



Product Portfolio Datasheets

Intelligent Video Analytics

Unleashing The Power of Scalable Video Analytics

Who We Are

AvidBeam® Technologies, founded by former Intel professionals and headquartered in the Netherlands, delivers AI-powered video analytics built on deep learning, computer vision, GenAI and big data architectures. Its scalable, fault-tolerant platform emphasizes integration flexibility and hardware optimization. Certified by NVIDIA and Intel, AvidBeam integrates with leading VMS and IoT systems, and globally trusted by critical infrastructure, smart cities, governments, and enterprises including Fortune 500 companies.

Who We Serve

- ✓ Airports
- ✓ Banking
- ✓ Educational Institutions
- ✓ Healthcare
- ✓ High Security Facilities
- ✓ Hotels & Restaurants
- ✓ Industrial Zones
- ✓ Intelligent Transport
- ✓ Law Enforcement
- ✓ Railways
- ✓ Retail
- ✓ Smart Buildings
- ✓ Smart Cities
- ✓ Smart Ports
- ✓ Stadiums
- ✓ Toll Roads

What We Offer



AvidGenAI

Transforms video into language, enabling search, detection, actionable insights.



AvidFace

Enable accurate face detection and recognition through real-time analytics.



AvidGuard

Offers early warning detections enhancing security, safety, & compliance.



AvidAuto

Provides real-time vehicle analytics, intelligent traffic alerts, & smart parking.



AvidSight

Provides AI insights enhancing customer experience & business operations.

Why AvidBeam Video Analytics



One-stop Shop

Provides full video analytics portfolio for safety, security, intelligence.



Scalability

Synthesizes big data analytics supporting accurate real-time video surveillance.



Ease of Integration

Integrates with IoT platforms generating actionable data for decision making.



Flexibility

Provides diversified access locally or remotely via cloud solutions.



Professional Expertise

Team of professionals with extensive technical and business experience.



Customer Centric

Provides real-time analytics customized to each application need.



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.



OUTPERFORMANING

- Flexibility in Deployments
- Framework Agnostic
- Hardware Agnostic
- Camera Agnostic



SCALABLE

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



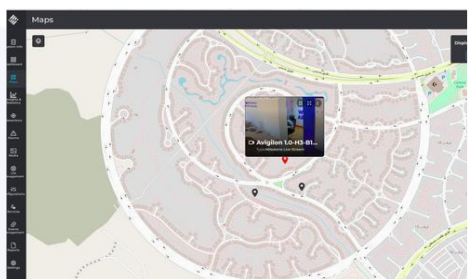
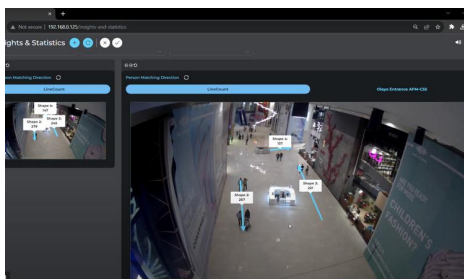
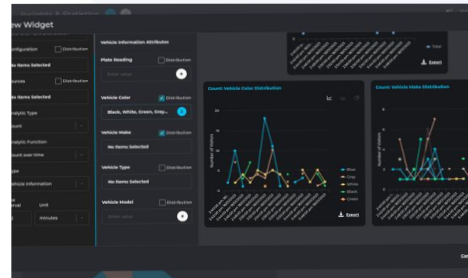
COST EFFICIENT

