BT-Q1200 Super 99® GPS Travel Recorder





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## 1. Overview

Thank you for choosing Qstarz Super 99<sup>®</sup> **BT-Q1200** - Bluetooth Solar GPS Travel Recorder, built-in new generation GPS chipset MTK with 51 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-Q1200** 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

- Please take out the battery and store it in dry/cool places when not use for a long period.
- If BT-Q1200 isn't used in temperature between -10°C ~ 60°C, its battery charging capability will decrease. Leave the BT-Q1200 far from heat or high temperature environment. And also, do not expose your BT-Q1200 in temperature higher than 140°F/60°C to prevent the battery inside BT-Q1200 from overheating, exploding or burning itself. The Lithium battery inside the BT-Q1200 should be recycled.
- It is recommended to turn BT-Q1200 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 close. Do not use harsh cleaning solvents, chemicals, alcohol, or strong detergents.
- Do not attempt to open BT-Q1200 by yourself. Unauthorized hacking may damage the unit, and void your warranty.

## 3. Features

- Super 99<sup>®</sup> Bluetooth GPS Travel Recorder with 51ch performance and 48hrs navigation time (\*1)
- Adopt MTK chipset with high sensitivity -158dBm with fast FFTT
- The innovative GPS Travel Recorder to adopt solar panel with the slim type designed
- Dual Power Supply Built in rechargeable Li-Ion battery & Solar power
- Support "One Touch" to turn On/Off LOG mode
- Stand-Alone travel recorder to log up to 200,000 records (\*2)
- Provide PC utility with friendly UI and Multi-Language
- Support Multi-Mode setting to record data Vehicle, Bicycle, Jog)
- Draw your navigation path immediately on Google Earth as default
- Support GeoTagging function for digit photo and generate KMZ file easily
- Active NMEA protocol VTG / GLL manually via Qstarz setup tool
- · Save the travel records as GPX / PLT / CSV / NMEA / Google Earth file format
- Support WAAS+EGNOS+MSAS
- Auto On-Off function for smart power control
- Personal/Portable Navigation (PDA, Smartphone, PC, etc.)
- \*1 BT-Q1200 can be extended up to 48 hours usage under enough sunlight (24 days usage with 2 hours navi per day)
- \*2 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	51-CH Performance			
Antenna (Internal)	Built-in patch antenna with LNA			
Sensitivity	Tracking -158dBm			
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 36/33/1 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-io	n battery, Up to 48 hrs by dual power			
Bluetooth				
Standard	Fully compliant with Bluetooth V1.2			
Bluetooth Profile Serial Port Profiles (SPP), Up to 15 meters				
Others				
Size / Weight	88.5 (L) X 56 (W) X 13.5 (H) mm/ 64g (battery included)			
Operating Temperature	- 10 ℃ to + 60 ℃			
Storage Temperature	- 20 ℃ to + 60 ℃			
Charging	0 °C to + 45 °C			

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## 5. Hardware Introduction

## 5-1. Appearance

- 1. Power jack (mini USB type)
- 2. Power Button (ON/OFF/Enable LOG mode/Disable LOG mode)
- 3. Battery status LED (Red/Green)
- 4. Bluetooth status LED (Blue)
- 5. GPS status LED (Orange)
- 6. LOG status LED (Blue)
- 7. Internal antenna
- 8. Solar panel (Auxiliary power source)



## 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 3 sec to power BT-Q1200 on.
Power Button (Off)	Press power button and hold for 3 sec to power BT-Q1200 off
Power Button (Enable Log mode)	After power BT-Q1200 on, press power button once to enable log mode. Then BT-Q1200 would start logging with the blinking LOG status LED (blue).
Power Button (Disable Log mode)	Press power button again to disable log mode. The LOG status LED (blue) would be off, and stop logging.

## 5-3. Battery installation

#### - Put Battery in place:

1. Press the PUSH button on the bottom side of the unit



2. Pull out the battery cover. Insert battery in the unit





- Take Battery out: 1. Press the PUSH button on the bottom side of the unit



2. Pull out the battery cover and take out the battery from the unit.



### - Charging your battery

For the first time using the BT-Q1200, 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 3 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.

