

BT-Q1000eX Quick Installation Guide

A. Standard Package

GPS Unit BT-Q1000eX (1) + Lithium-ION Rechargeable Battery (2) + Cigarette Adapter (3) + mini USB Cable (4) + Driver CD (5) + Leather Bag (6) + Warranty Card + User's manual + Optional Travel Charger (*
Travel Charger plug type might be adjusted according to corresponding countries.)

NOTE: The Cigarette Adaptor can only be used to charge BT-Q1000eX. Please don't make use of it with devices other than BT-Q1000eX.



B. Appearance

1. Power jack (mini USB type)
2. Mode switch (OFF/1Hz/5Hz)
3. Battery status LED (Red/Green)
4. Bluetooth status LED (Blue)
5. GPS status LED (Orange) / Log Status LED (Red)
6. Internal antenna
7. POI button



C. Hardware Function

Hardware	Description	Bluetooth	Log
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Function		Status	status
Mode Switch (OFF)	Power off BT-Q1000eX	Off	Off
Mode Switch (1Hz)	When switch to 1Hz mode, BT-Q1000eX can be used to navigate with handheld devices, and the data log function is enabled at 1Hz speed. Other log conditions setting (Time/Distance/Speed) can apply.	On	On
Mode Switch (5Hz)	When switch to 5Hz mode, BT-Q1000eX can be used to navigate with handheld devices, and the data log function is enabled at 5Hz dedicated mode. Other log conditions setting can not apply.	On	On
Power Jack	Take the power cable and connect it to the power jack (mini USB type) for charging only		
POI Button	Push to log the favorite Point of Interest		

**Note: 5Hz mode will consume more power than 1Hz mode (42hrs).
The approximate usage time of 5Hz mode is 32 hours.**

Mode Switch (OFF)

Mode Switch (1Hz)

Mode Switch (5Hz)



D. Battery Installation

D-1 Put Battery in place: Press the **PUSH** button on the bottom side of the unit and pull out the battery cover. Insert battery in the unit and put battery cover on to the cabinet, then push down and force it forward to fit firmly.

D-2 Take Battery out: Press the **PUSH** button on the bottom side of the unit and pull out the battery cover. Then take out the battery from the unit.

E. Charging your battery

For the first time using the BT-Q1000eX, 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 3 hours typically.

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



F. Setup BT-Q1000eX

F-1 Install the USB Driver and software utility (Only support Microsoft Windows XP / Vista / 7)

Please insert the Software CD to your computer. The autorun

window will appear and please select Q1000eX. Please press “Install PC Suite” to install the main program. If the autorun windows did not appear, please browse the CD and find the folder “Utility\PC Suite\”. Double click “Qstarz_PC_Suite_installer_M.exe” to install the software utility package. This software package contains USB driver, QTravel™, and QSports™ software inside.

F-2 Install Google Earth

BT-Q1000eX supports to show your travel path directly on Google Earth. Please go to <http://earth.google.com> for getting the free download of Google Earth, and then install it to your computer.

G. Start to use

G-1 Fully charge the battery when using at the first time

A fully charged battery can last up to 42 hours continuously operation (under 1Hz mode).

G-2 Connect BT-Q1000eX with your PC

Please connect BT-Q1000eX with your PC by mini USB cable, and then power on BT-Q1000eX.

G-3 Start the software utility

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

NOTE 2: PC Suite only supports BT-Q1000eX. Any intention to use PC Suite connecting GPS units other than BT-Q1000eX would result in software disconnection automatically.

QSports™:

QSports™ is software with database structure

QSports™ can record, manage, and analyze all your daily/weekly/monthly activities with various sports gear such as Cycling, Running, Jogging, Climbing, Skiing, etc. Train yourself by means of QSports™ statistics to have good health control. Different sport gear will generate corresponding category for better management and analysis.

