

GSM/GPRS/GPS Tracker **GV200 Manage Tool User Guide**

TRACGV200MT002

Revision: 1.11



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1. Revision History

Revision	Date	Author	Description of change	
1.00	2011-01-24	Ella HUANG	Initial	
1.06	2011-06-20	Wogle zhou	Instruction of the Manage Tool V1.4 which apply	
			to software version	
			GV200R00A08V04M128_TOSHIBA.	
1.07	2011-08-26	Wogle zhou	Add chapter2.1 to define system requirements.	
1.08	2011-09-30	Wogle zhou	Add chapter3.2.24 and 3.2.25 to introduce how to	
			configure the white list and button call.	
1.09	2011-12-10	Wogle zhou	Instruction of the Manage Tool V1.9 which apply	
			to software version	
			GV200R00A10V02M128_TOSHIBA.	
1.10	2012-01-16	Wogle zhou	Instruction of the Manage Tool V1.94 which apply	
			to software version	
			GV200R00A11V01M128_TOSHIBA.	
1.11	2012-02-22	Wogle zhou	Add chapter3.2.9 and 3.2.23 to introduce how to	
			configure the hex format parameters and second	
			serial port parameters	



2. GV200 Manage Tool Interface

GV200 manage tool is PC software which can be used to configure GV200 through UART. It is easy for the backend server developers to configure GV200 with manage tool, which has friendly user interface. The correct command messages sent to GV200 will be displayed on the manage tool. (These messages can also be sent by SMS or GPRS).

The administrators can also use the manage tool to configure GV200 before selling. But it is strongly recommended to establish a backend server and implement the way to control GV200 by SMS or GPRS. Please refer to "GV200 @Track Air Interface Protocol" for detail.

Before using the manage tools please install driver for the USB to RS232 cable. After that a new COM port can be found in the PC system, and then please follow the steps as below:

- 1. Connect GV200 to 12VDC power supply and GV200 will power on.
- 2. Connect GV200 to PC with USB to RS232 cable.
- 3. Run "GV200 Manage Tool Vx.xx.exe".

2.1. System Requirements

In order for this manage tool to run on your computer, you must use it in below operating system:

- ♦ Windows 98SE;
- Windows ME Windows 2000 SP4;
- Windows XP SP2 and above (32 & 64 bit);
- Windows Server 2003 (32 & 64 bit);
- Windows Server 2008 (32 & 64 bit);
- ♦ Windows Vista (32 & 64 bit);
- Windows 7 (32 & 64 bit);

Supported System Environments:

• Microsoft .NET Framework 2.0 or higher



2.2. COM Setting

COM Settings	
COM:	COM10
Baudrate:	115200
Password:	gv200

Select the COM port and baud rate (115200bps in default), input the password ("gv200" in default), and click "OK" button, then setting window will display.

2.3. Quick Setting Wizard

The quick setting wizard gives a basic setting for device. If you want use more functions of GV200, please change to enter professional setting mode.

Before you enter quick setting wizard, you must make sure the COM connection is OK.

	Welcome to GV200 Mana This wizard will configure It is commended that you applications before conti Click on 'Next' to continue	age Tool Quick Setting Wizard some basic settings of GV200. I close all other COM-related nuing. e; click on 'Cancel' to exit this wizard
	Text Read IMEI & Version	Result OK
B	Refresh to check connect	tion available
Show at startup	< Back Next >	Send Command Cancel

Please refer chapter 3.1 for the detail of setting with quick setting wizard.



2.4. Professional Setting Windows

	7	🖷 Quick Start Setting - GV200	D Manage Tool VI	. 6	
Menus		Start Tool Help			
		🚦 🥥 COM Settings 📑 Operation Log 📴	Quick Setting Wizard	🖉 Read All Configuration 🔹 🗃 Sena Ad Control autor 👔 Save	All Configuration 📴 Disconnect to COM
Toolbar		Welcome ¥ Server Connection \$	Quick Start Setting	s is used to configure the GPRS parameters and backend server	information in one command.
	-	Bearer Setting Information	🖃 Basic Settings		· · · · · · · · · · · · · · · · · · ·
Command	-	Backend Server Register Information	Report Mode:	Stop reporting	
Browser		<u>Quick Start Settings</u>	GPRS Settings		
	-		APN:		
			User name:		
	1		Password:		
Command					
Operation			Backend Server S	ettings	
Space			Main Server IP/ Do	main Name:	
Space			Main Server Port:	0	
			Backup Server IP:	192.0.0.0	
			Backup Server Por	t: 0	
	_		SMS Gateway:		
Title Bar	~	Participanting and	_		
The Dui		Device configuration *	Other Settings		
		Alarm Cattlers	Heartbeat Interval:	0 🗢 minutes	
		Alarm Settings \$	🔲 Buffer Enable	SACK Enable	
		Other Settings	AT+GTOSS-	1/200 0 0 0 192 0 0 0 0 0 EEEE¢	Road Cand
Status Bar		Utilei settings 🗸 🕹	AT+GTQ55-0	Jv200,,,,0,,0,,0,192.0.0.0,0,,0,0,,,,FFFF9	II Read II Send
Status Dal		System Status: Executing: N/A, Waiting: 0	commands Current	Status: COM5 is Opened, IMEI is 359231034410397, Protocol Ver	sion is N/A, Software Version is A09V01

2.4.1. Title Bar

Title Bar indicates current operational command title and the name of manage tool.

2.4.2. Menus

It include "Start", "Tool", "Help" menu in menus.

Start Tool Help

2.4.2.1 Start Menu

Start menu include "COM Settings".

[COM Setting]: It is used to set the COM information and password Setting details please refer to chapter 2.2

2.4.2.2 Tool Menu

Tool menu include "Quick Setting Wizard", "Operation Log", "Options" setting.

TRACGV200MT002



[Quick Setting Wizard]: It is used to open quick setting wizard directly. Please refer to chapter 3.1 for details.

[Operation Log]: It is used to display/hidden the operation log.

🖷 Quick Start Setting -	GV200 Manage Tool Vi.6
Start Tool Help 2 20 COM Settings 🗂 Operation L	Log 🥫 Quick Setting Wizard 🕖 Read All Configuration 🔹 🗃 Send All Configuration ᅟ 🍇 Save All Configuration 👼 Disconnect to COM
Velocme Server Connection Bearer Setting Information Backend Server Register Inform: Guick Start Settings Device Configuration	Vedex Setting Vized View Xin Conniguration View Xin Connigurat
Position Related Report	V Main Sever IP (Domain Name: 616.428.146.250
Alarm Settings	Main Server Port 7041
Other Settings	* AT+GTQSS=gv200,cmnet,,,1,,1,616.428.146.250,7041,192.0.0,0,0,1 Read Send
Operation Log	
ID Text 21 Read GTDAT 22 Read GTOWH 23 Read GTDOG 24 Read GTDAT 25 Read GTDL 26 Read GTHMC 27 Read GTHM	DateTime Result 8/24/2011 6:34.42 PM OK
	Quick Start Setting Start Tool Help Gon Settings Operation I Welcome Server Connection Bearer Setting Information Backend Server Register Inform Quick Start Settings Device Configuration Position Related Report Alarm Settings IO Application Other Settings Operation Log ID Text 21 Read GTDAT 22 Read GTOWH 23 Read GTDAG 26 Read GTHEM Point Configuration Point Configuration Point Configuration Point Configuration Point Configuration Position Related Report Alarm Settings IO Application Other Settings Operation Log ID Text 21 Read GTDAT 22 Read GTMAH 25 Read GTHEM Point Configuration Point Configuratin Point Configur

[Options]: It is used to set the basic setting of manage tool.

