QSTARZ INTERNATIONAL CO., LTD
6F-2, No. 160, Ming Chuan E. Rd., Sec. 6, Taipei, Taiwan, R.O.C. Website: www.Qstarz.com
Tel: 886-2-2792-0061 Fax: 886-2-2792-0062 Email: sales@qstarz.com

Model: BT-Q1000eX

GPS Lap timer with 5Hz eXtreme Recorder

Applications:

- Record your travels/sports and show on Google Earth™
- Integrate 5Hz recording excellent for Extreme Sports
- Vibration sensor and AGPS enabled for optimizing log
- Manage Lap analysis for personal training
- Sharing and Memory - by track logging & photo GeoTagging

Hardware:

- Adopt **MTK II** latest chipset with high sensitivity -165dBm and **66-Channel** tracking
- Ultra lower power consumption up to **42hrs** operation (under update rate 1Hz)
- Support **up to 5Hz High Speed logging mode excellent for –** 1/5Hz changeable by utility provided (*1)
- Less than 15-Sec. **AGPS** fix support: download almanac data to realize faster TTFF and positioning under warm start
- Stand-Alone travel recorder to log up to **400,000 records** (*2)
- 3-level Switch to easily switch eXtreme Recorder to 5Hz high speed mode or 1Hz normal mode
- Support **POI button** to memorize your point of interest immediately
- Raise **beeper function** to notice some status of device
- Integrate **Vibration sensor** to smartly manage power saving and waypoint saving (*3)
- G-Mouse + Bluetooth in one: wired and wireless GPS receiver
- Personal/Portable Navigation (PDA, Smartphone, PC, etc.)
- QZSS, DGPS(WAAS+EGNOS+MSAS) support

**1 5Hz High speed logging means recording 5 waypoints every second.*

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

**3 Vibration sensor will detect movement status. When detecting device is not moving more than 10 minutes, it will enter sleeping mode and stop logging for saving power and waypoints. Please shake the device to wake it up.*

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Dual Software:

1. QSports™ - Your personal Sport Coach

- With Database Structure, QSports contains Track Analysis, Health Control, Graph Statistics, Equipment management, and Lap Analysis
- Specially design **Race Capable** function for Race trainging and Lap analysis
- Store data with database structure
- Record and manage your various activities
- Be your sports mate for health control
- Graph sports statistics data and track playback
- Convenient multiple active user access

2. QTravel™ - Your Best Travel Mate

- The latest QTravel is upgarded as **Database structure** which can collect and found all track data easily.
- With built-in Google Map, Multi-language support, and Visualization UI
- **QWizard** interface for Utility to easily manage importing and exporting tracks
- **QTray Plug-and-Play** function to auto-activate QTravel software
- Auto track split function helps you organize your travel path
- Support Track Edit function allowing you to remove unnecessary waypoints
- Track playback function, changeable different track color and name
- Output your travel record as GPX / PLT / CSV / NMEA / Google Earth file format.
- Support **Raw Data Manager** for selecting necessary GPS parameter to record, view, and

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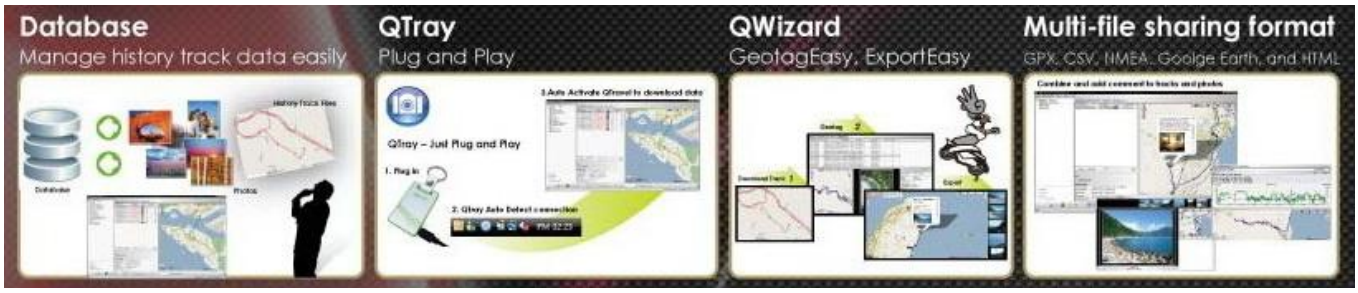
output

- Support GeoTagging function for digital photo and generate KMZ file easily



Specifications:

General		Accuracy (none DGPS)	
GPS Chip	MTK II GPS Module	Position	
Frequency	L1, 1575.42MHz	Without aid: 3.0m 2D-RMS <3m CEP(50%) without SA(horizontal) DGPS (WAAS, EGNOS, MSAS): 2.5m): 2.5m	
C/A Code	1.023MHz chip rate	Velocity	Without aid: 0.1m/s, DGPS(WAAS, EGNOS, MSAS, RTCM): 0.05m/s
Channels	66 CH performance tracking	Time	50 ns RMS
Antenna (Intemal)	Built-in patch antenna with LNA	Datum	WGS-84
Sensitivity		**Dynamic Conditions**	
Tracking -165 dBm		Altitude	<18,000m
Acquisition Rate		Velocity	<515m/sec
Cold Start	35 sec, average	Acceleration	<4g
Warm Start	33 sec, average	Update/Log	1Hz or 5Hz (1~ 5Hz changeable by software utility)
Hot Start	1 sec, average	**Interface**	
Reacquisition	< 1 sec.	Bluetooth	V1.2 compliant (SPP profile)
AGPS	<15 sec.		Class 2 (10 meters in open space)
Power			Frequency: 2.4~2.4835 GHz
Built-in rechargeable Li-ion battery		Power On/Off	Slide switch (Off-1Hz-5Hz)
Input Voltage	Vin: DC 3.0-5.0V	Power Charge	Mini USB
Backup Voltage	DC 1.2 ± 10%	**GPS Protocol**	
Charging time	3hrs. (Typical)	NMEA-0183 (V3.01) – GGA, GSA,GSV, RMC(default); VTG, GLL(Optional), Baud rate 115200 bps, Data bit : 8, stop bit : 1(Default)	
Environmental			
Operating Temperature	- 10 ℃ to + 60 ℃		
Storage Temperature	- 20 ℃ to + 60 ℃		
Charging	0 ℃ to + 45 ℃	**Device Size**	
Accessories		72.2 (L) X 46.5 (W) X 20 (H) mm	
Car Charger	USB Cable	**USB Bridge**	
Rechargeable Battery	Software CD	Standard	Fully Compliant with USB2.0
Multi-language Quick Guide	Leather case	Full - Speed	12Mbps

Specification is subject to change without prior notice.
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