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1 Application Range

- The manual apply for 401 GPS products;
- The menu describes the details of GPS specification, data and operates instruction.

2 Refers Standard

- Navigation software operation standard

3 Products Description

- 4” high clearness TFT display, display resolution 480*272

- Double track earphone port, inside hi-fi 1W speaker, volume adjustable
- Key press + touch panel operation
- Inside high sensitivity SIRF STAR III GPS receiving module
- Inside GPS antenna and can connect outside antenna.
- Can run GPS software in SD card,(support 4 digital middle, high speed SD card)
- Play mp3, mp4 and other similar files
- Inside single lithium battery that can be recharged through outside DC12V power or directly use power from car cigarette fire.
- Double display systems, support both LCD and CVBS output (upgrade optional)
- Video format: asf, avi, mp4, wmv
- Audio format: mp3, wav, mid
- View photos format: BMP, JPG, PNG, GIF
- Text format: TXT
- May inside 3.7V lithium battery that be recharged through outside DC12V power or directly use power from car cigarette fire

- Double color indicator: one is battery rechargeable indicator. When is recharging, the red indicator on, after full, the red off and the green on.

菜单
正北
车向西北
地图十
地图一
导航音量
隐藏
开始导航
多路线
其它
起点
回目的地
返回
设置
(有信号) 当前地
未知地名
VOL+
VOL-

4 Product Details Specification

Environment Parameters	
Size	146mm(L)*74mm（W）*22mm（H）
Operate temperature range	-10℃ to +70℃
Storage temperature range	-40℃ to +80℃
Operate humidity range	45% to 80%RH
Storage humidity range	30% to 90%RH
Atmospheric pressure	860MBar to 1060Mbar

System Parameters	
Main frequency	400MHZ
CMOS Chip	SAMSUNG S3C2440A-40
EMS memory	128MB

Storage Space	128MB
Navigation software storage	SD card or inside NAND FLASH
Operating system	WINCE 4.2 NET
Software translate & edit type	ARMV4

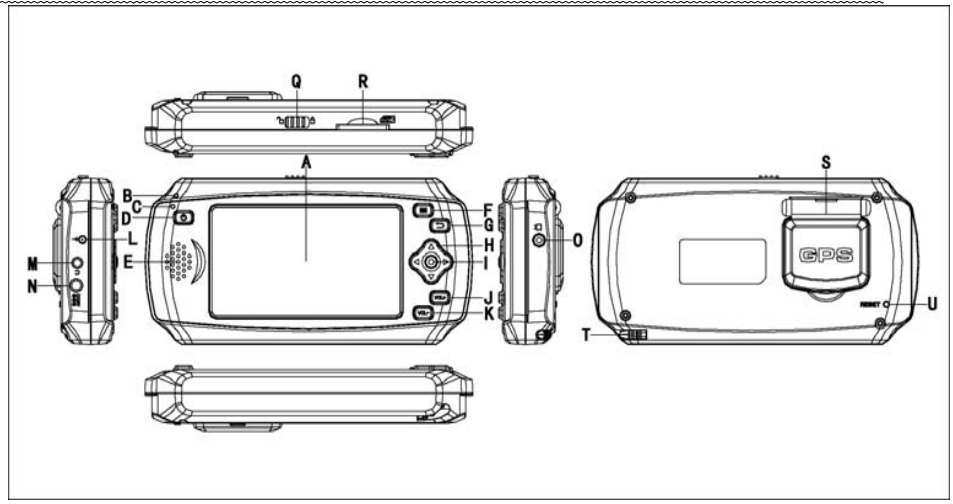
Basic parameters	
Video output type	CVBS, NTSC
Video output voltage	1.0Vpp/75Ω
Display screen size	4inch
Display resolution	480*272
Sound output	Mixed track CD tone
Sound power	Earphone double track 0.25W/CHANEL, Single Channel 8Ω/1W

Average power estimation	1.5W
Standby power estimation	<20mW
Input DC voltage	9 ~ 28V
Battery	Inside rechargeable 1240mAH lithium battery (or depend on customer)
Battery running time	Normally up to 4 hours, standby up to 350 hours

GPS Parameters	
Chip	SIRF Star III
Frequency	1.575GHZ
C/A CODE	1.023 MHZ chip rate
Channels	20 CHs
Tracking sensitivity	-159dBm