1. Click from <Start> / <All Programs> / <Qstarz PC Suite> / QSports Users have to input product key at the first time of use. **The product key is located on the cover of the software CD.** ***Important: Do not lose your Product Key. Please write the number down and keep it in a safe place.***

2. Add New User

QSports™ supports multiple users. User information includes “User Name”, Gender, Birth Date, and Weight. In order to get correct calories calculation, please fill in the correct personal data.

3. <File> \ <Import Wizard >

Import Wizard can guide you to load the tracks from GPS device easily.

- 3.1 Select default “Sport Type”. QSports will create tracks with the default sport type, and users can change the sport type after import.
- 3.2 QSports™ will automatically detect the COM port and baud rate and load in the GPS tracks.
- 3.3 Activate the Lap analysis function: once import the data from Q1000eX, the lap analysis function will be activated. The Lap Analysis View button will appear on toolbar.

NOTE: Make sure to Power on GPS unit first before connecting with computer for downloading tracks.

4. <File> \ <Export Wizard>

Export Wizard can guide you to proceed export process easily.

- 4.1 **HTML:** Pack selected tracks and photos into editable html files or a single easy sharing mht file.
- 4.2 **Google Earth:** KML and KMZ are Google Earth files formats. KML file contains detail waypoints and tracks info. KMZ file contains both simple track and photos info.
- 4.3 **Track File:** Export tracks and placemarks as GPX, NMEA, and CSV file formats.

5. <Lap Analysis>

Lap analysis allows you to compare the data of each lap by time, by

distance, or by user defined start/finish point.

- 5.1 Add Start/Finish point:** click the black white flag on the right side of Google Map, and then put the black white flag on the start/finish point of the lap/line.

For Circuit: please put one start/finish point or one start point and one finish point.

For Line: need to put one start point and one finish point.

- 5.2 Add split points:** click the red flag on the right side of Google Map, and then put the red flag on the place of the lap/line that you want to know more detail about it.

- 5.3 <Update Lap Info Now!>**

Show the lap analysis info instantly by distance, time, or user defined start/finish point.

<By Distance>

Data will be split and shown by each distance value. **Only for one way not repeating the circuit or line.**

<By Time>

Data will be split and shown by each time value. **Only for one way not repeating the circuit or line.**

<By user defined start/finish point>

Data will be split and shown by user defined start/finish and split points. **Only for repeating the circuit or line.**

- 5.4 <Comparison>**

Select tracks to compare to the current track. The comparison is meaningful when the paths are similar.

NOTE: To easily compare data among many devices, please change the device unique ID from software -> Config GPS -> User Name. Then the imported track will be given a specific file name based on that user name.

***For detail QSports functionality, please refer to QSports Users Manual attaching with Software.**

QTravel™:

QTravel™ is the best Geotagging software to integrating your travel track and photo together easily. Support track editing, playback, and

import/export Wizard.

1. Click from <Start> / <All Programs> / <Qstarz PC Suite> / QTravel

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

Important: Do not lose your Product Key. Please write the number down and keep it in a safe place.

2. <File> \ < Import Wizard >

Import Wizard can guide you to proceed the Geotag process easily.

2.1 The Import Wizard will jump out every time during program startup. You can also launch it by clicking <File> \ <Import Wizard> or the quick link icon.

2.2 Select the method to import the tracks from device.

<Import tracks and photos into new trip>

Create a new trip to save the tracks

<Select trip to import tracks and photos>

Save the tracks into an existed trip

<Import whole trip from project file (*.itm)>

Import a trip from a project file saved by Travel Recorder software

2.3 QTravel™ will automatically detect the com port and baud rate and load in the GPS tracks.

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

2.5 Please select the photo folder to import photos for geotag. You can also skip this step by clicking <Finish> directly and then there will be only tracks shown on Google Map.

NOTE: Make sure to Power on GPS unit first before connecting with computer for downloading tracks.

3. <File> \ <Export Wizard>

Export Wizard can guide you to proceed export process easily.

