Paravision
Streaming Container v7

Paravision's Streaming Container Version 7 integrates with standard video protocols, such as RTSP, to accurately detect and extract faces, people, and vehicles. Streaming 7 delivers outstanding system efficiency, handling over 250 frames per second of video—from an arbitrary number of sources—on a single Intel CPU / NVIDIA GPU instance.
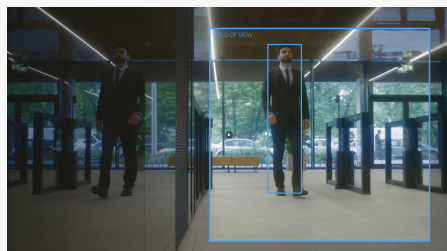
Face Detection

Streaming 7 enables Paravision's world-class face recognition engine to work with standard IP video feeds, enabling multi-factor authentication or biometric identification for access control or complementary video security applications. Fully modular, the Paravision Streaming Container can be deployed seamlessly with Paravision's other cloud-ready, Docker container-based products to enable complete face recognition-from-video solutions or used in a standalone manner to extract face images from video feeds.

With advanced face tracking, Streaming 7 delivers consistent performance across multiple video streams and even if a face is intermittently occluded, enabling steady tracking of faces across a group of people. This reduces unnecessary repeat identification, enabling more consistent results while reducing burden on backend matching systems.

Critically, Streaming 7 relies on Paravision's NIST FRVT-certified image quality toolset, which has been shown to have a best-of-breed correlation with actual matching performance. In this way, Streaming 7 does not just detect faces in a field of view, but determines when they are of sufficiently high quality to enable biometric identity. Providing the right face images at the right time improves security while decreasing network bandwidth requirements and reliance on other system components.

Person and Vehicle Detection

In addition to face detection, Streaming 7 now offers person and vehicle detection, which can deliver complementary operational insights in physical security, travel and transportation, and smart cities applications. This enables a wide range of use cases, from people and vehicle throughput analysis to perimeter detection, tagging open parking spaces to ensuring safe access at automated access points
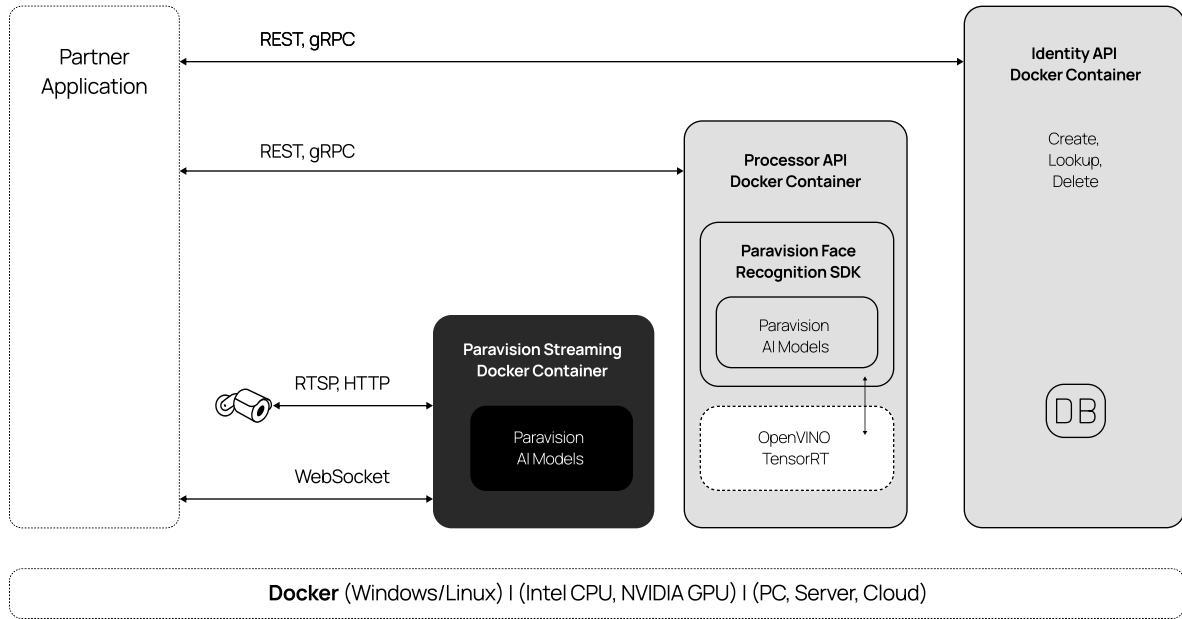

Person detection
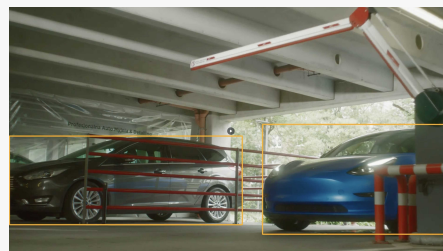
Vehicle detection

System Architecture

Docker (Windows/Linux) I (Intel CPU, NVIDIA GPU) I (PC, Server, Cloud)

Technical Specifications

Deployment method	Docker container, supporting on-premises or cloud-based computing
Supported operating system	Linux, Windows
Supported compute platforms (Computer vision frameworks)	Intel CPU (OpenVINO) NVIDIA GPU (TensorRT)
Supported video protocols	RTSP, HTTP, others available on request
Streaming throughput	>250 frames per second with Intel Xeon + NVIDIA T4