CR-Q1100P GPS Tracking recorder

Quick Start Guide

■ Appearance

1. Power LED
2. Memory LED
3. Working LED
4. Non-working LED
5. Power button
6. POI button
7. USB connector
8. Hard reset button
9. Lanyard hole

■ LED Indications

LED symbol	LED Color	Status	Description
Power	**Red**	**Flashing**	**Low Power**
	Green	**On**	**Recharging under power off**
	Off	**N/A**	**Fully charged**
Memory	**Orange**	**Flash 3 times**	**POI pressed , POI(Point of Interest) is recorded**
	Orange	**Flash per 2 sec.**	**Low memory (less than 20% left)**
	Orange	**On**	**Memory is full**
	Off	**N/A**	1. **Memory has adequate capacity** 2. **Device power off**
Working	**Green**	**On**	**GPS position is fixed, device is logging**
	Off	**N/A**	1. **GPS position not fixed** 2. **Device enter sleeping mode(*)** 3. **Memory is full** 4. **Device power off**
Non-working	**Red**	**On**	1. **GPS is not connected with satellite** 2. **Memory is full**
	Red	**Flash per 5 sec**	**Device enter sleeping mode(*)**
	Off	**N/A**	1. **GPS position is fixed** 2. **Device power off**

(*)Vibration sensor is set Off as default. Sleeping mode is functioned only when Vibration sensor is activated On by software.

■ Charge Battery

Fully charge the battery for 3 hours when using at the first time
For the first time using the CR-Q1100P, please charge battery until it is fully charged.
Please connect the supplied USB cable with your CR-Q1100P, and connect with any device has USB port, such as PC, Notebook to recharge CR-Q1100P. A fully charged battery can last for 40 hours under optimal condition.

■ Start to Use

CR-Q1100P Operation
1. Press and hold Power button for two seconds to power on CR-Q1100P, the buzzer will make 1 beep sound each time you power on CR-Q1100P.
2. The Non-working LED will be ON (Red) and waiting for device to acquire satellite signals. **CR-Q1100P is for outdoor use, we strongly recommend using it outdoor under open sky environment for better satellite reception**.
3. After getting GPS fix, the Non-Working LED will be Off and Working LED will be ON (Green). Then the device will start functioning to record travel path automatically.

4. Short click on POI button if you want to record a point of interest. The buzzer will make 3 beeps each time POI button is pressed.
5. Please note the device will only start recording when the Working LED is ON(Green). Whenever the Non-working LED is ON or flashing(Red), it means the device is not operating or logging. Please check the device's status:
   - Device is not fixed with satellite
   - Device memory is full
   - Device enters into sleeping mode (Once Vibration sensor is On status)

CR-Q1100P Power Off
Under Power on status, press power button for three seconds to turn off device. CR-Q1100P LED will be all off after device is power off.

■ CR-Q1100P software utility operation

1. Please install the software (QTravel™, DataViewer™) and USB driver to your computer **(Only support Microsoft Windows XP / Vista/ Win7)**.
2. CR-Q1100P 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.
3. Connect CR-Q1100P with your PC or Notebook by USB cable and power on CR-Q1100P.
4. Start the software utility (QTravel, DataViewer).