Positioning precision	10m, 2D RMS 5m, 2D RMS, WAAS enable
Speed	0.1m/s
Data update ratio	1HZ
Re-capture time	Average 0.1s
Hot start time	Average 1s
Warm start time	Average 38s
Cold start time	Average 42s
Position height max	18,000m
Speed max	515m/s
Acceleration	< 4g
Internal antenna type	Internal active ceramic antenna

Internal antenna gain	27dB
Internal antenna voltage	3.3V±5%
Internal antenna currency	15mA
External antenna port	MMCX
External antenna voltage	3.3V±5%
External antenna gain	27dB
External antenna currency	15mA



5 Function key & port definition

Mark	Description	Mark	Description
A	4”TFT display	D	“POWER” Long press (3 seconds) to ON/OFF Short press to Sleep or Wakeup
B	Recharging indicator (Red) on	E	Speaker sound port
C	Battery recharging full, and indicator (Green) on	F	“MENU”
G	“RETURN”	N	Recharge power input port DC12V±10%/1000mA
H	Up, down, left, right button	O	CVBS/LINE output socket
I	Confirm	Q	Operate lock

J	Volume up	R	SD card socket
K	Volume down	S	Turn over antenna
L	External antenna socket	T	Touch pen groove
M	Stereo earphone socket	U	Reset hole

6 GPS Accessories List

- GPS: 1 set
- Car transfer DC(∅4.0mm): 1pcs and 100 to 220V input DC12Voutput charger: 1pcs

- GPS bracket

7 Operation Instruction：

7.1 Power ON/OFF Operation Instruction：

ON: long press“**POWER**”（C）more than 3 seconds.

At working status, press“**POWER**”（C），the system enter save power model. press“**POWER**”（C） once again，return normal within 1 second and working indicator (U) OFF。

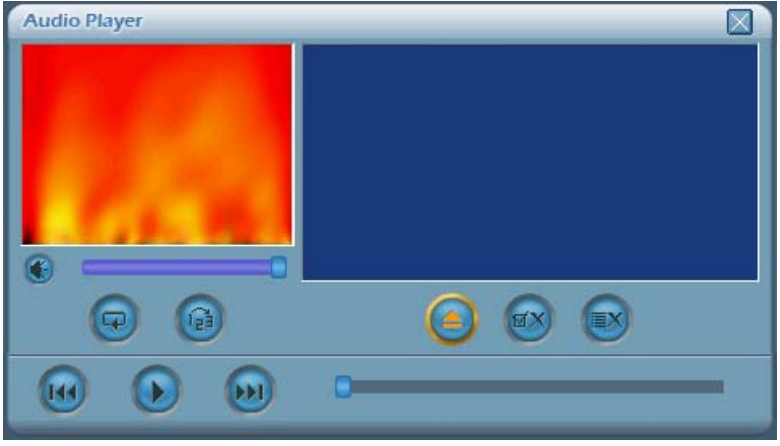
OFF: At ON status, long press “**POWER**”（C） more than 3 seconds to OFF and the working indicator（U）OFF.

Put the car lighter output DC pin (or other DC12V power) insert DC socket, GPS will display LOGO and loading cursor, will enter control interface after 6 seconds. There are 6 icon models and details as below picture:

7.2 Audio Player Operation Instruction:

- In main control interface as below picture:

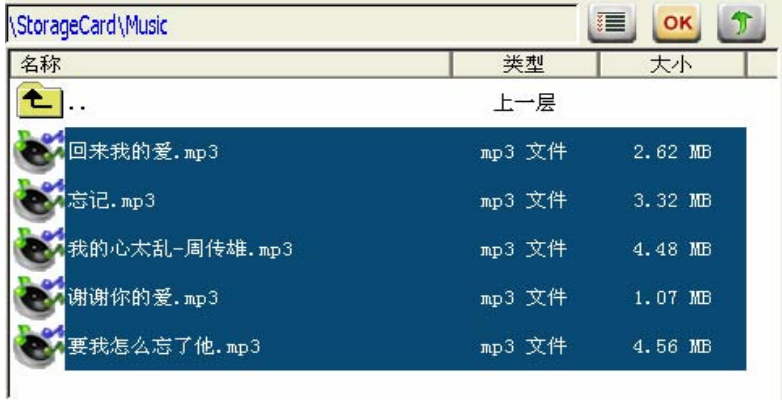
Click“ ”icon to enter audio player interface as below picture:



Click “ ”icon to select audio files path as below picture：

Select the file you want to play and single click“OK”icon or double click the file back audio player interface as below picture:

Single click“ ”icon can select all files as below picture:



