Triathlon Timing System

Orbiter’s Sports Timing system is just what your Triathlon organization needs to make your event successful. It uses radio frequency identification (RFID) tags to keep track of athletes. The Orbiter registers each segment and transition point as the tag passes an Orbiter detector.

The detectors only take 3 minutes to set up and can be rolled immediately after a Start to the Finish line by simply tilting and rolling the pylon. Triathlon race managers like the immediate set up feature and it is important for venues that allow a limited time to set up.

The system provides easy-to-use software allowing dynamic wave starts, quickly positioning detectors at transition points, multiple, individual and team enrollment. Dynamic wave starts means that entrants may jump into waves at the last minute yet their finish times are accurate. Timing results can then be wirelessly downloaded to a PC or accessed through a report displayed on the Internet.

It is a completely “touch less” system with a range of 30 ft. or 15 ft. depending on the power setting.

Delivered as a complete system out-of-the-box, the software installs easily and tag registration is a breeze. Simply place the orange detector at the Start/Finish line, power up and you are ready to go. No power cords are needed, as each detector has 8 hours of battery-power. The Orbiter is portable, affordable and easy to use - making it the perfect automatic timing system for triathlon. Take your timing system to the event in a SUV or Subaru like vehicle. Set up and take down the timing system with just one person gains the Orbiter Timers the competitive advantage.

The Hutag.com is used for Triathlons.

For more information
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The Orbiter detector uses AGM batteries which are replaced through a hatch door on the bottom of the bollard. A marine 120 volt plug is also positioned at the bottom of the Orbiter. This allows for powering through a standard extension chord plug. Life of the detector is immediate on plugging in a power chord. The power supply is 24 volts which is 25% greater than competitive products thus allowing the best tag read capture rates. A battery indicator light tells the user of the power level (Green – Yellow – Red). This allows plenty of time to plan ahead for recharging the units. The batteries may be recharged while the unit is in use. For Triathlons HuTag.com tags are used. These are unique passive (no battery) tags specially designed for Triathlons and Mud Runs. They are affixed to the ankle or wrist using a standard Triathlon strap.

Typical deployment of a standard sized Triathlon: A total of three Orbiters are used. One is placed at the start, utilizing the Dynamic Wave Start™. After the start this unit is moved immediately to the Finish. A second bollard is positioned at transition point one, and a third at transition point two both are set to permanent position and may not be moved until the last participant passes.

The bollards may be set to last tag detect seen or first tag detect seen depending on the race directors preference. The distance tags may be detected form the detector may also be controlled. This is done through Orbiter’s Phase Detection technology.

An internal clock keeps time within each bollard. These are synchronized and according to US Military testing are 1/100th seconds accurate and do not drift during the test period (30 days). The clocks automatically synchronize with the scoring computer each time they come in contact.

The Watch Dog software inside the detectors send Heart Beat messages to the scoring computer signifying all is well.

Due to the battery weight placed low in the Orbiter the detector is normally stable. In high wind it is recommend that two sand bags be placed at the base of each Orbiter. The system is extremely rugged and may be dropped and abused. No separate pelican case or time detector control box is required as in other systems. This third wheel typical of other systems is eliminated due to the modern design and adds to the economy of the system.

The incorporation of the Orbiter bollard and HuTag provides Triathlon race directors with the most economical and modern patented design.