



Unleashing The
Power of Scalable
Video Analytics

AvidBeam Video Analytics Solutions



Email
info@avidbeam.com



Website
www.avidbeam.com

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Who We Are

AvidBeam® is an AI video analytics company that pushes the boundaries of video processing capabilities with big data distributed architecture. Its expertise in computer vision, deep learning, visualization and neural networks enable AvidBeam® to offer scalable video analytics solutions for security, safety and business intelligence applications to its customers.

AvidBeam team delivers video processing and analytics products cutting across various verticals and geographies including Smart Cities, Smart Retail, Transportation, Oil & Gas, Healthcare, Education, etc in the Middle East, Gulf and North America.

Industries We Serve

- | | |
|--------------------|-----------------------|
| ✓ Smart Cities | ✓ Smart Buildings |
| ✓ Retail Stores | ✓ Gated Communities |
| ✓ Industrial Zones | ✓ Law Enforcement |
| ✓ Banking | ✓ Transportation |
| ✓ Malls | ✓ Security Facilities |
| ✓ Railway Stations | ✓ Oil & Gas |
| ✓ Toll Stations | ✓ Hotels |
| ✓ Healthcare | ✓ Ports |

Our Solutions

AvidFace

Know The Story Behind Every Face

Discover the power of accurate human face detection and recognition with AvidFace.

AvidRetail

Your Trusted 24/7 Retail Analytics

Enhance your retail operations with our e-retail analytics experience.

AvidAuto

The Essence of Safety

Experience real-time traffic monitoring with precise vehicle license plate recognition and advanced vehicle and driver detection capabilities

AvidGuard

Your Vigilant Guard

A smart early warning system that provides prompt alerts and situation logging

AvidHawk

Eye Hunt Like a Hawk

Efficiently summarize long video footage into short clips

Why Choose AvidBeam



Ease of Integration

Our solutions can be integrated with third party/ IoT platforms to generate ample amounts of data for better and actionable decision making



Professional Expertise

Our team of highly qualified professionals have extensive technical and business experience, with a broad range in different industries



Diverse Portfolio

Full portfolio of video analytics use cases for safety, security and business intelligence that can live on edge, data center or cloud



Customer Centric

We customize and design our AI-based solutions based on each application and customer need



Scalability

Synthesizing big data analytics tools to support large numbers of surveillance cameras, to process and analyze massive amounts of video streams accurately and in real-time



Flexible

Diversified ways of access; either locally as co-located with your video management system on your private cloud, or remotely as a cloud-based solution