### 5-4. LED Indicators

LED Status		Flash	ON	OFF
Power (Red/Green)	C.1111	Low Power (Red) Fully charged (Green)	Recharging (Green)	
Bluetooth (Blue)	$\gg$	Flash per 2 sec.: Bluetooth connected and transmitting Mode Flash per 5 sec.: Power saving mode	Not connected /Pairing	GPS not powered / Enable Log Mode
GPS (Orange)	$\bigotimes$	<u>Flash per 1 sec.(Orange)</u> : GPS position is fixed, Navigation	Detecting Satellite, GPS position not fix	GPS not powered
Log (Blue)	ШŃ	Enable Log mode		Disable Log mode

## 5-5. Function of Auto On-Off (Power saving mode)

BT-Q1200 supports **Auto On-Off** (Power saving mode). It can 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-Q1200 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.

## 6. Setup BT-Q1200

## 6-1. Install USB Driver

#### NOTE:

The USB driver of BT-Q1200 only supports Microsoft Windows system (Win XP / Win Vista).

1. Please insert the Driver CD to your computer, and find the folder "USBDriver\Windows\_2K\_XP\_S2K3\_Vista". Double click "CP210xVPInstaller.exe" to install the USB driver.



2. System would pop up the driver installation dialog. Please click <Install> to install the driver.

😤 Silicon Laboratories CP210x USB to	UART Bridge Driver Installer 🛛 🔀
Silicon Laboratories Silicon Laboratories CP210x USB 1	o UART Bridge
Installation Location:	Driver Version 4.40
C.\Program Files\Silabs\MCU\CP210x\	
Change Install Location	Install Cencel

3. After completing the installation, please click <Yes> to restart your computer for taking effect of new setting. Driver installation dialog will show up. Please click <Install> to install the driver.

System 9	Settings Change 🛛 🕅 🕅
?	You must restart your computer before the new settings will take effect.
	Do you want to restart your computer now?
	Yes No

### 6-2. Install the software utility for BT-Q1200.

1. Please insert the Driver CD to your computer, and find the folder "Utility". Double click "setup.exe" to install the software utility.



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



3. Please select "I accept the terms in the license agreement", and then click <Next> to the next step.



4. Please entry user name and organization and then click <Next> to the next step. (You can also click <Next> directly without any entry)

🛃 Travel Recorder PC Utility - InstallShield Wizard	
Customer Information Please enter your information.	
∐ser Name:	
Organization:	
Install this application for:	
<ul> <li>Anyone who uses this computer (all users)</li> <li>Only for me ()</li> </ul>	
TeachelChield	
Linscaloniela	ext > Cancel

5. Please select "Typical" and then click <Next> to the next step.



6. Check again if all the settings are correct. Then please click <Install> to start the utility installation.

🛃 Travel Recorder PC Utility - InstallShield Wizard	X
Ready to Install the Program The wizard is ready to begin installation.	Þ
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:	
Setup Type: Typical	
Destination Folder: C:\Program Files\Qstarz\	
User Information: Name: Company:	
InstalShield	

7. When the utility installation is completed, please click <Finish> to exit the installation dialog.



### 6-3. Install Google Earth

BT-Q1200 supports showing your travel path directly on Google Earth. Please go to <u>http://earth.google.com</u> for the free download of Google Earth, and then install it to your computer. For the operation procedure of Google Earth, please refer to <u>http://earth.google.com/support/</u>

## 7. Start to use

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

A fully charged battery with solar power can last up to 48 hours continuously operation (under optimum conditions and sufficient light).

## 7-2. Connect BT-Q1200 with your PC

- 1. Please connect BT-Q1200 with your PC by mini USB cable.
- 2. Power on BT-Q1200 and switch it to start logging



3. Check the COM port no. your PC is assigned for BT-Q1200.

#### NOTE:

Before checking the COM port, please make sure USB driver has been installed properly.

- 3.1 Go to <Start> \ <Settings> \ <Panel Control> \ <Performance and Maintenance> \ <System>
- 3.2 Select <Hardware> tab and then click <Device Manager>
- 3.3 Expand the <Ports (COM & LPT)> and check "CP210x USB to UART Bridge Controller" to see which COM port is for BT-Q1200. (COM4 is for example)

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## 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. And also, make sure that BT-Q1200 is already connected to your PC by mini USB cable, power it on, and switch it to start logging or BT-Q1200 would enter sleep mode after few minutes. NOTE 2:

PC Utility V3 only supports BT-Q1200. Any intention to use PC Utility V3 connecting GPS units other than BT-Q1200 would result in software disconnection automatically.

