

QSTARZ

Bluetooth

BT-Q1300

Travel Recorder™ **nano**

Super 66-CH Performance Bluetooth GPS Travel Recorder
Superior Track Logger and Navigation Dual-in-one



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1. Overview

Thank you for choosing Qstarz Super 66-CH **BT-Q1300** – *Bluetooth®* Solar GPS Travel Recorder, built-in new generation GPS chipset MTK with 66 channels performance for your navigation and travel log, and also, provides stand-alone logging up to 200,000 records with 48 hrs recording under sufficient sunlight, and supports Smart Power control for power saving to extend usage time even more. Besides, **BT-Q1300** software utility supports multi-condition setting which allows you to customize and personal travel record by 3-level detail adjustment and provides download, save, and split to arrange tracking record; moreover, you can display travel path directly on Google Earth and combine geography information with photos by Geotagging.

2. Product Notice

On Handling

- If BT-Q1300 isn't used in temperature between $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$, its battery charging capability will decrease. Leave the BT-Q1300 far from heat or high temperature environment. And also, do not expose your BT-Q1300 in temperature higher than $140^{\circ}\text{F}/60^{\circ}\text{C}$ to prevent the battery inside BT-Q1300 from overheating, exploding or burning itself. The built in battery inside the BT-Q1300 should be recycled.
- It is recommended to turn BT-Q1300 off in the hospital. Wireless GPS receiver may interfere with the medical equipments which use radio frequency.
- The manufacturer assumes no responsibility for any damages and loss resulting from the use of this manual, or from deletion of data as a result of malfunction, dead battery, or from misuse of the product in any way.
- Please clean the unit with a dry and clean soft cloth. Do not use

harsh cleaning solvents, chemicals, alcohol, or strong detergents.

- Do not attempt to open BT-Q1300 by yourself. Unauthorized hacking may damage the unit, and void your warranty.

On Battery & Safety

- Charging time is about 1 hour typically for this unit. We suggest disconnecting the unit from the cigarette charger or AC charger after the unit has been fully charged.
- Be sure to use the supplied cigarette charger including in package; otherwise excessive voltage may be applied to the unit and may cause smoke, fire, or accident.
- When the unit is not in use or not charged, we suggest disconnecting the unit from the cigarette charger. Otherwise battery drain may result.
- Note that the built in battery cannot be charged outside the temperature range 0°C ~ 45°C.
- The charging time might be extended if you use the product while charging
- Do not heat or leave the unit in high temperature or direct sunshine for a long period of time as the built-in battery capacity will deteriorate, or will become unchargeable.

3. Features

Hardware:

- Adopt the latest MTK chipset with high sensitivity -162dBm and Super High 66-Channel performance tracking
- Lower power consumption to 12hrs for travel recording
- Stand-Alone travel recorder to log up to 200,000 waypoints(*)
- Slim, Thin, Light, and Stylish design, only 62L x 38W x 7H (mm)
- Built-in Photo Geotag and visualized travel path
- Support button push manually to memorize your location

immediately

- Support Multi-mode setting to record data (Vehicle, Bicycle, Jog)
- Fast Position Fix, Cold start 35s, Warm start 33s, Hot start 1s
- Auto On-Off function for smart power control
- Personal/Portable Navigation (PDA, Smartphone, PC, etc.)
- DGPS(WAAS+EGNOS+MSAS), QZSS support

Software:

- Double software included with built-in Google Map, multi-language support, and visualization UI
- Provide PC Utility V3 allowing you to further detailly configure the device
- Provide PC Utility V4 with built-in Google Map and visualization UI for users to easily manage their travel
- Auto track split function helps you organize your travel path
- Support Track Edit function allowing you to remove unnecessary waypoints
- Active NMEA protocol VTG / GLL manually via Qstarz setup tool
- Backup your travel record as GPS / PLT / CSV / NMEA / Google Earth file format
- Draw your navigation path immediately on Google Earth as default
- Support GeoTagging function for digital photo and generate KMZ file easily

* The waypoints would be decreased when the more options of Log Format are selected

