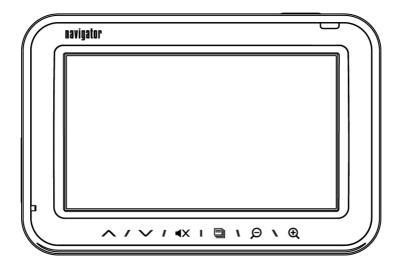




Version 1.0



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## Chapter 1 Features and Specification

### Features

- · Complete car navigation solution in one box including car mount
- Simple touch-screen operation
- 4.3" screen, 65536 colours, bright TFT LCD
- Smart and easy:
  - Attach, switch it on and go
  - Large Function icons design for easy touched
  - User-Friendly keypad
  - Clear, high quality voice-guided instruction
  - Powered by cigarette lighter or long-life rechargeable battery
  - Easy to be mounted and removed
- Built-in antenna; MMCX-type connector for optional external antenna
- SD storage card expansion slot
- Supports music playback function for "wma" file format.
- Supports photo view function for "jpg" file format.

#### Bluetooth

- Auto-Reply mode
- Profile: Headset/ HandsFree/ A2DP/ AVRCP/ OPP
- Phonebook download
- Music playback via Bluetooth

#### **Digital TV**

- Build-in EPG Functions (English · Germany · French · Italian ·

- Spanish  $\cdot$  Swedish  $\cdot$  Finnish  $\cdot$  Traditional Chinese)
- Support MTS and Subtitle (Base on Region)
- Support Auto Scan/ Manual Scan mode
- Mobility and Receivability

### Specification

► System				
Electrical Characteristics				
Processor	Samsung S3C2440, 400MHz			
OS	WinCE.NET 5.0			
Flash Memory	Default 64 MB, can up to 2GB			
SDRAM Memory	64MB			
Memory Card Slot	SD/MMC			
GPS	SiRF Star III, built-in 18x18 Patch Antenna			
DISPALY				
Display	4.3", TFT LCD with Touch Screen			
Pixels H*W	480*272 (WQVGA)			
Display Type	COLOR TFT Transmissive			
Color Number	65536 colors			
Backlight Type	LED x 7			
Brightness	Typ. 320 cd/m <sup>2</sup>			
View Angle	50/55/60/60 (U/D/L/R)			
Touch Panel Resistive Type, 30% Haze film				
AUDIO				
Internal Speaker	built-in Stereo Speaker, 1W / 8 ohm x 2			
Earphone Jack	3.5 mm, Stereo Output			
USB				
USB	Support USB 1.1, Mass Storage Driver			
USB Connector	Mini USB			
POWER SOURCE				
Car Charger	DC 5.0V / 2A			
Power Switch	Slide Switch (Battery ON/OFF)			
BATTERY				
Battery Cell Type	Built-in Lithium Polymer rechargeable Battery			
Battery Capacity	2200mAh			
Charging time	4 hours			
Operation time	Up to 5 hours			
Suspend time	180 hours			
ANTENNA				
GPS Antenna Type	18 x 18 mm, Patch Antenna			
External GPS Antenna	Active external antenna (MMCX)			
Sensitivity	-159dB			

