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1 应用范围 Application Range

- 本手册适用于依路行 GG-G701 的导航成品；The manual apply for GG-G701 GPS products
- 本手册详细介绍了依路行导航产品的规格参数、使用说明。The manual describes the details of GPS specification, data and operates instruction.

2 引用标准 Refers Standard

- 导航软件操作标准 Navigation software operation standard

3 产品描述 Products Description

- 7 寸 TFT 高清晰显示, 显示分辨率为 480×234;7" high clearness TFT display, display resolution 480*234
- 双声道耳机接口, 内置高保真度 1W 扬声器，音量可调 Double track earphone port, inside hi-fi 1W speaker, volume adjustable
- 按键+触摸屏操作 Key press + touch panel operation
- 内置高灵敏度 SiRF STAR III GPS 接收模块 Inside high sensitivity SIRF STAR III GPS receiving module
- 内置 GPS 天线，并可外接天线 Internal GPS antenna and can connect external antenna.

#GPN-001 (GG-G701)

- 可直接运行 SD 卡的导航软件 Can run GPS software in SD card,
- 可支持播放 mp3, mp4*等播放文件 Play mp3, mp4 and other similar files
- 可支持 AV IN 视频输入功能 Support AV IN video input
- 视频播放器支持的文件格式：Asf, avi, mp4, wmv; Video format: Asf, avi, mp4, wmv
- 音频播放器支持的文件格式：Mp3, wav, mid; Audio format: mp3, wav, mid
- 看图软件支持：BMP, JPG, PNG, GIF; Image View format: BMP, JPG, PNG, GIF
- 文字浏览器支持：TXT; Text format: TXT
- 通过外部 DC12V 充电，也可直接接汽车点烟器 Recharge through outside DC12V or direct connect with car lighter.
- 可自动调整 LCD 屏显示亮度(选用)Auto adjust LCD display brightness optional

菜单
正北
当前正北
鲁迅
博物馆
美术馆
日洋科技（深圳）…
天安门城楼
地铁站
天安
门城楼
商行东
单支行
民族饭店
地图+
地图-
导航音量
西长安街
东长安街
北京市
三吉
利大厦
隐藏
开始导航
多路线
其它
起点
回目的地
返回
设置
POWER
AV
MENU
ESC
SETUP
VOL+
VOL-
AV IN

4 产品详细规格 Product Details Specification

环境参数 Environment Parameters	
产品外形尺寸 Size	210mm(长)*110mm（宽）*25.5mm（高） 210mm(L)*110mm（W）*25.5mm（H）
工作温度范围 Operate temperature range	-10℃ 到 +70℃ -10℃ to +70℃
存储温度范围 Storage temperature range	-40℃ 到 +80℃ -40℃ to +80℃
工作湿度范围 Operate humidity range	45% 到 80%RH 45% to 80%RH
存储湿度范围 Storage humidity range	30% 到 90%RH 30% to 90%RH
大气压力	860MBar ~ 1060Mbar

Atmospheric pressure	

系统参数 System Parameters	
主频 Main frequency	400MHZ
主芯片型号 CMOS Chip	SAMSUNG S3C2440A-40
内存 EMS memory	128MB
存储空间 Storage Space	128MB
导航软件存储 Navigation software storage	SD 卡或内置 NAND FLASH SD card or internal NAND FLASH
操作系统 Operating system	WINCE 4.2 NET
软件编译类型 Software translate & edit type	ARMV4

基本参数 Basic Parameters	
视频输出类型 Video output type	复合视频（CVBS）,PAL/NTSC 自动识别 Complex video (CVBS), PAL/NTSC auto identify
视频输出电压 Video output voltage	1.0Vpp/75 欧 1.0Vpp/75Ω
显示屏尺寸 Display screen size	7 寸 7 INCH
显示屏分辨率 Display resolution	480×234
声音输出 Sound output	混合声道 CD 音质 Mixed track CD tone
声音功率 Sound power	耳机双声道 0.25W/CHANEL, 单通道 1W Earphone double track 0.25W/CHANEL, Single Channel 1W
平均功耗 Average power	1.5W

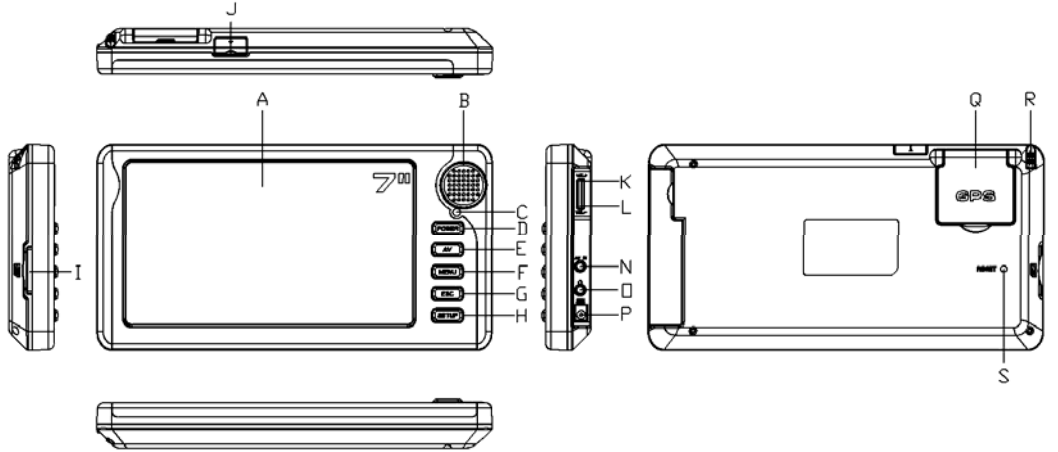
estimation	
待机功耗 Standby power estimation	24mW
DC 输入电压 Input DC voltage	DC 9V--28V

GPS 硬件参数 GPS Parameters	
芯片组 Chip	SiRF Star III
频率 Frequency	1.575GHZ
C/A CODE	1.023 MHZ chip rate
通道数 Channels	20 通道 20 CHs
跟踪灵敏度 Tracking sensitivity	-159dBm
定位精度 Positioning precision	10m, 2D RMS

