

The Active Traqr

Qualisys' active tracking device - the Active Traqr - is a compact and lightweight target, plated with four active markers, and provides positional and orientational data in real-time. The bare-bone version - the Naked Traqr - is a circuit board with Qualisys active tracking technology that can be embedded into objects and props.

The Active Traqr provides accurate and stable six-degree-of-freedom (6 DOF) information about the object or body part to which it is attached. Active targets emit light, rather than reflect light, allowing tracking of 100+ targets without the need for unique marker patterns. Sequence coding of the individual markers enables the system to distinguish them from each other, resulting in stable and trouble-free target identification.

The device is optically synchronized, as opposed to radio-synchronization, which makes it immune to radio-interference. The optical synchronization also means that no extra device is needed to synchronize the active trackers. It is all controlled by the cameras' strobes.

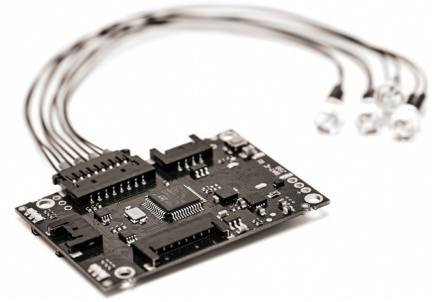
FEATURES

- Automatic identification
- Real-time 6DOF tracking and streaming
- Sequence coded
- Naked Traqr for insertion into objects
- Measurement distance
35m (115 ft) with Arqus A12
- Maximum frequency 500 Hz
- 20 hours of continuous operation
- Optically synchronized
- Tracked by any Qualisys mocap camera
- Supported by Qualisys Track Manager
- Includes software for easy configuration

OBJECT TRACKING AND LOCATION BASED VR (LBVR)

The Traqr and the Naked Traqr are excellent choices in setups when you need to track a large number of objects. Embed the Naked Traqr into drones to make swarm tracking harmonious and straight forward. Attach the Traqr to vehicles, robotic arms or any objects where precise and trouble-free tracking is needed.

The Traqr can also track humans through full-body end-effector skeleton solving in QTM, especially useful for full human body tracking in free-roaming location-based virtual reality (LBVR) applications. Attach the Traqr to hands, feet, pelvis, and head. QTM will solve the skeleton and stream it to a game engine or animation software of your choice. QTM currently supports direct streaming into Unreal Engine, Unity, MotionBuilder, iClone, and Maya.



Naked Traqr, for embedding into objects and props, supports up to 8 sequence coded markers

THE TRAQR ECOSYSTEM

- The Traqr and mounting accessories, for easy attachment to objects and bodies.
- The Naked Traqr to embed into objects along with up to eight sequence coded active markers.
- HMD snap-ons designed to fit commonly used HMDs in LBVR. The snap-on comes with a factory-installed Naked Traqr.



Straps and fixtures for hands and feet ensure quick and easy change of players in LBVR

TECHNICAL SPECIFICATIONS

| | |
|-----------------------------|---|
| Range | 35m (115 ft) with Arqus A12 16m (52 ft) with Miquis M3 |
| Battery time | 20 hours @ 100 fps continuous measurement |
| Charging time | 2 hours |
| Connector | USB-C |
| LEDs | 4 wide angle, NIR LEDs with diffusion |
| Maximum frequency | 500 Hz |
| Number of Traqrs supported | 185 |
| Synchronization | Optical |
| Material | Polyamide, silicone rubber |
| Size (Incl. markers) | 70 × 85 × 21mm (3.75" × 3.35" × 0.85") |
| Weight | 70g (2.5 oz) |
| Operating temperature range | 0 – 50 °C (32 – 122 °F) |



Active Traqr is lightweight and compact for portability and easy attachment