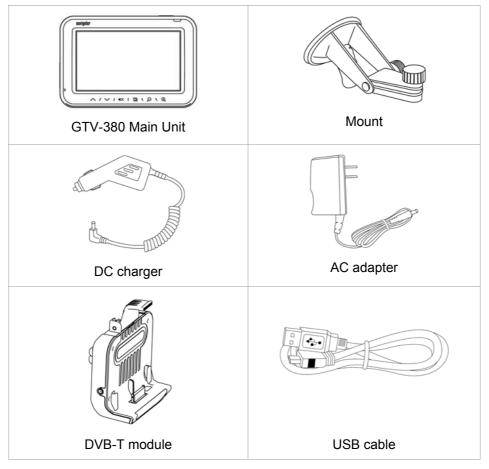
KEY BUTTON					
Power	Press the power button to turn on the device, press it again to close any open windows and turn it off (enter a standby mode)				
Reset	Use the stylus tip to press down the reset button through the hole to reset the system.				
Battery Slide Switch	(ON/OFF switch) Slide to "OFF" to disable battery power supply to the system.				
TOUCH PAD					
Touch PAD	support 6 Key with LED indicator				
Zoom IN	Press Zoom In button to zoom in ( Car Navigation Only )				
Zoom Out	Press Zoom Out button to zoom out ( Car Navigation Only )				
Mute	Press Mute button to mute voice or resume voice				
Volume UP	Volume up				
Volume Down	Volume down				
Menu	Press Menu button to go back to System menu				
Mechanical					
Dimension	126.5mm(L) x 84.6mm(W) x 24mm(H)				
Main Unit Weight	250g				
DVBT Unit Weight	121g				
Temperature					
Operating	0°C ~ 50°C				
Storage	-20°C ~ 70°C				
Humidity	Operational up to 95% non-condensing				
Safety & EMI					
	FCC Approved, CE marked, BQB Approved				
Bluetooth					
Chip	CSR, BC03 multimedia				
Profile	Support: Headset / Handsfree / A2DP / AVRCP / OPP				
Sensitivity	-75 dBm @0.1% BER				
Accessory					
Car charger	5V / 2A				
Travel charger	5V / 2A				
DVBT IR remote	26 Key, Name Card Type				
DVBT antenna	X 2, Length: 1.5m				

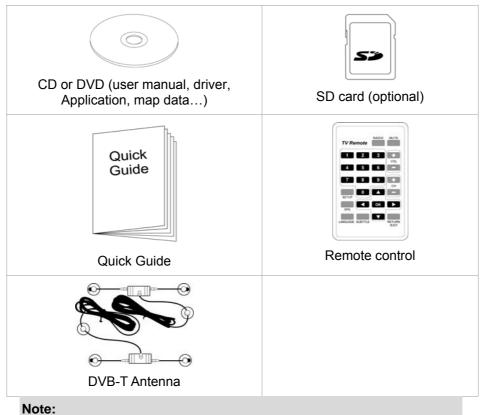
DVBT			
Tuner	Built-in Dual Tuner, EPG Function Support		
	EFG Function Support		
Channel Frequency UHF / VHF (470~862 MHz / 174~230 MHz)			
Channel Band Width	6 / 7 / 8 MHz		
Demodulation         COFDM with 2K / 8K FFT           Receive Sensitivity         -85 dBm			
		IR Remote Control	26 Key

### ► GPS Specification

Electrical Characteristics				
GPS Chipset	SiRF Star III			
Frequency	L1, 1575.42 MHz			
C/A Code	1.023 MHz chip rate			
Channels	20 channel all-in-view tracking			
ACCURACY				
Position Horizontal	10 meters, 2D RMS 1-5 meters 2D RMS, WAAS corrected			
Velocity	0.1m/sec			
Time	1 micro-second synchronized to GPS time			
DATUM				
Datum	Default: WGS-84			
ACQUISITION RATE				
Hot start	1 sec., average			
Warm start	38 sec., average			
Cold start	42 sec., average			
Reacquisition	0.1 sec. average			
PROTOCOL				
GPS Protocol	Default: NMEA 0183 (Secondary: SiRF binary)			
GPS Output format	GGA(1sec), GSA(1sec), GSV(5sec), RMC(1sec), GLL, VTG is optional			
DYNAMIC CONDITION				
Acceleration Limit	it Less than 4g			
Altitude Limit	18,000 meters (60,000 feet) max.			
Velocity Limit	515 meters/sec. (1,000 knots) max.			
Jerk Limit	20 m/sec**3			

### Accessories

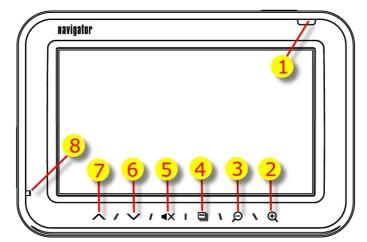




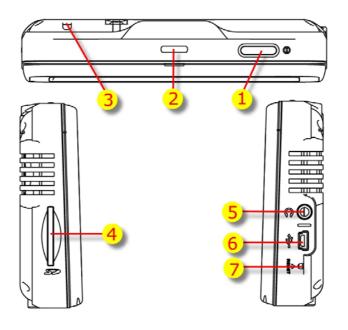
# 1. If any item is missing or damaged, please contact with your local retailer.