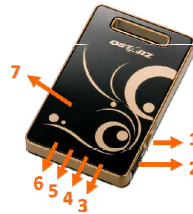
4. Product Specification

| General | |
|--------------------------------------|--|
| GPS Chip | MTK GPS Module |
| Frequency | L1, 1575.42MHz |
| C/A Code | 1.023MHz chip rate |
| Channels | 66-CH Performance |
| Antenna (Internal) | Built-in patch antenna with LNA |
| Sensitivity | Tracking -162dBm |
| Datum | WGS84 |
| Performance Characteristic | |
| Position | Without aid: 3.0m 2D-RMS |
| Accuracy | <3m CEP(50%) without SA (horizontal) DGPS (WAAS, ENGOS, MSAS): 2.5m |
| Velocity | Without aid: 0.1m/s, DGPS (WAAS, ENGOS, MSAS): 0.05m/s |
| Time | 50 ns RMS |
| Cold/Warm/Hot Start | 35/33/1 sec, average |
| Dynamic Condition | |
| Altitude | <18,000m |
| Velocity | <515m/sec |
| Acceleration | <4g |
| Protocol | |
| GPS Output Data | NMEA 0183 (V3.01) -GGA, GSA, GSV, RMC (Default) VTG, GLL(Optional) |
| Baud Rate | 115,200 bps |
| Power | |
| Built-in rechargeable Li-ion battery | |
| Bluetooth | |
| Standard | Fully compliant with <i>Bluetooth</i> V1.2 |
| Bluetooth Profile | Serial Port Profiles (SPP), Up to 15 meters |
| Others | |
| Size / Weight | 62 (L) X 38 (W) X 7 (H) mm/ 22g |
| Operating Temperature | - 10 ℃ to + 60 ℃ |
| Storage Temperature | - 20 ℃ to + 60 ℃ |
| Charging | 0 ℃ to + 45 ℃ |

5. Hardware Introduction

5-1. Appearance

1. Power Button (ON/OFF/Enable LOG mode/Disable LOG mode / Push to LOG)
2. Power jack (mini USB type)
3. Battery status LED (Red/Green)
4. *Bluetooth* status LED (Blue)
5. GPS status LED (Orange)
6. LOG status LED (Blue)
7. Internal antenna



5-2. Hardware Function

| Hardware Function | Description |
|--|---|
| Power Jack | Take the power cable and connect it to the power jack (mini USB type) for charging only |
| Power Button (On) | Press power button and hold for 4 sec to power BT-Q1300 on. |
| Power Button (Off) | Press power button and hold for 4 sec to power BT-Q1300 off |
| Power Button (Enable Log mode) | After power BT-Q1300 on, press power button and hold for 2 sec to enable log mode. Then BT-Q1300 would start logging with the blinking LOG status LED (blue). |
| Power Button (Disable Log mode) | Press power button and hold for 2 sec again to disable log mode. The LOG status LED (blue) would be off, and stop logging. |

| | |
|---------------------------------------|--|
| Power Button (Push to Log) | Press power button once to push to log the favorite Point of Interest. |
|---------------------------------------|--|

5-3. Charging Battery

For the first time using the BT-Q1300, please charge battery until it is fully charged. Take the power cable and connect it to the power jack (mini USB type) and recharge through USB cable, travel charger, or car cigarette adaptor. This will begin to charge the battery. Charging time is about 1 hours typically.







- When the Power LED is Red, battery power is low status. Please recharge.
- When the Power LED is Green, the battery is under charging mode.
- When the Power LED is blinking, the battery is fully charged.

NOTE 1: The Cigarette Adaptor can only be used to charge BT-Q1300. Please don't make use of it with devices other than BT-Q1300.

NOTE 2: Please recharge the battery on a regular interval if the unit is not used for a long time.

5-5. LED Indicators

| LED Status | | Flash | ON | OFF |
|------------------------------|---|---|------------------------------|---|
| Power (Red/Green) |  | Low Power (Red) Fully charged (Green) | Recharging (Green) | |
| Bluetooth (Blue) |  | Flash per 2 sec.: Bluetooth connected and transmitting Mode Flash per 5 sec.: Power saving mode | Not connected /Pairing | GPS not powered / Log Mode is on |

| | | | | |
|--------------------------|---|--|---|--------------------|
| GPS (Orange/ Blue) |  | Flash per 1 sec.(Orange): GPS position is fixed, Navigation | Detecting Satellite, GPS position not fix | GPS not powered |
| Log (Blue) |  | Log Mode is on Flash per 2 sec.(Blue): Low memory Flash 3 times(Blue): POI(Point of Interest) is recorded | Memory is full | Log Mode is off |

5-6. Function of Auto On-Off, Auto Log On-Off

Auto On-Off (Power saving mode): BT-Q1300 will automatically enter sleeping mode after the *Bluetooth* connectivity is turned off, so the Blue LED will turn to flash every 5 seconds. Thus you can always power it on with very low power consumption.