	5m, 2D RMS, WAAS enable
数据更新率 Data update ratio	1HZ
重新捕获时间 Re-capture time	平均 0.1s Average 0.1s
热启动时间 Hot start time	平均 1s Average 1s
温启动时间 Warm start time	平均 38s Average 38s
冷启动时间 Cold start time	平均 42s Average 42s
最大定位高度 Position height max	18,000m
加速度 Acceleration	< 4g
内置天线类型 Internal antenna type	内置有源陶瓷天线 Internal active ceramic antenna
内置天线增益 Internal antenna gain	27dB

内置天线电压 Internal antenna voltage	3.3V±5%
内置天线电流 Internal antenna currency	15mA
外接天线接口 External antenna port	MMCX
外接天线电压 External antenna voltage	3.3V±5%
外接天线增益 External antenna gain	27dB
外接天线电流 External antenna currency	15mA

5 操作说明 Operation Instruction



标示 Mark	说明 Description	标示 Mark	说明 Description
A	7 英寸 TFT 显示屏 7 INCH TFT Display	D	“POWER”按钮 长按 3S 以上开关机 Long press 3 seconds to ON/OFF 短按休眠/唤醒 Short press sleep/wake up
B	扬声器 Speaker	E	AV IN 功能键
C	显示屏亮度/感应器(选用) Display brightness/sensor (option)	F	“MENU”按钮
G	“RETURN”返回按钮	N	AV IN 输入接口 AV IN input
H	“SETUP”设置按钮	O	立体声耳机插座 Stereo earphone socket
I	SD 卡插槽 SD card groove	P	充电/供电电源输入 Power input

			DC12V±10%/1000mA
J	外接天线 external antenna	Q	GPS 天线 GPS antenna
K	音量旋钮 volume knob	R	触摸笔插槽 Touch pen groove
S	系统复位孔 System reset hole		

6 GPS 备附件列表 GPS Accessories List:

- GPS 成品机一台 GPS product 1 set
- 车充转 DC(¢4.0mm)线一条和 100~~~220V 转 DC12V 充电器一个 Car transfer charger DC cable 1pcs and 100-220V input, DV12V output charger 1pcs
- GPS 配套支架 GPS bracket

7 操作说明 Operation Instruction：

7.1 开/关机操作说明 Power ON/OFF Operation Instruction：

开机：长按“**POWER**”（D）按钮 3 秒以上，即可开机 ON: long press“**POWER**”（C） more than 3 seconds.

系统工作时按一下“**POWER**”（D）按钮，系统进入 SLEEP 模式，再按一下“**POWER**”（D）按钮，系统在 1S 内恢复 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。

关机：在开机状态下长按“POWER” （D）按钮三秒,系统进入关机状态 OFF: At ON status, long press “**POWER**”（C） more than 3 seconds to OFF and the working indicator（U）OFF.

将汽车点燃器输出接口转 DC 头(或其它 12V 电源供应器)插入 DC 座内， 导航器将显示 LOGO 并显示进度光标， 大约 6S 后系统自动进入控制台界面,共有 6 个图标模式,具体操作如下 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:

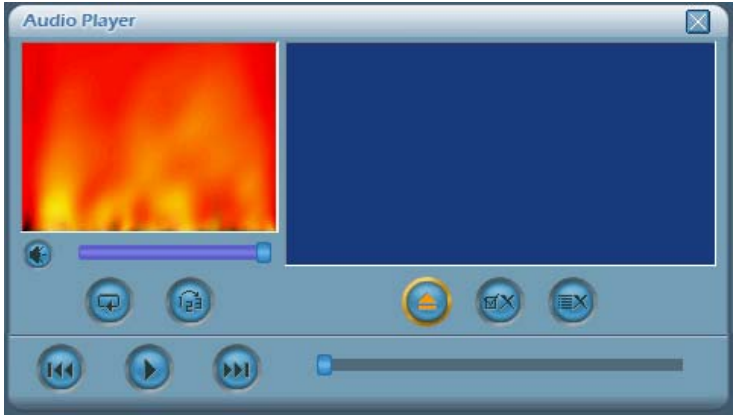
10:14:20
Console
Navigation
MusicPlayer
VideoPlayer
TextViewer
ImageViewer
Options

7.2 音乐播放器界面操作 Audio Player Operation Instruction：

◆ 在控制台界面，如下图 In main control interface as below picture:

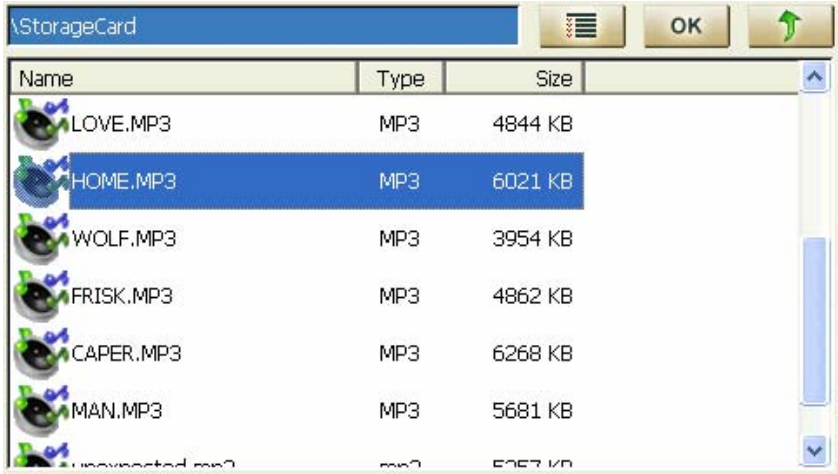
点击“ ”，图标进入音乐播放器主界面，如下图

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



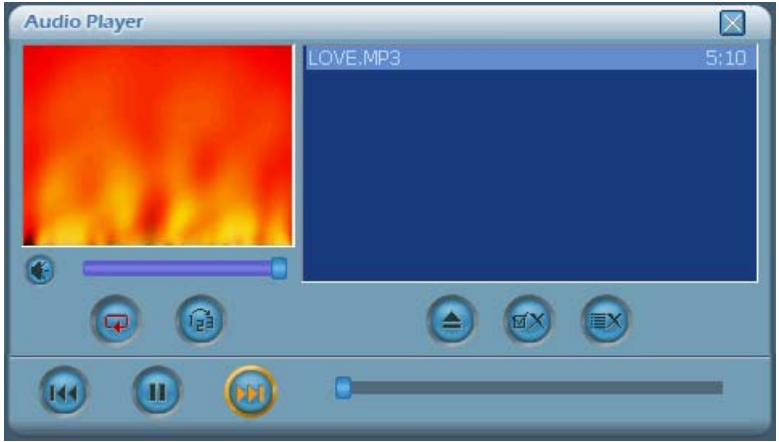
点击图标“ ”, 选择音频文件的存放路径，进入如下界面：

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



选中所要播放的音频文件,单击图标“OK”或双击文件名返回音乐播放器界面，如下图：

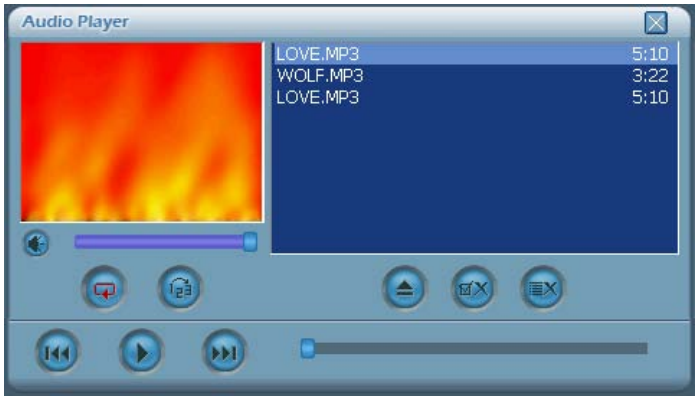
Select the file want to play and single click “ OK ” icon or double click the file back audio player interface as below picture:



单击图标“ ”可全选所有文件, 如下图：

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

单击图标“OK”返回音乐播放器界面：Single click “OK” icon to back audio player interface:



单击图标“ ”继续添加音频文件，单击图标“ ”则返回音乐播放器界面。Single click “ ” icon to continue add audio files，and single “ ” icon to back audio player interface。

单击图标“ ”播放音乐；也可双击文件名播放，如下图：Single click“ ”icon to play music；or direct double click the file as below picture：

Audio Player
LOVE.MP3
5:10

其它图标功能如下 The others icons function as below：

单击图标“ ”可暂停播放；Single click “ ” icon to pause;

单击图标“ ”可选择下一曲；Single click “ ” icon to select next audio file;

单击图标“ ”可选择上一曲；Single click “ ” icon to select previous file;

单击图标“ ”可单曲循环播放；Single click “ ” icon to cycle playing one song;

单击图标“ ”可随机播放；Single click “ ” icon to random play；

单击图标“ ”喇叭放音正常；Single click “ ” icon to set speaker volume normal；

单击图标“ ” 喇叭静音；Single click “ ” icon to mute speaker；

单击图标“ ”删除选中文件；Single click “ ” icon to cancel the selected files;

单击图标“ ”删除所有文件；Single click “ ” icon to cancel all files;

单击图标“ ”退出音乐播放器界面. Single click “” to exit audio player interface.

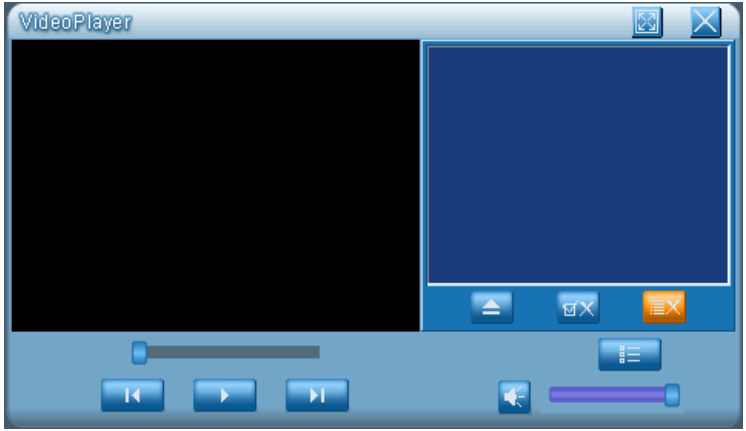
音量大小可点击“音量进度条”自由选择；播放速度可点击“播放进度条”自由选择；

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

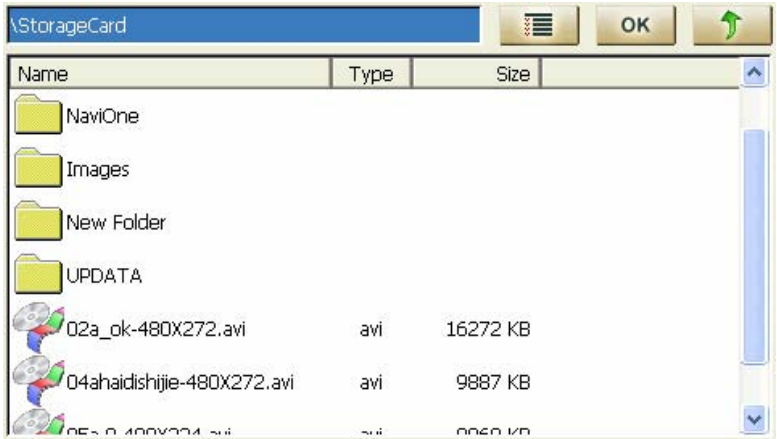
7.3 视频播放器界面操作 Video Player Operation Instruction：

◆ 在控制台界面，如下图：In main control interface as below:

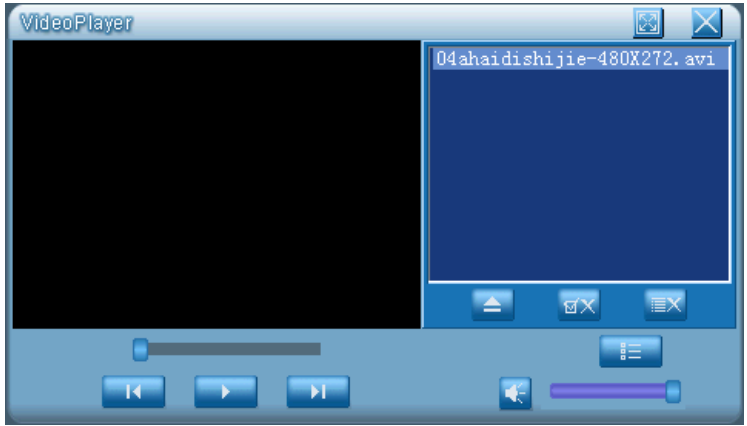
点击“ ”图标，进入视频播放器主界面, 如下图: Click “ ” icon to enter video player interface as below picture:



点击图标“ ”，选择视频文件的存放路径，进入如下界面：Click “ ” icon to select the video files path and enter as below picture:

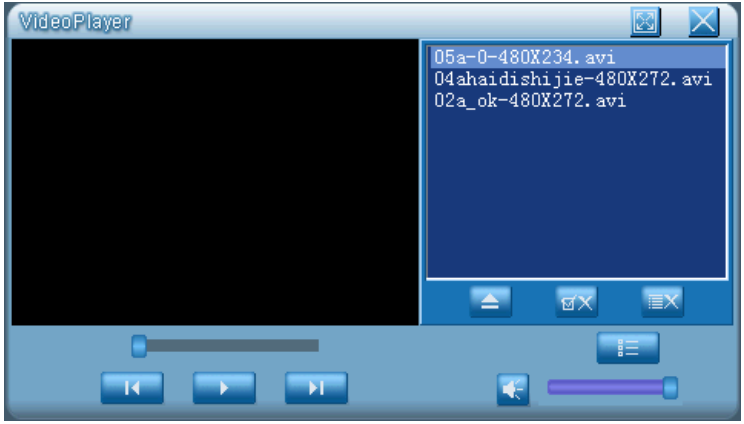


选择所要播放的视频文件, 单击图标“OK”或双击文件名返回视频播放器界面，如下图：Select the video files want to play and single click “OK”icon or directly double click file name to back video player interface as below picture：



或单击图标“ ”可全选所有文件, 如下图: or single click “ ”icon to select all:

单击图标” OK ”返回视频播放器界面：Single click“ OK ”icon to back video player interface picture：



单击图标“ ”继续添加视频文件，单击图标“ ”则返回视频播放器界面。

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

单击图标“ ”播放视频；也可双击视频文件名播放，如下图：

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

单击图标 ” ” 可使屏幕变宽, , 如下图:

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

单击图标” ”, 可使屏幕变成全屏, 如下图 ：

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

其它图标功能如下 The others icons functions as below:

单击图标“ ” 喇叭静音；Single click “ ” to mute；

单击图标“ ” 喇叭放音正常；Single click “ ” to normal speaker sound；

单击图标“ ”可选择下一视频文件；Single click “ ” to select next video file；

单击图标“ ”可选择上一视频文件；Single click “ ” to select previous file；

单击图标“ ”删除选中文件；Single click “” to cancel the selected file；

单击图标“”删除所有文件；Single click “” to cancel all files；

单击图标“”退出音乐播放器界面. Single click “” to exit video player interface.

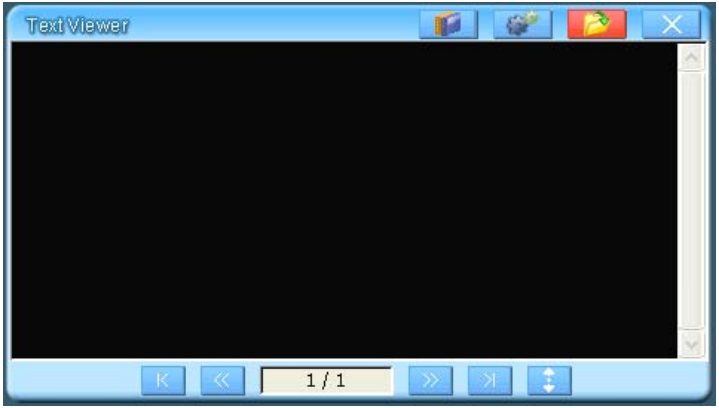
音量大小可点击“音量进度条”自由选择；播放速度可点击“播放进度条”自由选择；

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

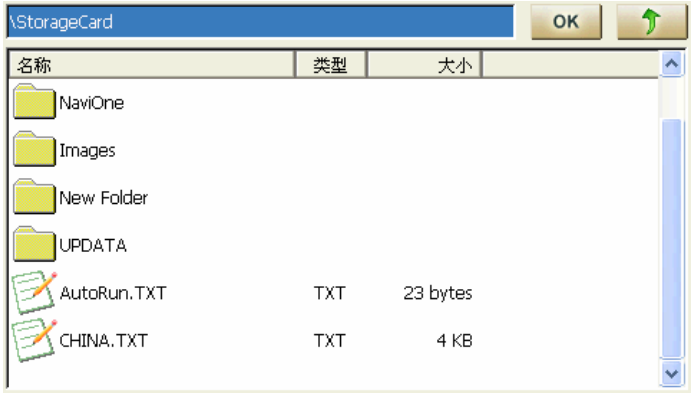
7. 4 阅读器界面操作说明 Text Viewer Operation Instruction：

- 在控制台界面，如下图 In main control interface as below picture：

点击阅读器“ ”图标，进入阅读器界面，如下图：Click text viewer “ ” icon to enter viewer interface as below picture：

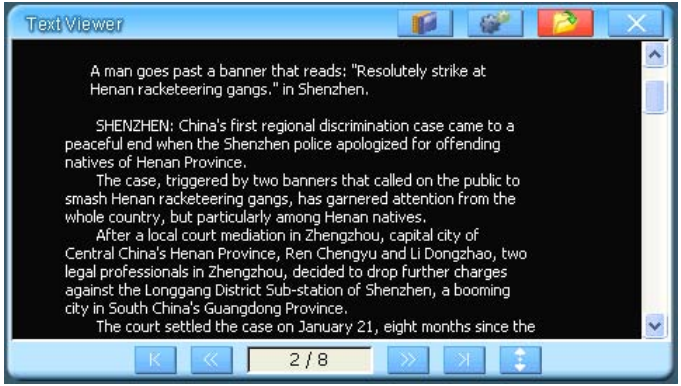


1、点击上面图标“ ”，选择文本文件的存放路径，如下图 Click top“ ” icon to select the text path as below picture：