2. DVB-T antenna graphical representation meets and the material object differs from, please take actual attach the antenna as

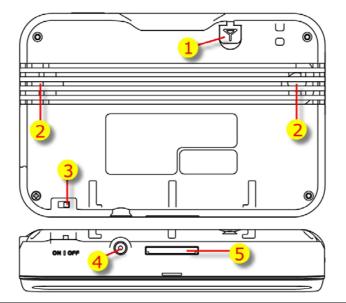
### Overview



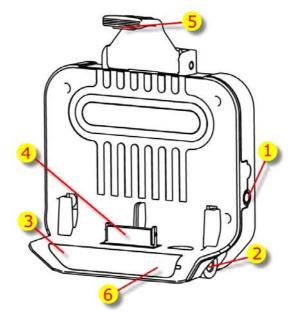
	Front View					
<ul> <li>Power LED</li> <li>Solid Red – Battery is lower than 40%.</li> <li>Solid Amber – Battery is being charged</li> <li>Solid Green – Battery full charged.</li> </ul>						
0	Zoom in	Zoom in button. (For Car Navigation Only)				
Soom out Zoom out button. (For Car Navigation Only)		Zoom out button. (For Car Navigation Only)				
4	Menu button	Press the Menu button to go directly to Main Menu of the application.				
0	Press to mute the audio, press again to					
6	Volume down	Volume down button.				
Ø	Volume up	Volume up button.				
O Microphone		Microphone is enabled when you connect GTV-380 with your Bluetooth cell phone.				



	Side View and Top View					
0	<ul> <li>Press the <b>Power</b> button to turn on the GTV-380, press it again to turn it off (en standby mode).</li> </ul>					
0	Clip groove	For the cradle to clip tight to the main unit.				
€	Lanyard Hook	For you to attach a hand cord to the main unit.				
4	SD card slot	The Navigation software, map data and other media files can be stored in the SD card.				
0	Earphone jack	Plug the earphone or headset to the socket, you can listen to the navigation voice guide or enjoy your favorite music.				
0	Mini USB port	Connect the GTV-380 to PC via an USB cable for data transfer.				
Ø	Reset button	Use the stylus tip to press down the reset button through the hole to reset the system.				



Bottom View and Rear View				
0	External Antenna connector	For you to connect an optional MMCX-type external antenna.		
0	Speaker	For output the music or navigation voice.		
0	Battery Slide Switch	<ul> <li>Slide the switch to "OFF" position to prevent from accidentally turning on the device by touching the power button. If you want to use this device, be sure to slide the switch to the "ON" position.</li> <li>The purpose of the Battery Slide Switch is to cut off power to the unit. It is used to disable the unit in transit from the factory and if the unit will be in storage for long periods of time. Be sure that the switch is in the "ON" position when you remove the unit from the box. The GTV-380 will NOT charge if the switch is in the "OFF" position.</li> </ul>		
4	Charging connector	For power supply and battery charging.		
0	Docking connector	Docking connector for DVB-T module.		



	DVB-T module					
0	DVB-T Antenna connector	For you to connect to DVB-T antenna. (on both sides)				
0	Charging connector	For power supply and battery charging.				
€	Infrared sensor	Infrared sensor for receiving signal from remote control.				
4	Docking connector	Docking connector for DVB-T module.				
0	Clip hook	For clip into the groove of the main unit.				
0	DVB-T LED	The blue LED will light when DVB-T function is operating.				

# Chapter 2 Getting Started

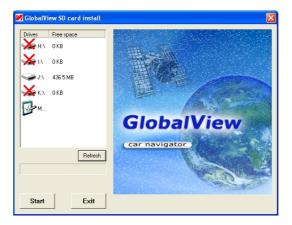
Before you start to use the GTV-380, please connect it with the AC adapter and plug to power socket for battery charging. When it is in charging, the status indicator will be amber. If the battery is fully charged, the status indicator will be lit on green.