Under power saving mode, when detecting *Bluetooth* is being connected, BT-Q1300 will auto wake up itself and the blue LED will turn to flash every 2 seconds and GPS Orange LED will be also On.

Note: *Power saving mode would not function when log is enabled or connected with PC.*

Auto Log On-Off: Under Log mode, BT-Q1300 will automatically stop log after the GPS is not fix. However, the LED will not indicate it since it works in background. As long as the GPS is fix again, BT-Q1300 will start to log. Thus you can save very much memory during your travel.

6. Setup BT-Q1300

6-1. Install the driver and software utility for BT-Q1300

System Requirement (Only compatible with Microsoft Windows XP / Vista)

| Minimum System Requirement | Recommended System Requirement |
|---|---|
| <ul style="list-style-type: none">- Windows XP or Vista- Pentium 3, 500Mhz- 128M RAM- 128MB disk space- Network speed: 128Kbits/sec- 3D-capable video card with 16Mbytes of VRAM- 800x600, "16-bit High Color" screen | <ul style="list-style-type: none">- Windows XP- Pentium 4 2.4GHz+ or AMD 2400xp+- 512M RAM- 2 GB of free disk space- Network speed: 768 Kbits/sec or better (DSL/Cable)- 3D-capable video card with 32 MB of VRAM or greater- 1280x1024, "32-bit True Color" screen |

1. Please insert the Driver CD to your computer, and find the folder "Utility\PC Utility V4\". Double click "TravelRecorderV4_installer.exe" to install the software utility package. This software package contains USB driver and PC Utility V4 software inside.



2. System would pop up the utility installation dialog. Please click <Next> for the next step.



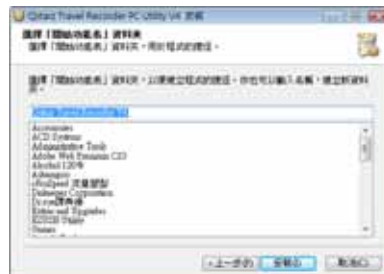
3. Please select "Travel Recorder PC Utility V4" and "GPS Data Log Device Driver", and then click <Next> to the next step. If you already installed USB driver, please unselect "GPS Data Log Device Driver."



4. Click <Next> if you want to install the program in default target folder or you can click <Explore> to change the install folder.



5. Give a folder's name for quick links in start menu and click <Install> to install the program.



6. When the utility installation is completed, please click <Finish> to reboot. Or you can also reboot later by selecting “No, I want to reboot later by myself.”



6-2. Install Google Earth

BT-Q1300 supports showing your travel path directly on Google Earth. Please go to <http://earth.google.com> for the free download of Google Earth, and then install it to your computer. For the operation procedure of Google Earth, please refer to <http://earth.google.com/support/>

7. Start to use

7-1. Fully charge the battery when using at the first time

A fully charged battery can last up to 12 hours continuously operation.

7-2. Connect BT-Q1300 with your PC

1. Please connect BT-Q1300 with your PC by mini USB cable.

2. Power on BT-Q1300



7-3. Start the software utility

NOTE 1: Before starting the software utility, please make sure that the USB driver and the software utility has been installed properly.

NOTE 2: PC Utility V4 only supports BT-Q1300. Any intention to use PC Utility V4 connecting GPS units other than BT-Q1300 would result in software disconnection automatically.

NOTE 3: Qstarz Travel Recorder PC Utility V4 can't be opened with Qstarz Travel Recorder PC Utility V3 simultaneously. Please execute either one of both or the program may experience unstable status.

1. Click from <Start> \ <All Programs> \ <Qstarz Travel Recorder V4> \ Travel Recorder PC Utility V4.

2. <File> \ <Read Log>



Download the log data from BT-Q1300.

2.1 Click <File> \ <Read Log> or the quick link icon.

2.2 Users have to input product key at the first time of use. The product key is located on the cover of the driver CD.



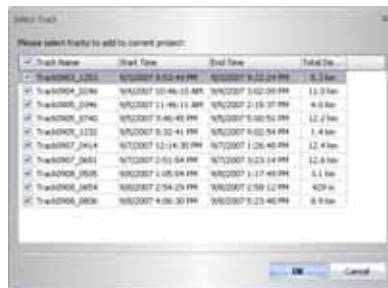
- 2.3 PC Utility will automatically detect the com port and baud rate and load in the GPS tracks.



If download process doesn't work well, please pull USB port out of Travel Recorder, turn off-on, and plug it in again to make connection.

