



## Rising Sun Cycles, LLC

860-916-3696 [sales@rscycles.com](mailto:sales@rscycles.com) [www.rscycles.com](http://www.rscycles.com)

6 Holt Road, Ashburnham MA 01430

PO Box 877, Ashburnham, MA 01430-0877 USA

*Racer's Parts in Racer's Time*™

# GPS LAP TIMER **Color**

**10Hz Lap Timer to real-time record  
and display racing performance accurately**

## **Model: LT-Q6000**

LT-Q6000 is a **innovative and automatic Lap Timer** based on GPS technology. It can record lap times, speed, position and acceleration, etc, and fits all kinds of racing modes such as Drag Race, Circuit Race, Rally Race, or Performance test. **Large 2.4" Color display** to show and compare the racing data precisely and clearly. LT-Q6000 supports **10Hz Log** to calculate the position of your vehicle ten times per second which is highly accurate for extreme racing sports. Built-in **3D accelerometer** to plot G-force and function Auto Start trigger. So just turn it on and Start your race immediately.



### **Features:**

- Real-time record and analyze diversified Racing tracks
- Large 2.4" Color display and compare multiple laps and splits
- eXtreme 10Hz recording excellent for highly accurate measurement
- G-force plots and Start-Run auto trigger
- Stand alone device without hassle setting-up
- Instantly retrieve and review History database

### **Function Capability:**

- eXtreme 10Hz Log to record 10 times per second
- Real-time perform and display Lap Timing analysis
- 2.4" True color and wide display to illustrate racing data precisely
- Real time Lap/Spilt/Sector Comparison
- Multi-Function Device – Lap Timer and GPS Logger
- Start-Run by Push-and-Go, Timer, or Auto Trigger
- Diversified Drag Race modes selected by speed/distance and kph/mph
- Flexible Circuit Race selected by Lap with splits or Simple Lap
- Performance Test On-the-Go
- 2GB Large memory capacity never worry full memory
- History database well organized as Calendar and table type for easily review
- Flexible Track Manager – On-Device created to User track, and QRacing Sync to Shared track
- G-force meter to plot G-force status
- Smart speedometer to show real-time speed information
- Device configurable such as unit, backlight, brightness, time zone, or time format
- Support On-Device Export to KML, CSV or GPX files



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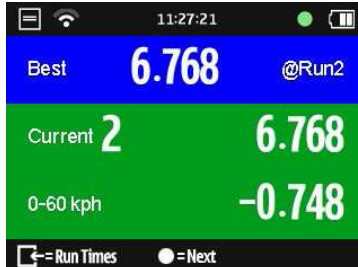
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## Display Screen:



**Main Screen**



**Real-time Drag Race**



**Real-time Circuit Race**

Lap	Speed5 (kph)	+/-
Opt	389.216	-0.000
1	126.826	-262.390
2	389.216	-0.000
3	372.427	-16.790
*4	114.274	-274.942

**Lap Times comparison**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

**Easy to access History records**



**GPS Speedometer**

## Hardware:

- Adopt **MTK II** chipset with high sensitivity -165dBm and **66-Channel** tracking
- **2.4"** (320x240) **TFT Color display** with 65K color
- Ultra lower power consumption up to **7hrs** operation (under LCD backlight on)
- **Log rate up to 10Hz** excellent for High speed Racing (\*1)
- Including **8 Function buttons** – 4 Direction Buttons (Up/Down/Left/Right) / Back, Enter, Multi-function, and Power Buttons
- 3 LED Indicators – Green for Screen Power Saving, Orange for Charging, and Red for Alert
- Built-in **3-axis accelerometer** for G-force measurement and Auto Start trigger
- Built-in **2GB large memory** inside
- Device recognized as **USB removable disk** for data access with computer conveniently
- Raise **beeper function** to notice some status of device
- **IPX-3** water resistance
- Less than 15-Sec. **AGPS** fix support to realize faster TTFF and positioning under warm start
- Mini-USB interface for charging, data download and firmware update
- User-Interface display - English
- Firmware upgradable

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

Specification is subject to change without prior notice.