# Download Application Software to memory card by card reader

Insert the SD card into your card reader which is connected to your PC. Insert the CD/DVD into the CD/DVD-ROM drive; the installation program will automatically start. (If your autorun feature is disabled, please manually execute this program by double click the **"auto.exe"** from the root directory of CD/DVD.) Click **"Make System Disk"** button for downloading the application and map into SD card.



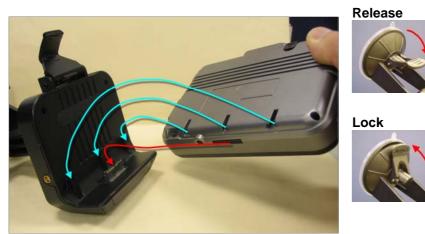




Click on the drive letter which your SD card is inserted, and click on "**Start**" button. After the download process is finished, please remove the SD card from card reader, insert it into your GTV-380 and restart it.



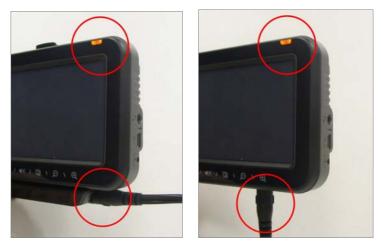
Attach GTV-380 to Cradle (DVB-T module)



- 1. Place the GTV-380 at a downward angle into the base of the cradle.
- 2. Align three grooves and docking connector to push down GV-388 inward until the top clip locks into place.
- **3.** Clean windshield glass thoroughly with glass cleaner.
- 4. Moisten suction cup and attach mount to the windshield.
- 5. Lock mount lever by moving forward.
- To release, bring lever back and pull on the suction cup's clear tab to release suction. Never pull on mounting arm to remove from glass.
- It is suggested that you attach the mount in the appropriate place in your car. Do not mount in front of an airbag panel, or block the driver's vision.



### Charging your GTV-380



Plug the end of AC adapter or DC charger into the charging connector of GTV-380 or DVB-T module. The power LED will light. When battery is fully charged, the LED becomes green.



## Chapter 3 Software Application

### **Main Screen**



#### **Main Screen**

- Tap on the **Navigation** icon to start the Navigation application.
- Tap on the **TV** icon to start the **DVBT** function.
- Tap on the **HandsFree** icon to start the Bluetooth HandsFree application.
- Tap on the **Media** icon to enter the sub-screen which contains the music player and photo viewer.
- Tap on the **Setup** icon to enter the sub-screen which you can do the settings of the device.
- Tap on the date and time on top right corner of screen; it enters the date and time adjustment screen.
  - Battery capacity is 75%~100%.
    - Battery capacity is 50%~75%.
    - Battery capacity is 25%~50%.
      - Battery capacity is below 25%.
      - AC adapter is connecting to the device.
  - Tap on the battery icon on top right corner of screen; it enters the power setting screen.

### Media Mode



### **Music Player**



	Music Player				
•	In the center of screen, it shows the music title, the timer and the total length of this music.				
	Tap this button to play the next song.				
	Tap this button to play the current song.				
	Tap this button to pause the playing.				
	Tap this button to play the previous song.				
	Tap this button to stop the playing.				
th	Sequentially play the songs from playing list.				
X	Randomly play the songs from playing list.				
U	Play all songs form playing list once and then stop playing.				
0	Continuously play the songs from playing list without stop.				
	Edit the playing list.				
×	Go back to Media Screen.				



#### **Edit Playing list**

Music Player will search for the "Music" folder of the SD card
for all music files and display them on screen. Tap directly on
the file name of the song to add or remove it from playing

the file name of the song to add or remove it from playing list. The song has been added to the list becomes blue. The song has been removed from the list becomes black.



Use up or down arrow buttons to highlight the song. Tap this button to add this song to playing list.

Use up or down arrow buttons to highlight the song. Tap this button to remove this song from playing list.

Tap this button to add all songs to the list.

Tap this button to remove all songs from the list.

When you are done with the editing, tap this button to save and go back to Music Player screen.

Tap this button to cancel editing and go back to Music Player screen.