"Basic Options" include startup setting options and log save option.

🖬 Options		
Basic Options	Advanced Options	
Startup Settin	gs	
Show CC	M Settings at startup	
Show	Quick Setting Wizard	
Other Setting	8	
E:1GV200\测	式工具\GV200MT.A09V04.V1.8	8\GV200 M Save Log
		Save Cancel



"Advanced Options" include COM settings and other settings.

COM Settings is used to set COM setting. It is recommended using default setting for these settings.

🖼 Options	🛛
Basic Options Advanced Options	
COM Settings	
Enable SlowClock Control	
Other Settings	
Hidden prompt after every command is finished	
Timeout For Command Executing: 10 📚 seconds	
Save	Cancel

2.4.2.3 Help Menu

[About]: Select "About". Then the following pop up window will display.



"Manage Tool Version" indicates the version of this manage tool.

"Support Version" indicates the firmware which this manage tool used for.

"Device Version" indicates the firmware which connects to the PC. It is recommended using the same version of support version. If it is different between support version and device version, the new character of device can not be used in this tool.



2.4.3. Toolbar

It include "COM Setting", "Operation Log", "Quick Setting Wizard", "Real All Configuration", "Send All Configuration", "Save All Configuration", "Connect/Disconnect to COM".

🧯 🖉 COM Settings 🗊 Operation Log 📒 Quick Setting Wizard 👔 Read All Configuration 🖉 Save All Configuration 🛛 🖉 Disconnect to COM

[COM Setting]: It is used to set the COM information and password. Setting details please refer to chapter 2.2.

[**Operation Log**]: It is used to display/hidden operation log.

[Quick Setting Wizard]: It is used to open quick setting wizard directly. Please refer to chapter 3.1 for details.

[Read All Configuration]: It is used to display/hidden operation log.

Read All Configuration 👻	📑 Send All C
Read From Device	
Load Configuration Fro	om File

"Read From Device": It is used to read all configuration from device which connects to PC. *"Load Configuration From File"*: It is used to load configuration file to the manage tool.

[Send All Configuration]: It is used to send all configurations in Command Operation Space.

[Save All Configuration]: It is used to save all configurations in Command Operation Space to file.

[Connect/Disconnect to COM]: It is used to Connect/Disconnect to COM manually.

2.4.4. Status Bar

System Status: Executing: NA, Waiting: 0 commands Current Status: COM17 is Opened, IMEL is 359231036739074, Protocol Version is 040402, Software Version is A12V11

There is system status and current status in status bar.

[System Status]: It indicates the count of commands which are waiting and executing to set.

[Current Status]: It indicates current COM status, IMEI, protocol version and software version which read from device.



2.4.5. Command Browser and Command Operation Space

This area is mainly read and set parameters of device

2.4.5.1 Command Brower

Command Brower separates all @track protocol command to several parts. Click Function in command Brower, reference parameters of this command will be shown in command operation space.

Command Brower	Function Description	Relative Command
Server Connection	Bearer Setting Information	GTBSI
	Backend Server Register Information	GTSRI
	Quick Start Settings	GTQSS
Device Configuration	Global Configuration	GTCFG
	Auto-Unlock PIN	GTPIN
	Software Protocol Watchdog	GTDOG
	Outside Working Hours	GTOWH
	Time Adjustment	GTTMA
	Hex Report Mask	GTHRM
Position Related	Fixed Position Information	GTFRI
Report		
Alarm Setting	Geo-Fence Configuration	GTGEO
	Tow Alarm Configuration	GTTOW
	Speed Alarm	GTSPD
	SOS Alarm	GTSOS
	Excessive Idling Detection	GTIDL
	Harsh Behavior Monitoring	GTHBM
IO Application	Digital Output Port Settings	GTOUT
	Analog Input Port Settings	GTAIS
	Digital Input Port Settings	GTDIS
	Multi Analog Input Port Settings	GTMAI
	Input/Output Port Binding	GTIOB
Other Settings	Voice Monitor	GTMON
	Second Serial Port Setting	GTURT
	Transparent Data Transmission	GTDAT
	Hour Meter Counter	GTHMC
	White Call List Configuration	GTWLT
	Button Call Setting	GTBCS
	Real Time Operation	GTRTO



Command	Ouick Start Settings is used to configure the GPRS parameters and backend se	rver information in one command.
Description	Basic Settings	
	Report Mode: Stop reporting	
	GPRS Settings	
	APN:	
	User name:	
Parameters	Password:	
Area	Backend Server Settings	1
	Main Server IP/ Domain Name:	
	Main Server Port: 0	
	Backup Server IP: 192.0.0.0	
	Backup Server Port: 0	
	SMS Gateway:	
	Other Settings	
	Heartbeat Interval: 0 🔹 minutes	
Command	Buffer Enable SACK Enable	
Display	AT+GTQSS=gv200,,,,0,,0,,0,192.0.0.0,0,,0,0,,,FFFF\$	Read Send

2.4.5.2 Command Operation Space

[Command Description]: There is a short description for reference command.

[Parameters Area]: Set/Read parameters of this command in this area.

[Command Display]: Command with parameters in parameters area display in this area.

[**Read**]: Click this button to read this command from device.

[Send]: Click this button to send this command to device.



2.5. Operation Result Interface

2.5.1. Operation Successfully Interface





2.5.2. Operation Failed Interface

There should be COM port connection problem if the fail reason is timeout.



There should be COM port is occupied. Please close all other COM-related applications.



Please change to correct device password if Password Error.





There are some issues with this com, please check your com wire or port.





3. Operation Instruction

3.1. Device Configuration with Quick Setting Wizard

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to "GV200 @Track Air Interface Protocol" for detail.

The quick setting wizard gives a basic setting for device. If you want use more functions of GV200, please change to professional setting mode.

3.1.1. Welcome to Quick Setting Wizard

Click "*Quick Setting Wizard*" in toolbar, open quick setting wizard. If the "Result" in this window is OK, click "*Next*". If the "Result" is not OK, please check the COM port connection till the result is OK.

🕶 Quick Setting Wizard		
	Welcome to GV200 Manag This wizard will configure It is commended that you applications before contin Click on 'Next' to continue;	ge Tool Quick Setting Wizard some basic settings of GV200. close all other COM-related uing.
	Text Read IMEI & Version	Result OK
Ø	Refresh to check connecti	on available
Show at startup	= <u>B</u> ack <u>N</u> ext >	Send Command Cancel

Welcome to Quick Setting Wizard

3.1.2. GPRS Network Setting

Step_1: Set APN, APN user name and password in this window. The meaning of these parameters, please refer to the "*GV200* @*Track Air Interface Protocol*" for detail.