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## Powerful Dual Software included: (QRacing & QTravel)

### 1. QRacing v3.1– Lap Timing Analysis Expert

- Record and manage your racing track as database structure
- Support diversified Racing type-Circuit Race, drag Race & Rally Race
- 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-force display and G-value distribution status
- Track view integrating with Acceleration/Brake line and Track rotatable
- Support screen capture and printing in HTML format
- Support Track import such as KML format

#### Avg/Max/Min Speed View

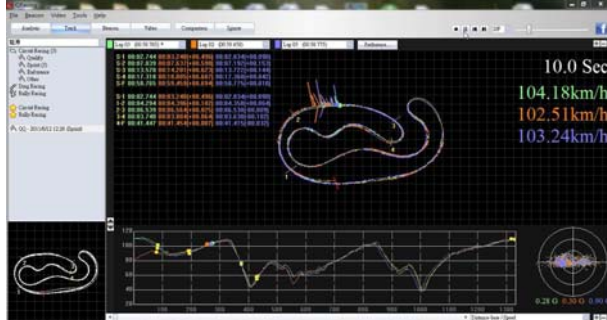
Lap	Time (Diff)	Max Speed (Diff)	Min Speed (Diff)	Average Speed (Diff)	Distance
Lap1	02:04.499 (+00:06.771)	172.99 km/h (-29.84)	56.19 km/h (-1.28)	111.08 km/h (-6.46)	3825.98 m
Lap2	02:00.039 (+00:02.311)	197.76 km/h (-5.07)	48.82 km/h (-8.65)	114.65 km/h (-2.89)	3821.50 m
Lap3(best)	01:57.728	202.83 km/h	52.49 km/h (-4.98)	117.54 km/h	3819.90 m
Lap4	01:58.421 (+00:00.693)	178.81 km/h (-24.02)	57.47 km/h	116.72 km/h (-0.82)	3825.67 m
avg.	02:00.172	188.10	53.74	115.00	3823.26

#### Sector View (Split-to-Split)

Lap	Time (Diff)	S-1 (Diff)	1-2 (Diff)	2-3 (Diff)	3-F (Diff)
Lap1	02:04.499 (+00:06.771)	00:21.167 (+02.399)	00:37.824 (+04.237)	00:14.666 (+00.686)	00:50.852
Lap2	02:00.039 (+00:02.311)	00:19.451 (+00.683)	00:34.724 (+01.138)	00:14.106 (+00.136)	00:51.758 (+00.906)
Lap3(best)	01:57.728	00:18.772 (+00.004)	00:33.686	00:13.971	00:51.399 (+00.547)
Lap4	01:58.421 (+00:00.693)	00:18.768	00:34.680 (+01.094)	00:14.015 (+00.044)	00:50.958 (+00.106)
Best Theoretical Time	01:57.177	00:18.768	00:33.686	00:13.971	00:50.852
Best Rolling Time	01:57.724	00:18.768	00:33.686	00:13.971	00:51.399



QRacing™



### 2. 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 GeoTagging function for digital photo/video and generate KMZ file easily



QTravel.



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## 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)	
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 / 5Hz / 10Hz default, and changeable by device setting
Hot Start	1 sec, average	Update rate	1Hz / 5Hz / 10Hz
Reacquisition	< 1 sec.	<b>Interface</b>	
AGPS	<15 sec.	Mini USB for charging, downloading / uploading data, updating AGPS data and upgrading firmware,	
<b>Accelerometer</b>		<b>GPS Protocol</b>	
Tri-axial digital accelerometer with $\pm 3G$ dynamic range		NMEA-0183 (V3.01) – GGA, GSA,GSV, RMC(default); VTG, GLL (Optional)	
<b>Power</b>		<b>Display</b>	
Built-in rechargeable Li-ion battery (Non-removeable)		Display Size	2.4" TFT
Input Power	DC 5.0V, 500mA	Number of dots	240RGC x 320 dots
Charging Time	3hrs. (Typical)	Display Type	65k color TFT
Working Time	7hrs. (Typical with backlight On)	Backlight	Yes (LED)
<b>Environmental</b>		<b>Device Size / Weight</b>	
Operating Temperature	- 10 °C to + 60 °C	100.6 (L) X 58.5 (W) X 28 (H) mm	
Storage Temperature	- 20 °C to + 60 °C	107grams (without bracket), 118grams (with bracket)	
Charging	0 °C to + 45 °C	<b>Water Resistance</b>	
<b>LED Indicator</b>		IPX3	
3 color LEDs to indicate different status		<b>Certification</b>	
<b>Function Buttons</b>		CE/FCC	
8 Function Buttons (4 Direction-Up/Down/Left/Right, Back, Enter,Multi-function, Power) and 1 Reset button		<b>Accessories</b>	
Car Charger	Mini-USB Cable	Bracket kit	Car Holder
Software CD (QRacing + QTravel)	Protection case	English Quick Guide	Sticker