### **Photo Viewer**



#### **Photo Viewer**

Photo Viewer will search for the "Photo" folder of the SD card

Tap to select an image and tap the **Full Screen** button on left

for all supported image files and display in thumbnail mode. Use up or down arrow buttons to scroll the page.



side to view this image in full screen. Go back to Media Screen.



#### Full Screen mode

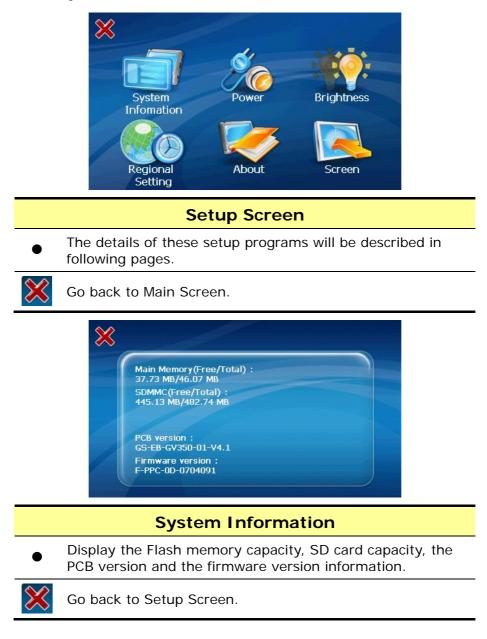


Tap up or down arrow buttons on the right side to view previous or next image.

Tap the close button on left top corner to end full screen mode.



### **Setup Mode**







Display remaining capacity of battery power. When AC
 adapter is connected to the device for charging, the battery icon will flash from right to left

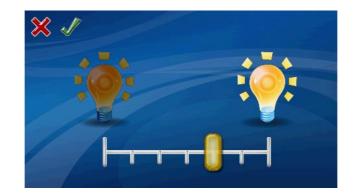
The auto shut down function is only valid when GV-388 is not connected to external power. If it is connected to the AC adapter, the system will not be shut down even if you have

checked this setting.



Cancel and go back to Setup Screen.

Save the setting you made and go back to Setup Screen.



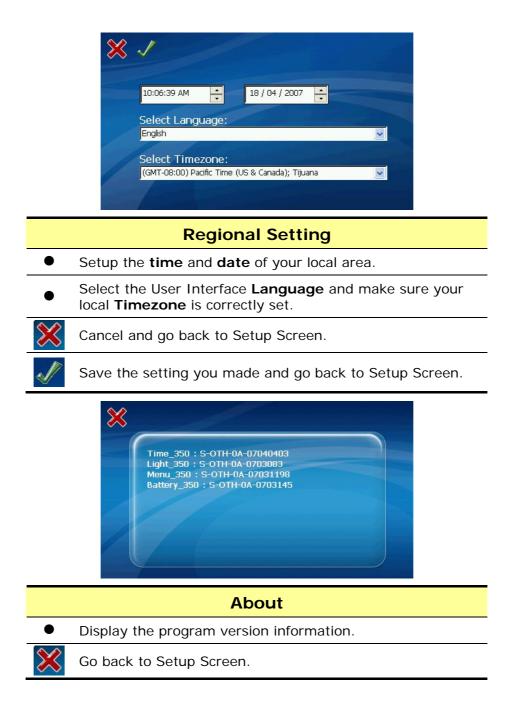
#### **Brightness**

- You can change the backlight brightness by tapping on the two bulb icons. Tap the left bulb to make the screen darker, or the right bulb to make the screen brighter.
- The backlight brightness has 0~6 levels from left to right. The default is set to the 4<sup>th</sup> level.

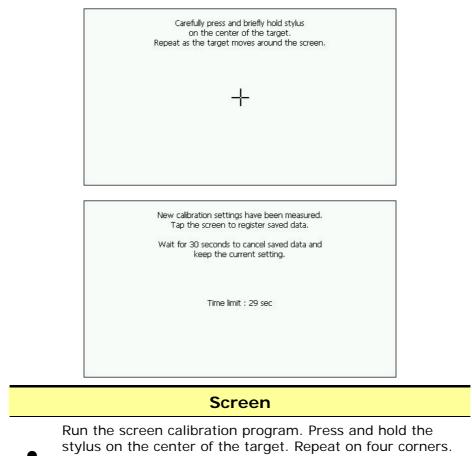


Cancel and go back to Setup Screen.