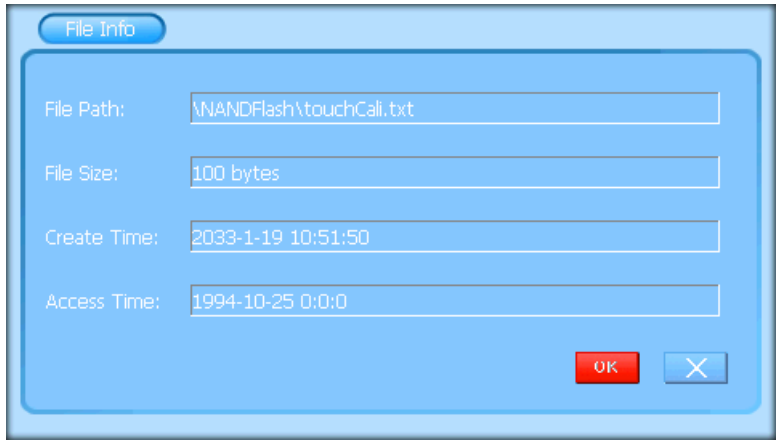
2、选中要阅读的文件，单击图标“OK”或双击文件名返回“TextViewer”界面，如下图：

Select the file you want and single click “OK” or double click file name to back “Text Viewer” interface as below picture：



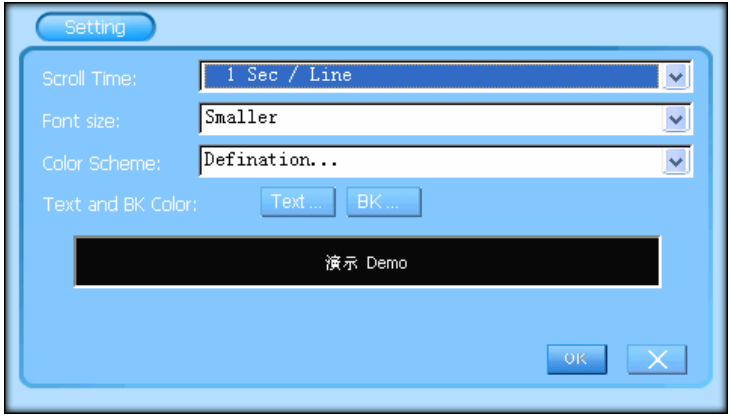
3、单击图标“”可显示文件信息，包括文件大小、创建时间、访问时间等，如下图：

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



4、单击图标“ ”可设置文字滚动速率、字体大小、配色方案、文字及背景色、如下图：

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



其它图标功能如下：The others icon functions as below：

单击图标“ ”可进到到首页；Single click “ ” icon to head page；

单击图标“ ”可进到尾页；Single click “ ” icon to end page；

单击图标“ ”向上翻页；Single click “ ” icon to turn to previous page；

单击图标“ ” 向下翻页；Single click “ ” icon to turn to next page；

单击图标“ ” 页面缓慢自动滚屏；Single click “ ” icon to setting auto rolling screen page；

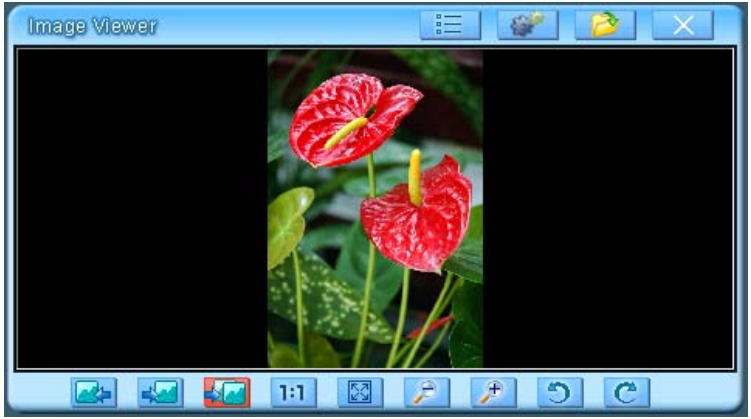
单击图标“ ”退出“Text Viewer”界面；Single click “ ” icon to exit “Text Viewer” interface；

7.5 图片浏览器界面操作说明 Image Viewer Operation Instruction：

- 在控制台界面，如下图：In main control interface as below picture：

点击图片浏览器“ ”图标，进入图片浏览器主界面，如下图：

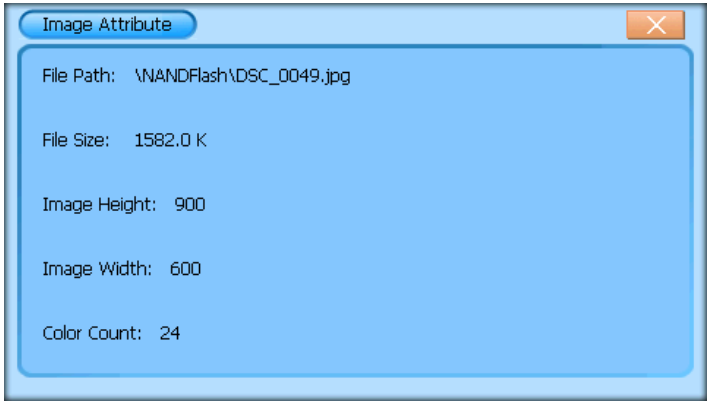
Click “ ” icon to enter image viewer interface as below：