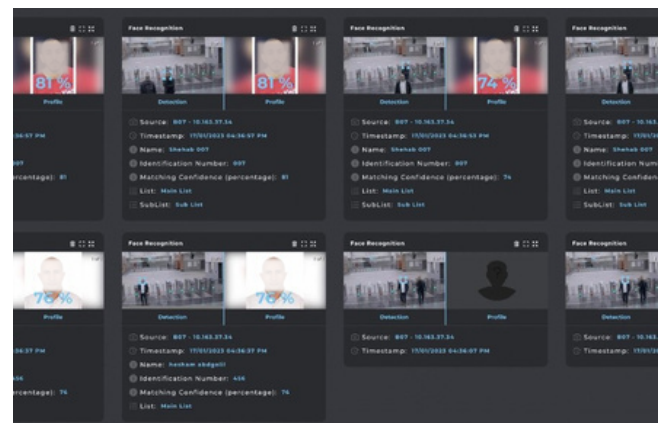
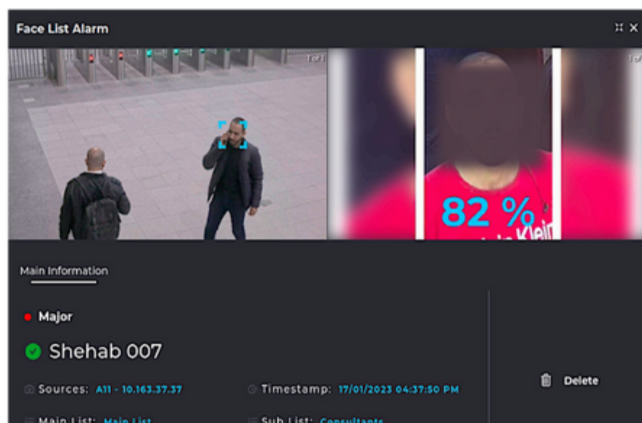
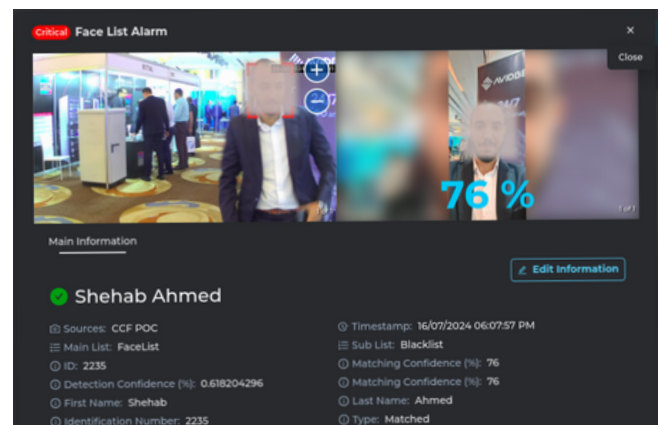
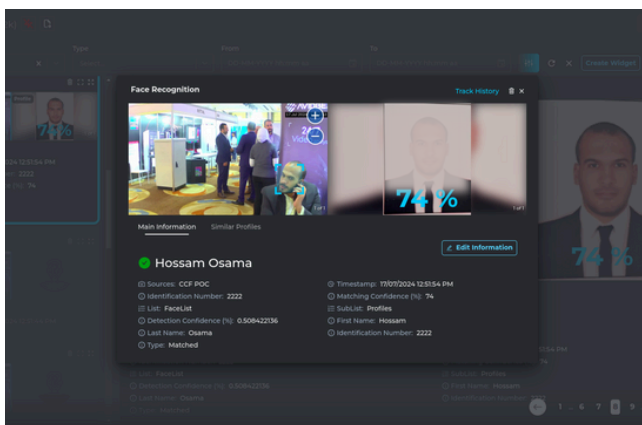


Interact Intelligently with Video Surveillance Cameras

AvidFace

Scalable Real-Time Facial Recognition Solution. Discover the power of accurate human face detection and recognition with AvidFace