Single click "OK"icon to back audio player interface:

Single click“”icon to continue add audio files，and single“”icon to back audio player interface。

Single click“”icon to play music；or direct double click the file as below picture：

The others icons function as below：

Single click“ ”icon to pause;

Single click“ ”icon to select next audio file;

Single click“ ”icon to select previous file;

Single click“ ”icon to cycle playing one song;

Single click“ ”icon to random play；

Single click“ ”icon to set speaker volume normal；

Single click“ ”icon to mute speaker；

Single click“ ”icon to cancel the selected files;

Single click“ ”icon to cancel all files;

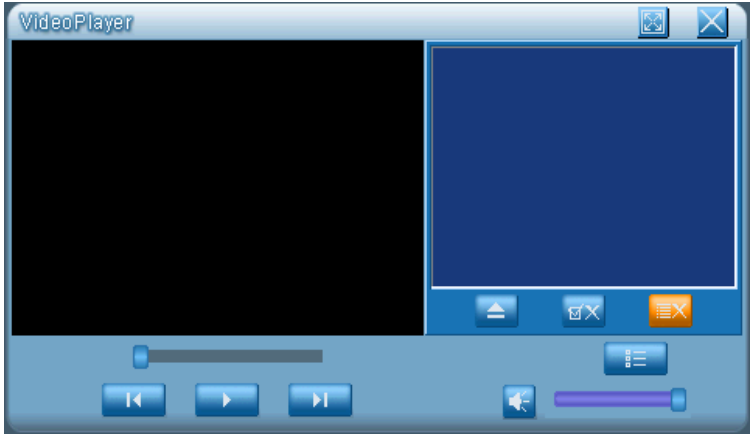
Single click“ ”to exit audio player interface.

Click “the volume status line” and “Play schedule line” to adjust freely

7.3 Video Player Operation Instruction：

- In main control interface as below:

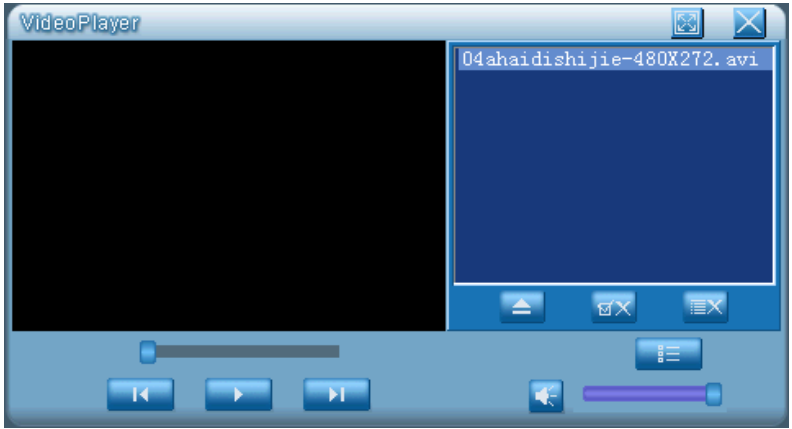
Click“ ”icon to enter video player interface as below picture:



Click“ ”icon to select the video files path and enter as below picture:

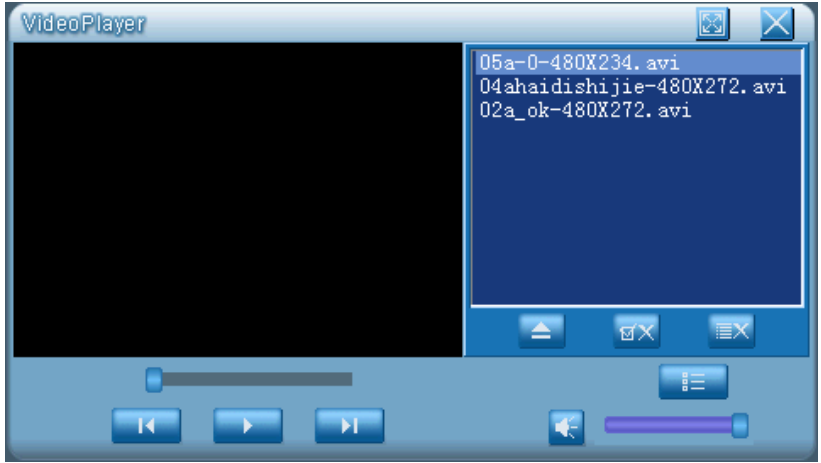
Select the video files want to play and single click“OK”icon or directly double click file name to back video player interface as

below picture：



or double click“ ”icon to select all:

Single click“ ”icon to back video player interface picture：



Single click“ ”icon to continue add video files or single click“ ”icon to back video player interface。

Single click“ ”icon to play video；Also can double click file name to play directly as below picture:

Single click“ ”icon to wider screen as below picture:

Single click“ ”icon to full screen as below picture:

The others icons functions as below:

Single click“ ”to mute；

Single click“ ”to normal speaker sound；

Single click“ ”to select next video file；

Single click“ ”to select previous file；

Single click“ ”to cancel the selected file；

Single click“ ”to cancel all files；

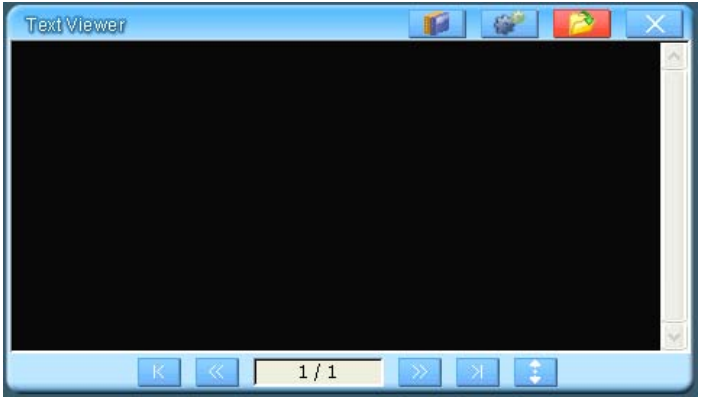
Single click“ ”to exit video player interface.

Click “the volume status line” and “Play schedule line” to adjust freely.

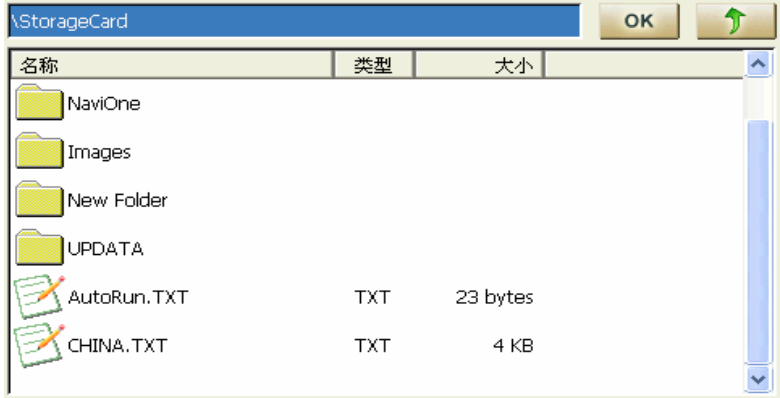
7.4 Text Viewer Operation Instruction：

◆ In main control interface as below picture：

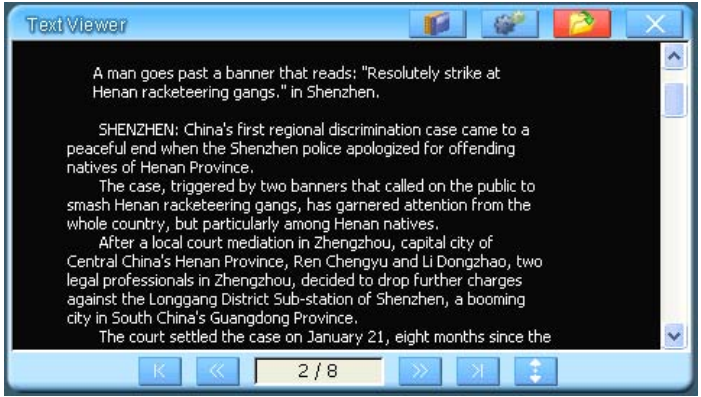
Click text viewer“ ”icon to enter viewer interface as below picture：