Step_2: Then click "Next".

	GPRS Network Configure acc	ing Vizard – St Settings ess data provided by	ep 1/4 operator for GPRS comm	nunication	G
ep_1	APN: Access Pointin Username: The parameter Password: The parameter	cmnet Ieme aet before will be clea	* For exam	ple: cmnet	
tep_1	Show at startu	pack	Next >	Send Command	Cancel

3.1.3. Main Server Setting

Step_1: Set report mode, main server, main server port, and SMS gateway in this window. The meaning of these parameters, please refer to the "GV200 @Track Air Interface Protocol" for detail.

Step_2: Click "*Check if main backend server is available*" to check if main server IP and port is valid in network. If the result is ERROR, please check the server connection. You can not get report from server if the server connection has problem.

Step_3: Click "Next".



GV200	Manage	Tool
-------	--------	------

	Main Server Settings Configure main backend server info and transmission mode for protocol messages.
	Report Mode: TCP short-connection preferred mode 😪
	This defines the transmission mode between backend server and GV200
_	Main Server IP/ Domain Name: 116.228.146.250
	The IP address or domain name of main backend server.
	Main Server Port: 7041 CThe port of main backend server
	SMS Gateway: Redonal code stanting with "+ is support
2	Check if main backend server is available
	OK. Main backend server is available now.

3.1.4. Fixed Time Report Setting

Step_1: Set check interval, send interval, discard no fix in this window. The meaning of these parameters, please refer to the "*GV200* @*Track Air Interface Protocol*" for detail.

Step_2: Click "Next".



GV200	Manage	Tool
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	Make your device send the positional report to the backend server periodically
	Send Interval: 30 🗢 seconds
	Cycle to report +RESP GTFRI protocol message. Its range is 5-86400 seconds. But if <report mode=""> In AT+GTBRI is set to force bit BMS'; its value should be greater than 1.5 seconds.</report>
o 1	Discard No Fix
	Disable/enable reporting if no GPS fix.

3.1.5. Send Command to Device

Step_1: Click "Send Command". Command GTBSI, GTSRI, and GTFRI will send to device.

Step_2: If the settings download successfully, the result return OK. Click "OK" to exit the quick setting wizard.



Step_1

lext	Result
Write GTBSI	Pending
Write GTSRI	Pending

Please click on 'Sen	d Command' to save settings to
Text Write GTBSI Write GTSRI Write GTFRI	Result OK OK OK
Quick Setting Tizard	successfully.
	OK



3.2. Device Configuration in Professional Setting Mode

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to "GV200 @Track Air Interface Protocol" for detail.

Following is a general procedure to configure GV200 with manage tool.

3.2.1. Set the parameters of bearer setting information

Welcome	× Descer Cetting			
Server Connection	*	IS used to configure the GPRS parameters.		
Bearer Setting Information	GPRS Setting	5		
Backend Server Register Info Quick Start Settings	n <mark>ation</mark> APN: User name:			Step_4
Device Configuration	¥ Password:			Stop
Position Related Report	*			Step_
Alarm Settings	×			Step
10 Application	×			F=
Other Settings	* AT+GTBSI	=gv200,,,,,,,FFFF\$	Read Send	Sten

- Step_1: Select "Bearer Setting Information", after that the parameters of GTBSI show in Command Operation Space.
- Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set APN parameters. Please refer to "*GV200* @*Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "Send" button; download the parameters of GTBSI to GV200.

3.2.2. Set the parameters of backend server register information

Welcome Server Connection	Backend Server Configuration is used to configure where and how to report all the messages.	
Bearer Setting Information	Basic Settings	1
Backend Server Register Informatio	Report Mode: Stop reporting	
Quick Start Settings	Backend Server Settings	
	Main Server IP/ Domain Name:	
	Main Server Port: 0	
	Backup Server IP: 192 . 0 . 0 . 0	
	Backup Server Port: 0	
	SMS Gateway.	
Device Configuration	☐ Other Settings	
Position Related Report	Heartbeat Interval: 0 📚 minutes	
Alarm Settings	🗌 Buffer Enable 🗌 SACK Enable	
10 Application		~
Other Settings	AT+GTSRI=gv200.0.0.0192.0.0.0.0.0 EFEE\$	Send

- **Step_1:** Select "*Backend Server Register Information*", after that the parameters of GTSRI show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set backend server information parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTSRI to GV200.





3.2.3. Set the parameters of quick start settings

	Welcome		
	Server Connection	Culick Start Settings is used to configure the GPRS parameters and backend server information in one command.	
	Bearer Setting Information	Basic Settings	
Step_1	Backend Server Register Informat	on Report Mode: TCP short-connection preferred mode 😽	
	Quick Start Settings	GPRS Settings	
		APN: cmnet	
		User name:	
		Password: Step_2	1
		🗖 Backend Server Settings	
		Main Server IP/ Domain Name: 616.428.146.250	
		Main Server Port: 7041 😴	
		Backup Server IP: 192.0.0.0	3
		Backup Server Port: 0	.5
		SMS Gateway: 123456789	
	Device Configuration		-
	Position Related Report	× Step	3
St 2	Alarm Settings	Heartbeat Interval: 15 minutes	
Step_2	10 Application	Buffer Enable SACK Enable	
	Other Settings	TAT+GTQSS=gv200,cmnet,,,1,,1,616.428.146.250,7041,192.0.0. Read Send	

- **Step_1:** Select "*Quick Start Settings*", after that the parameters of GTQSS show in Command Operation Space.
- Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the GPRS and backend server information parameters. Please refer to "*GV200* @*Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTQSS to GV200.





3.2.4. Set the parameters of global configuration

Step_1 Global Configuration > Bevice Configuration > Device Basic Unformation Auto-Unitock PIN Device Name: New Password: Software Protocol Watchdog Outside Working Hours Doutside Working Hours Time Adjustment ODO Initial Mileage: 0.0 Km ODO Enable Step_3 Device Working Status Settings Step_3 Backup Battery On Backup Battery On Backup Battery Charge Mode: Charge on need Yespition Related Report LED On Echo Suppression: Cancel echo by earphone Step_5	Welcome
Step_1 Device Configuration Global Configuration Auto-Unlock PIN Software Protocol Watchdog Outside Working Hours Time Adjustment ODO Initial Mileage: 0.0 Km ODO Enable Step_3 Step_5	Server Connection
Step_1 Beideal Configuration Auto-Unitock PIN Software Protocol Watchdoa Outside Working Hours Time Adjustment ODO Initial Mileage: 0.0 Beckup Battery On Backup Battery On Ba	Device Configurat
Outside Working Hours Time Adjustment ODO Initial Mileage: 0.0 Bevice Working Status Settings Bevice Working Status Settings Step_3 Beckup Battery On Backup Battery Charge Mode: Charge on need Step_5	Global Configura
Time Adjustment ODO Initial Mileage: 0.0 Mileage: Disable power saving function Mileage: Mileage: Mileage: Mileage: Mileage: Mileage: Mileage: Mileage: Mileage: Mileage: <	Outside Working
Position Related Report EDevice Working Status Settings Step_3 Step_5 Step_5	Time Adjustmen
Position Related Report EED On Echo Suppression: Cancel echo by earphone Step_5	
Position Related Report GPS On Need Power Saving Mode: Disable power saving function Disable power saving function Backup Battery On Backup Battery Charge Mode: Charge on need Step_5	
Position Related Report Backup Battery On Backup Battery Charge Mode: Charge on need Step_5	
Position Related Report × LED On Echo Suppression: Cancel echo by earphone	
	Position Related F
Alarm Settings 😵 📋 5V Output Control	Alarm Settings
10 Application ×	10 Application
Step 2 AT+GTCFG=gv200,,,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	Other Settings
Welcome ×	Welcome