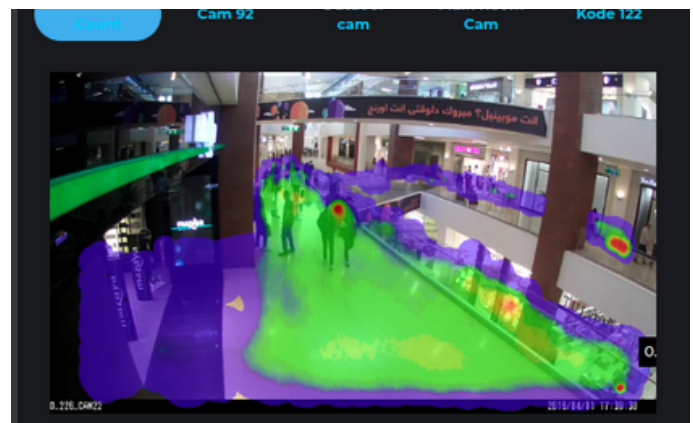
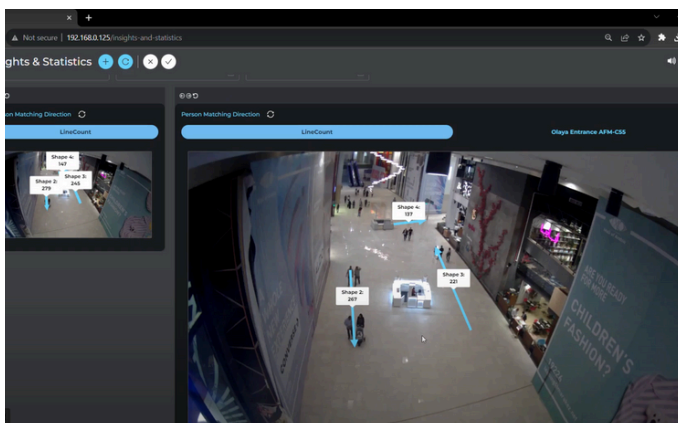
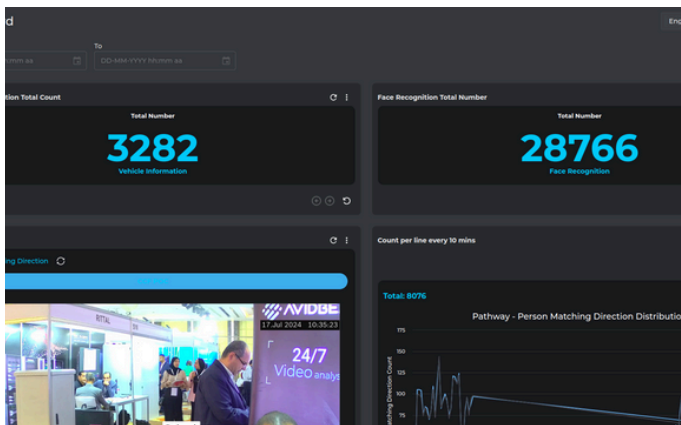
- ✓ Detect and Recognize Faces in Real-Time
- ✓ Reverse Image Search to Identify & Track Individuals
- ✓ Fast Search to Identify & Trace Suspects (1:1 & 1:Many)
- ✓ Identify Multiple Persons on The Go
- ✓ Reverse Image Search to Identify & Track Individuals
- ✓ Trace Suspects & Identify Deny List Individuals
- ✓ Recognize VIPs at Hotels, Banks, and Events
- ✓ Prevent Retail Crimes Through Blacklisted Shoplifters
- ✓ Enroll / Delete New Faces to/from the System Easily
- ✓ Protect Law Enforcement
- ✓ Custom Query & Report Generation
- ✓ Easily Integrated with Access Control and IoT Platforms
- ✓ Diversified Set of Configurable Lists & Alarms



AvidRetail

Provides retail shops with a replicating e-retail analytics experience. Retail shops can measure sales efficiency, conversion rates, and improve their operational efficiency