1. Click from <Start> \ <All Programs> \ <Qstarz Travel Recorder V3> \ Travel Recorder PC Utility V3.

2. < CONFIGURATION > \ <Connection>

## BT-Q1200 Super 99<sup>®</sup> GPS Travel Recorder Establish the communication between BT-Q1200 and your PC.

- 2.1 Click < CONFIGURATION > tab \ <Connection> button.
- 2.2 Select COM port (refer to 7-2, item 3) and set the baud rate to 115200.
- 2.3 Click <Connect> button to establish the communication between BT-Q1200 and your PC.

R Contra DPE Travel Recenter PC Distry 🔽 🗖 🔀			Click "Scan" button to search available COM		
Configuration	Satellite info	Photo Manager	port for your selection		
Chei	Com Port Coul Baud Rate 115200	a see			
OST/AZ	Disconnect	Connect			

#### 3. < CONFIGURATION > \ <User Mode>

BT-Q1200 utility provides three user modes (Basic / Advanced / Professional) for your personal setting. You can complete the settings by each user mode per your requirement. Setup the user mode for your personal setting before logging your travel path.

#### NOTE 1:

The new setting has to erase all the data in the memory. During setting process, BT-Q1200 will stop logging and start logging again after setting completed.

#### NOTĖ 2:

- Basic Mode usually is for your daily log.
- Advanced Mode can help you to measure the speed for your needs.
- If you need more detail information for the specific purpose, you can use

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Professional Mode to complete your settings.

- 3.1 Click < CONFIGURATION > tab \ <User Mode> button.
- 3.2 Select one of user modes (Basic / Advanced / Professional) for personal setting
  - 3.2.1 Basic Mode provides simple setting for you. Select the transportation gear (Vehicle / Bicycle / Jog) you will use, and then click <SET> to set specific values to BT-Q1200. The detail is as following.

Basic Mode	AutoLog Option	Output Period	Log Format
Log for Vehicle (3 sec)	Log every 3 sec	GGA,	UTC, VALID,
Log for Bicycle (5 sec)	Log every 5 sec	GSA, GSV,	LATITUDE, LONGITUDE,
Log for Jog (10 sec)	Log every 10 sec	RMC	RCR

Configuration	(R 5)	atellite info	DataLog I	list	Photo Manager
Correction	Basic	Advanced asic Mode * Log fo C Log fo	Professional or vehicle (3 Sec) or bycycle (5 Sec or jog (10 Sec)	, )	
er.407				-	Set

3.2.2 Advanced Mode let you setup two parameters. Select the transportation

 $$\rm BT-Q1200\ Super\ 99^{\odot}\ GPS\ Travel Recorder gear (Vehicle / Bicycle / Jog) you will use and you can modify the default value for your requirement, and then click <SET> to set the updating and specific value to BT-Q1200. The detail is as below.$ 

#### Log for Vehicle

Advanced Mode	AutoLog Option	Output Period	Log Format
	Time: 1~999 (3 secs as default)	GGA,	UTC, VALID, LATITUDE,
Log for Vehicle (Time + Speed)	Speed: 10~999 (60km/h as default)	GSA, GSV, RMC	LONGITUDE, HEIGHT, SPEED, RCR, DISTANCE, NSAT, HDOP

How BT-Q1200 log waypoints with the settings (3secs, 60 km/h)

- When the speed is below 60km/h, BT-Q1200 would log one waypoint per 3 seconds.
- When the speed is above 60km/h, it would log one waypoint per second.

#### Log for Bicycle

Advanced Mode	AutoLog Option	Output Period	Log Format
Log for Bicycle	Distance: 10~9999 (40m as default)	GGA,	UTC, VALID, LATITUDE,
(Distance + Speed)	Speed: 10~999 (25km/h as default)	GSA, GSV, RMC	LONGITUDE, HEIGHT, SPEED, RCR, DISTANCE, NSAT, HDOP

How BT-Q1200 log waypoints with the settings (40m, 25 km/h)

- When the speed is below 25km/h, BT-Q1200 would log one waypoint per 40 meters.
- When the speed is above 25km/h, it would log one waypoint per second.

#### Log for Jog

Advanced Mode	AutoLog Option	Log Option Output Period	
Log for Jog (Distance +	Distance: 10~9999 (30m as default)	GGA, GSA.	UTC, VALID, LATITUDE.
Speed)	Speed: 10~999	GSV,	LONGITUDE,

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	-			
	(10km/h as default)	RMC	HEIGHT, SPEED,	
			RCR, DISTANCE,	
			NSAT, HDOP	
How BT-Q1200 log waypoints with the settings (30m, 10 km/h)				

- When the speed is below 10km/h, BT-Q1200 would log one waypoint per 30 meters.
- When the speed is above 10km/h, it would log one waypoint per second.