Save the setting you made and go back to Setup Screen.







When the new calibration is done, tap the screen to save the setting or wait for 30 seconds to cancel the calibration.



## Chapter 4 Bluetooth HandsFree

### **Bluetooth main screen**



#### HandsFree



**Phone Dialer:** Tap on this button, GTV-380 will search and connect to the previous paired HandsFree device. After connection is established, it enters Phone Dialer mode.



**Phone Book:** Tap on this button, GTV-380 will search and connect to the previous paired HandsFree device. After connection is established, it enters Phone Book mode.



Tap on this button to activate the Bluetooth function and automatically search and connect to the previous paired HandsFree device. If connection is established, you will see the device name shown on the right upper corner of screen. Tap on this button again to disable the Bluetooth function.



Tap on this button to enter device list screen. You can select a device to connect A2DP/AVRCP profile. If connection is established, it shows the A2DP screen.



Tap on this button to enter the Bluetooth setup mode.

Go back to Main Screen.



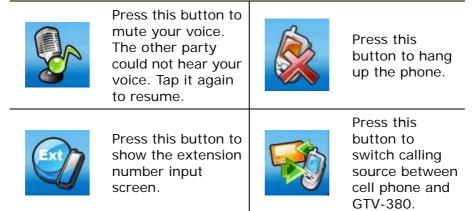
×	0282263799	)		
	1	2	3	
	4	5	6	
	7	8	9	
		0	#	
	Ph	one Dial	er	
	ackspace utton		Call re	ecord
Dial button			Phone	book
Go back to HandsFree Screen.				



Call Record						
	Display the missed call.		Dial button			
	Display the received call.	Delete	Delete record			
	Display the dialed call.	$\otimes$	Go back to Setup Screen.			



#### Talking mode





#### Setup



Search Device: Tap on this button to search the Bluetooth device nearby. Up to 10 devices can be searched. If pairing process is finished, it returns to Main screen. If pairing process is failed, it returns to Pin Code screen. Up to 4 Bluetooth paired devices can be stored in the list of PND.



Device List: Tap on this button to enter the device list. Select the device to connect to Handsfree profile. If connection is established, it returns to Main screen. If the Bluetooth device you select does not support Handsfree, you will see a warning message on screen.



nfo.

Set PND Name: Tap on this button to set the PND name.

Version: Tap on this button to display the hardware and software version of Bluetooth module



Reset: Tap on this button to enter Reset mode.

Go back to HandsFree Screen.



\$	Cevice List				
	1 Nokia 6260 2 2 3 2 4				
Device List					
<ul> <li>Up to 4 Bluetooth paired devices can be stored in the device list. You can select a Bluetooth device from this list. The selected device will be highlight.</li> </ul>					
	Connect: Connect to the selected device and go back to main screen. If the Bluetooth device you select does not support Handsfree, you will see a warning message on screen.				
X	elete: Delete the device from list.				
*	Go back to Setup Screen.				



*	GPS BT C	GPS BT CARKIT					
	ABC	DEF	GHI				
	JKL	MNO	PQR	ABC			
	STU	VWX	YZ				
Space 123							
Set PND Name							
<ul> <li>The default name of the PND is "GPS BT Carkit". You can change it as your wish.</li> </ul>							
When you finish editing, press this button to confirm.							
ABC							

Press this button to switch between alphabetical and numerical keypad.

Backspace key to delete from the last character.

Go back to Setup Screen.

23

×





# Search and connect to your Bluetooth phone



Tap on Setup icon to enter Setup mode.



Tap on Search Device icon to search your Bluetooth cell phone.



GTV-380 begins to search the device.



The found device is shown on the list. Tap on the device you want to connect with.



If connection is established, the name of the connected device will appear on the upper right corner of screen.