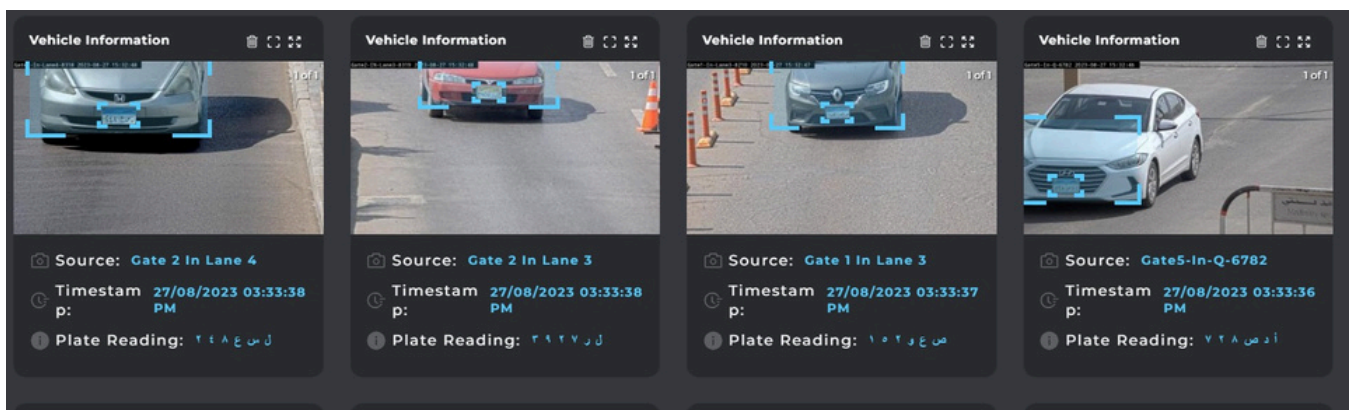
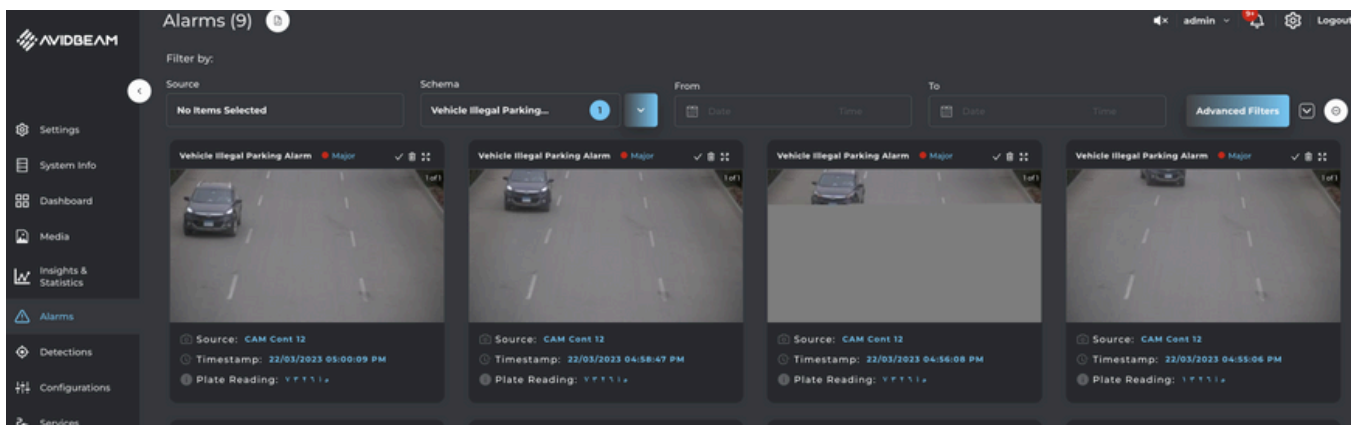
- ✓ Visitor Count (Daily/Weekly/Monthly)
- ✓ Visitor Gender & Age Distribution
- ✓ Customer Flow & Distribution Analysis
- ✓ Heat map Analysis (places most visited by customers)
- ✓ Visit Pathway Analysis
- ✓ Cashier Queue Management
- ✓ Manage Store/Mall Occupancy
- ✓ Access Density Analysis (access volumes based on time-of-day)
- ✓ Detect Empty Parking Slots
- ✓ Customer Traffic Forecast Based on Historical Data
- ✓ Custom Query & Report Generation
- ✓ Diversified Set of Configurable Alarms



AvidAuto

An Intelligent vehicle-flow analytics solution that translates data into meaningful visual information

- ✓ License Plate Recognition
- ✓ Identify Vehicle Plate Type
- ✓ Vehicle Count (Daily/Weekly/Monthly)
- ✓ Known access (residents/staff) vs. Unknown Access Durations
- ✓ Access Density Analysis (access volumes based on time-of-day)
- ✓ Vehicle Access Control
- ✓ Patterns of Movement (Track a Specific Vehicle)
- ✓ Search for Cars by License Plate, Color, Make and Model.
- ✓ Create Vehicle Watchlist (Deny/Allow Lists)
- ✓ Diversified Data Search Queries
- ✓ Graphical Representation of Data
- ✓ Easily Integrated with Access Control and IoT Platforms
- ✓ Diversified Set of Configurable Lists & Alarms



AvidGuard

AvidGuard acts as a powerful video analytics solution, enabling security officers to monitor and analyze people, vehicles, and objects with precision and efficiency.