Qutarz 075 Travel Recorder 70 File Configuration View Tool Le	Ublity agaige Bolp	
🕖 Configuration	🚱 Satellite Info 📝 DataLog List	Photo Manager
Connection	Basic Advanced Professional	
User Mode	Log every second(s) Log over 60 KM/h	
Other	C Log for bicycle	
	Log every 40 second(s) Log over 25 KM/h	
	C Log for jog	
	Log every 30 second(s) Log over 10 KM/h B	
OST, AZ		Set

3.2.3 Professional Mode provides three sections for your detailed settings manually, including Output Period, AutoLog Option, and Log Format. After complete all settings, click <SET> to set the values to BT-Q1200. The detail is as below

#### (1) Output Period

#### - Description

- 1. NMEA setting here only affects the NMEA sentences for navigation. There's nothing to do with data recording.
- 2. The default settings: GGA, GSA, GSV, RMC
- 3. Check the checked box of GLL, VTC, ZDA to enable the protocol.
- 4. Adjust the Period (s) for sentence update rate (For example, GLL (3)

BT-Q1200 Super 99 $^{\circ}$  GPS Travel Recorder means GLL sentence is updated per 3 seconds.

Contarz 075 Travel Recorder FC Utility					
File Configuration View Tool Le	agungs Help				
	Satellite Info	📝 DataLog List	Photo Manager		
Connection	Basic Advanced Profe	ssional			
User Mode	NMEA Sentence	Sec/Hz			
Other	GGA GLL	1			
	GSA	1			
	GSV	1			
	RMC	1			
	VTG	1			
	ZDA	1			
			Set		
	Output Period AutoLog Option	Log Format			

#### (2) AutoLog Option

#### - Description

- 1. Provide three conditions (Time, Distance, Speed) for setting your log interval.
- 2. Support multi-settings (Time+Distance+Speed) for your log interval.
- 3. Time interval is between 1~999 second(s).
- 4. Distance interval is between 10~9999 meters.
- 5. Speed interval is between 10~999 km/h.

	C: Sataline into	. 🗾 📈	Data Log L	in .	Photo Ma	nager
Connection	Basic Advanced	Invery Log every g over terval	( 10 10 (10 (10) (- 999 (- 9995)	0 0	saccond(s) meter(s) sm/h	
	10 <- Distanc					

#### - How BT-Q1200 log waypoints with different settings

AutoLog Setting	Description
Log every X seconds	BT-Q1200 would log one waypoint per X seconds.
Log every Y meters	BT-Q1200 would log one waypoint per Y meters.
Log over Z km/h	When the speed is above Z km/h, it would log one waypoint per second.
1. Log every X seconds 2. Log every Y meters	BT-Q1200 would log one waypoint per X seconds or per Y meters, depends on which condition meets the setting (distance / time) first.
1. Log every X seconds 2. Log over Z km/h	<ul> <li>When the speed is below Z km/h, BT-Q1200 would log one waypoint per X seconds.</li> <li>When the speed is above Z km/h, it would log one waypoint per second.</li> </ul>
1. Log every Y meters 2. Log over Z km/h	<ul> <li>When the speed is below Z km/h, BT-Q1200 would log one waypoint per Y meters.</li> <li>When the speed is above Z km/h, it</li> </ul>

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	would log one waypoint per second.
1. Log every X seconds 2. Log every Y meters 3. Log over Z km/h	<ul> <li>When the speed is below Z km/h, it would log one waypoint per Y meters or per X seconds, depends on which condition meets the setting (distance / time) first.</li> <li>When the speed is above Z km/h, it would log one point per second.</li> </ul>

#### (3) Log Format

#### - Description

- 1. Setup which information you want to record for each logging point.
- 2. The default recording fields are UTC, VALID, LATITUDE, LONGITUDE, HEIGHT, SPEED, RCR, and DISTANCE.