3.1 **HTML:** Pack selected tracks and photos into editable html files or a single easy sharing mht file.

3.2 **Google Earth:** KML and KMZ are Google Earth files formats.

KML file contains detail waypoints and tracks info.

KMZ file contains both simple track and photos info.

3.3 Track File: Export tracks and placemarks as GPX, NMEA, and CSV file formats.

3.4 Project File: Export whole trip as a Travel Recorder software compatible project file.

4. <File> \ <Download AGPS Data>

Update the AGPS data from internet assistance server to boost warm start speed to 15sec.

A-GPS is a system where outside sources, such as an assistance server and reference network, help a GPS receiver boosts performance beyond that of the same receiver in a stand-alone mode by downloading the almanac data from an assistance server.

Note1: A-GPS can boost GPS warm start speed to always lower than 15sec fix after the first fix. The A-GPS efficiency will decrease when time goes by. If it expires, you would have to download almanac data again because the acceleration efficiency of fix will become totally ineffective.

Note2: Please don't update the almanac data via Bluetooth interface.

***For detail QTravel™ functionality, please refer to QTravel™ Users Manual attaching with Software.**

Register your Product Key:

You can register your product key in “QSports™ or QTravel™ -> about -> Input Product Key” by an email account. This email with a registered product key will be saved in Qstarz database. You can check your product key by presenting the corresponding email to Qstarz at any time.

Update the Software:

Please always go to Qstarz download page to check if there is any latest software update.

<http://www.qstarz.com/download.htm>

Please uninstall the old version before installation.

Note: The license of Qstarz PC Suite is different from that of stand-alone installation package of QTravel™. Thus you are unable to update QTravel software only. Please make sure to download the PC Suite installation package for update.

H. Navigate as a Bluetooth GPS Receiver with handheld device

H-1 Activate the Bluetooth function in your PDA/Smart phone or PC

Before activating the Bluetooth function in your PDA/PC, please switch BT-Q1000eX to <1Hz> or <5Hz> position 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. (The pass code is "0000")

H-2 Automatically create a shortcut in Bluetooth Manager window

After the pairing complete, the system will then find a quick connect device "Qstarz 1000EX" in Bluetooth Manager. In further use, you just need to click it to connect to this Bluetooth GPS Receiver.

H-3 Check the Serial Port in Bluetooth Setting

After complete pairing with BT-Q1000eX, please click "Serial Port" to confirm the assigned COM port. If you use PDA/PC to pair the GPS Receiver, please check "Outbound COM port".

H-4 Set correct Serial Port in your map software

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

NOTE 1: In the map software such as TomTom, you might need to change preference and set "Other Bluetooth GPS" 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.

H-5 Switch off the Bluetooth function

Switch off GPS function in your PDA/Smart phone/PC, then the Bluetooth connection will be disconnected automatically. Then put BT-Q1000eX switch to “OFF” position.

I. Function of Vibration Sensor

Vibration Sensor: Vibration Sensor is functioned for power saving and waypoint saving. It will detect the physical movement of the device. When it detects the device not moving more than 10 minutes, Q1000eX will enter sleep mode so that the Blue LED will turn to flash every 5 seconds. Under sleep mode the log will be disabled.

When the device is on sleep mode, SHAKE the device to wake it up and the blue LED will turn to flash every 2 seconds (at 5Hz mode this blue LED will not flash) and GPS Orange LED will be also on.

***Vibration Sensor function is turned on as default and can be turned off by provided software -> config GPS.**

Note: Once the device enter sleep mode and it may auto wake-up when detecting “significant” movement. We strongly suggest you to use SHAKE method as first priority to wake-up device in case some tracks might not be recorded.

J. Mount BT-Q1000eX on your eXtreme Sports Equipment

1. Clean Surface

Use isopropyl rubbing alcohol or white spirits, wipe lightly, let dry. Do not use household cleaner.