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

IoT Platform Integration

Our Dashboard

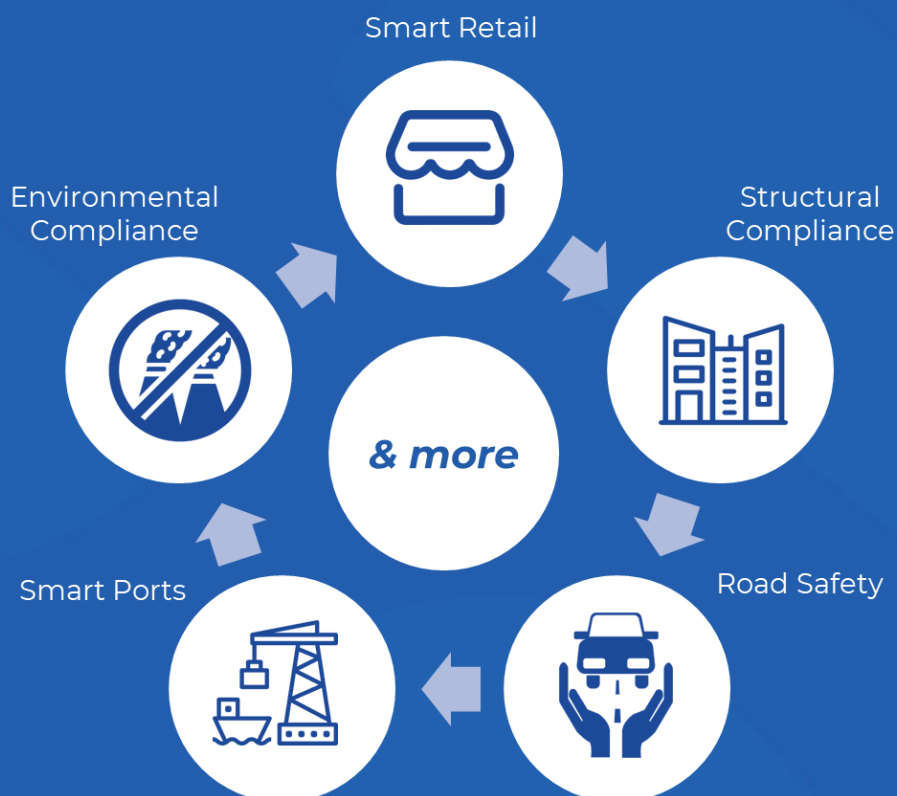
- ✓ Customizable Dashboard
- ✓ GenAI Enabled
- ✓ Custom Widgets
- ✓ Fast Search
- ✓ Built-In Maps
- ✓ Custom Queries



AvidGenAI

Transforms video into natural language, enabling conversational search, real-time anomaly detection, and actionable operational insights.

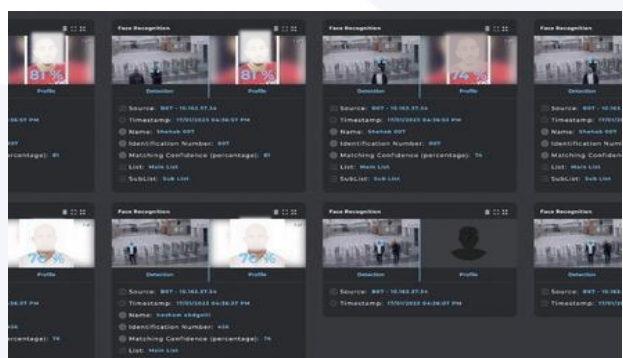
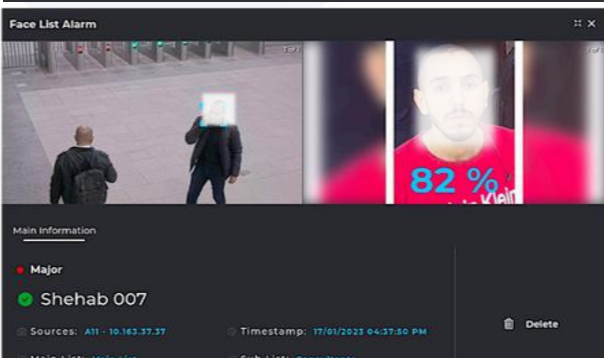
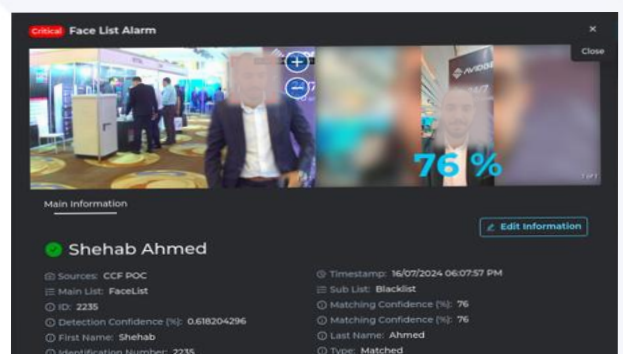
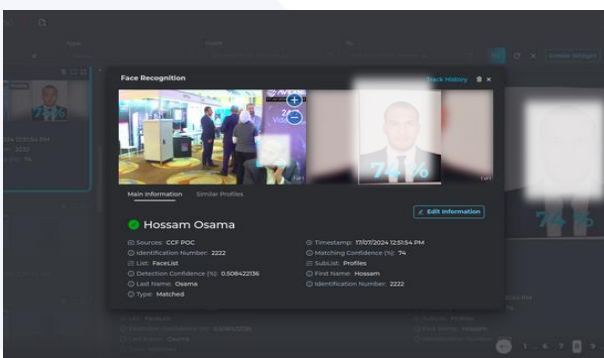
AvidGenAI offers diverse use cases beyond a single domain. For example, its **Urban Safety** solution monitors infrastructure and hazards with real-time alerts. It also provides **Structural Compliance**, detecting building anomalies and risks throughout lifecycles. It also delivers **Retail Insights**, analyzing customer interactions with natural-language KPIs to optimize operations and marketing. Together, these illustrate—but do not limit—AvidGenAI’s broad capabilities **applicable to every sector**.