#### - The table of Format Type

Format Type	Item	Description	
UTC	Date/Time	Universal Coordinated Time, formerly GMT or Greenwich Mean Time.	
	Mili-second	Mili-second	
Fix Mode	VALID	Data fix or not	
	Latitude	A north/south measurement of position perpendicular to the earth's polar axis.	
Navigation	Longitude	An east/west measurement of position in relation to the Prime Meridian, an imaginary circle that passes through the north and south poles.	
	Height	The altitude of a place above sea level or ground level.	
	Speed	Rate of motion	
	Heading	The compass direction in which the longitudinal axis of a ship or aircraft	

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		points	
Differential	DSTA	DGPS station ID number	
Data	DAGE	Time in seconds since last DPGS update	
	PDOP	(Positional Dilution Of Precision) ; Position accuracy; 3D-coordinates	
DOP	HDOP	(Horizontal Dilution Of Precision); horizontal accuracy; 2D-coordinates	
	VDOP	(Vertical Dilution Of Precision); vertical accuracy; height	
Method	RCR	Record method: Speed/ Time/ Distance/ POI Button	
	NSAT	Number of Satellite (in Used, in View)	
0	SID	Satellite ID	
Satellite Information	Elevation	The elevation of the satellite	
	Azimuth	Line-Of-Sight angle of the satellite	
	SNR	Signal to Noise Ratio	
Other	Distance	The distance between two logging points	

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Configuration	Satulite Info	📂 Data Log List	Photo Manager
Correction	Basic Advanced Pro	ofessional	
	NHEA Se lection	Other Selection	
User Mode	GGA GLI GSA GS	V Clear All	Select Default
	RMC VTG ZDA	Select All	Select for Google Earth
Ohe	UTC Date Time Minis Second Fixed Mode Valid Nardjation Langhode Unified Height	Offreemial Data D DSTA D DSTA D DAGE DGP P PDOP P VDOP Other P Distance	Statelike Indonastion P RSAT Stip Elevation Stift Stift Record Reason P RCR
	Output Period AutoLog Option	n Log Format	Set

#### 4. < CONFIGURATION > \ < Other>

Setup the recording method for the flash memory of BT-Q1200 under <Other>.

Click <CONFIGURATION> tab \ <Other> button.

The default setting is <Stop>. When the flash memory is full, BT-Q1200 will stop logging data. If you want to record new data, you must erase all data in the flash memory.

Click <Overwrite> to change to Overwrite method. Then system will pop up a message box to notify you "Overwrite is set". When the flash memory is full, BT-Q1200 will overwrite the memory data. So the previous data will be updated as newer.

Cotare OPS Travel Recorder PO	: Utility		
File Configuration View Tool Le	agaaga Belp		
Configuration	Satellite Info	📝 DataLog List	Photo Manager
Connection	Recording Method		
User Mode	Overwrite	Stop	
Other			

#### 5. <SATELLITE INFORMATION>

Display the current satellite viewer of your BT-Q1200 at < SATELLITE INFORMATION > tab.

Click <SATELLITE INFORMATION> tab

Please review the detail description of satellite information as below.

Item	Description
Date	Date of your operation system
Time	Time of your operation system
Mode	(3D Fix/ 2D Fix/ No Fix)
TTFF	Time to first fix
Latitude	A north/south measurement of position perpendicular to
	the earth's polar axis.
Longitude	An east/west measurement of position in relation to the Prime Meridian, an imaginary circle that passes through the north and south poles.
Speed	Rate of motion

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PDOP	(Positional Dilution Of Precision) ; Position accuracy; 3D-coordinates
HDOP	(Horizontal Dilution Of Precision); horizontal accuracy; 2D-coordinates
VDOP	(Vertical Dilution Of Precision); vertical accuracy; height

 $\label{eq:click} Click <\!Hot\!> / <\!Warm\!> / <\!Cold\!> button to perform hot/warm/cold start immediately.$ 

Item	Description
<hot> button</hot>	Perform hot start
<warm> button</warm>	Perform warm start
<cold> button</cold>	Perform cold start



6. <DATA LOG LIST>

BT-Q1200 Super 99<sup>®</sup> GPS Travel Recorder Access the log data which is downloaded from BT-Q1200.

#### NOTE 1:

Before accessing your log data of BT-Q1200, please establish the communication between BT-Q1200 and PC with mini USB cable. (Refer to 7-3, item 2)

#### NOTE 2:

Please install Google Earth before trying to download and draw map on Google Earth. (Refer to 6-3)

- 6.1 Click <DATA LOG LIST> tab.
- 6.2 Click <Download> button to download the log data from BT-Q1200. System will pop up a dialog box for asking to save the log file. After selecting a location to save, a message box pops up to show the progress status. It will take a few minutes depending on the data volume. After completing the log data downloading, those data will be shown on data grid.

an charge and the	另在時間					2 🔀	
Configuration	SATIND:	aeg 😋			+ 6) + 0	ŀ	hete Manager
Logger Informati Status: Timu: Distance: Speed: Recording Method: Record Count:	Augusta Sanatana						
		4600 存在時的(1)	Counternation	im Net	•	8475 (D) 8128	
temory Died							
Start Log	Stop Log		1				
Demployed	Draw Man	5	Trase	Read	1	Save	Reset