1、点击图标 “ ”，进入图像属性界面，可显示文件路径、文件大小、图像高、图像宽、图像颜色等信息，

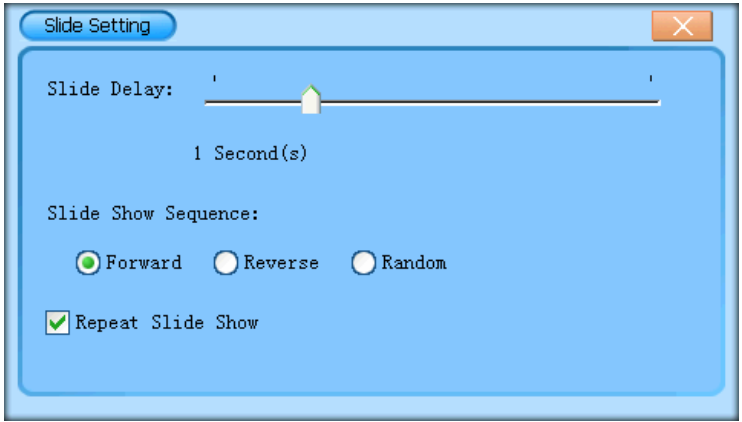
如下图： Click “ ” icon to enter image property which show file path, size, image height, width, color and others

information as below：



2、点击上面图标 “ ”，可设置幻灯片延迟、幻灯片播放顺序、重复播放幻灯片等设置、如下图：

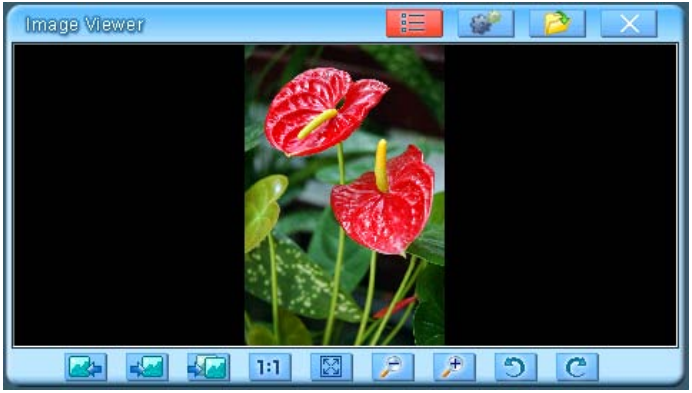
Click “ ” icon to set up flash delay, play sequence、replay and others as below:



3、点击图标“ ”，选择图片文件的存放路径，进入如下界面：Click “ ” icon to select image file path ：

选中要查看的图片文件，单击图标“ ”或双击文件名返回“Image Viewer”界面，如下图：Select the image want

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



在此界面点击画面上不同位置可进行盘移. In the interface, click picture to move to differ disk.

其它图标功能如下：The others icons functions as below：

单击图标“ ”可浏览上一张图片；Single click “” icon to view previous image；

单击图标“ ”可浏览下一张图片；Single click “” icon to view next image；

单击图标“ ”进入幻灯片浏览模式；Single click “” icon to enter flash viewing model；

单击图标“ ” 展示实际像素；Single click “” icon to show actual pixel；

单击图标“ ” 缩小图片 Single click “” icon to zoom out image;

单击图标“ ” 放大图片 Single click “” icon to zoom in image;

单击图标“ ” 图片左旋 90 度 Single click “” to counterclockwise rotate 90 degree;

单击图标“ ”图片右旋 90 度 Single click “” to clockwise rotate 90degree;

单击图标“ ”退出“Image Viewer”界面；Single click “” to exit “Image Viewer” interface；

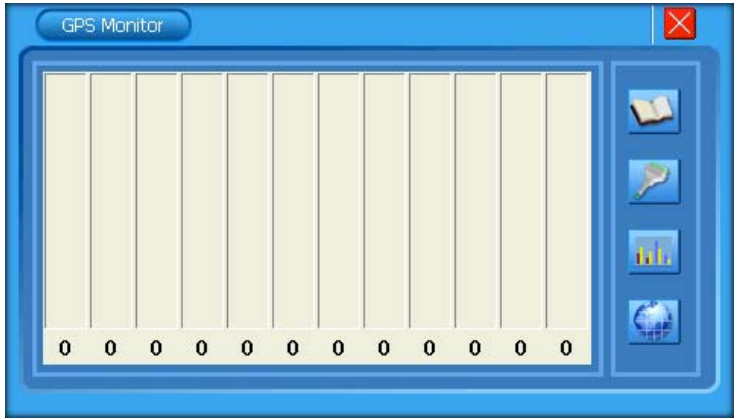
7.6 GPS 监视器界面操作 GPS Monitor Operation Instruction：

- 在控制台界面，如下图：In main control interface as below picture：

◆ 点击选项“ ”图标，进入选项主界面，共有六个图标，如下图：

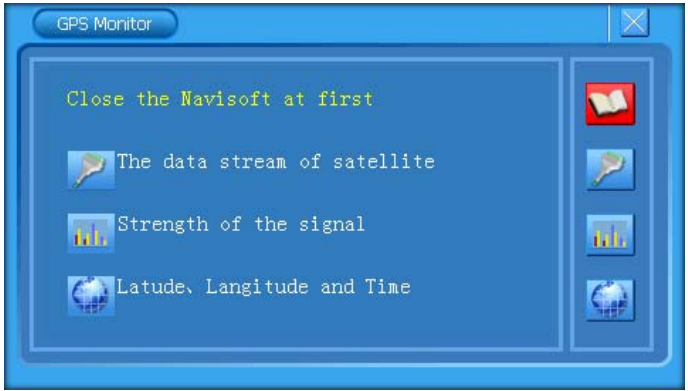
Click “ ” icon to enter option interface, there are 6 icons as below:：