Welcome	Clobal Configuration	Global Configuration is used to configure the global parameters								
Server Connection	*									
Device Configuration	SV Output Control	5V Output Control								
Global Configuration	Mask Settings									
Auto-Unlock PIN Software Protocol Watchdog Outside Working Hours	Report Items Mask:	Speed Azimuth Attitude GSM tower data	Mileage Send Time Device Name		Chec	Step 4				
Time Adjustment	Event Mask:	+RESP:GTPNA +RESP:GTPFA +RESP:GTMPN +RESP:GTMPF Reserved	 *RESP:GTBPL *RESP:GTBTC *RESP:GTSTC *RESP:GTSTT *RESP:GTANT 	+RESP:GTPDP +RESP:GTRTL +RESP:GTIGN/GTIGF +RESP:GTIGL	Chec					
	Cther Function Setting	s			e e					
Position Related Report	× 🗌 Info Report Enable	Info Report Interva	1: 300 🗘 s	econds						
Alarm Settings	Location By Call									
10 Application	*				×					
Other Settings	AT+GTCFG=gv2	00,,,0,0,0,,0,0,,0	,0,0,0,300,0,1,0,0,,,	,FFFF\$ Read	Send					

- **Step_1:** Select "*Global Configuration*", after that the parameters of GTCFG show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- **Step_3:** It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the global parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.





Step_5: Click the "Send" button; download the parameters of GTCFG to GV200.

3.2.5. Set the parameters of auto-unlock PIN

	Welcome	¥		1
	Server Connection	*	Auto-Unlock PIN is used to configure the auto-unlock PIN function of unit.	
	Device Configuration	*	Basic Settings	
	Global Configuration		Enable Auto-Unlock PIN	Step_4
Step_1 -	Auto-Unlock PIN		SIM-PIN:	
	Software Protocol Watchdog			
	Outside Working Hours			
	Time Adjustment			
	Position Related Report	¥		Step_3
	Alarm Settings	*		
Step_2 -	10 Application	*		
	Other Settings	*	AT+GTPIN=gv200,0,,,,,,FFFF\$ Read Send	Step_5

- **Step_1:** Select "*Auto-Unlock-PIN*", after that the parameters of GTPIN show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- **Step_3:** It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the auto-unlock PIN parameters. Please refer to "*GV200* @*Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "Send" button; download the parameters of GTPIN to GV200.



3.2.6. Set the parameters of protocol watchdog

	Welcome	Software Protocol Watchdow is used to reheat unit in a time based manner or upon ignition	
	Server Connection		
	Device Configuration	Basic Settings	
Step_1	Global Configuration Auto-Unlock PIN Software Protocol Watchdog Outside Working Hours Time Adjustment	Mode: Disable this function Ignition Frequency: 10 <minutes< td=""> Interval: 1 <minutes< td=""> Time: Image: HHMM Digital Input ID: 0 <minutes< td=""></minutes<></minutes<></minutes<>	Step_4
Step_2	Position Related Report Alarm Settings 10 Application	Cther Settings	Step_3
	Other Settings	- AT+GTDOG=gv200,0,10,1,,,0,0,,,,,FFFF\$ Read Send	Step_5

- Step_1: Select "Software Protocol Watchdog", after that the parameters of GTDOG show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the Software Protocol Watchdog parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTDOG to GV200.





3.2.7. Set the parameters of outside working hours

	Welcome	X Outside Marking Daura i	a mand to define the meriding being and the meriding made to pro-	ratast the unkerselectite evinesu	7
	Server Connection	Survive working Hours	s used to demine the working hours and the working mode to pr	otect the whereabouts privacy.	
	Device Configuration	Basic Settings			
	Global Configuration	Mode:	Disable this function		
Step 1	Auto-Unlock PIN Software Protocol Watchdog	Day of Work:	Monday Friday Tuesday Saturday Wednesday Sunday	Check All	Step_4
Step_1	Outside Working Hours		Thursday		
	Time Adjustment	Working Hours Start1:	HHMM Working Hours End1:	ННММ	
		Working Hours Start2:	HHMM Working Hours End2:	HHMM	
		Digital Input ID:	0 💀 🕕 The corresponding digital input port should b	be configured by the command AT+GTDIS firstly	
		Output Settings			Step_3
	Second .	Output ID:	0 Output Status		
	Position Related Report	Duration:	0 🗘 ×100ms		
Step_2	Alarm Settings	Toggle Times:	0		
	10 Application	×			Step_5
	Other Settings	▲AT+GTOWH=gv20	00,0,0,,,,,,,0,0,0,0,0,0,,,,,,FFFF\$	Read Send	

- **Step_1:** Select "*Outside Working Hours*", after that the parameters of GTOWH show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the Outside Working Hours parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "Send" button; download the parameters of GTOWH to GV200.



3.2.8. Set the parameters of time adjustment

	Welcome	Time Adjustment	Adjustment is used to adjust the level time of unit								
	Server Connection	Time Adjustment	is used to adjus	a ine loca	a arrie of unit.						
	Device Configuration	Basic Settings	ettings								
Step 1	Global Configuration Auto-Unlock PIN Software Protocol Watchdog Outside Working Hours	Sign: Hour Offset: UTC Time:	+	*	Daylight Saving Minute Offset:	0 YyyyMb	MDDHHMMSS			-[Step_4
5.0p_1	Time Adjustment Position Related Report Alarm Settings									<u> </u>	Step_3
Step_2	10 Application 30 Other Settings	AT+GTTMA=g	gv200,+,0,	0,0,,,,,	"FFFF\$			Read	Send	<u></u>	Step_5

- Step_1: Select "*Time Adjustment*", after that the parameters of GTTMA show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

- **Step_4:** Set the Time Adjustment parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTTMA to GV200.



3.2.9. Set the hex format report message



Step_1: Select "*HEX Report Mask*", after that the parameters of GTHRM show in Command Operation Space.

- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the hex report mask parameters. Please refer to "*GV200* @*Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTHRM to GV200.