BT-Q1200 Super 99	GPS Travel	Recorder
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S Countration	QP Sa	nelline Inde	Data Log List	Photo Manager
Logger Information Relus: Time: Sintence: Speed: Record Gouet:	Log started 1 second(s) 10 meter(s) 10 km/h Stop 19995	Coording Data	112 176	
mannoty Osau.				
StartLog	Stop Log			

6.3 Click <Draw Map> button to display your log data on Google Earth. System will pop up a dialog box for setting the data period and drawing type. After click <OK> button, system will export the log data into Google Earth to display your travel path.

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Configuration	6	Satal	line info	📝 Data I	og Li	at .	Ph 10	ete Manage	•
Logger Information		Re	cording Data		112				
Status:		104	yex lece line		fr.O	CAL TIME	VINUID	LATITUDE	NA.
	Log started.	1	Drew Type			210/10/12 25:05 200	Note	30 000000	N
Time:	1 second(s)	2			-	/10/10 12 35-06 708	Nofe	90.000000	N
Distance:	10.meter(s)	1	Portiliect			10/10/12 25:97 708	Note	90.000000	N
Speed	10 km/h	4	Anders sharts how	0		/10/10 12 35 08 708	Nolix	90.000000	16
		5	Index ends to	15000	4	/10/10 12 25 09 708	Note	90 000000	N
Recording Method:	Stop	6			-	/10/10 12 35 10 708	Nolix	30.000000	N
Record Count:	20134	7	Live Style			10/10/12 25:11 708	Note	90 000000	N
		0	Pater	-		/10/10 12 35 12 708	Nofe	90.000000	N
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**6.4** Your travel path will be shown on Google Earth as the following image. You can check the detail information for each log point.



 $\label{eq:BT-Q1200} \begin{array}{c} \text{BT-Q1200 Super 99}^{\$} \mbox{ GPS Travel Recorder} \\ \textbf{6.5} \quad \mbox{Please review the other function at <DATA LOG LIST> as below.} \end{array}$ 

Item	Description
<start log=""> icon</start>	Display Log status (Activation with red highlight)
<stop log=""> icon</stop>	Display Log status (Activation with red highlight)
<download> button</download>	Download the log data from BT-Q1200. System will pop up a dialog box for saving the log file. After selecting a location to save, a message box pops up to show the progress status. It will take a few minutes depending on the data volume. After completing the log data downloading, those data will be shown on data grid.
<draw map=""> button</draw>	Show your log data on Google Earth.
<erase> button</erase>	Clear all log data from the flash memory of BT-Q1200.
<save> button</save>	Save the logged data in the memory of BT-Q1200 into your PC. It supports CSV file, GPX file, NMEA file, Google Earth file, PLT file, and Text file format.
<read> button</read>	Open log file that saved as before
<reset> button</reset>	Reset your BT-Q1200 and reload to factory setting.

#### 7. <Photo Manager>

Allow you to manage the log files downloaded from BT-Q1200, combine GPS data with photos by Geotagging, and create KMZ file supported by Google Earth.

- 7.1 Click < Photo manager > tab \ <GPS Log Manager> button.
  - 7.1.2 On the "GPS Log Files" column is the log files from default location on the hard-disc (C:\Program Files\Qstarz\Travel Recorder PC Utility V3). You can add, delete, and delete all by clicking right button of mouse to show the function menu and executing each function.

BT-Q1200 Super 99® GPS Travel Recorder

Colars OPS Trav	el Recorder PC	Otility		
File Configuration	Virw Tool Lang	roage Help		
🝠 Configur	ation	🚱 Satellite Info	📝 DataLog List	Photo Manager
GPS Log Manager	Photo Viewer			Geotag Photo
GPS Log Files	Time Zon			
View Leg				Create KMZ

**7.1.3** Select one log file from "GPS Log File" column and then click <View Log> to show the log data on data grid.

G Quince GP2 Travel File Configuration Yo	Recorder I aw Tool I	NC Blility Language Hidp					
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7.1.4 Adjust the shown time by selecting time zone according to the local time Note: all the date/time data is recorded as Greenwich time.