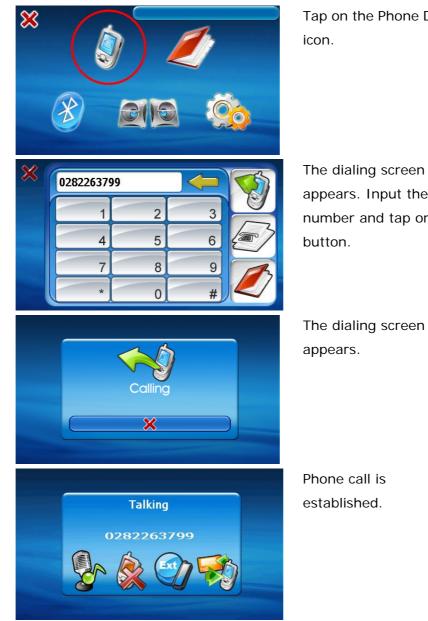
# Answer or hang up a incoming call



When you receive a incoming call, you can press the left icon to accept the call or press the right icon to refuse and hang up the call.



# Make a call



Tap on the Phone Dialer

appears. Input the number and tap on Dial

# **Bluetooth Stereo Playback**



Tap on the Stereo Playback icon, and then select your device from device list.

If connection is established, it shows the A2DP screen. You can play, pause or stop music from screen buttons. Buttons for Next and Previous are also supported.

# Chapter 5 DVB-T

# DVB-T

**DVB-T** is the **abbreviation of Digital Video Broadcasting -Terrestrial**. It is a broadcast transmission standard for digital terrestrial television mainly used in European area.

# **Remote Control**

	RADIO	Switch to Radio channel, press it again to resume TV mode.
TV Remote	MUTE	Mute the volume output. Press it again to resume.
1 2 3 +	VOL +	Volume up
4 5 6 VOL	VOL -	Volume down
	CH +	Channel up
	CH -	Channel down
7 8 9 + CH	ок	Confirm for selecting item.
	RETURN/	Return to previous
SETUP	EXIT	channel or Exit.
<ul><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li></ul>	SETUP	Enter Setup mode.
	EPG	Electronic Program Guide
LANGUAGE SUBTITLE RETURN	LANGUAGE	Switch language
	SUBTITLE	Switch subtitle
	NUMERIC KEY	For input the channel number

# **Enter TV Mode**

- If you want to watch TV program, you have to attach GTV-380 main unit onto DVB-T module and plug in the charging adapter.
- Tap on TV icon, GTV-380 begins to search



- While you are in TV mode, you can touch anywhere on screen to display the OSD (On Screen Display) menu.
- If there is no touch action within 3 seconds, the OSD menu will disappear automatically.



Main Setup screenImage: Select subtitle<br/>language.Image: ScreenImage: ScreenImage: ScreenImage: ScreenImage: ScreenImage: ScreenImage: ScreenImage: Screen



 If your TV program supports Multichannel television sound, you can choose to listen the different language or audio.

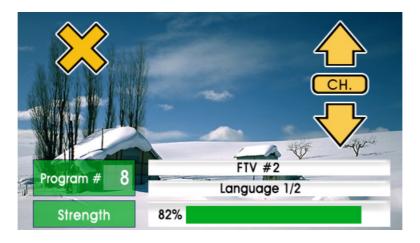


• You can choose to display a different subtitle if the TV program supports this function.





• Tap on the up or down arrow icon to switch channel. The channel information will display for seconds and disappear automatically.



• EPG displays the program title, descriptive information and the time schedule of previous and next program.



