

WHY ALL SIDE ANTENNA ARE NOT THE SAME

SOME DON'T WORK QUITE RIGHT

A COCA COLA V. PEPSI COMPARISON:



Example 1: Many parts to assemble and more difficult to move. Quick movement is important for many events. Such as moving detection points from Start to Finish, or leap frogging them on way points. Not easily possible with cables and mats.

The Orange cables have delicate copper inside starts to fray over time rolling and unrolling. Tag detect sensitivity then suffers.



Example 2: Fuzzy finish with two antennas side by side. This is an admission that one set cannot handle the flow. Time inaccuracy between the two sets of antennas.

Worse is the Grey Pelican Control Box (bottom right of picture) is now made obsolete. Low battery power versus Orbiter high 24 volt DC power with safe AGM batteries. Note that the 4 antennas share one RFID reader. Only 1 antenna is powered at a time as the power blinks one at a time between them.



Example 3: The yellow stand and patch antenna setup, shown on the left, has many parts to assemble. Antenna cables and stand take too long to set up. Teachers and Race Organizers often do not have the extra time to do this. The attraction is perceived lower cost; However, **the Orbiter "Groot" price at \$ 950** is still less than a do-it-your self system, and has greater abilities.

Orbiter shows where the tag is detected immediately. All timing is done inside the smart antenna and not at a remote computer. Orbiter has no latency to show where the tag is detected as in other systems.

Independent third party validation shows that Orbiter side antennas are more accurate. Plus, as an option you can use **last tag detect seen** for bike races.



Example 4: The Orbiter side antenna system is Easy & Works!

You can also do more types of event. This is because you can **link more than one antenna together** to work as one, or quickly **create way points** along a path.

"All in One" just Roll into place and **"Turn On"**. No IP addressing necessary. No cables and 100% wireless with recharger, safe AGM batteries, WI-FI, data cellular, GPS.

Did you know 30 out of 40 of the largest USA marathons use Orbiter licensed side antenna technology?



See videos and more at Orbiter.com (US Patent No. 8085136)
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Example 5: If you see one of these, you know your side antenna won't work correctly. The long red cables shown will get in the way and degrade the RFID signal by 30%. The box is extra dead weight. Susceptible to rain. If Lithium Ion batteries are used they are prohibited on Airlines. Orbiter AGM batteries are approved for Airline travel. Lithium Ion is costly with surprise cancellation of airline tickets.



Example 6: Fastening and unfastening cables in the winter means cold fingers. Connectors have a greater chance of being damaged. Cables can be left behind at



the race site. Trained technician to assemble and operate.

Orbiter is Easy, just point, and turn "On" by anyone.



Example 7: Orbiter side antennas are versatile and time both Large and Small races. The system can be configured in many ways.

Orbiter side antennas are both permanent mounted and mobile.

Many detectors operating at the same time over a wide area or close together.

Choice of UHF or Microwave RFID.

Our Secret Sauce: No other RFID reader has the Turbo Charger (TC) as seen on the right. This exclusive green board is of Orbiters proprietary design. It is the marriage of electrical engineering hardware design AND software engineers that makes Orbiter work at **33 % more voltage** than others. Buying commodity RFID readers is not a fully functional solution like Orbiter.



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