



RedSpeed™ USA

ADVANCED VIDEO ANALYTICS (AVA) Artificial Intelligence Platform

RedSpeed is proud to present *AVA (Advanced Video Analytics)*, the most advanced artificial intelligence platform available to integrate with automated traffic enforcement systems or operate as freestanding units.

Only a product demonstration can properly convey the impressive scope and scale of results to aid law enforcement through this platform with instantaneous recognition of suspected culprits passing through this network of visibility, saving hours of human legwork and research. *Product demonstrations conveniently available by appointment.*

Vehicle Make & Model Recognition

Red Speed's Vehicle Make and Model Recognition can recognize over 200 makes and 2000 models. This enables one to search for or be alerted of a vast number of specific vehicle makes and models through multiple cameras and uploaded files. Alert rules can be strategically configured to send real-time notifications when the specific make and model is detected in the camera's field of view.

Common applications include forensic investigation, access control, loss/theft prevention, vehicle tracking, and much more. This function works even better in conjunction with other analytics such as License Plate or Face Recognition for highly specified results.

License Plate Recognition

RedSpeed's AI License Plate Recognition (LPR) is a real-time, high-performance software solution used to identify and analyze license plates from over 100 countries worldwide. LPR is an application module available in the RedSpeed platform, which is easy to deploy, maintain, and scale from small business to enterprise-level systems.

The LPR floating license enables one to use the networks of IP-based surveillance cameras for multiple AI functions to monitor suspicious or anomalous behavior, improve access control, and match against watch lists, especially at choke points where vehicles enter or exit a facility.

Face Search & Recognition

RedSpeed's AI Face Search enables the rapid search of a person in a video footage based on an input image of the person's face. By having the search engine based on artificial intelligence and deep learning, each search query can yield results within only seconds, which helps locating a person almost immediately in real time.

RedSpeed's AI Face Recognition continuously detects and recognizes faces from IP video surveillance cameras. The subject is detected regardless of motion or proximity to the camera. This Face Recognition solution relieves human operators from continuous monitoring with confidence. The RedSpeed platform provides a comprehensive user interface to easily and swiftly access the collection of events registered by

Video Search

RedSpeed's Video Search eliminates the need to manually inspect hours of video for objects or persons of interest and enables the user to locate the needle in the haystack of terabytes of video data. The user experience is intuitive and based on an easy-to-use natural language interface. The core abilities include:

- Object Search
- Vehicle Search
- People Search
- Animal Search

RedSpeed's deep learning video analytics are not based on computer programming. Instead, they are trained based on Artificial Intelligence neural networks.

People/Vehicle Counting

RedSpeed's People & Vehicle Tracking (PVC) solution also called AI Counting, quickly and accurately tracks and determines the number of people/cars in the camera's field of view.

RedSpeed's AI Counting can be used in many types of public access areas, such as transportation hubs, airports, theme parks, national landmarks, entertainment venues, retail shops, tourist attractions, banking, and corporate facilities. Able to process real-time, the AI Counting solution is valuable in service management analysis and forecasting for both security and business intelligence purposes.

Social Health Analytics™

RedSpeed's Social Health Analytics™ is a comprehensive suite of social health screening capabilities for organizations seeking to re-open and operate safely during the coronavirus pandemic.

RedSpeed can process images from just about any IP-compliant video camera to detect report and alert:

- Face Masks - No-mask Alert
- Distancing - Distance Alert
- Occupancy - Capacity Alert
- Temperature - High-temp Alert

Intrusion Detection

RedSpeed's Intrusion Detection automates the monitoring tasks for high-risk sites to provide a high level of security and security personnel monitoring efficiency. The simple plug-and-play setup enables our AI Intrusion Detection to be deployed in real-world applications.

Traditional intrusion detection systems detect objects based on size and location, but do not recognize the type of objects. RedSpeed's Intrusion Detection (Virtual Fence), with the built-in AI algorithms to recognize over 100 types of objects, can distinguish objects of interest, e.g., a person, from irrelevant objects in the Region of Interest (ROI), (e.g., animal, plastic bags, moving shadows at dawn/dusk). Thus, there is a significant decrease in the false-positive rate.

These analytics may be used alone or in combination.