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
- ✓ 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
- ✓ Detect Facial Emotions to Enhance Security, and Decision-making
- ✓ Analyze facial attributes for enhanced profiling and demographic insights



AvidGuard

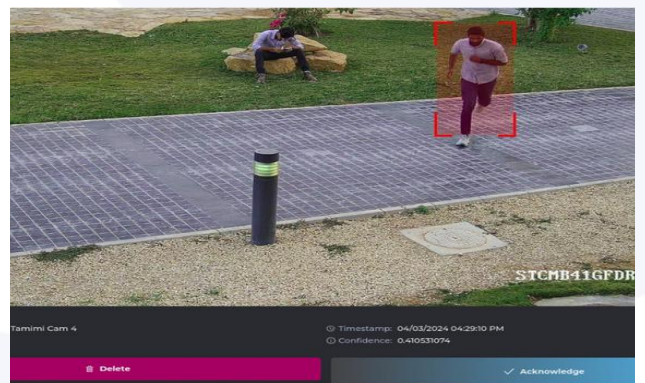
Offers early warning detections that enhance security, safety, and compliance by identifying intrusions, hazards, anomalous behavior, and regulatory violations.

AB - Safety & Security Detections

- ✓ Intrusion Detection
- ✓ Loitering Detection
- ✓ Anomaly Detection
- ✓ Crowd Detection
- ✓ Left Object Detection
- ✓ Fire & Smoke Detection
- ✓ Tailgating Detection
- ✓ Scene Change Detection
- ✓ Weapon Detection
- ✓ Object Search

AB - Health, Safety & Environment Compliance

- ✓ Personal Protective Equipment
- ✓ Mask and Hair Cover Detection
- ✓ Mobile Phone Detection



AvidSight

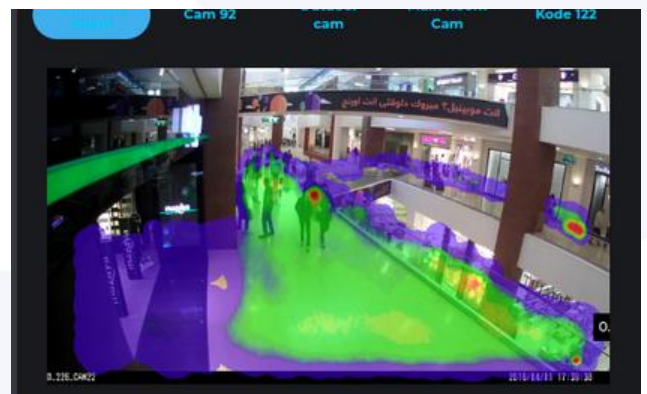
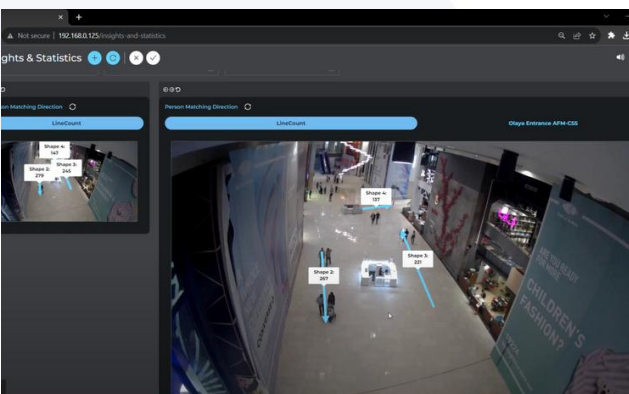
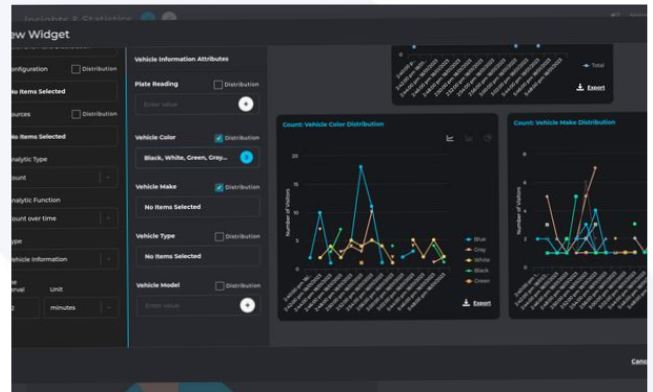
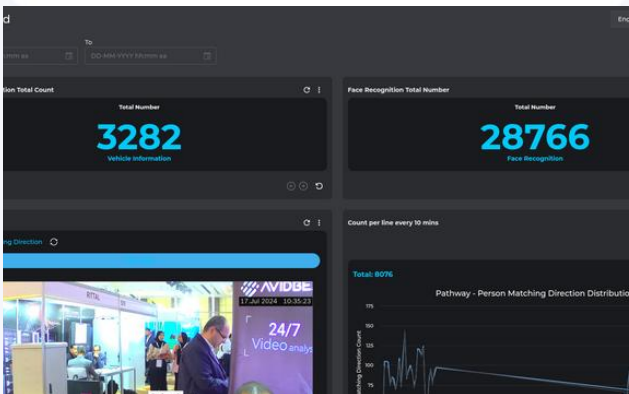
Equips business environments with optimized AI-driven video analytics, enhancing customer experience, operational efficiency, and security through actionable insights.