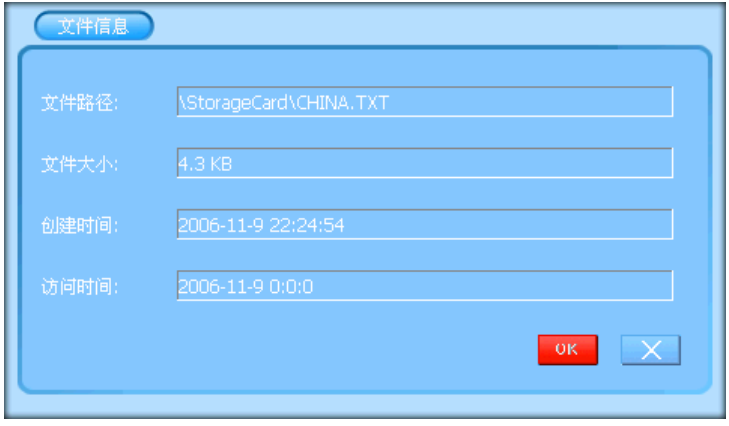
1、Click top“ ” icon to select the text path as below picture：



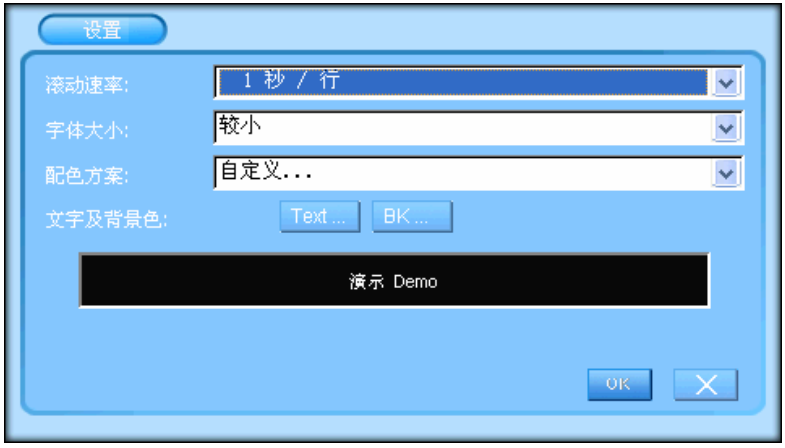
2、Select the file you want and single click “OK”or double click file name to back“TextViewer”infterface as below picture：



3、Single click“ ”icon to show text details as file size、establish date, visit date and etc.



4、Single click“ ”icon to set text rolling speed, font size, color setting, words and background color as below picture：



The others icon functions as below：

Single click“ ”icon to home page；

Single click“ ”icon to end page；

Single click“ ”icon to turn to previous page；

Single click“ ”icon to turn to next page；

Single click“ ”icon to setting auto rolling screen page；

Single click“ ”icon to exit“Text Viewer” interface；

7.5 Image Viewer Operation Instruction：

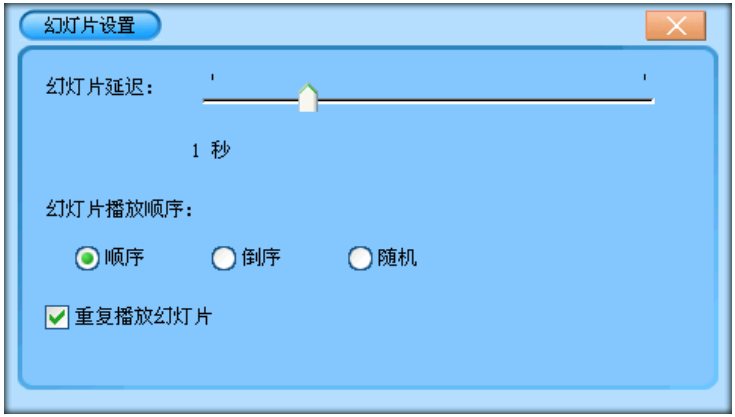
◆ In main control interface as below picture：

Click “ ”icon to enter image viewer interface as below：

Image Viewer
1:1

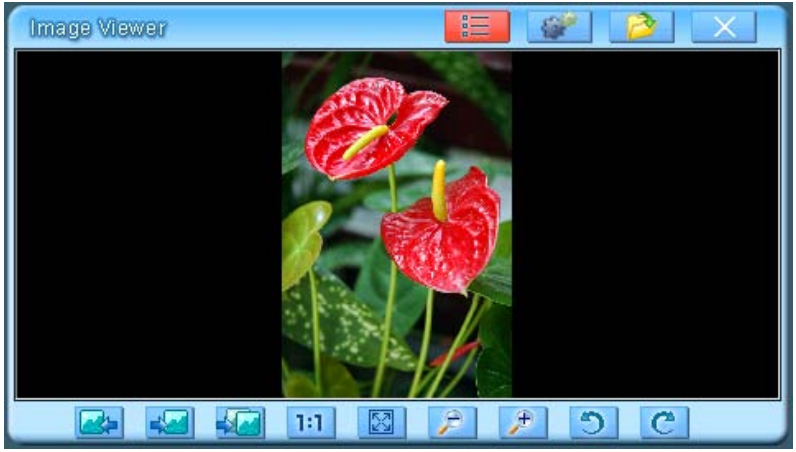
1、Click“ ” icon to enter image property which show file path, size, image height, width, color and others information as below：