You may also try to manually select com port to get more stable connection. Please refer to "4.1 Connection Setting."

2.4 A track list window will be popped up. Select the tracks to import.



2.5 Tracks will be shown on the Google Map window.



3. <File> \ <Clear Log>

Clear the data stored in the Travel Recorder.

**4. <File> \ <Config GPS>**

Configure the recording method of the flash memory of Travel Recorder.

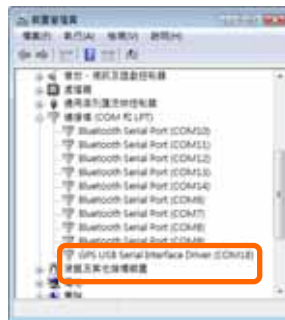
**4.1 Connection Setting****I. Auto Scan GPS Module (Recommended)**

The program will automatically detect the com port. It is recommended to set to auto scan.

II. Manual Setting

Users can also manually set the port. Although it can speed up the initial connect time, but it is not recommended unless users understand the valid port.

To find the valid com port, please go to <Device Manager> and expand the <Ports (COM & LPT)> and check “GPS USB Serial Interface Driver” to see which COM port is assigned to Travel Recorder. (COM18 is for example)



4.2 GPS Log Setting

There are 4 log modes: General mode, vehicle mode, cycling mode, and hiking mode. Users can also change the default setting of these 4 modes.

Log every () seconds:

If the criterion is checked, Travel Recorder will not log if difference between current time and last logged time is less than the specified time.

Log every () meters:

If the criterion is checked, Travel Recorder will not log if the distance of current position and last logged position is less than the specified distances.

Log over () km/h:

If the criterion is checked, Travel Recorder will not log if the speed is under the setting.

4.3 Data Log Memory

A bar show how many percentage of memory is used in the Travel Recorder.

Overwrite:

When the memory is full, Travel Recorder will keep logging by overwriting the memory from the earliest point.

Stop Log:

When the memory is full, Travel Recorder will stop logging.

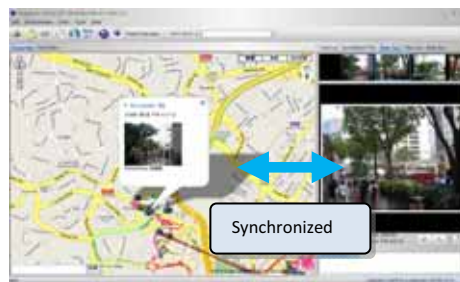
5. <Photo/Media> \ <Add Media Files>

Users can add media files from a file folder, or selected files.

5.1 Add media files from a folder: Select a folder to add media files.

Add media files from selected files: Use Ctrl-Click, or Shift-Click to select multiple files.

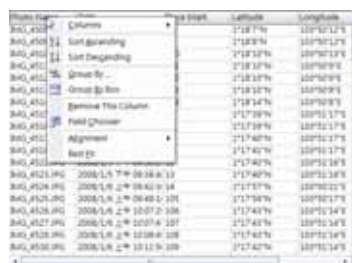
5.2 After photos are added, all photos will be shown on the **<Photo View>** and **<Photo List>** window. Under **<Photo View>** window, Users can click on the “next photo” and “prev photo” buttons to browse photos, add comment to each photo, and rotate, delete photos. PC Utility will automatically match photos and GPS logged waypoints by time.



5.3 <Photo List> window will show the properties of photos. The information includes “file name”, “date”, “place mark”, “latitude”, “longitude”, and “Geotagged flag”.

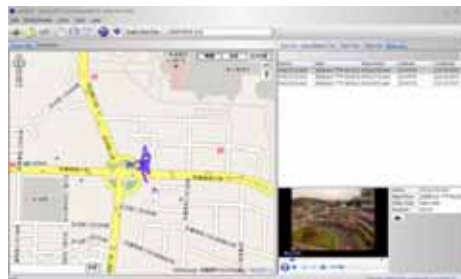


Click right mouse button on a column. You can choose **Column Type**, **Column Size**, **Sort** or **Group** data.



