

TERRATRACK

High performance device tracker

DESCRIPTION

TerraTrack is a lightweight real-time object tracking system designed for edge deployment. It combines AI detection with robust tracking algorithms to deliver fast, reliable performance on CPU-only systems and embedded platforms such as Raspberry Pi.



TECHNICAL SPECIFICATIONS

PARAMETER	
Processing Latency	18 ms end-to-end on Raspberry Pi 5* (detector + tracker, 20 objects)
Multi object tracking	Up to 20 simultaneous tracked objects
Detection System	YOLO family and motion-detector compatible
API Languages	Python, Rust, C++
Tracking Capability	Camera motion resistant tracking with occlusion recovery

* Latency was measured as the elapsed time between input frame acquisition and the completion of the tracker update, including detector and tracker processing. Measurements were collected on a Raspberry Pi 5 with ~20 simultaneously tracked objects and the latency was averaged over all processed frames.

LICENSING & COMMERCIAL OPTIONS

- OEM Raspberry Pi 5/CM5 license – device-bound license for dedicated deployments. Non-transferable.
- Perpetual license – unlimited deployments with a perpetual usage right, including one year of support and software updates.