3.2.10. Set the parameters of fixed report information

	Welcome	*	The d Darmath for which is not the information of a balance of a balance of	
	Server Connection	*	Fixed Report Information is used to configure the parameters of scheduled report.	
	Device Configuration	*	🗄 Basic Settings	
	Position Related Report	*	Mode: Disable this function	
Step_1	Fixed Report Information		Check Interval: 180 😋 seconds	
-			Send Interval: 30 🗢 seconds 🔲 <send interval=""> / <check interval=""> <= 15</check></send>	
			IGF Report Interval: 300 😤 seconds	Step_4
			EReport Period Settings	
			Period Enable	
			Start Time: HHMM	
			End Time: HHMM	
			E Mileage Settings	
			Distance: 1000 🗢 meters Mileage: 1000 🗢 meters	
			Max Send: 0 🗢 🗇 Discard No Fix	
Stan 2			Report Mask: Speed Mileage Check All Azimuth Send Time Altitude OSM tower data OSM tower data	Step_3
Step_2	Alarm Settings	*	Corner Report: 40 Corner	
	10 Application	*		
	Other Settings	*	AT+GTFRI=gv200,0,0,0,0,,,180,30,1000,1000,0,40,300,,,FFFF\$ Read Send	Step_5

- **Step_1:** Select "*Fixed Report Information*", after that the parameters of GTFRI show in Command Operation Space.
- Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the scheduled report parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTFRI to GV200.



3.2.11. Set the parameters of Geo-fence information

	Welcome	*			1
	Server Connection	Seo-Fence Config	guration is used to configure the parameters of Geo-Fence.		
	Device Configuration	😸 🔲 GeoFence Setting	igs		
	Position Related Report	SEO ID:	0 ~		
	Alarm Settings	* Mode:	Disable the zone's Geo-Fence function	*	
Step_1	Geo-Fence Configuration	Latitude:	0.000000		Step_4
	Tow Alarm Configuration	Longitude:	0.000000		
	Speed Alarm	Radius:	50 🗢 meters		
	SOS Alarm Excessive Idling Detection	Check Interval:	0 seconds		
	Harsh Behavior Monitoring	Output Settings			
		Output ID:	0 🔽 🗌 Output Status		
		Duration:	0 🗘 x100ms		Step 3
Step 2		Toggle Times:	0		
Step_2	10 Application	*			
	Other Settings	AT+GTGEO=	=gv200,0,0,0,0,50,0,0,0,0,0,0,,,,,,FFFF\$	Read Send	Step_5

- **Step_1:** Select "*Geo-Fence Configuration*", after that the parameters of GTGEO show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the Geo-Fence parameters. Please refer to "*GV200* @*Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTGEO to GV200.



3.2.12. Set the parameters of tow alarm configuration

	Welcome ¥		
	Server Connection 🛛 🕹	I w Alarm Computation is used to configure parameters of tow alarm which is pased on status of ignition and motion sensor detected.	
	Device Configuration 🛛 🕹	🗏 Basic Settings	
	Position Related Report	Engine Off to Tow; 5 😴 minutes 🔽 Tow Enable	
	Alarm Settings 🏾 🖈	Fake Tow Delay: 5 😴 minutes	
Step_1	Geo-Fence Configuration	Tow Interval: 30 📚 seconds	
_	Tow Alarm Configuration		Step 4
	Speed Alarm	Cutput Settings	Step_4
	SOS Alarm	Tow Output ID: 0 🔽 🗖 Tow Output Status	
	Excessive Idling Detection	Tow Output Duration: 0 🗢 x100ms	
	Harsh Behavior Monitoring	Tow Output Toggle Times: 0	
			Step_3
		E Motion Sensor Settings	
		Rest Duration: 0 🗘 x15 second	
		Motion Duration: 0 🗢 x100ms	
		Motion Threshold:	
Step_2	10 Application		
	Other Settings X	AT+GTTOW=gy20015530000002 EEES Read	Step_5
	a that a thing.		

- **Step_1:** Select "*Tow Alarm Configuration*", after that the parameters of GTTOW show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the tow alarm parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTTOW to GV200.



3.2.13. Set the parameters of speed alarm

	Welcome	¥	Coursed Manual in the		an harri k		ad alassa kasadan						
	Server Connection	*	Speed Alarm 1s us	ea to configu	ire now ti	o initiate a spe	ed alarm based or	r specified st	beed range.		-		
	Device Configuration	*	🗏 Basic Settings										
	Position Related Report	¥	Mode:	Disable	e speed a	alarm			Y				
	Alarm Settings	*	Min Speed:	0	*	km/h	Max Speed:	0	🔹 km/h				
	Geo-Fence Configuration		Duration:	15	Å	seconds					· · · · ·		Step_4
Stap 1	Tow Alarm Configuration		Send Interval:	30	*	seconds							
oup_1	Sos Alarm SOS Alarm Excessive Idling Detection		Output Settings	0	~	Cutout St	atus	-	-	-	-		
	Harsh Behavior Monitoring		Duration:	0	×	x100ms	and o					-[Step_3
Step_2	10 Application	*	roggie fillies.	<u>~</u>	X								Step 5
	Other Settings	*	AT+GTSPD=g	v200,0,(J,0,15	,30,0,0,0	,0,,,,,,,,,,,FF	FF\$		Read	Send		Step_3

- Step_1: Select "Speed Alarm", after that the parameters of GTSPD show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the Speed Alarm parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTSPD to GV200.



3.2.14. Set the parameters of SOS function

	Welcome	*	OS Narm is used to configure programmy estions triggered by energified input not						
	Server Connection	* SOS Alarm is used	to configure entergency actions triggered by specified input port.						
	Device Configuration	🗧 🗄 Basic Settings		<u> </u>					
	Position Related Report	¥ Mode:	Disable SOS function	~					
	Alarm Settings	Digital Input ID:	0 🗸 🔟 The corresponding digital input port should be configured by t	e command AT+GTDIS firstly.					
	Geo-Fence Configuration	SOS Number:		Step_4					
	Speed Alarm	Output Settings							
Step_1	<u>SOS Alarm</u>	Output ID:	0 Output Status	≡					
	Excessive Idling Detection	Duration:	0 🗘 x100ms						
	Harsh Behavior Monitoring	Toggle Times:	0						
		🗏 Other Settings							
		SOS Microphone:	0 🗳 Volume	Step_3					
Step_2		SOS Speaker:	0 😴 Volume						
	10 Application	× L		Step 5					
	Other Settings	AT+GTSOS=g	v200,0,0,0,0,0,0,0,0,,,,FFFF\$	Read Send					

- Step_1: Select "SOS Alarm", after that the parameters of GTSOS show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the SOS Alarm parameters. Please refer to "*GV200* @*Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTSOS to GV200.



3.2.15. Set the parameters of excessive idling detection

	Welcome ¥	Evenesis Iding Detection is used to detect evenesis iding of the apping	
	Server Connection 🛛 🕹	Excessive running detection is used to detect excessive running of the engine.	
	Device Configuration ×	Basic Settings	
	Position Related Report 🛛 🕹	Mode: Disable this function	
	Alarm Settings 🏾 🕆	Time to Stillness: 1 minutes	Step_4
	Geo-Fence Configuration Tow Alarm Configuration	Time to Movement:	
	Speed Alarm	Output Settings	
Step_1	SOS Alarm Excessive Idling Detection Harch Rehavior Monitoring	Output ID: 0 Output Status Duration: 0 🐳 x100ms	
	10 Application \$	Toggle Times: 0	Step_3
Step_2	Other Settings 🛛 🗧 😵	AT+GTIDL=gv200,0,1,1,,,,,0,0,0,0,,,,,,,FFFF\$ Read Send	Step_5

- **Step_1:** Select "*Excessive Idling Detection*", after that the parameters of GTIDL show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the excessive idling parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "Send" button; download the parameters of GTIDL to GV200.



