

## **CASE STUDY:** **RACE RESULT Ubidium Installation at the National Cycling Centre**

**Client:** British Cycling / National Cycling Centre / Manchester City Council

**Venue:** National Cycling Centre, Manchester, UK

**Installation Date:** December 2024

### **Solution**

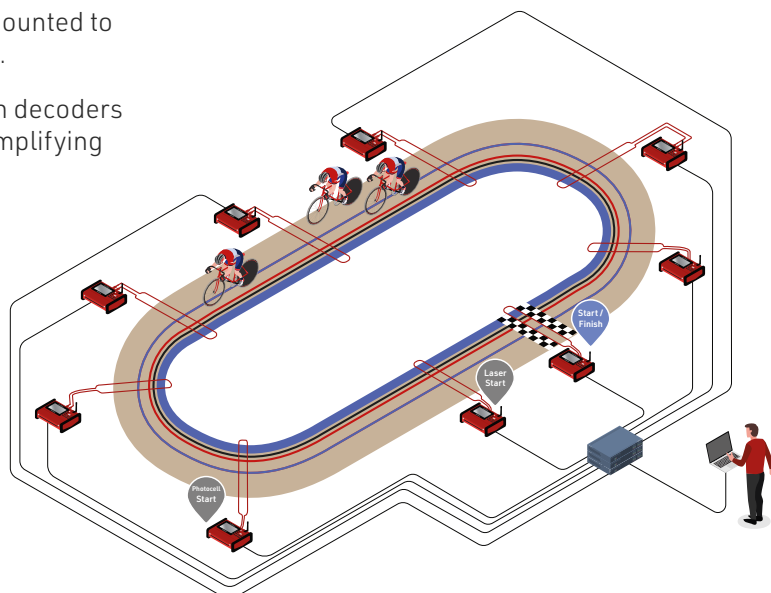
To eliminate detection failures, the following system was installed:

- ✓ **9 Ubidium Decoders** – Installed at each timing point, sending real-time data to a central server via the internal network.
- ✓ **9 Timing Loops** – Mounted to the underside of the velodrome track using a tack gun/stapler and connected to each Ubidium decoder.
- ✓ **200 x V3 Active Pro Transponders** – Mounted to the front bike fork for precision timing.
- ✓ **Power over Ethernet (POE)** – Ubidium decoders require only a single cable per unit, simplifying installation and maintenance.

### **Challenge**

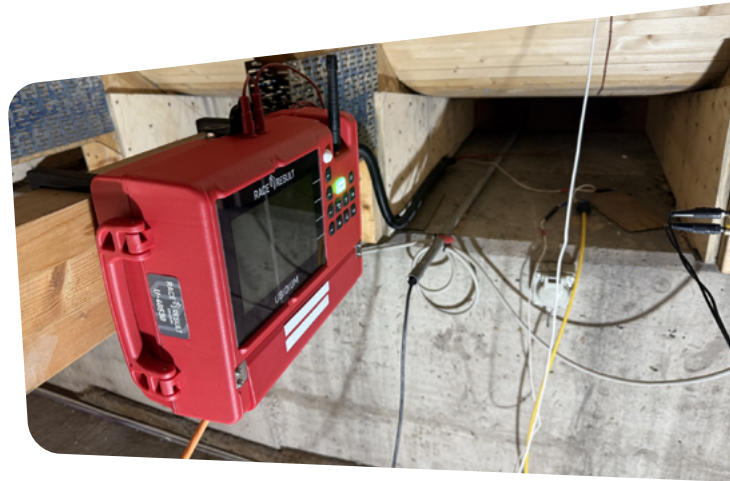
British Cycling and The National Cycling Centre faced a major issue: a **high rate of lost transponder passings due to EMI/RFI interference** across all nine timing loops. This was significantly **affecting race accuracy** and **disrupting daily training sessions** in one of the world's leading cycling hubs. A **reliable, interference-free** solution was critical.

- ✓ **Integrations** – Ubidium incorporates dedicated hardware trigger inputs that support direct interfacing with UCI-approved automatic start gates and photocell timing systems. This design ensures reliable synchronization, low-latency signal processing, and compliance with competitive timing standards.



## Results

- ✓ **Zero missed detections** in the first commissioning test with **12 riders** and **10,000 recorded passings**, even with loop power at just **50%**.
- ✓ **Interference-free, reliable timing** for **daily training** and **competitive events**.
- ✓ **Seamless installation** – Ubidium decoders fit neatly beneath the track.
- ✓ **Smooth transition from MyLaps**, resolving a 2-year-long issue.



## Client Testimonial

*"It's a huge relief to have an alternative solution and finally put an end to the issue we've faced for over two years. I genuinely think a lot of velodromes will need this system!"*

**Adam Bonser**, Chief Test Engineer, Great Britain Cycling Team

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