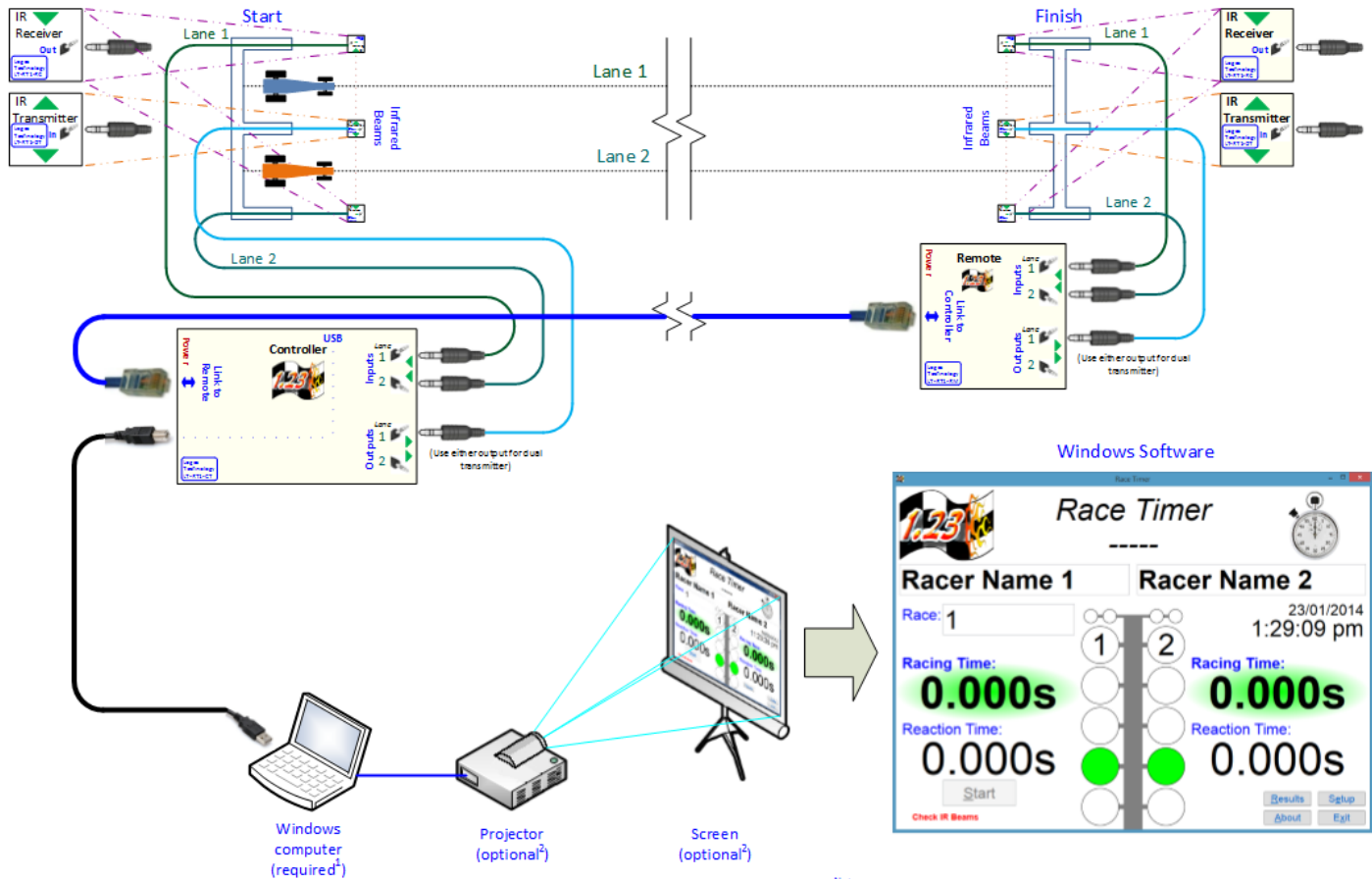# Race Timer – Infrared Timing

Welcome to the Race Timer designed initially for CO_2 racing cars. The timer consists of USB hardware that accurately measures the race time with Infrared technology and software running on a computer that controls the race and displays the results.

Features

- *Racing Accuracy:* 1ms, 1/1000 second timing for accurate timing. This is crystal oscillator based electronic hardware timing (the laptop computer is not involved in the measurement process). 0.5ms measurement granularity to ensure timing accuracy.
- *Racing Experience:* Drag racing "Christmas Tree" sequencing starting display for real racing experience.
- *Race Viewing:* Overhead screen projector (not supplied) display interface supported by the laptop for viewing by a large target audience.
- *Racing Display:* Screen shows dual lane information: reaction time, race time and racing speed. All software is included.
- *Race Sensors:* Supplied Infrared light beams provide non-contact race sensors. These employ modulation technology and automatic level control to operate reliably in a broad range of ambient lighting conditions with noise immunity for accurate timing.
- *Race Track:* Track (not supplied) can be any practical length and the racing time is essentially unlimited. Metric or imperial supported for track length and speed in **mph** and **km/h**.
- *Racing Drivers:* Racing driver names can be supplied as a text file and can be simply selected at racing time for an efficient racing experience.
- *Race Results:* The daily racing results can be viewed in a table and are continuously stored in a spreadsheet for record keeping and analysis.
- *Race Modes:* One or two lanes, winner can include reaction time as well as racing time, manual or automatic stating (with solenoid option).
- *Race Options:* Solenoid starting with manual switches or user supplied firing mechanisms are supported.

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