Caution: Do not use with delicate or any rough surface.

2. Remove male Velcro strip and adhesive liner

3. Press Firmly

Position Velcro strip and press entire Velcro strip firmly for 30 sec.

4. Wait 1 hour before use.

5. Slide Q1000eX into leather bag

Slide Q1000eX smoothly into leather bag. Attach the leather bag to male Velcro and press entire leather bag firmly.



Caution: *If the device will be exposed to outside environment, such as attached on motorcycle, any other safety protection equipment must be applied to prevent the device from sliding out of the bag.*

To get best accuracy, please position the GPS antenna side up to sky.



Added safety protection equipment demonstrates:







Limitation of liability:

Qstarz will not be liable for any loss or damage arising from this accessory, whether direct, indirect, special, incidental or consequential. It's owner's liability to protect Q1000eX during doing any extreme activity.

K. Others

K-1 LED Indicators

LED Status		Flash	ON	OFF
Power (Red/Green)		Low Power (Red)	Recharging (Green)	Fully charged
Bluetooth (Blue)		Flash per 2 sec.: Bluetooth connected and transmitting Mode Flash per 5 sec.: Power saving mode	Not connected / Pairing / Log Mode is on (1Hz mode)	GPS not powered / Log Mode is on (5Hz mode)
GPS (Orange)		GPS position is fixed, Navigation	Detecting Satellite, GPS position not fix	GPS not powered

Log (Red)		<u>Flash per 2 sec:</u> Low memory (20%) <u>Flash 3 times:</u> POI(Point of Interest) is recorded	Memory is full	Log Mode is off
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K-2 Beeper Code

Status	Beep code	Description
Startup	1 short beep	One short beep on off->1Hz, Off->5Hz, 1Hz->5Hz, or 5Hz->1Hz
GPS fix	2 short beeps	2 short beeps when GPS fix on 1Hz or 5Hz mode
POI button	3 short beeps	3 short beeps when POI button being pressed
Memory exhausted	3 long beeps	3 long beeps when the device is out of memory
Sleep mode	1 long and 1 short beeps	1 long and then 1 short beep when the device enters sleep mode

***Beeper can be turned off from software -> config GPS.**

K-3 GPS Features

1. Baud Rate: 115,200 bps / Datum: WGS-84; Hot/Warm/Cold Start: 1/33/35 sec. (averaged)
2. 66-channel Bluetooth GPS Receiver with super high sensitivity at -165dBm
3. Bluetooth Version: V1.2 / SPP profile / Class 2 with 10 meters in open space
4. Low power consumption, built-in rechargeable Lithium battery
5. Size: 72.2 (L) X 46.5 (W) X 20 (H) mm / Weight: 64.7g (battery included)

K-4 Register your Qstarz product

Register your Qstarz product to get the latest news, software update,

event, and product information.

http://www.qstarz.com/register/Product_reg/page.asp

L. Trouble Shooting

Question	Answer
Can BT-Q1000eX be used to navigate when travel log is on?	Yes, BT-Q1000eX is able to navigate and log simultaneously whether on 1Hz mode or on 5Hz mode.
Where can I find a travel charger for the GPS unit?	DC Input range of BT-Q1000eX 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 used for BT-Q1000eX is compatible with Nokia phones series: BL-5C.
Can the logged data be downloaded through Bluetooth?	Yes, Q1000eX is able to transmit log data through Bluetooth.
Why does BT-Q1000eX only can log 300,000~320,000 waypoints?	We activate more options previously to provide detailed GPS information for user's reference and download. So it would use more memory. If you reduce the options (under Log Format) for your log, it would save the memory and increase more waypoints.
My BT-Q1000eX could not use 42 hours (1Hz)?	BT-Q1000eX can use 42 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

	<p>would spend more power consumption. After the red LED light is blanking, it still can be used for your navigation without any problem.</p>
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