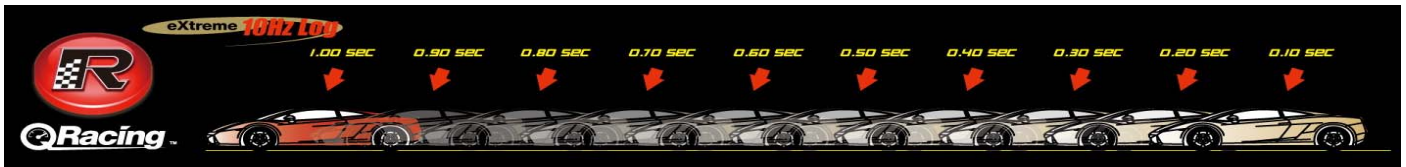


# GPS Lap Timer 10Hz



## Model: BT-Q1000eX 10Hz

### Applications:

- Record your tracks and show on Google Earth™
- Integrate 10Hz recording excellent for Extreme Sports
- Manage Lap timing analysis for personal Race training
- Vibration sensor and AGPS enabled for optimizing log
- 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 10Hz High Speed logging mode excellent for Car Racing (\*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 10Hz 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.)
- DGPS(WAAS+EGNOS+MSAS) support

\*1 10Hz High speed logging means recording 1 waypoint every 0.1second.

\*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. Shake the device to wake it up.




**Triple Software: (QRacing, QSports & QTravel)**





**1. QRacing v3.0– Lap Timing Analysis Expert**


- Record and manage your racing track as database structure
- Analyze and plot your racing in graph statistics
- Allow to add multiple beacons
- Up to 3 lap comparison from different lap or run
- Lap playback and Lap color annotation
- Draw self-made Racing course
- Support up to 9 videos' integration and playback
- G-value display and G-value distribution status (v3.0 new feature)
- Track view integrating with Brake line and Track rotatable (v3.0 new feature)
- Horse power analysis for Drag Race (v3.0 new feature)
- Support screen capture and printing in HTML format (v3.0 feature)



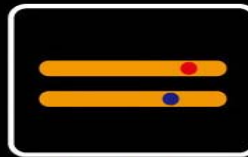


**Lap Timing Analysis Expert**  
Excellent performing Diversified Racing type  
Circuit Racing, Drag Racing & Rally Racing


-  Single Lap analysis
-  Multi Lap comparison
-  Database structure
-  Racing Plot Chart
-  Multi Beacons
-  Speed view



Circuit Racing

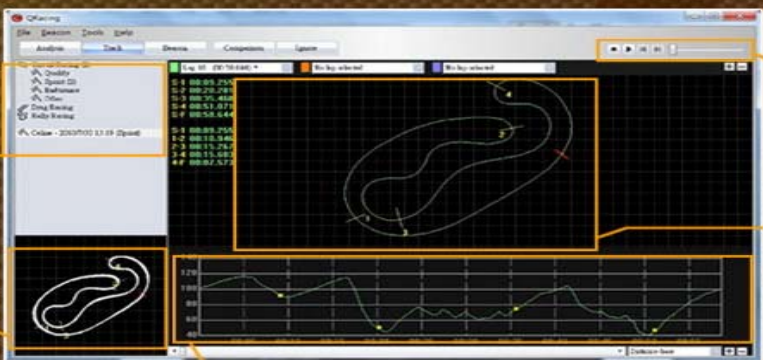


Drag Racing



Rally Racing

Auto Organize Racing data by Circuit Racing, Drag Racing and Rally Racing.



Replay View of Racing track

Thumbnail of Racing Track

Full View of Racing Track – Capable of viewing up to 3 laps comparison

Plot Chart of Racing track – Capable of zooming in/ out and comparing up to 3 laps.

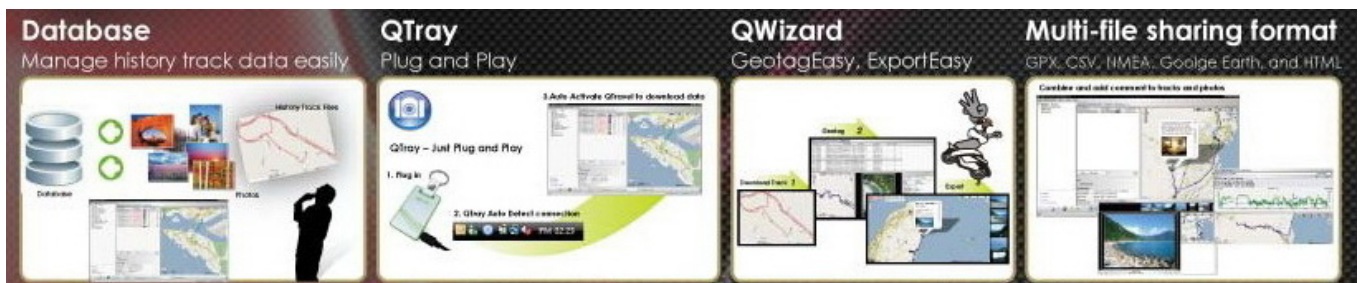
## 2. QSports™ - Your personal Sport Coach

- With Database Structure, QSports contains Track Analysis, Health Control, Graph Statistics, & Equipment management
- 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



## 3. QTravel™ - Your Best Travel Mate

- **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
- Support Track split, Track editing & Track playback
- 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 output
- Support GeoTagging function for digital photo/video and generate KMZ file easily





**Specifications:**

<b>General</b>		<b>Accuracy (none DGPS)</b>	
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 (Internal)	Built-in patch antenna with LNA	Datum	WGS-84
<b>Sensitivity</b>		<b>Dynamic Conditions</b>	
Tracking -165 dBm		Altitude	<18,000m
<b>Acquisition Rate</b>		Velocity	<515m/sec
Cold Start	35 sec, average	Acceleration	<4g
Warm Start	33 sec, average	Log	1Hz or 10Hz (changeable by software utility)
Hot Start	1 sec, average	Update rate	1~5Hz or 10Hz (changeable by software utility)
Reacquisition	< 1 sec.	<b>Interface</b>	
AGPS	<15 sec.	Bluetooth	V1.2 compliant (SPP profile)
			Class 2 (10 meters in open space)
			Frequency: 2.4~2.4835 GHz
<b>Power</b>		Power On/Off	Slide switch (Off-1Hz-10Hz)
Built-in rechargeable Li-ion battery		Power Charge	Mini USB
Input Voltage	Vin: DC 3.0-5.0V	<b>GPS Protocol</b>	
Backup Voltage	DC 1.2 ± 10%	NMEA-0183 (V3.01) – GGA, GSA,GSV, RMC(default); VTG, GLL(Optional), Baud rate 115200 bps, Data bit : 8, stop bit : 1(Default)	
Charging time	3hrs. (Typical)		
<b>Environmental</b>			
Operating Temperature	- 10 °C to + 60 °C	<b>Device Size</b>	
Storage Temperature	- 20 °C to + 60 °C	72.2 (L) X 46.5 (W) X 20 (H) mm	
Charging	0 °C to + 45 °C		
<b>Accessories</b>		<b>USB Bridge</b>	
Car Charger	USB Cable	Fully Compliant with USB2.0	
Rechargeable Battery	Software CD		
English Quick Guide	Leather case	Standard	12Mbps
		Full - Speed	