3.2.16. Set the parameters of harsh behavior monitoring

	Welcome	Harsh Behavior Monitoring is used to monitor the harsh behavior of drive with GPS.	
	Device Configuration	tree = Basic Settings	
	Position Related Report	😵 🗌 Enable Harsh Behavior Monitoring	
	Alarm Settings	R Hight Speed Medium Speed Low Speed	
	Geo-Fence Configuration Tow Alarm Configuration Speed Alarm SOS Alarm Excessive Idling Detection	High Speed: 100 Km/h Medium Speed: 60 Km/h ΔVlb: 0 Km/h ΔVhb: 0 0 Km/h ΔVmb: 0 0 Km/h ΔVha: 0 0 Km/h ΔVma: 0 Km/h	Step_4
Step_1		Output Settings Output ID: 0 Output Status	
		Duration: 0 🔅 x100ms Toggle Times: 0 📚	Step_3
Step_2 —	iū Application	*	
_	Other Settings	AT+GTHBM=gv200,0,,,100,0,0,,60,0,0,,0,0,0,0,0,0,0,0,	Step_5

- **Step_1:** Select "*Harsh Behavior Monitoring*", after that the parameters of GTHBM show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the harsh behavior monitoring parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "Send" button; download the parameters of GTHBM to GV200.





3.2.17. Set the parameters of digital output port

	Welcome ¥	Digital Output Port Settings is used to produce specified waveform from the digital output ports.	
	Server Connection 🛛 🖇		
	Device Configuration 🛛 💝	1 main sewings	
	Position Related Report 🛛 🕹	Output 1 Output 2	
	Alarm Settings 🛛 🕹 🕹	Enable Output	
	10 Application 🛠	Duration: 0 🗘 x100ms Duration: 0 🗘 x100ms	
Step_1	Digital Output Port Settings	Toggle Times: 0	en 3
	Analog Input Port Settings Digital Input Port Settings	Output 3 Output 4	P_5
	Multi Analog Input Port Settings	Enable Output	
	Input/Output Port Binding	Duration: 0 🗘 x100ms Duration: 0 🗘 x100ms	
		Toggle Times: 0 🗘 Toggle Times: 0	
		Other Settings	
Step 2		Long Relay Operation: 0 😴 minutes	
	Other Settings 🛛 🗧 🗧	AT+GTOUT=gv200,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	ep_4

- Step_1: Select "*Digital Output Port Settings*", after that the parameters of GTOUT show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- **Step_3:** Set the Digital Output parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_4: Click the "Send" button; download the parameters of GTOUT to GV200.



3.2.18. Set the parameters of analog input port setting

	Welcome ¥	Analay lower Dart Cattings, is used to configure the nervoyators of englag insurt part	1
	Server Connection 🛛 🖇	Analog mpar Port Securitys is used to configure the parameters of analog input poir.	
	Device Configuration ¥	🗏 Basic Settings	
	Position Related Report 🛛 🕹	Mode: Disable	
	Alarm Settings 🛛 🕹	Min Threshold: 250 🗢 mv Max Threshold: 250 🗢 mV	
	IO Application 🔗	Sample Period: 0 \$ x2 seconds	
Step_1	Digital Output Port Settings	Debounce Time: 0 🗴 x1 seconds	Step_4
	Digital Input Port Settings	Output Settings	
	Multi Analog Input Port Settings	Output ID: 0 Output Status Duration: 0 x100ms Toggle Times: 0 \$	
		Cther Settings Sync with FRI	Step_3
Step_2	Other Settings 🛛 🛠	AT+GTAIS=gv200,0,250,250,0,0,0,0,0,0,0,0,,,,,FFFF\$ Read Send	Step_5

- Step_1: Select "Analog Input Setting", after that the parameters of GTOUT show in Command Operation Space.
- Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the Analog Input parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTAIS to GV200.



3.2.19. Set the parameters of digital input port setting

	Welcome ¥	Divited lower Dark Sattings is used to configure the perspectance of A dividal input parts
	Server Connection 🛛 🕹	Digital input rott settings is used to comigure the parameters of 4 digital input poils.
	Device Configuration ×	🗖 Digital Input Settings
	Position Related Report 🛛 🕹	Innut 1 Innut 2
	Alarm Settings 🛛 🕹	
	IO Application 🔶	Sample Penod: 0 x2 seconds Enable This input
	Digital Output Port Settings	
	Analog Input Port Settings	Input 3 Input 4
Step_1	Digital Input Port Settings	Enable This Input Sample Perind: 0 2 seconds
	Multi Analog Input Port Settings	Debounce Time: 0 2 ×50 ms Debounce Time: 0 2 ×50 ms Step_3
Step 2	Input/Output Port Binding	
Step_2		
	Other Settings 🛛 🖇	AT+GTDIS=gv200,1,0,0,2,0,0,3,0,0,4,0,0,,,,,,FFFF\$ Read Send Step_5

- Step_1: Select "*Digital Input Setting*", after that the parameters of GTDIS show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the Digital Input parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTDIS to GV200.



