

(This page is for technical geeks. For you as a user, just turn "On" and "Go".)

Orbiter's Two Software Designs

- ✓ Designed for permanent installations that uses a server in the CLOUD.
- ✓ Designed for mobile use- localized for most races. Localized design is for races where the server (Laptop or Tablet) is typically located at the Finish or mobile somewhere along the race route.

Localized Orbiter Software approach means greater stability and lowers risks as the race timer controls the data and communications with the readers at the finish.

Industry experts have told Orbiter that no other timing software comes close to comparing to Orbiter's features. Orbiter's lap counting software is STABLE and RELIABLE!

Orbiter's Key Benefits: Critical features for side antenna race timing success!

1. **Reprocessing**- critical and most important. (Allows for configuration changes during and after event). This one feature has saved more events than any other!
2. **Cloning**-second most important feature is the ability to **Clone**. (Copy races in a few key strokes.)
3. **Condition Monitoring** a third feature is advanced live remote detector **Monitoring**. Similar to NASA mission control. With this, there is no need for buttons or tiny LED's on a remote box.
4. **Special Embedded Software** inside the reader that works in unison with the application layer that runs the reader in a different way than off the shelf reader manufactured software.
5. **Software controlled high 24 volt DC operation** which produces much better tag detects than lower Standard reader DC voltage. Positions the tag in the read zone.
6. **Database** which is pre-scaled to handle every race or school, student, teacher in the world.
7. **Embedded Reader Software** Eliminates Plastic Pelican Boxes and allows Instant set up.

Other Important Software Features:

8. **Minimum Lap Time** (No free laps for participants).
9. **Minimum Leg Time** (No false detections if there are way points).
10. **Child** (An advanced database term which means to quickly join many races into a grand total.)
11. **Ease of use.** (So simple '**Anyone Can Time a Race**'. A bold statement but true! **Call** 1-888-816-4366 or 253-627-5588. **Ability to Rent timing equipment**...Customers have said that the Orbiter system is the only system that has been successful for them for Rentals.
12. **Beep** - LED signals in **real time where the tag was detected** for all to see. Other systems lag about 6 seconds. This delay in detection by other systems means the participant is long gone from the detection spot.
13. **First Tag Seen & Last Tag Seen** detections. (Good for Bike Races)
14. **1/100th second accuracy** determined by a third party the USAF, Edwards AFB.
15. **Lap Count Reliably.** (Seems easy to do but actually very difficult to do.)
16. **Localized server method** that pushes to the cloud versus a CLOUD approach.
17. **The Event Planner.** (Allows for scheduling mass number of events quickly.)
18. **Trading of tags** between PE classes and students.

For Fundraising reliable lap counting is critical for events. Economically- the ability to rent equipment, as opposed to purchasing is perfect for 1-time fundraising events! Reliability and simplicity is key which is not offered by other systems. See: <https://youtu.be/fm2ireILLgE>