Street Racer Version 4

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Introduction

Self contained timer, no PC required. Used for trial runs. One sensor is used for the start and finish line. (One sensor per start and finish line is also available). Unit Support two external lights, (requires Light module driver sold separately) which accomplish almost as much as full size Drag Tree but without the cost. Here is how it works… start the race with button #2, 5 seconds later the light will come on. If a racer red lights(leaves too early) the light will stay on. When the race is over Light will flash for the winner. Results will be displaced on the LCD display.

Applications:
- Radio controlled cars
- Bikes
- Running
- ATVs
- Skating

Features:
- 2x24 LCD display
- Supports 2 Lanes
- Elapsed Time
- Reaction Time
- MPH
- Win Margin
- Indicates Red Light
- Review last 16 races
- Infrared beams
- Flashes Winner

- Runs on four AA batteries

Installation
Install batteries in the timer and infrared transmitter box.
Remove the back cover and install four AA batteries in the timing box.
Connect Sensor Cables to the middle connector on the back of the timer box.
Install a pair of beams for each lane. Maximum distance between receiver and transmitter is about 25'
Install Speed sensors 10 feet before Finish line sensors

Cables and Color Code
Left Connector = Start cable
Middle connector = Finish Cable

Red = Right Lane
Green = Start
White = Speed
Blue = Finish

On Power on
Model and Version number and basic instructions will scroll by. Use the first button on the left to exit.   The unit also tests the win lights, on power on Left Win light will blink then the Right Win light will blink,

Running a Race
Cars must be placed before the infrared beam so as to not block the infrared beam.
Hit the start race button. Reset Race by using Button #3 you may have to wait 5 seconds after the race to reset.

Light Module (Optional)
 Both Lights will come on after 5 seconds … Go! When lights turn on. If a racer crosses the beam too early a negative reaction time will be displayed and his light will turn back on to indicate a Red Light. When the race is over Light will flash for the winner. Light will remain on if you red light.

Viewing Results
Displays: [Elapsed Time   Reaction Time   Win Margin]
Top line should be your left lane
Bottom line should be your right lane.

Elapsed time (ET) does not include Reaction time (RT)

Transmitter Receiver Pair

Infrared Transmitter Beam

Reference

DB9 Sensor Connector Pinout

Start Sensor	Left Lane	#3,8	
	Right Lane	4,9	
Finish sensors	Left Lane	3,8	
	Right Lane	4,9	

Pins 6,7,8,9 are Ground pins

Troubleshooting / FAQ

Q: Why is the LCD display very dim?
A: Replace 4x AA batteries.

Q: Why does the light stay on after reset?
A: This indicates that the start sensor is blocked or misaligned.

Q: How can I view the reaction time?
A: Press button #2.

Q: What is the purpose of the blue USB to serial cable?
A: It is only used when updating the firmware in the timing box. It needs to be connected to a PC.

Q: How long do the batteries last?
A: The batteries typically last for about 30 hours.

Q: As soon as I start race, the timer is running
A: If you are only using one lane this is normal. The top line on the LCD display is the left lane, the bottom line is the right lane.

Q: What is the number on the far right?
A: It shows the win margin for the winner. Ignore on single lane setups.

Q: Will I need anything else other than the AA batteries to operate this system?
A: You will need 16x AA batteries nothing else

Q: What's the support for this system once I receive it? is there a warranty, do I get a phone
A: number in the event I have any issues?
Yes support is provided and there is a one year warranty

Q: can this system be upgraded to a dual lane down the road and if yes what would be the cost?
A: You can upgrade to two lanes by adding sensors, cost $540 for 3 sets of sensors, start, speed, finish

Q: Can I add a laptop to this system or do I need any additional items/software?
A: I recommend getting the Full blown drag system. The sensors and cable are compatible with the DP500 drag system or just the sensors on the DP900 Wireless system.

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