| Photo File | Columns | Time Stamp | Latitude | Longitude |
|--------------|--------------------|-------------------------|------------|-------------|
| BQ1_4509.JPG | Columns | | 21°18'7"N | 103°02'12"E |
| BQ1_4509.JPG | Sort ascending | | 21°18'7"N | 103°02'12"E |
| BQ1_4509.JPG | Sort descending | | 21°18'13"N | 103°02'17"E |
| BQ1_4509.JPG | Group By... | | 21°18'13"N | 103°02'09"E |
| BQ1_4509.JPG | Group By Size | | 21°18'13"N | 103°02'09"E |
| BQ1_4509.JPG | Remove This Column | | 21°18'14"N | 103°02'09"E |
| BQ1_4509.JPG | Field Chooser | | 21°17'39"N | 103°02'17"E |
| BQ1_4509.JPG | Alignment | | 21°17'40"N | 103°02'17"E |
| BQ1_4509.JPG | Reset | | 21°17'40"N | 103°02'17"E |
| BQ1_4521.JPG | | 2008/1/8 7:00:18.8: 13 | 21°17'40"N | 103°02'18"E |
| BQ1_4524.JPG | | 2008/1/8 2:00:40.9: 14 | 21°17'37"N | 103°02'22"E |
| BQ1_4525.JPG | | 2008/1/8 2:00:46.1: 15 | 21°17'36"N | 103°02'17"E |
| BQ1_4526.JPG | | 2008/1/8 2:00:57.2: 16 | 21°17'43"N | 103°02'14"E |
| BQ1_4527.JPG | | 2008/1/8 2:00:57.6: 167 | 21°17'43"N | 103°02'14"E |
| BQ1_4528.JPG | | 2008/1/8 2:00:58.6: 168 | 21°17'43"N | 103°02'14"E |
| BQ1_4529.JPG | | 2008/1/8 2:00:59.9: 169 | 21°17'42"N | 103°02'14"E |

5.4 <Media List> window will show the properties of media files, including sound and video. The program will also find matched locations on map for media files based on time. You can **Preview** and even extend screen to full screen by **Full Screen** button.



6. <Photo> \ <Shift Photo Time>



will invoke the shift photo time window. All photos will be added (or subtracted) the specified time. The dates are saved in the Exif parts of Jpeg or Tiff file. After the shift, PC Utility will automatically match the photo and track waypoints again. Users can put more than 365 in days.



7. <Photo> \ <Write GPS Info into Photos>



will save the latitude, longitude, and altitude information into photo. A progress window will show the writing progress.



8. <Photo> \ <Upload Photos to Flickr>



will invoke upload wizard. Users can set "Title", "description", "Tag", "Public or Private", and "Upload photo size".



If you want to upload geotagged photos directly on Flickr web site:
You have to turn on the following option. "Your Account">"Privacy & Permissions">"Import EXIF location data: Yes"
After the option is turned on, the uploaded photo will be put on map.
Go to Flickr > "You" > "Your map", you can browse your photos on the map.

9. <File> \ <View in Google Earth>



will invoke Google Earth to view the tracks and photos. Please install Google Earth previously in order to activate this feature.



10. <File> \ <Export as KMZ>



Save the tracks and photos in kmz file. Users can use Google Earth to load in such file format.

The picture size packed in the kmz file can be set in the options dialog.

<Tools> \ <Options> \ <Google Earth> \ <Photo size in KMZ>

11. <Display Time Zone> <Photo Time Zone>

There are two time zone settings in "Travel Recorder PC Utility". One is "Photo time zone", the other is "Display time zone". "Photo time zone" is set to the same time zone of your digital camera. The "Display time zone" is set for displaying purpose.

For example, if you live in England and you travel to United State, the "Photo time zone" should be set to "England" because your digital camera time zone is in England, and the display time zone should be set to "United State".

The "Photo time zone" by default is set to the PC default value. In most of the case the default value is correct.

<Tools> \ <Options> will invoke the options dialog. You can set <Photo Time Zone> in the dialog.

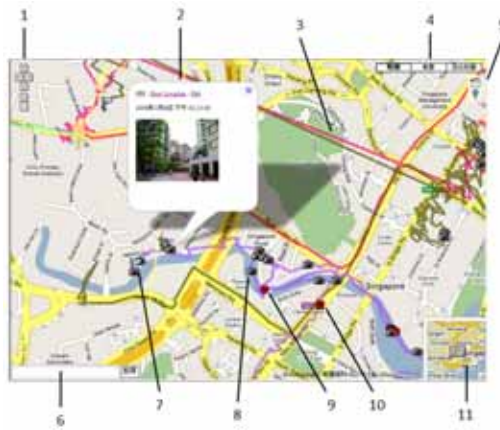


The <display time zone> setting is in the status bar.



12. <Google Map>

Google Map is a free map service that you view in the PC Utility V4. Click and drag maps to view adjacent sections immediately. View satellite image with or without map data of your desired location that you can zoom and pan.