Safety & Security Detections

- ✓ Intrusion Detection
- ✓ Loitering Detection
- ✓ Crowd Detection
- ✓ Face Detection
- ✓ Left Object Detection
- ✓ Fire & Smoke Detection
- ✓ Social Distancing Detection

PPE Detections

- ✓ Industrial PPE Detections
- ✓ Food Production PPE

Anomaly Detections

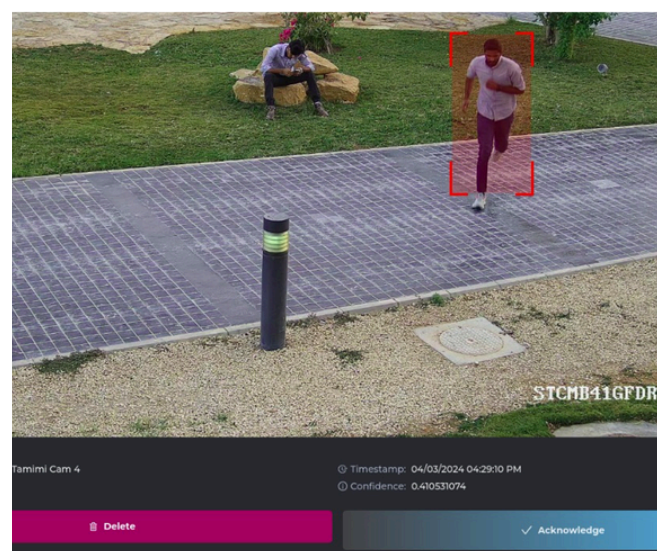
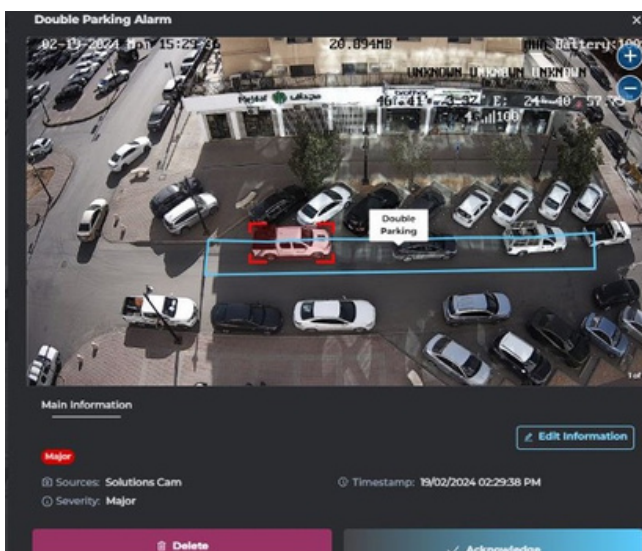
- ✓ Running Detection
- ✓ Falling Detection
- ✓ Fighting Detection

Vehicle Violations Detections

- ✓ Illegal Parking Detection
- ✓ Lane Switching Detection
- ✓ Traffic Light Violation
- ✓ Wrong Direction Detection
- ✓ Vehicle Speeding Detection
- ✓ No Seatbelt Detection
- ✓ Phone usage while driving

Smart Parking Solution

- ✓ Detect Empty Slots
- ✓ Detect Blocked Entrances/Exits
- ✓ Double Parking Violation
- ✓ Spot Occupied vs Empty slots



AvidHawk

A Fast Video Search and Summarization Solution. Allows Users to Review Hours of Video in Minutes.

AvidHawk™ is an industry leading technology for Video Summarization, that allows users to review hours of video in minutes. It enables simultaneous presentation of events that have occurred at different times in one frame, which leads to the review of hours of video footage in few minutes.

AvidHawk™ fuses Deep Learning and Computer Vision technologies to make video footage searchable with efficient storage, quick browsing, and fast check of large collection of video data without losing important events.

Fast Video Search Solution

- ✓ Allow clients through the web interface to enter their customized queries and produce a summarized video of the search results.
- ✓ Limit search to a specific video file, video source, or a specific time segment.
- ✓ Support Color Searching
- ✓ Search on objects based on their class categories, such as people, Two-Wheeled Vehicles, Other Vehicles, and Animals
- ✓ Identify Objects Included Within a Particular Region of Interest



ATUN

ATUN is Avidbeam's scalable video analytics platform, designed to run advanced computer vision algorithms on video streams or files. It supports edge, on-camera, data center, and hybrid deployments while seamlessly integrating with third-party systems. ATUN is a comprehensive solution for efficient and versatile computer vision processing.