3.2.20. Set the parameters of multi analog input port

Welcome	×		
Server Connection	× Multi Analog Inpu	ut Port Settings is used to configure the parameters of multi analog inputs.	
Device Configuration	😮 📃 Analog Input 1 S	Settings	
Position Related Repor	¥ Mode:	Disable	
Alarm Settings	¥ Min Throshold:	250 May Thrachold 250 May	Step_4
IO Application			
Digital Output Port Set	ngs		
Analog Input Port Sett	Output ID:		
Digital Input Port Setti	Duration:	0 文 x100ms	
Multi Analog Input Por	Toggle Times:	0.	
Input/Output Port Bind	I <u>d</u> Sync with FRI		Step_3
]			
Other Settings	AI+GIMAI=	gv200,1,0,250,250,0,,0,0,0,0,0,2,0,250,250,0,,0,0,0,0	Step_5
Welcome	× Multi Analog Inp	and Port Settings is used to configure the parameters of multi analog inputs	T
Server Connection	*	ta reactinge to accure comingere are parametere of main analog inpate.	
Device Configuration	Analog Input 2 S	Settings	
Position Related Report	Mode:	Disable	
Alarm Settings	Min Threshold	250 May Thrashold: 250 my	Step_
10 Application	Samnle Rate:	0 \$ senning	
Digital Output Port Se	ings Output ID:		-
Analog Input Port Set	105 Durption:		5
Digital Input Port Setti	as Toggio Timos:		
Multi Analog Input Pol	Settings		
Input/Output Port Bind	ng		
	Analog Input 3 S	Settings	4
Other Settings	× AT+GTMAL	av 200 1 0 250 250 0 0 0 0 0 0 2 0 250 250 0 0 0	
		3,200, 1,0,200,200,0,0,0,0,0,0,0,0,200,200,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	
Welcome	Multi Analog Inp	att Port Settings is used to configure the parameters of multi analog inputs.	
Welcome Server Connection			
Welcome Server Connection Device Configuration			
Welcome Server Connection Device Configuration Position Related Repor	Source with Provide Pr	Settings	T.
Welcome Server Connection Device Configuration Position Related Report Alarm Settings	Sync warr N Analog Input 3 S Mode:	Settings	
Welcome Server Connection Device Configuration Position Related Report Alarm Settings	 Sync warr R Sync warr R Analog Input 3 S Mode: Node: 	Settings	
Welcome Server Connection Device Configuration Position Related Report Alarm Settings 10 Application	Sync warr R Sync warr R Mode: Min Threshold:	Disable 250 mV Max Threshold: 250 mV	
Welcome Server Connection Device Configuration Position Related Report Alarm Settings IO Application Digital Output Port Set Analog Input Port Set	× Sync warr R × Mode: × Mode: 1005 × Sample Rate: 105	Settings Disable 250 mV Max Threshold: 250 mV 0 x2 seconds	Step_7
Welcome Server Connection Device Configuration Position Related Report Alarm Settings IO Application Digital Output Port Set Digital Input Port Set Digital Input Port Set	Sync wur PR Sync wur PR Sync wur PR Analog Input 3 S Mode: Min Threshold: ings Sample Rate: 12S Output ID: 2S	Settings Disable 250 mV Max Threshold: 250 mV 0 x2 seconds 0 v Output Active	Step_7
Welcome Server Connection Device Configuration Position Related Report Alarm Settings IO Application Digital Output Port Setted Digital Input Port Setted Multi Analog Input Port Setted Multi Analog Input Port Setted	 Sync wurr R Sync wurr R Sync wurr R Analog Input 3 S Mode: Mode: Min Threshold: Inds Sample Rate: Output ID: Output ID: Output ID: Output ID: Output ID: 	Eettings Disable 250 mV Max Threshold: 250 mV 0 x2 seconds 0 Output Active 0 x100ms	Step_7
Welcome Server Connection Device Configuration Position Related Report Alarm Settings IO Application Digital Output Port Setting Digital Input Port Setting Multi Analog Input Port Setting Input/Output Port Bing	× Sync warr R × Analog Input 3 S Mode: Min Threshold: ings Sample Rate: us Output ID: gs Duration: Settings 10	Settings Disable 250 mV Max Threshold: 250 mV Max Threshold: 250 mV Max Threshold: 250 mV Max Threshold: 250 mV 0 x2 seconds 0 0 x100ms 0	Step_7
Welcome Server Connection Device Configuration Position Related Report Alarm Settings IO Application Digital Output Port Set Analog Input Port Set Digital Input Port Set Multi Analog Input Port Set Input/Output Port Bing	Sync with FR	Settings Disable 250 mV Max Threshold: 250 mV 0 x2 seconds 0 0 0 0utput Active 0 x100ms 0 0	Step_7



- Step_1: Select "Multi Analog Input Port Setting", after that the parameters of GTMAI show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the Multi Analog Input Port1 parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTMAI to GV200.
- **Step_6:** Set the Multi Analog Input Port2 parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- **Step_7:** Set the Multi Analog Input Port3 parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.

3.2.21. Set the parameters of input/output port binding

	Welcome	¥	Input/Output Port B	vinu is used to configure the specific output not action triggered by input note		1	
	Server Connection	*	input cutput i or to	wing to accure configure the opecine output port action inggered by input porto.			
	Device Configuration	¥	Input/Output Bindin	Settings			
	Position Related Report	¥	IOB ID:	0			
	Alarm Settings	¥	Input Settings	Output Settings			Store 4
	IO Application	*	Input Mask:	digital input 1 digital input 3 Output ID: 0	v		Step_4
	Digital Output Port Settings			digital input 2 digital input 4 Duration: 0	🔹 x100ms		
	Analog Input Port Settings		Trigger Mask:	digital input 1 digital input 3 Toggle Times: 0	A V		
	Digital Input Port Settings		o vel De Sel	Output Active			
	Multi Analog Input Port Settings		Sample Period:	v xz seconas			St 2
Step_1	Input/Output Port Binding					ſ	Step_3
Step_2	Uther Settings	¥	AT+GTIOB=gv	200,0,0,0,0,0,0,0,,,,,,FFFF\$	Read Send	/ -	Step_5

- **Step_1:** Select "*Input/Output Port Setting*", after that the parameters of GTIOB show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200



through SMS or GPRS.

- **Step_3:** It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the Input/Output port parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTIOB to GV200.

3.2.22. Set the parameters of voice monitoring

	Welcome ¥	Voice Monitor is used to s	at stealthy voice monitoring	
	Server Connection *		Notestal i folde mentering.	
	Device Configuration 🛛 😵	Stealthy Settings		
	Position Related Report 🛛 🕹	Mode:	Disable stealthy voice monitoring	
	Alarm Settings 🛛 🕹	Stealthy Phone Number:	1111111111	
	10 Application ×	Stealthy Microphone:	5 🗘 Volume	Step_4
	Other Settings 🛛 🛠	Stealthy Speaker:	3 Volume	
Step 1	Voice Monitor			
	Hour Meter Counter Hour Meter Counter White Call List Configuration Button Call Setting Real Time Operation	10		
				Step_3
Step_2		AT+GTMON=av200	0.111111111115.3 FFFF\$ Read Gend	Step_5
		ATTOTMON-97200	,o, titititititi, o, o,,,,, tititi q	

- **Step_1:** Select "*Voice Monitor*", after that the parameters of GTMON show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the voice monitor parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTMON to GV200.





3.2.23. Set the parameters of second serial port

	Welcome ¥			
	Server Connection ¥	Second Serial Port Setting	is used to connect with external devices to extend the application of the device.	
	Device Configuration 🛛 🕹	🖬 Main Settings		
	Position Related Report 🛛 🕹			
	Alarm Settings 🛛 🕹 🕹	Working Mode:	0: Disable UART2.	
	IO Application 🛛 🕹			
	Other Settings 🎄	Baudrate Index:	12 - 115200 Data Bits: 8	- Step_4
	Voice Monitor	Parity Bits:	0: None Parity. 🗸 Stop Bits: 1	-
Step_1	Second Serial Port Setting			Stop 2
	Transparent Data Transmission	Input ID of Wakeup:	0: Do not use digital input to wakeup the device.	step_2
	Hour Meter Counter White Call List Configuration			Step_3
	Button Call Setting			
	Real Time Operation	AT+GTURT=gv200,	0,12,8,1,0,0,0,,,FFFF\$ Read Send	- Step_5

- **Step_1:** Select "Second Serial Port Setting", after that the parameters of GTURT show in Command Operation Space.
- Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the second serial port parameters. Please refer to "*GV200* @*Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTURT to GV200.