◆ 点击 GPS 监视器“ ”图标，进入 GPS 监示器界面，如下图：Click GPS Monitor“ ” icon to enter as below：



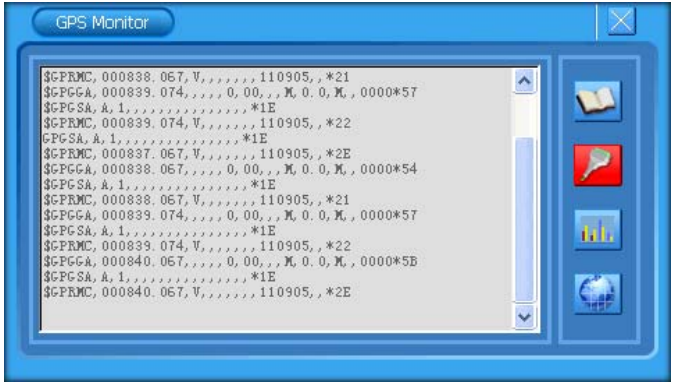
1、点击右边图标“ ”，进入菜单说明界面，如下图：

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

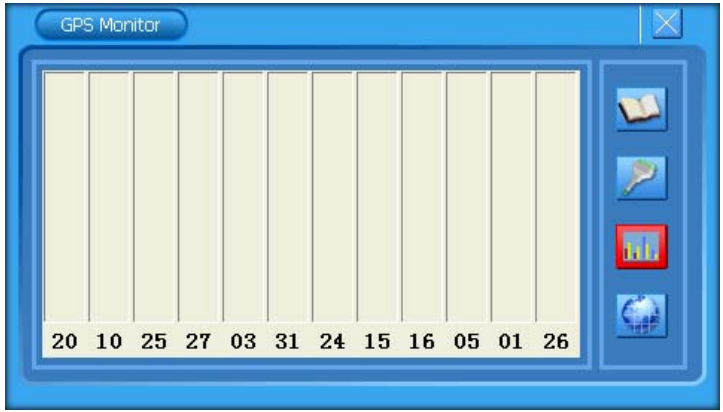


2、点击右边图标“ ”，进入卫星数据流界面，如下图：

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



3、点击右边图标“ ”，进入卫星数量及信号强弱界面，如下图：Click right“ ” icon to enter satellite quantity and signal interface as below：



4、点击右边图标“ ”，进入经度、纬度和时间界面，如下图：Click right“ ” icon to enter longitude, latitude and time interface as below：

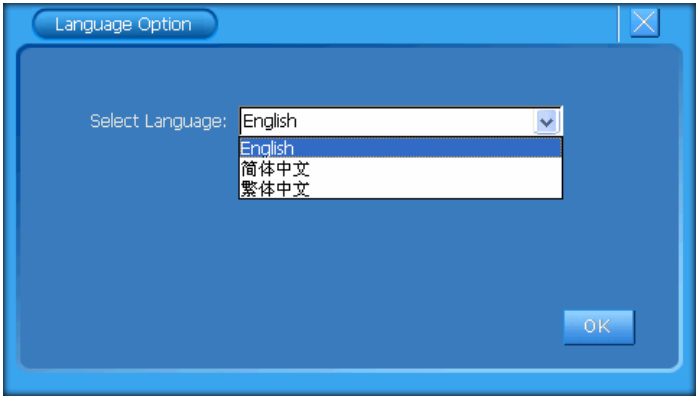
获取相关信息后按“ ”可返回到系统控制界面。After get relevant information, click “ ” icon to back system control interface。

注：测试 GPS 监视器时，需在无遮挡空旷地方. 否则接受不到卫星信号等参数 Remark: When testing GPS monitor, please choose one open place otherwise can’t receiving satellite signal data.

7.7 语言设置界面操作 Language Setting Operation Instruction：

- 在系统设置界面，如下图：In system control menu as below：

◆ 点击“ ”进入语言设置界面，点击“ ”图标，如下图：Click “ ” icon to enter language setting interface and the click “ ” icon as below：



设置喜欢的界面语言后，点击“OK”返回系统设置界面；After set up your favors language, click “OK” icon to back system setting interface；

7.8 屏幕调整界面操作 Screen Adjustment Operation：

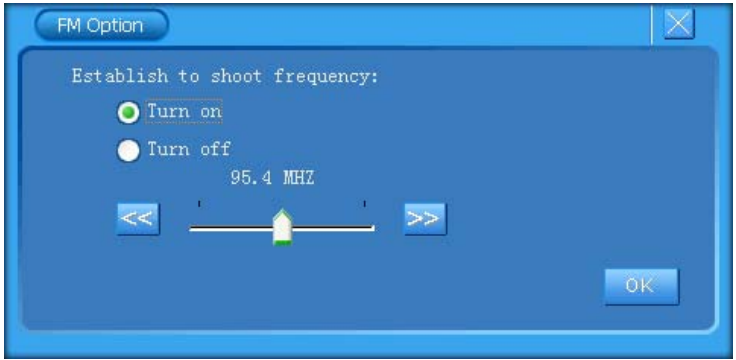
- 在系统设置界面，点击“ ”图标，进入触摸屏校正设置界面，-按照画面提示常按中心光标位置，直到校正光标自动移至左上角位置，依次分别校正左下角光标位置、右下角光标位置、右上角光标位置。如校正未成功将自动进入重新校正界面；如校正成功，显示屏上显示“OK”，点击触摸屏任一点保存校正并退出校正画面。触摸屏校正完成，系统将记忆校正结果，掉电不丢失，不必每次上电都校正，出厂时须校正好。In system setting interface, click“ ”icon to enter touch screen rectify setting interface. According to prompt to 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 音量调节操作 Volume Adjustment Operation

- 在系统设置界面，如下图：In system setting interface as below：

- 选择“ ”图标, 进入音量调节界面, 如下图: Click “ ” icon to enter volume adjust interface:



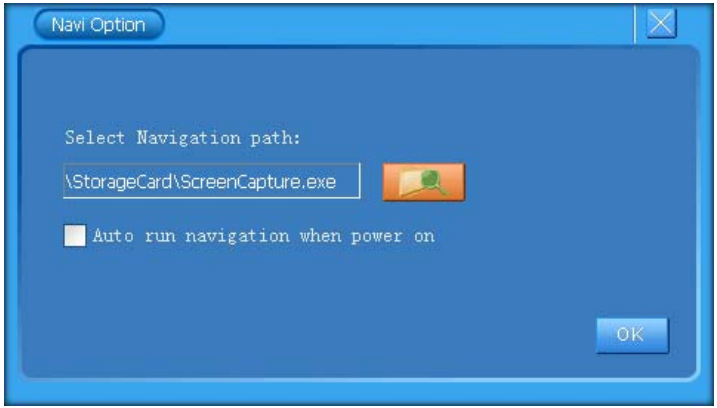
可设置系统音量大小，可设置静音，击键及击屏音量模式, 点击“OK”返回系统设置界面；After set up system volume, mute, key and touch volume model, click “OK” icon to back system setting interface；

