Fitness Assessment

Orbiter’s Assessment Timing system is just what your military, police or government unit needs to make your test successful. It uses radio frequency identification (RFID) tags to keep track of participants. The Orbiter registers each lap and split time as the tag passes an Orbiter detector in the microwave or UHF radio band.

The mobile detectors only take 3 minutes to set up and can be rolled immediately after a Start to the Finish line. Systems maybe permanently installed outdoors or indoors. Assessment managers like the immediate set up feature and it is important for venues that allow a limited time to set up.

Easy-to-use software allowing quick back to back tests. Configure your course anyway you can imagine such as out and back, loop track, segment times on obstacle courses. Start your test with by Gun (Mass Start) or by Chip (Individually). Timing results may be viewed in direct sunlight on a Panasonic Tough tablet in real time wirelessly.

The mobile system is delivered as a complete system out-of-the-box, the software installs easily and tag registration is a breeze by roster number or name. 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 Spire detector has 8 hours of battery-power. Sling detector 4 hours. Permanent systems with 120 v power. Super rugged as the US Capitol police says they drop the Orbiters all often and can’t believe they still operate after 4 years.

Exceptional service anywhere in the world at anytime. Orbiter provides real time support in your time zone. Used in 33 Countries and Territories including Guam, China, Japan, Russia, Italy, Holland, Kenya, Alaska, Brazil, Mexico, Peru and more. Call for a demo download.

For more information
866.938.3587 Orbiter.com

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The Orbiter detector uses AGM (AGM batteries which are replaced through a hatch door on the bottom of the bollard. A 120 volt plug is also positioned at the bottom of the Orbiter. This allows for powering through a standard extension chord plug. The power supply is 24 volts allowing the best tag read capture rates.

A built-in battery power level indicator (Green – Yellow – Red) is standard. This allows plenty of time to plan ahead for recharging the units. The batteries may be recharged while the unit is in use. Choice of Microwave or UHF 3D passive tags are used.

Bibs or tags affixed to the ankle or wrist using a standard Triathlon strap may be used.

All Weather design used daily in desert, mountain top and tropical environments.

The bollards may be set to last tag detect seen or first tag detect seen depending on the fitness directors preference. The distance tags may be detected from 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.

System operates in logging mode (without a live connection to a tablet / laptop) or in real time mode with a connection. A copy of your test is always retained inside the detector so even if your tablet / laptop is broken your test results are safe.

Due to the battery weight placed low in the Orbiter the detector is normally stable. Total weight is 30 lbs. In high wind it is recommended 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.

The incorporation of the Orbiter bollard provides Fitness Assessment directors with the most economical and modern patented design.

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