AB – Smart Retail

- ✓ Visitor Count/Forecast
- ✓ Pathway Analysis
- ✓ Heatmaps Analysis
- ✓ Dwell Time Analysis
- ✓ Manage Occupancy

AB – Smart Banking

- ✓ Limited ATM Usage
- ✓ Employee Absence
- ✓ Cash Detection
- ✓ No. of Served Customers
- ✓ Vault Policy



AvidAuto

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

AB – Vehicle Analytics

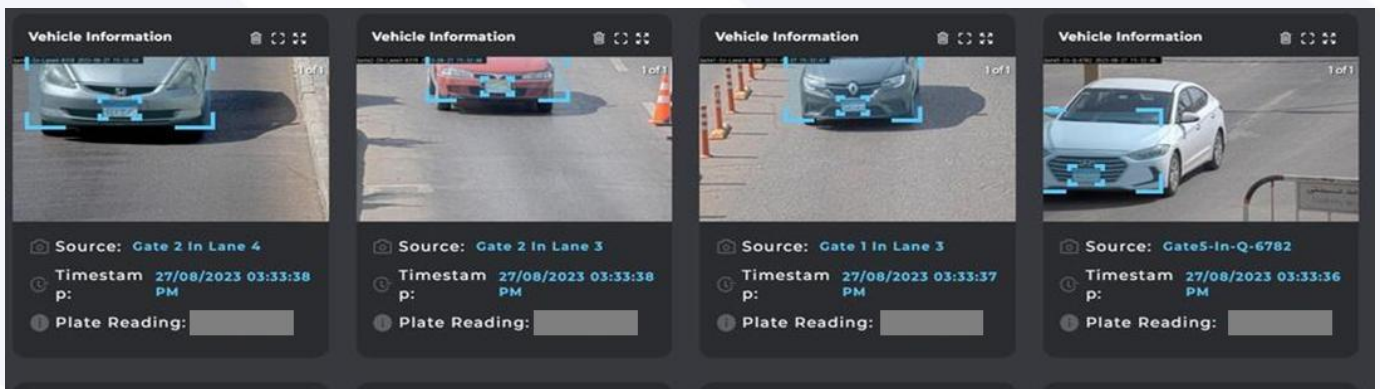
- ✓ Vehicle License Plate Recognition
- ✓ Vehicle Classification
- ✓ Vehicle Count Analytics
- ✓ Vehicle Watchlists
- ✓ Vehicle Tracking & Search

AB – Smart Parking

- ✓ Blocking Entrances/Exits Detection
- ✓ Double Parking Detection
- ✓ Parking Lots Occupancy Detection

AB – Intelligent Traffic Systems

- ✓ Traffic Light Violation Detection
- ✓ Wrong Direction Detection
- ✓ Lane Switching Detection
- ✓ Illegal Parking Detection
- ✓ Mobile & Seatbelt Violations
- ✓ Slow/Stopped Vehicles Detection
- ✓ Vehicle Traffic Analytics Dashboard



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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