



## RSTime Circuit Automation

### Scoreboard, Pit speed, light beam and camera solution.

For circuit automation we have developed several software solutions to automate activities involved with time keeping. These solutions are installed at circuits all over the world to support the timekeeper and race control. Instead of manually activating or adjusting the scoreboard, the RSTime Scoreboard server connects to the timing system to receive the information to show. Safety in the pit lane is of importance. The RSTime Pit speed automatically measures the speed of every participant through the complete pit lane and prints speeding reports. With the light beam synchronizer all light beam- or start signals are synchronized to one central clock. And the camera solution helps the timekeeper recognize start numbers, solve unknown transponders and light beam passings.

#### Automating the circuit with different software solutions

Show information about the current race on any type of scoreboard.

Increase safety in the pit lane with the Pit Speed software

Synchronize light beam - , start signal and decoders to a GPS clock.

Never miss a passing of a participant with the camera solution



The start of a race event can be hectic for every time keeper. Your first priority is to have a reliable result at the end of the heat. All unknown transponders and any vehicles without a transponder on the track must be solved. With the speed of today's vehicles it is sometimes very difficult to read the start numbers. The camera can help with this problem. The **RSTime camera solution** records everything happening on the finish line. All images are stored and can be viewed in the timing system. When an unknown vehicle passes the S/F loop one can watch the recorded image of that moment to read the start number. The transponder or light beam signal is easily assigned to the correct start number. No longer miss any passings with the help of the camera.

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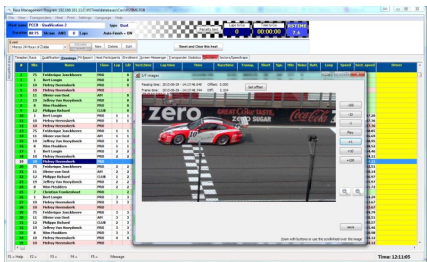
### RSTime Scoreboard

- Presents data of the running race on any type of scoreboard.
- The control software for the scoreboards is multi-user.
- Integrated image mirror for scoreboards that have no communication protocol.
- The scoreboard can for example show : name of the heat, current time, time countdown, laps countdown or a combination.
- Lap countdown at pre Start/Finish loop. The leader of the race can see the laps count down when he passes a loop 30 meters before S/F.
- Information on the scoreboard can be received from the Timing system or be set manually.



### RSTime pit speed

- Detect vehicles that violate the maximum speed in the pit lane.
- Increase the safety in the pit lane by detecting violators.
- Violation reports are automatically printed when a violation is detected.
- Mylaps hardware is used to detect the violators. Loops must be installed in the pit lane.
- Connects to the RSTime timing system to receive start number and name belonging to the violator.



### RSTime camera

- Records everything that happens on the finish line with a speed from 15 images per second up to the highest possible (depending on the camera).
- Never miss a passing of a car with a bad placed transponder.
- No troubles reading start number and solve unknown transponders on the track.
- Replay the finish order.
- Camera is integrated in the timing software to easily solve unknown transponders or light beam signals.

### RSTime light beam

- Module allows light beam / start button signals to be mixed with GPS signals.
- Up to 5 decoders can be connected to synchronize with the GPS clock.
- Synchronizes for example with a GPS antenna from Garmin or a Timerserver