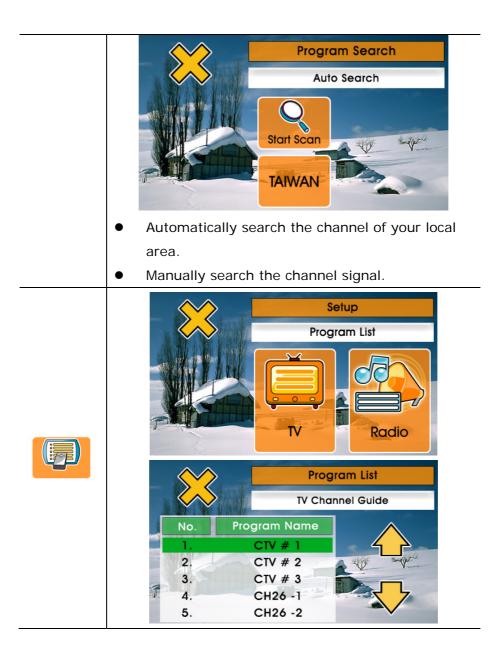


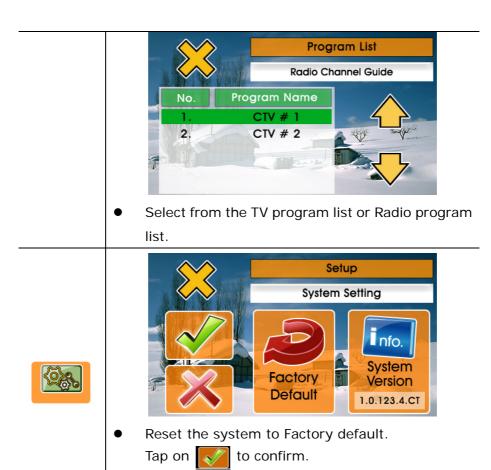


### Setup screen

	Program Info
	FTV #2
	Program # 8 Frequency 557
	Channel # 28 Language 1/2
	Strength 82%
	Quality 93%
	• Display the related information of the program.

	<ul> <li>Setup</li> <li>Regional Setting</li> <li>OSD Language</li> <li>Taiwan</li> </ul>
	<ul> <li>Select the OSD language.</li> </ul>
	Setup Program Search Nation Search
	Program Search Manual Search Start Scan Ch 26





• Display system version information.

to Cancel.

Tap on

# Chapter 6 Troubleshooting

# If the GTV-380 does not boot up successfully or does not function properly

- Please check if the *Application software* is properly installed in the SD memory card.
- 2. Please check if the *SD memory card* is inserted into the SD expansion slot.
- 3. Please check the *battery power*. (The red light indicates the battery power is low and needs to be charged. The amber light indicates that it is in charging status, and the green light will be on when the battery is fully charged.)
- 4. Perform the "*Reset*" to restart the device.

## Reset

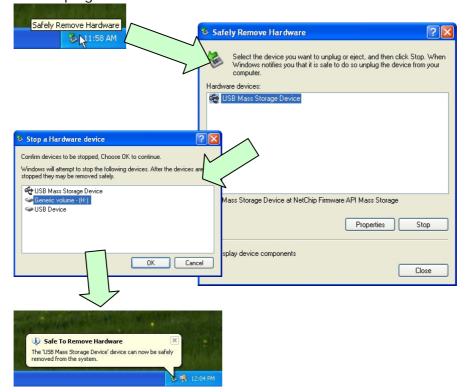
If your GTV-380 is down or it encounters an unexpected error, you can reset it. You will need to use a stylus or pencil to press the reset button. Pressing the reset button will restart the system retaining all the information stored on the device.

1	If your car windows equipped with Window Films for reducing heat and blocking the harmful UV rays, it may also slightly affect the receiving of GPS signal. Thus, the cold start time will take longer then usual.
<b>(</b> )	If the car is moving, it may also affect the time for GPS fix. We suggest that you stop the car while you turn on the GTV-380 for a quicker GPS fix time.
1	Please avoid excessive heat and humidity. Please do not leave the GTV-380 in your car under the direct sunshine with windows closed. Place it in a high temperature environment may damage its LCD display or the device.

## **Safely Remove Hardware**

Before you remove the memory card from the card reader, or before you unplug the USB cable from the device or USB port, please safely remove the hardware by the following processes:

- 1. Double click the "**Safely Remove Hardware**" icon from the task bar on the right bottom corner of desktop.
- 2. Select the hardware device and then click the "Stop" button.
- 3. Confirm by selecting the device again and click  $"\mbox{OK}"$  button.
- 4. When you see a message showing "**Safe To Remove Hardware**" on desktop, then you can remove the memory card or unplug the USB cable.



#### **FCC Notices**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

FCC RF Exposure requirements:

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