■ QTravel™

QTravel™ is the best Geotagging software to integrating your travel track and photo together easily. Support track editing, playback, import/export Wizard and Smart log management.
1. Click from <Start> / <All Programs> / <Qstarz QTravel> / 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 import the recorded tracks and precede the Geotag process easily.
3. **<File> \ <Export Wizard>**
Export Wizard can guide you to precede export process easily.
4. **<File> \ <Config GPS>**
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. Please refer to users' manual for more detail information.
   4.1 GPS Device Name (Unique ID)
      Name your Travel Recorder here and your downloaded log data will come with this unique ID
   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.
   4.3 Data Log Memory
         Overwrite:
               When the memory is full, Recorder will keep logging by overwriting the memory from the earliest point.
         Stop Log:
               When the memory is full, Recorder will stop logging.
   4.4 Turn on/off POI button
      The POI function is set On as default, user can uncheck the checkbox to turn it off for preventing accidental POI button pressing.
   4.5 Turn on/off buzzer
      The buzzer function is set On as default, user can turn it off by un-checking the Turn on buzzer checkbox.
   4.6 Turn on/off Vibration Detector
      Vibration Detector is functioned for power saving and waypoint saving. **Vibration Detector *is set Off as default*,** *and user can turn it on by check the Vibration detector checkbox. Once it is activated,* it will detect the physical movement of the device. When it detects the device not moving more than 10 minutes, CR-Q1100P will enter sleep mode so that the Non-working LED will turn to flash every 5 seconds. Under sleep mode the log will be disabled.
      Note : Once the device enters sleep mode, it will auto wake-up when detecting physical movement again.
   4.7 Activate Vibration Sensor under charging mode (Vibration detector is On)
      Under charging mode the vibration sensor will Not be activated as default. Once Vibration detector function is selected, user can also activate the vibration detection under charging mode by selecting the checkbox.
5. **<File> \ < Download AGPS>**
Update the **AGPS** data from internet assistance server to boost warm start speed to 15sec.
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.

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

■ **DataViewer ™**

1. Support read log data from device (automatically recognize com port, or manually specify comport)
2. Support clear log on device
3. Support device configuration
4. Support POI counter.
5. Log criteria (speed, time, distance)
6. Log format (Valid, DSTA, DAGE, PDOP, HDOP, VDOP, NSAT, SID, Elevation, Azimuth, SNR, RCR, etc.)
7. Full/Stop mode
8. Device memory usage
9. Device name
10. Beeper Turn On/Off, POI Turn On/Off
10. A-GPS update
11. Support Save and export files (Format: nmea, csv, kml, gpx & bin file)

■ **Update the Software:**

Please visit Qstarz download page for Multi-language Quick Installation Guide and latest software update.
http://www.qstarz.com/download.php

■ **Register your Qstarz product**

Register your Qstarz product to get the latest news, software update, event, and product information.
http://www.qstarz.com/reg.php

■ **CR-Q1100P Features**

1. Adopt **MTK II** latest chipset with high sensitivity -165dBm and **66-Channel** tracking
2. Ultra lower power consumption up to **40hrs** operation
3. Stand-Alone GPS Data recorder to log up to 400,000 records (*1)
4. Rugged design with **IPX-3** Water resistance
5. Lanyard hole design for easy-to-carry
6. Built in Two Buttons **(POI & Power button)**
7. 4 LED indication (Power, Memory, Working, Non-Working) to view device status
8. **Beeper function** to notice some status of device
9. **Built in Vibration Sensor** for Power Saving and Waypoint saving
10. Less than 15-Sec. **AGPS** fix support: download almanac data to realize faster TTFF and positioning under warm start
11. DGPS(WAAS+EGNOS+MSAS) support
12. Recharging/downloading data via USB A type connector which is better for harsh use
13. Update Rate up to 5Hz (default at 1Hz for receiving data only)

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

■ **TroubleShooting**

Problems	Answer
My GPS device could not get fix with satellite?	CR-Q1100P should be used outdoor in an open-sky environment. Trees, bridges and buildings surrounding can all affect the performance of the GPS.
My CR-Q1100P could not be used for 40 hours?	CR-Q1100P can use 40 hours under the optimum environment. GPS would spend more power consumption when keep trying a position fix, buzzer enabled, and pressing POI button frequently 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.
When I use QTravel SW to read log from device, it appears "No Data in Device." Why?	CR-Q1100P will not log invalid GPS data (GPS with no fix). So please make sure to log valid GPS data under open sky environment. If the device still cannot log, please perform a reset in QTravel -> Config GPS and test again.
My CR-Q1100P crashed. How can I make get it back to normal status?	You can find the hard reset button on the rear of the device beside USB connector, a small hole which can be pressed by pen tip or pin to reset your device. (Hard reset will not erase the memory data.)