OUTPERFORMING

Flexibility in Deployments
Framework Agnostic
Hardware Agnostic
Camera Agnostic



SCALABLE

Supported Deployment Modes
Edge processing mode
Data center processing mode
Hybrid mode

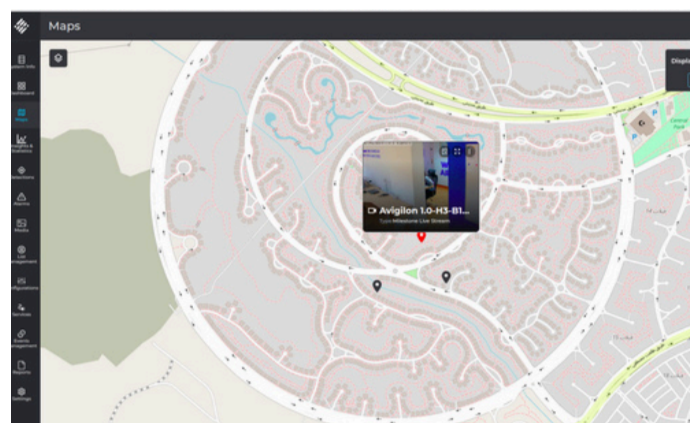
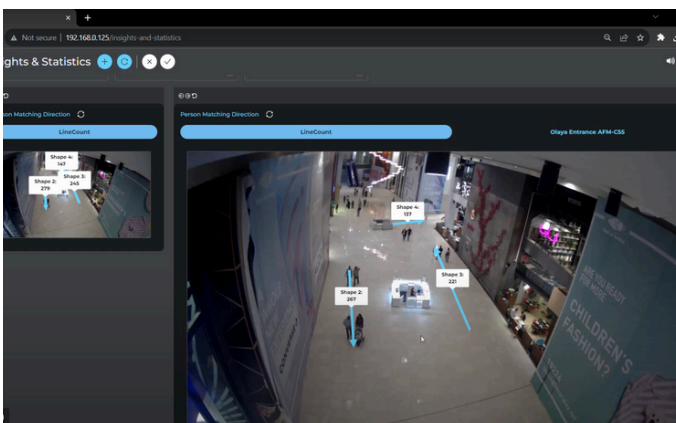


COST EFFICIENT

Distributed processing
Automatic upscaling and downscaling
Easy roll-in and roll-out of running processing units

AvidBeam's Dashboard

- ✓ Customizable Dashboard
- ✓ Fast Search
- ✓ Custom Widgets
- ✓ Comprehensive Statistics
- ✓ Built-In Maps
- ✓ Custom Queries



General Technical Requirements

General System Specifications

- ✓ Integrated with different VMS (Milestone, Genetec) or deployed as a separate stand-alone application.
- ✓ Could be run On Premise, Private Cloud, and Public Cloud to support flexibility in installations
- ✓ Supports high availability, fail over and N+1 (more) redundancy architecture
- ✓ A web-based user friendly browser interface for entering user queries and displaying query results
- ✓ Interfacing with OnVIF compliant IP camera(s) or reading from surveillance DVR
- ✓ State of the art computer vision and image processing algorithms optimized for GPU and CPU
- ✓ Scalable (easy to support any number of cameras)
- ✓ Customizable and configurable by client (Frame rate selection, camera management, ROI selection, etc.)
- ✓ Day/Night Recognition

Hardware Requirements

- ✓ A built-in retention policy allows the user to specify a duration during which the data will remain on the database.
- ✓ Storage requirements are minimal compared to a typical VMS.
- ✓ A single database record requires approximately 150KB-200KB of storage based on the camera resolution and selected ROI.

Hardware Requirements

- ✓ Supports wide range of cameras from 2 Mega Pixels up to 4K
- ✓ Lens 3 – 25 mm
- ✓ One Virtual Core / Camera
- ✓ 2 GB of memory / camera
- ✓ CPU 2.4 Giga Hertz
- ✓ Supports different types of GPU cards

System Recommendations

- ✓ Pitch: -15,+15
- ✓ Roll: -180, +180
- ✓ Yaw: -15,+15
- ✓ Lightening : Normal light, can't be facing the camera or the person

AVIDBEAM TECHNOLOGIES



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