3.2.24. Set the parameters of transparent data transmission

Welcome	*	Transnarout Data Tra	memiccian is used to transfer data between	the backend conver and the equin	ment connected to ur	hit	1	
Server Connection	*	Transparent Data Tra	institusation is used to transfer data between	The backend server and the equip	inent connected to dr	n.		
Device Configuration	×	Main Settings						
Position Related Report	¥	Command Type:	Send the data to the backend server	~				
Alarm Settings	×	Data (ASCII Code):						
10 Application	×						-	Step_3
Other Settings	*							-
Voice Monitor			-					
Transparent Data Transmiss	<u>sion</u>							
Hour Weter Counter								
White Call List Configuration							<u> </u>	Step 2
Button Call Setting								Step_2
Real Time Operation								
								Step 4
		AT+GTDAT=gv	200.0FFFF\$		Read	Send	1	

- Step_1: Select "*transparent data transmission*", after that the parameters of GTDAT show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- **Step_3:** Set the transparent data transmission parameters. Please refer to "GV200 @Track Air *Interface Protocol*" for the meaning of each parameter.
- Step_4: Click the "Send" button; download the parameters of GTDAT to GV200.

3.2.25. Set the parameters of hour meter counter

	Welcome	*			
	Server Connection	¥	Hour Meter Counter is used to count time spent when ignition on.		
	Device Configuration	×	Basic Settings		
	Position Related Report	×	Enable Hour Meter		
	Alarm Settings	¥	Initial Hour Meter Count. HHHHH:MM:SS (00000:00:00-99999:00:00)		Step_4
	10 Application	¥		<u>_</u> /	
	Other Settings	*			
	Voice Monitor				
	Transparent Data Transmiss	ion			
tep_1	Hour Meter Counter				Stop 2
	White Call List Configuration				Step_2
	Button Call Setting				
	Real Time Operation				Step_3
			AT+GTHMC=gv200,0,,,,,,,FFFF\$ Read Send		Step_5

Step_1: Select "Hour Meter Counter", after that the parameters of GTHMC show in Command

S



Operation Space.

- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the hour meter counter parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTHMC to GV200.

3.2.26. Set the parameters of white list

	Welcome	*
	Server Connection	White Call List Configuration is used to set while call list table.
	Device Configuration	🗴 🖃 Main Settings
	Position Related Report	Call Filter. Mnite list for location ky call
	Alarm Settings	× Step 4
	10 Application	Mobile Start: 1 S Mobile End: 1 S
	Other Settings	White number list
	Voice Monitor	1: 6:
	Transparent Data Transmission	2:
	Hour Meter Counter	3:
tep_1	White Call List Configuration	4: Step 2
	Button Call Setting	5: 10:
	Real Time Operation	
		Step_3
		AT+GTWLT=gv200,1,1,1,,,,,,FFFF\$ Read Send Step_5

- Step_1: Select "White Call List Configuration", after that the parameters of GTWLT show in Command Operation Space.
- **Step_2:** The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- **Step_3:** It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the white call list parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.



Step_5: Click the "Send" button; download the parameters of GTWLT to GV200.

	Welcome ×	
	Server Connection 🛛 🕹	Button Call Setting is used to pre-set phone numbers to digital input 2, 3 and 4.
	Device Configuration ×	Ain Settings
	Position Related Report 🛛 🕹	Fnable Innut ID2 Phone Number Microphone 0
	Alarm Settings 🛛 🕹	Enable (nutling) Dhane Number Sneaker 0 Step_4
	10 Application ×	
	Other Settings 🔷	
Step_1	Voice Monitor Transparent Data Transmission Hour Meter Counter White Call List Configuration Button Call Setting	Output Settings Output ID: 0 Duration: 0 x100ms Toggle Times: 0 Step_2
	Real Time Operation	Step_3
		AT+GTBCS=gv200,0,,0,,0,0,0,0,0,0,0,0,,,,,,FFFF\$ Read Send Step_5

3.2.27. Set the parameters of button call

- Step_1: Select "*Button Call Setting*", after that the parameters of GTBCS show in Command Operation Space.
- Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- Step_3: It is recommended to read the parameters from GV200 and edit based on them.
- **Step_4:** Set the button call parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_5: Click the "Send" button; download the parameters of GTBCS to GV200.



3.2.28. Set the parameters of real time operation

Welcome	*	Pool Time Operatio	an is used to obtain energific informat	ion from unit or drive it to initiate or	acified actions		1	
Server Connection	¥	riedi filme Operatio	n is used to optain specific informa	ion noni unit of drive it to initiate sp	ecilieu aciions.			
Device Configuration	¥	Basic Settings						
Position Related Report	¥	Sub Command:	Get the GPS related information v	ia message		*		Step_3
Alarm Settings	*						ľ	
10 Application	×							
Other Settings	*							
Voice Monitor								
Transparent Data Transmiss	ion							
Hour Meter Counter								Step 2
Real Time Operation								
	-						l i	
		AT+GTRTO=	av200.0 FEEE\$		Baal	Send		Step_4
		in on o	στ-σσ19111111 τ τ τ Ψ		morau	oond	J L	

- Step_1: Select "*Real Time Operation*", after that the parameters of GTRTO show in Command Operation Space.
- Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.
- **Step_3:** Set the real time operation parameters. Please refer to "*GV200 @Track Air Interface Protocol*" for the meaning of each parameter.
- Step_4: Click the "Send" button; download the parameters of GTRTO to GV200.

Step_1



3.3. Read/Save All Configuration

Step_1: It is recommended to read all configurations from device before save the configuration. Select "*Read All Configuration*" \rightarrow "*Read From Device*".

🖉 Read All Configuration 👻	💼 Send All C
Read From Device	
Load Configuration Fro	om File

Step_2: After read successfully, click "Save All Configuration" in toolbar.

Save All Configuration

Irganize 🔻 New fold	er			•
Downloads	Name		Date modified 2011/8/18 11:20	Type File folder
Libraries Documents Music Pictures Videos				
Computer				
	*	m		
File <u>n</u> ame: GV20 Save as <u>t</u> ype: Confi	0 config file			

Step_3: Select a folder, and key in the name of configuration file, then click "Save" button.

Step_4: Save successfully.









3.4. Load/Send All Configuration

Step_1: Before send all configurations, please load the configuration file or set all parameters in commands. To load configuration file, please select "*Read All Configuration*" \rightarrow " *Load Configurations From File*". And then select the configuration file you needed.

)rganize 👻 New fold	ler			# • 🗖 🤅
Favorites	Name		Date modified	Туре
E Desktop	🃙 Config		2011/8/18 11:20	File folder
📕 Downloads 📃	12		2011/8/29 10:56	GV200 File
🔄 Recent Places				
J Libraries				
Documents				
Music				
Pictures				
Videos				
Videos				
Videos				
 Videos Computer Local Disk (C:) 				
Computer Local Disk (C:)		m		
 Videos Computer Local Disk (C:) Work (D:) File <u>r</u> 	All ame: 12	111	✓ Config File	
 Videos Computer Local Disk (C;) Work (D;) File <u>r</u> 	Mame: 12	.10	✓ Config File	Cancel
Computer Local Disk (C:) Work (D:) File <u>r</u>	name: 12	m	 ✓ Config File Open 	Cancel
 Videos Computer Local Disk (C:) Work (D:) File <u>r</u> 	name: 12	m	 ✓ Config File Open 	- Cancel
Computer Local Disk (C:) Work (D:) File <u>r</u>	e I2	11	✓ Config File Open	Cancel

Step_2: You can set the parameters in commands base on the configuration file, and then click *"Send All Configuration"* in toolbar.

OK

Send All Configuration

Step_3: Manage Tool will send all commands to device.