat/ USGlobalsat within the Warranty Period, at its option and to the extent permitted by law, Globalsat/ USGlobalsat will either (1) repair the product at no charge, using new parts or parts equivalent to new in performance and reliability, (2) exchange the product with a product that is new or equivalent to new in performance and reliability and is at least functionally equivalent to the original product or, (3) refund the purchase price of the product. Globalsat/ USGlobalsat may request that you replace defective parts with new or refurbished user-installable parts that Globalsat/ USGlobalsat provides

8. Limited Warranty (Continued)

in fulfillment of its warranty obligation. A replacement product or part, including a user-installable part that has been installed in accordance with instructions provided by Globalsat/ USGlobalsat, assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced items becomes Globalsat/ USGlobalsat's property. Parts provide by Globalsat/ USGlobalsat in fulfillment of its warranty obligation must be used in products for which warranty service is claimed. When a refund is given, the product for which the refund is provided must be returned to Globalsat/ USGlobalsat and becomes Globalsat/ USGlobalsat's property.

If a defect arises and a valid claim is received by Globalsat/ USGlobalsat after the first one hundred and eighty (180) days of Warranty period, a shipping and handling charge may apply to any repair or exchange of the product undertaken by Globalsat/ USGlobalsat.

EXCLUSIONS AND LIMITATIONS

This Limited Warranty applies only to the hardware product manufactured by or for Globalsat that can be identified by the “Globalsat” trademark, trade name, or logo annexed to it. The Limited Warranty does not apply to any non-Globalsat hardware product or any software, even if packaged or sold with the Globalsat hardware.

Manufacturers, suppliers, or publishers, other than Globalsat/ USGlobalsat, may provide their own warranties to the end user purchaser, but Globalsat/ USGlobalsat, in so far as permitted by law, provides



their products “as-is”. Software distributed by Globalsat/ USGlobalsat with or without the Globalsat brand name (including, but not limited to system software) is not covered under this Limited Warranty. Refer to the licensing agreement accompanying the software for details of your rights with respect to its use. Globalsat/ USGlobalsat does not warrant that the operation of the product will be uninterrupted or error-free. Globalsat/ USGlobalsat is not responsible for damage arising from failure to follow instructions relating to the product’s use.

This warranty does not apply: (a) to consumable parts, such as batteries, unless damage has occurred due to a defect in materials and workmanship; (b) to cosmetic damage, including but not limited to scratches, dents, and broken plastic on ports; (c) to damage cause by use accident, abuse, misuse, flood, fire, earthquake or other external causes; (e) to damage caused by operating the product outside the permitted or intended uses described by Globalsat/ USGlobalsat; (f) to damage caused by service (including upgrades and expansions) performed by anyone who is not a

8. Limited Warranty (Continued)

representative of Globalsat/ USGlobalsat or an Globalsat/ USGlobalsat authorized service provider; (g) to a product or part that has been modified to alter functionality or capability without the written permission of Globalsat/ USGlobalsat; or (h) if any Globalsat/ USGlobalsat serial number has been removed or defaced.

IMPORTANT: Do not open the hardware product. Opening the hardware product may cause damage that is not covered by this warranty. Only Globalsat/ USGlobalsat or an authorized service provider should perform service on this hardware product.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY AND THE REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, STATUTORY, EXPRESS OR IMPLIED. AS PERMITTED BY APPLICABLE LAW, GLOBALSAT/ USGLOBALSAT SPECIFICALLY DISCLAIMS ANY AND ALL STATUTORY OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS. IF GLOBALSAT/ USGLOBALSAT CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION OF THE EXPRESS WARRANTY AND TO THE REPAIR OF REPLACEMENT SERVICE AS DETERMINED BY GLOBALSAT/ USGLOBALSAT IN ITS SOLE DISCRETION.



No Globalsat/ USGlobalsat reseller, agent, or employee is authorized to make any modifications, extension, or addition to this warranty. If any term is held to be illegal or unenforceable, the legality or enforceability of the remaining terms shall not be affected or impaired.

EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, GLOBALSAT/ USGLOBALSAT IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF USE; LOSS OF REVENUE; LOSS OF ACTUAL OR ANTICIPATED PROFITS (INCLUDING LOSS OF PROFITS ON CONTRACTS); LOSS OF THE USE OF MONEY; LOSS OF ANTICIPATED SAVINGS; LOSS OF BUSINESS; LOSS OF OPPORTUNITY; LOSS OF GOODWILL; LOSS OF REPUTATION; LOSS OF; DAMAGE TO OR CORRUPTION OF DATA; OR ANY INDIRECT OR CONSEQUENTIAL LOSS OR DAMAGE HOWSOEVER CAUSED INCLUDING THE REPLACEMENT OF EQUIPMENT AND

8. Limited Warranty (Continued)

PROPERTY, ANY COSTS OF RECOVERING, PROGRAMMING OR REPRODUCING ANY PROGRAM OR DATA STORED IN OR USED WITH THE GLOBALSAT/ USGLOBALSAT PRODUCT AND ANY FAILURE TO MAINTAIN THE CONFIDENTIALITY OF DATA STORED ON THE PRODUCT. THE FOREGOING LIMITATION SHALL NOT APPLY TO DEATH OR PERSONAL INJURY CLAIMS, OR ANY STATUTORY LIABILITY FOR INTENTIONAL AND GROSS NEGLIGENT ACTS AND/OR OMISSIONS. GLOBALSAT/ USGLOBALSAT DISCLAIMS ANY REPRESENTATION THAT IT WILL BE ABLE TO REPAIR ANY PRODUCT UNDER THIS WARRANTY OR MAKE A PRODUCT EXCHANGE WITHOUT RISK TO OR LOSS OF PROGRAMS OR DATA.

OBTAINING WARRANTY SERVICE

Please access and review the online help resources referred to in the documentation accompanying this hardware product before seeking warranty service. If the product is still not functioning properly after making use of these resources, access the online website www.usglobalsat.com for instructions on how to obtain warranty service. You must follow Globalsat/ USGlobalsat warranty processes. Globalsat/ USGlobalsat may provide warranty service (i) by sending the unit to Globalsat/ USGlobalsat location, where service is performed at the location, or (ii) by sending the unit to an authorized Globalsat/ USGlobalsat supplier (iii) by sending you new or refurbished customer-installable replacement product or parts to enable you to service or exchange your own product ("RMA service"). Upon receipt of the replacement product or part, the original product or part becomes the property of Globalsat/ USGlobalsat



and you agree to follow instructions, including, if requires, arranging the return of the product or part to Globalsat/ USGlobalsat in a timely manner. When providing RMA service requiring the return of the original product or part, Globalsat/ USGlobalsat may require credit card authorization as security for the retail price of the replacement product or part and applicable shipping costs. If you follow the instructions, Globalsat/ USGlobalsat will cancel the credit card authorization, so you will not be charged for the product or part and shipping costs. If you fail to return the replace product or part as instructed, Globalsat/ USGlobalsat will charge the credit card for the authorized amount. Service options, parts availability and response times may vary according to the country in which service is requested. Service options are subject to change at any time. You may be responsible for shipping and handling charges if product cannot be serviced in the country in which service is requested. If you seek service in a country that is not the country of purchase, you will comply with applicable export laws and regulations and be responsible for all custom duties, V.A.T. and other associated taxes and charges. For international service, Globalsat/ USGlobalsat may repair or exchange defective products and parts with comparable products and parts that comply with local standards. In accordance with applicable law, Globalsat/ USGlobalsat may require that you furnish proof of purchase details and/ or comply with the registration requirements before receiving warranty service.

8. Limited Warranty (Continued)

Please refer to the accompanying documentation for more details on this and other matters obtaining warranty service.

Globalsat/ USGlobalsat will maintain and use customer information in accordance with the Globalsat/ USGlobalsat Privacy Policy.

If your product is capable of storing software programs, data and other information, you should make periodic backup copies of the information contained on the product's hard drive or other storage media to protect the contents and as a precaution against possible operational failures. Before you deliver your product for warranty service it is your responsibility to keep a separate backup copy of the contents, and disable any security passwords. IT IS POSSIBLE THAT THE CONTENTS OF YOUR HARD DRIVE WILL BE LOST OR REFORMATTED IN THE COURSE OF WARRANTY SERVICE, AND GLOBALSAT/ USGLOBALSAT AND ITS AGENTS ARE NOT RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF PROGRAMS, DATA OR OTHER INFORMATION CONTAINED ON THE MEDIA OR ANY PART OF THE PRODUCT SERVICED. Your product will be returned to you configured as originally purchased, subject to applicable updates. You will be responsible for reinstalling all other software programs, data and passwords. Recovery and reinstallation of service programs and user data are not covered under this Limited Warranty.

9. FCC Notices

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment utilize, exhibits and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

9. FCC Notices (Continued)

- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.