Configura	son Qr Satellite Info Data Log L	Ast Photo Manager
PS Log Manager	Photo Viewer	Gastra Photo
PS Log Files	Time Zone	
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	3 2007/00+11 14 85 N 121.533960 E	
	4 2007/0 *12 06 N 121 533570 E	
	5 2007/09/301/2/09/12/29/068/44 N 121 533210 E	
	6 2007/09/30 12:05:15 25:068533 N 121:532976 E	
	7 2007/09/30 12:05:18 25:060946 N 121 532908 E	
	8 2007/09/30 12:05:21 25:069395 N 121:532975 E	
	9 2007/09/30 12:05:24 25:069767 N 121:533056 E	
	10 2007/09/30 12:05:27 25:070219 N 121 530135 E	
	11 2007/09/30 12:05:30 25:070663 N 121:533191 E	
	12 2007/09/00 12:05:00 25:071122 N 121:500212 E	
View Log	13 2007/09/30 12:05:36 25:071604 N 121 533245 E	
	14 2007/09/30 12:05:29 25:072091 N 121:533267 E	Create KMZ
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	16 2007/09/30 12:05:45 25:07:3011 N 121:530215 E	Shaw KM7 an Goa
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(Contraction)	19 2007/09/30 12:05:54 25:074018 N 121:532731 E	
7110	20 2007/09/30 12:05:57 25:074199 N 121 532386 E	

**7.1.5** Click <Log Split> button to split the log file you select. System will pop up a function window allowing you to do the split procedure.

Total L	og Time	205.00		007/00/00 14/02/21	Select
Log St	an. 2007/05/301	~ 00.00 ~ 6	.04.	2007703730 14:07:21	Save
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3	2007/09/30 12:05:06	25.067485	N	121.533960 E	
4	2007/09/30 12 05:09	25.067806	Ν	121.533570 E	
5	2007/09/30 12:05:12	25.068144	Ν	121.533210 E	
6	2007/09/30 12:05 15	25.068533	N	121.532976 E	
7	2007/09/30 12:05:18	25.068946	N	121.532908 E	
8	2007/08/30 12:05:21	25.069355	N	121.532975 E	
9	2007/09/30 12:05:24	25.069767	N	121.533056 E	
10	2007/09/30 12:05:27	25.070219	N	121.533135 E	
11	2007/08/30 12:05:30	25 070663	24	121 533191 F	5

BT-Q1200 Super 99® GPS Travel Recorder

7.1.6 Input a time range on "Select from: ~ To:" you want to keep and click "Select" to include these data range, and then click "Save " to save the split log file.

Deter Ditter								
TotalLog Texe Log Stat: 2007/05/30 12:05:00 - Eve: 2007/05/30 14:07:21			Select		Data Log List	Photo Manager		
Select Franc	2007/09/2012/05/20	-Te	2007/05/30 14:07:21	E			Gentag	Photo
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7.2 Click < Photo Manger> tab \ < Photo Viewer> button

Please select path of image file on the left side. The file names would appear below and preview of the file would appear on center.



7.3 Click <Geotag Photo> button to start Geotagging the photos. System will automatically geotag photos with GPS position data if one has the same time as the other.

Note: Before Geotagging, please make sure to select the log file and corresponding photos.

7.4 Click <Create KMZ> button to create KMZ file supported by Google Earth after geotagging photos.

Note: The processing time depends on the performance of your computer and the number and image size of your pictures. To accelerate the process, it may suggest to adjust the image resolution before creating KMZ file.

7.5 Click <Show KMZ on Google> button to show the KMZ file you just created on Google Earth.

#### 8 <Toolbar>

- 8.1 <File> \ <Exit> exit the program
- 8.2 <Configuration> \ <Connection> refer to 7-3, item 2 <Configuration> \ <User Mode> \ <Basic> <Advanced> <Professional> refer to 7-3, item 3 <Configuration> \ <Other> refer to 7-3, item 4
- 8.3 <View> \ <Satellite information> refer to 7-5
- 8.4 <Tool> \ <Data Log List> refer to 7-6

<Tool> \ <Photo Manager> refer to 7-7

<Tool> \ <Option> you can adjust the way to show speed format and time zone where you are located here.

BT-Q1200 Super 99® GPS Travel Recorder

Show Speed km/h mph knots/h	Show Time Time Zone GMT 8 Day Light Saving Time 0	\$ \$
	Savi	e and Exit

<Tool> \ <Security> Enable the security function to protect your setting from unauthorized modification.

Security	
📀 Enable	C Disable
User Name	User
PassWord	*****
Confirm 🛛	****
OK	Cancel

8.5 <Language> Nine languages supported allow you to change language instantly depending on your preference, including Chinese Traditional, Chinese Simplified, English, German, Japanese, French, Italian, Portuguese, and Spanish.