12.1 Navigation Control

Arrows:

Click the appropriate arrow buttons to move the view north, south, east or west.

Zoom:

Click + to zoom in on the center of the map. Click to zoom out.



Zoom slider:

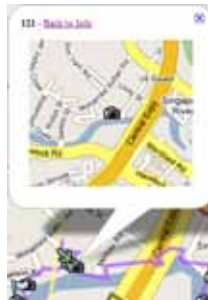
Drag the zoom slider up or down to zoom in or out incrementally.

12.2 Info Window

Info windows appear when you click a marker and display additional information about the location, such as photo and start point.

Show Location:

will show the zoomed in location of a waypoint.



Edit:

Allow you to edit detail information of a waypoint. You can also add photos in or delete photos from single waypoint.



12.3 Track

Display tracks recorded by Travel Recorder. You can move cursor to a track and hold a while to show the info of a waypoint.




12.4 Views

Click these to display different views, including aerial images and street level imagery.


12.5 Special Functions

Slide Show:

Click  to activate photo slide show.



Place Mark:

Click  to add a place mark on map. then the "Place Mark Property" dialog will pop up for editing.



12.6 Search Bar

Allow you to search any location on map.

12.7 Start Point

The start point of a track with a small flag.

12.8 Camera

To signify the locations of your photos.

12.9 Point of Interest (Push to Log)



To signify the locations when you press POI button.

12.10 Place Mark

To signify the locations when you manually add place marks.

12.11 Overview map

This view shows the location of current map view. The overview map appears in the bottom right corner of the map. It helps orient you by showing the location of current map

view in the context of a larger geographical area. The area currently displayed in the map is shown as a purple box in the overview map. At any time, click  to hide the overview map or click  to display it again. As you pan or zoom in the map, the view of the overview map changes accordingly. You can change the existing view in the map by doing one of the following:

- Drag and drop the purple box in the overview map.
- Drag and drop the area outside the purple box to pan the map.

13. <Track Editor>

Switch to folder "Track Editor" on the left window. Move the cursor on the track will show the preselected waypoint time. Click on track to select the whole track.



Undo erases the last change done and reverts it to an older state.

Redo reverses the undo or advances the buffer to a more current state.

Area Selection allows you to select multi-waypoint by clicking and holding mouse left button until an area being selected.



Delete a waypoint or a whole track.

Property shows the "Place Mark Property" dialog for editing.

Drag a waypoint when it drift to a improper location.

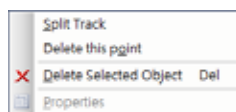


Right click mouse button:

Split Track will split the track into two tracks.

Delete this point will delete the selected waypoint.

Delete Selected Object will delete the selected track.



You can also select multi-waypoint by the windows common selecting function: **Shift Select**, and **Ctrl Select**.

14. <Track List>

Switch to <Track List> window will show all the tracks and its properties loaded from Travel Recorder. Select any one of tracks and the center of map will move to the location of start point of that track. You can **Rename**, **Delete**, change **Color** and **Line Width** of tracks. Changes will be synchronized immediately on map.

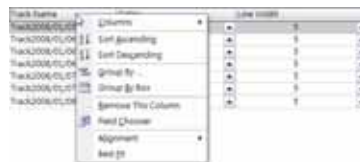


Play shows your travel log by means of animation. You can adjust the **flow speed** and use **scroll bar** to forward or backward.

Photo Slide Show allows the program activate slide show when playing process encounters any matched photos on

tracks.

Click right mouse button on a column. You can choose **Column Type, Column Size, Sort** or **Group** data.



15. <Altitude Graph> / <Speed graph>

Switch to <Speed/Altitude View> window will show the speed and altitude graph. The waypoints with photos on it will be marked with red square. Moving cursor on red square will display the photo. You can pan left, pan right, zoom in, zoom out in the speed or altitude graph.

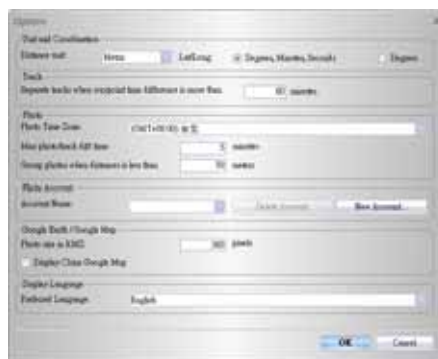


16. <File> \ <New Project> <Open Project> <Save Project> <Save Project As>

Save Project will save the tracks and photo as a project file.