7. 10 运行导航软件操作说明 Running GPS navigation software operation instruction：

- 插入装有导航软件的 SD 卡，在控制台界面：Insert SD card with navigation software inside, in control menu interface：

点击“ ”图标，系统进入系统设置界面，如下图：Click “ ” icon to enter system setting interface as below：

选择导航设置“ ”图标，进入如下界面：Select navigation setting “ ” icon as below：



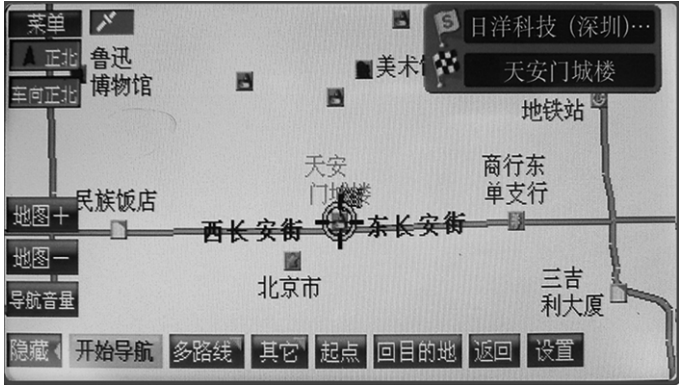
点击“ ”图标，进入如下界面：Click“ ”icon to enter as below：

根据导航软件的存放路径（此时可复选“启动时自动运行导航软件”），选取导航软件，点击“OK”退出，返回

到控制台界面，如下图：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：

选择导航“ ”图标，系统将进入导航界面，导航软件操作请参考导航软件操作说明 Select navigation “ ” icon to enter

navigation interface. For soft operation details, please refer to its operation instruction



7.11 按键功能说明 Key Function Description：

- 在操作地图软件，音乐播放器、视频播放器等模式时按“MENU”键，可返回主控制台界面,长按 “MENU”可进入触摸屏校正模式 At Map soft, audio player, video player status, press“**MENU**” to back main control interface, Long press to enter Touch screen rectify model
- 长按“POWER”键(3 秒)开启或关闭导航器，短按“POWER”键进入或唤醒“SLEEP”状态 Long press“**POWER**”（3 seconds）to ON/OFF navigator，Short press“**POWER**”to enter or wake up“**SLEEP**”status
- 按“AV”键可切至 AV IN 操作；Press “AV” change to AV IN
- 按 “ESC”键返回; Press “ESC” Back or Exit
- 按“RESET”键可进行系统复位；Press“**RESET**”to re-set system

◆ 按 “SETUP”进入 OSD 界面设置,操作如下:Press “SETIP” to enter OSD setting, details s below:

- “Function select”：点击下行菜单选择进入“TV”或“GPS”画面，切到“TV”画面显示屏将显示从 AV 接口输入进来的视频信号（无 AV 信号将显示蓝屏），切到“GPS”画面显示导航画面。此操作也可通过“AV”按键操作切换两种模式 Click down menu and enter “TV” or “ GPS”, If “TV” interface, the screen will display the video signal from AV port (Blue screen if no signal), If “GPS” interface, there will display navigation interface. You can exchange the two mode through press AV key
- “Back light”：点击下行菜单调节背光亮度，点击“+”增强亮度，点击“-”减弱亮度 click down menu to adjust back light brightness, “+” to increase, and “-” to decrease
- “Lcd contrast”：点击下行菜单调节 LCD 显示对比度，点击“+”增强对比度，点击“-”减弱对比度 Click

down menu to adjust LCD contrast, “+” to increase, “-”to decrease.

- “TV display mode”:点击下行菜单选择视频信号显示模式：16/9 或 4/3 Click down menu to select video signal mode: 16/9 or 4/3
- “Speaker mute”: 点击下行菜单选择“OFF”(打开喇叭), “ON”（关闭喇叭，静音）Click down menu to select “OFF” (open speaker), “ON” (close speaker, mute)
- 再按“SET”键或点击OSD的推出标示（第 6 个图标），将退出OSD设置模式, Press “SET” again or click exit icon of OSD (the 6th icon) to exit OSD setting mode.

8 注意事项

- 机器应避免储存在高温、潮湿、多尘的环境 Avoid to stock it at high temperature, humidity, dirty place
- 搬运时应避免施加额外的压力而损毁器件 Avoid being damage by out force at transportation stage.
- GPS 天线要平放并正对天空 Place GPS antenna evenly and face the sky
- 如果汽车已经装了金属贴膜,建议插上外接GPS天线并放置在车外If your car install metal protects film, please insert external GPS antenna and place out of car.
- 所有图标被选择时边框呈橙色，选中后整个图标呈橙色。All icon frames are orange and the whole icon will be change to Orange after be selected.
- 所有标注 “选用”的项目,客户自行要选择,否则会与机器不符.All items marked “Optional” should by selected by user, otherwise will be not accord with machine.

9 简易故障排除 Simple Trouble Shootings

问题 Problem	发生原因 Reason	解决办法 Solution
无法开启机器Fail to power ON	产品经一段时间未使用 Long time not to use 车充线脱落未连接好 Car charger connect bad	确认车充线已连接好且非损坏 Check the cable connect well and no damage
收不到信号 No signal	未在空旷无遮挡的地方 Not at open place	请在在空旷无遮挡的地方收星 Please at open and no shelter place
无法进入导航模式 Can't enter navigation model	请确认导航设置是否正确 Please check navigation setting	重新设置导航路径 Reset navigation path
显示屏显示不清 Screen display not	TFT LCD 显示器脏污TFT LCD	将 TFT LCD 显示器以拭镜布擦干净 Clear

clear	display dirty	TFT LCD screen
无声音No sound	音量设置处于最小状态 Sound setting low or mute	进入菜单调节节音量设置 Reset sound data
触摸功能不正常Touch function informal	未校正触摸屏设置 Touch panel setting poor	请重新校正触摸屏功能 Rectify touch settings
日期/时间显示错误 Date/time display wrong		重新设定日期/时间Resetting date/time
产品的各按键皆无法操作Key doesn't work		请将按键“RESER”按下重新复位开机press “RESET” and restart

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