2、Click“ ” icon to set up flash delay, play sequence、replay and others as below:



3、Click“ ” icon to select image file path ：

Select the image want to view and single click“OK”icon, or double click file name to back“Image Viewer”：



The others icons functions as below：

Single click“ ”icon to view previous image；

Single click“ ”icon to view next image；

Single click“ ”icon to enter flash viewing model；

Single click“ ”icon to show actual pixel；

Single click“ ”icon to zoom out image;

Single click“”icon to zoom in image;

Single click“ ”to counterclockwise rotate 90 degree;

Single click“”to clockwise rotate 90degree;

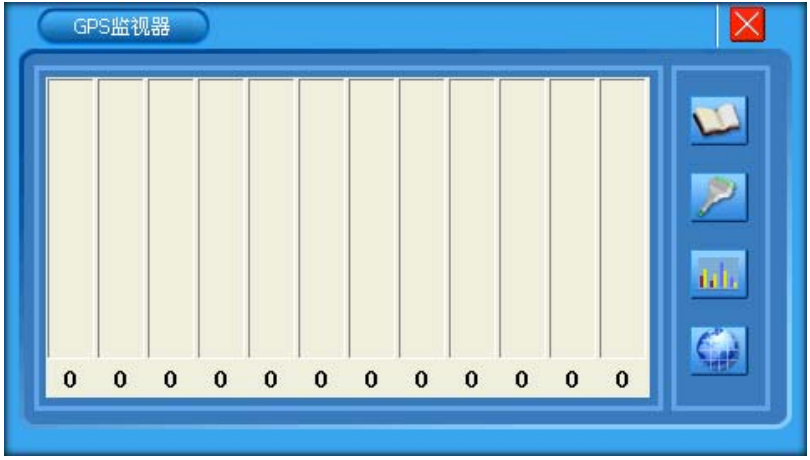
Single click“ ”to exit“Image Viewer” interface；

7.6 GPS Monitor Operation Instruction

◆ In main control interface as below picture：

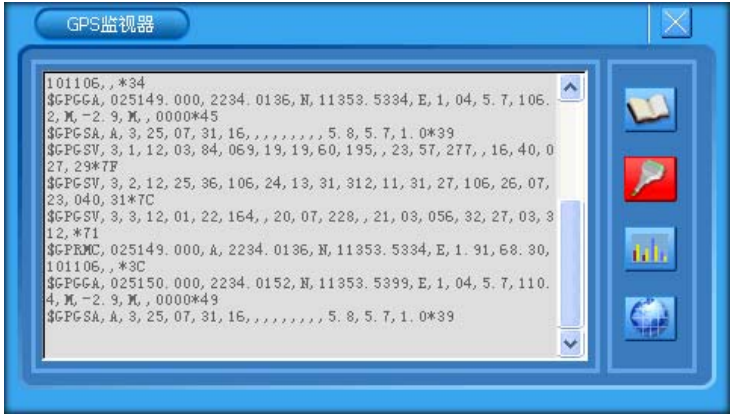
◆ Click“ ”icon to enter option interface, there are 8 icons as below:：