Open project will open the saved project. The project, photos, and photo comments will be restored after the project opened.

17. <Tools> \ <Options>



<Unit and Coordination>

Distance unit:

Metric: Kilometer / meters will be used for displaying.

Imperial: Miles / feet will be used for displaying.

Lat/Long:

Degrees, minutes, seconds: Latitude and longitude will be display like 23°12'20"

Degrees: Latitude and longitude will be display like 23.22152°

<Photo>

Photo Time Zone:

Please refer to Title 11.

Max photo/track diff time:

The setting is used to match photo and track waypoints. PC Utility V4 will match photos and waypoints by time. It will find the nearest waypoint time to locate the photo. Yet, if the closest waypoint time is more than the “Max photo/track diff time”, it will not match the photo.

Group photos when distance is less than:

This setting can organize specific range of photos into just one waypoint which allows you to avoid massive place marks sticking together when you take too many photos in one location.

<Flickr Account>

Please refer to Title 8.

<Google Earth / Google Map>

Photo size in KMZ:

The size of the photos packed in the KMZ file. It is related to the command “File” > “Export As KMZ...”

<Display Language>

Preferred Language:

Set the languages for menu, buttons and messages.

8. Useful reference Applications on the internet

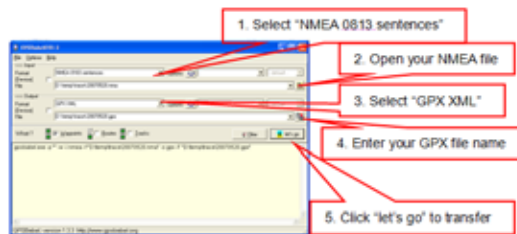
8-1. locr GPS Photo

BT-Q1300 is the member of locr GPS Photo certified product. This utility can integrate travel log and digital photos by date/time to show your photos on the map directly. After the integration, the current GPS coordinates also can be imported to your digital photos for the further application. Please find the installation file for Windows XP/Vista or Symbian system in Qstarz GPS CD. Go to <http://www.locr.com> for the further information.



8-2. GPSTBabel

This utility can transfer your NMEA file to GPX file or other format.
Please go to <http://www.gpsbabel.org> for free download.



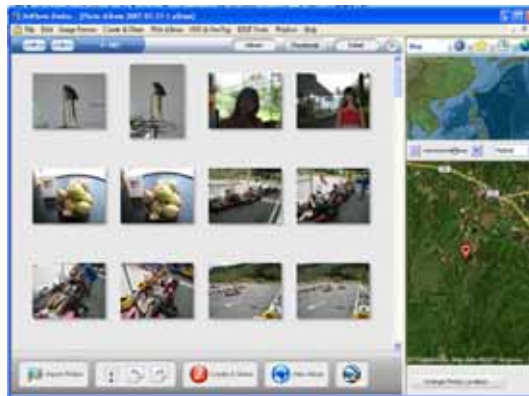
8-3. SPORTSMATE

This web site can share your travel log with your friends. Before sharing your trip, please apply a new account first. Please go to <http://www.ttsm.com> for the further information.



8-4. JetPhoto Studio

This utility can integrate travel log and digital photos by date/time to show your photos on the map directly. After the integration, the current GPS coordinates also can be imported to your digital photos for the further application. Please go to <http://www.jetphotosoft.com> for free download.



8-5. VeoGeo

This website allows you to combine travel log and video by date/time to show your video on the map directly. Please go to www.veogeo.com for further information and register for a free new account.



9. Trouble Shooting

| Question | Answer |
|--|---|
| Can BT-Q1300 be used to navigate when travel log is on? | Yes, you can use BT-Q1300 to navigate when travel log is on simultaneously. |
| I lost my travel charger. Where can I find replacements for both? | DC Input range of BT-Q1300 is 4.5~5.5V. You can use a travel charger which support DC output range from 4.5~5.5V. You can also use a common mini USB cable to charge your unit via the laptop. |
| How can I know if my memory is full? | If you see the Log LED is steady lighted up, which means the memory is full. |
| I noticed that the internal clock time is 1 hour behind, how can I do? | There is no internal clock delay; it is UTC time (Greenwich time) that confused you. For local time, you can adjust under <Tool> \ <Option> and see the local Date/Time under "Satellite Information" tab of utility. |
| Can the logged data be downloaded by Bluetooth? | Actually it's okay for Q1300 to download data via Bluetooth interface. However, since it is not stable and with lower download performance than that of USB interface, we don't officially admit this feature. |

10. Appendix

Navigate as a *Bluetooth* GPS Receiver with Handheld devices

10-1. Activate the *Bluetooth* function in your PDA/Smart phone or PC

Before activating the *Bluetooth* function in your PDA/PC, please switch BT-Q1300 on for pairing and check if your device is equipped with *Bluetooth* function. If not, you may need to acquire an optional CF/SD *Bluetooth* card or *Bluetooth* dongle.