🕼 Qatare GF3 Travel Recorder FC Utility 🔹 💽 🔀						
File Configuration view Tool	Lignage Help					
Configuration	Chinese Traditional Chinese Simplified • English	e Info	📝 Data Log List	Photo Manager		
Connection	Japanese French Italian					
User Mode	Spanish	Ь				

**8.6** <Help> \ <Document> display the user manual.

<Help> \ <About> display the software detail information.



## 8. Useful reference Applications on the internet

### 8-1. locr GPS Photo

BT-Q1200 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 <a href="http://www.locr.com">http://www.locr.com</a> for the further information.

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### 8-2. GPSBabel

This utility can transfer your NMEA file to GPX file or other format. Please go to <a href="http://www.gpsbabel.org">http://www.gpsbabel.org</a> 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 <a href="http://www.ttsm.com">http://www.ttsm.com</a> 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 <a href="http://www.jetphotosoft.com">http://www.jetphotosoft.com</a> 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 <a href="http://www.veogeo.com">www.veogeo.com</a> for further information and register for a free new account.



## 9. Trouble Shooting

Question	Answer
Can BT-Q1200 be used to navigate when travel log is on?	Yes, you can use BT-Q1200 to navigate when travel log is on simultaneously.
I lost my travel charger and battery. Where can I find replacements for both?	DC Input range of BT-Q1200 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. Besides, The battery for BT-Q1200 is compatible with Nokia N73. The battery model is BP-6M.
How can I know if my memory is full?	If you see the orange GPS light turns from orange to solid blue, that 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 <tools <option="" \=""> and see the local Date/Time under "Satellite Information" tab of utility.</tools>
Can the logged data be downloaded by Bluetooth?	So far Bluetooth function is not a standard component on laptop. So we didn't perform the download via Bluetooth interface. BT-Q1200 is designed to download data via USB interface.
My BT-Q1200 could not use 48 hours?	BT-Q1200 can use 48 hours under the optimum environment. GPS would need more power consumption when keep trying a position fix, seeking Bluetooth connection, or under an unstable environment (bad weather, forest, buildings). Those would take GPS more calculation and power consumption. So it would spend more power consumption. After the red LED light is blanking, it still can be used for your navigation without any problem.

## 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-Q1200 to <NAV> position for paring 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-Q1200 would be identified as"iBT-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).

### BT-Q1200 Super 99<sup>®</sup> GPS Travel Recorder 10-2. Create Bluetooth Setting (Windows Mobile 5 for Pocket PC)

- 1. Switch your Bluetooth Receiver on.
- 2. Tap the Bluetooth icon at the bottom.

3. Check "Turn on Bluetooth".

tart Start	at 📢 8:49
Chursday, July 07	, 2005
🔓 Tap here to set own	per information
No unread message	
🖞 No tasks	
No upcoming appo	intments
Tap here to sign in	
P Device unlocked	
	4.
Calendar	Contacts
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Bluetooth	
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4. Tap the "Devices" tab, and then tap "New Partnership".

fig Settings	🚑 📢 8:49 🛛 ok
Bluetooth	
Tap New Partnership Bluetooth devices. Taj its settings.	to scan for other p on a device to modify
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Mode Devices COM	Ports

- 5. System will search for all Bluetooth devices. 6. Select "iBT-GPS" device, and tap "Next".



BT-GPS	
Cancel	Refresh

## 7. Enter Passkey "0000" if required, and then tap "Next".

Nettings		2:50
Enter Passk	ey	0
Enter a passk	ey to establish a s	secure

Passkey:	****



8. Check "Serial Port", and then tap "Finish".



## 9. The "iBT-GPS" device will be established in the list.

10. Tap the "COM Ports" tab, and select "New Outgoing Port".

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Bluetooth	
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#### 11. Select the "iBT-GPS", and then tap "Next".



12. Uncheck "Secure Connection", and select a COM port (for example, COM 8) from the "Port:". Then tap "Finish".



|--|

13. The "iBT-GPS" with its COM port will be shown on the list.

fi Setti	ngs	#	€ 2:52	ok
Bluetooth				
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Incoming	Port (COI	M7)		
New Out	going Port			
Mode Dev	ices COM	Ports		

### 10-3. 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.

### 10-4. 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 V.1.2.1 (2001-08) EN 301 489-1 V.1.4.1 (2002-04) / EN 301 489-17 V.1.2.1 (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.