◆ Click GPS Monitor“ ” icon to enter as below：

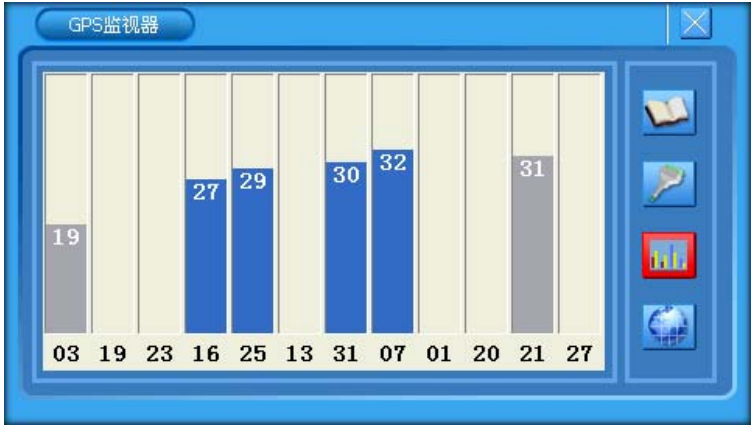


1、Click right“ ” icon to enter menu description interface as below：

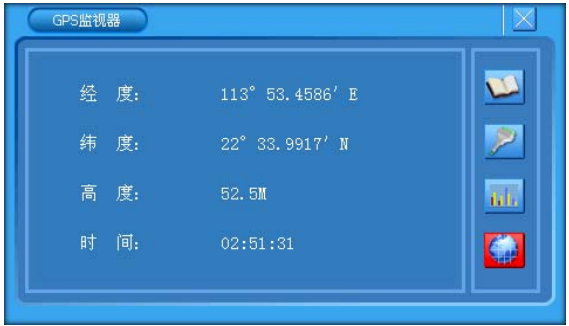
2、Click right“ ” icon to enter satellite data stream interface as below：



3、Click right“ ” icon to enter satellite stream and signal interface as below：



4、Click right“ ” icon to enter longitude, latitude and time interface as below：



After get relevant information, click“ ”icon to back system control interface。

Remark: when testing GPS monitor, please choose one open place otherwise can’t receiving satellite signal data.

7.7 Language Setting Operation Instruction：

- In system control menu as below：

◆ Click“”icon to enter language setting interface and the click“”icon as below：

After set up your favors language, click “ OK ”icon to back system setting interface；

7.8 Brightness Setting Operation Instruction：

◆ In system setting interface as below：

◆ Click“ ”icon to enter brightness setting interface：

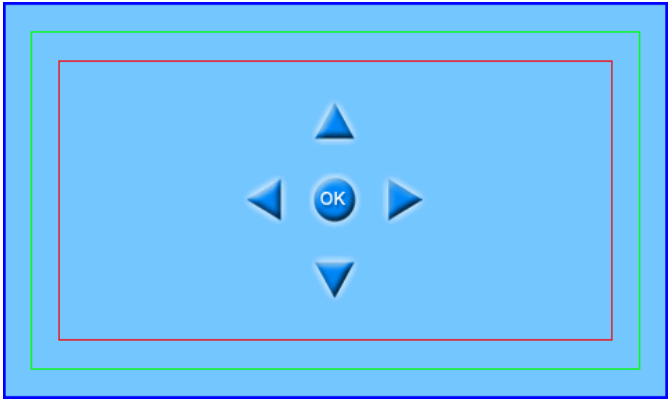
After set up brightness, auto off time ,click“ ”icon to back system setting interface；

- In system setting interface, click“ ”icon to enter touch screen rectify setting interface. According to prompt to press center cursor position to rectify until the cursor move to up left position. In turn to rectify down left, up right, up right cursor position. If it is not OK, will auto back re-rectify interface. If the screen show “OK”, click any screen point to save and exit rectify interface. After finish touch cursor rectify, the system will remember and keep no need to adjust every time, even no battery.

7.9 Screen Adjustment Operation:

- In system setting interface：

- Click“ ”icon to adjust screen:



Click up/ down/left/right to adjust AV OUT screen. Click“ ”icon to back system setting interface.

7.10 Volume Adjustment Operation

- In system setting interface as below：

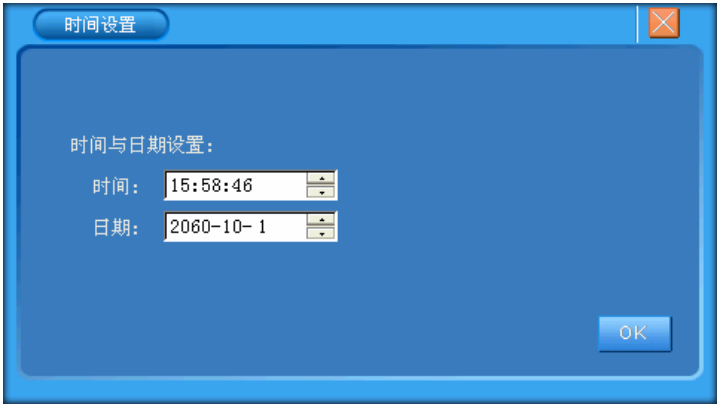
- Click“ ”icon to enter volume adjust interface:

After set up system volume, mute, key and touch volume model, click“ OK ”icon to back system setting interface；

7.11 Time Setting Operation

- In system setting interface as below:

- Click“ ”icon to enter time setting interface as below:



First click what need to change and then press up/down to set up time and date, click“OK”icon to back system setting interface。

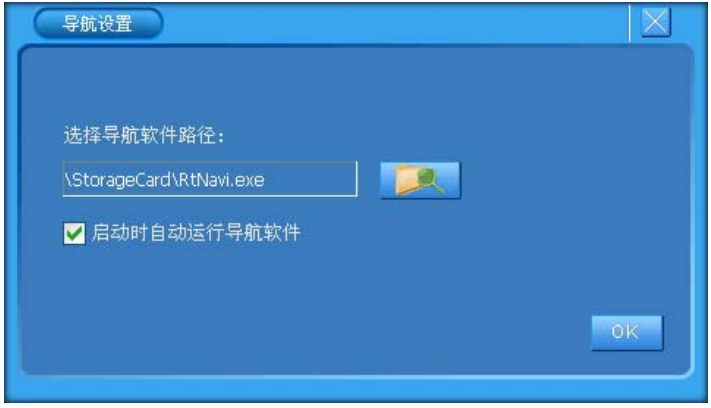
7.12 Running GPS navigation software operation instruction:

◆ Insert SD card with navigation software inside, in control menu interface：

Click“ ”icon to enter system setting interface as below：

设置
导航设置
GPS 监视器
语言设置
亮度设置
触摸屏校正
屏幕调整
音量调节
时间设置

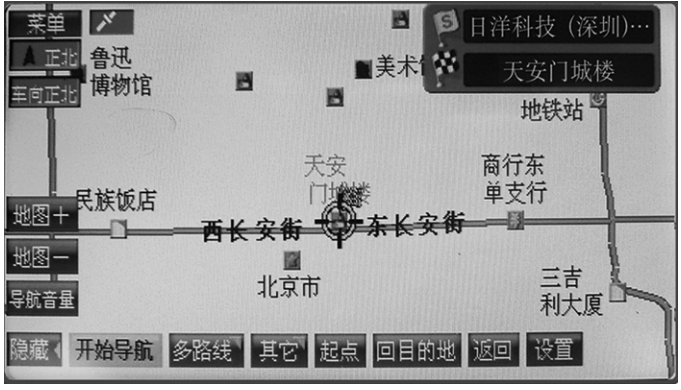
Select navigation setting“ ”icon as below：



Click“ ”icon to enter as below：

According to the navigation save path（can re-select“auto run when start”）to select navigation software, click“OK”to exit and back control menu interface as below：

Select navigation“ ”icon to enter navigation interface. For soft operation details, please refer to its operation instruction



7.13 Indicator Description

- Blue indicator means the system is running and keeping on at normal running status.
- Red indicator is lithium battery recharging indicator and keeping on until the battery is full. And then turn to green.

7.14 Key Function Description

- At Map soft, audio player, video player status, press“**MENU**” to back main control interface
- Long press“**POWER**”（3 seconds）to ON/OFF navigator， Short press“**POWER**”to enter or wake up“**SLEEP**”status
- Press“**UP，DOWN，LEFT，RIGHT**”to select direction；
- Press“**VOL＋/－**”to adjust volume

- Press**“RETURN”**to back previous operate menu
- Press“**RESET**”to re-set system；

8 Attention

- Avoid to stock it at high temperature, humidity, dirty place
- Avoid being damage by out force at transportation stage.
- Place GPS antenna evenly and face the sky
- If your car install metal protects film, please insert external GPS antenna and place out of car.
- All icon frames are orange and the whole icon will be change to Orange after be selected.

9 Simple Trouble Shootings

Problem	Reason	Solution
Fail to on power	Long time no to use Car charger connect bad	No power, battery need recharge Check the cable connect well or damage
No signal	Not at open place	Please at open and no shelter place
Battery consumer too fast	Operating temperature too low Used battery dose not accord with requires or battery aging	Avoid to operating at higher or lower temperature environment Change battery or use car charger
Can't enter navigation model	Please check navigation setting	Reset navigation path
Screen display not clear	TFT LCD display dirty	Clear TFT LCD screen

No sound	Sound setting low or mute	Reset sound data
Touch function informal	Touch panel setting poor	Rectify touch settings
Date/time display wrong		Resetting date/time
Key doesn’t work		press“RESET”and restart

We reserve the right to make changes and improvements to any of the products described in this document without prior notice. And shall not be held liable for errors contained in the manual. All necessary correct and update will add in new version manual.