NOTE 1:

BT-Q1300 would be identified as "Qstarz GPS" under Bluetooth Manager. In further use, you just need to click it to connect to this GPS Travel Recorder.

NOTE 2:

The pairing procedure is required to execute in the first time only. And the pass code is "0000" if required.

NOTE 3:

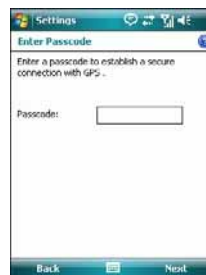
Select correct com port and baud rate : 115200 under your navigation software (Most of navigation software can auto-detect Bluetooth Com port, so you do not need to setup manually).

10-2. Create *Bluetooth* Setting (Windows Mobile 5/6 for Pocket PC)

1. Switch **BT-Q1300** on.
2. From the **Start** menu, click **Settings**. On the **Connections** tab, click the *Bluetooth* icon
3. On the **Devices** tab, click **Add New Device...** The settings application will search for your device. When it is found, click **Next**.



4. Enter the passcode "0000" and click **Next**.



5. On the **Partnership Settings** screen, select **Serial Port** and click **Next**



6. Select the **Mode** tab and check the **Turn on Bluetooth** checkbox if it is not already checked.



7. Select the **COM Ports** tab and click **New Outgoing Port**



8. Select “Qstarz GPS” from the **Add a Device** list and click **Next**



9. Uncheck **Secure Connection**. From the **Port** drop-down list, select a port number. Remember the port you choose. You will need it when you configure the GPS Intermediate Driver.

10. Click **Finish** and exit the *Bluetooth* Control Panel item.



10-3. Configure the GPS Intermediate Driver

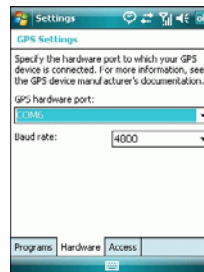
The GPS Intermediate Driver is a software layer between a Windows Mobile application and the GPS hardware drivers. This allows applications to work with a variety of GPS hardware. The GPS Intermediate Driver uses the registry to determine what COM port should be used to communicate with the GPS hardware. The recommended way to configure the registry to work with your GPS device is the GPS Settings icon

1. From the **Start** menu, click **Settings**. On the **System** tab, click the **External GPS** icon. On some devices, this item has a different name.

2. On the **Programs** tab, select any available COM port from the **GPS Program Port** drop-down list. The GPS data sent through the GPS Intermediate Driver is streamed to applications through this port. This should not be the same port that your GPS receiver is configured to use. If your application can't receive GPS data stream, leave **GPS Program Port** for empty. Applications will use **GPS Hardware Port** as communication port.



3. On the **Hardware** tab, select the COM port BT-Q1300 is configured to use from the **GPS Hardware Port** drop-down list



4. On the **Access** tab, make sure that the **Manage GPS Automatically** checkbox is checked



10-4. Start your navigation software

Activate your navigation software and make sure to select the correct "COM Port".

NOTE 1:

In the map software such as TomTom, you might need to change preference and set "Other Bluetooth GPS Device" according to PDA/phone model. In some case please consult map software company to vary the setting if you have issue on positioning.

NOTE 2:

There might be specific setting requirement per navigation software. Such as Tomtom, please delete other GPS settings under Tomtom software, and keep one only.

10-5. Safety Notices

R&TTE / CE Notice

This device is confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (89/336/EEC), Low-voltage Directive (73/23/EEC) and the Amendment Directive(93/68/EEC), the procedures given in European Council Directive 99/5/EC and 89/336/EEC.

The equipment was passed. The test was performed according to the following European standards:

EN 300 328-2 V1.2.1 (2001-08)

EN 301 489-1 V1.4.1 (2002-04) / EN 301 489-17 V1.2.1 (2002-04)

EN 50371: 2002

EN 60950: 2000

FCC Notice

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

Spec. is subject to change without prior notice.

All rights reserved. All registered trademark is belong to their respected companies.

FCC statement in User's Manual (for class B)

"Federal Communications Commission (FCC) Statement

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

1. The 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.
2. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.
3. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.