



VAS Suite
Video Analytics Solution



Intelligent Video Analytics Solution

VAS Suite from Megh Computing is an intelligent video analytics solution for security and system integrators who need actionable insights with enterprise class performance, while managing TCO considerations. With Megh's Concierge Support to help you get started with development, VAS Suite makes it easy to transition to AI-driven business operations.

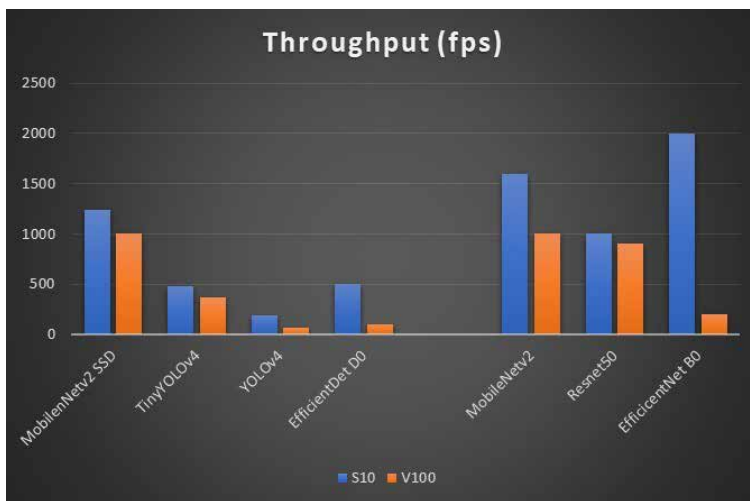
Modernize your organization with operationally reliable AI

key features

Real Time Analytics

Scale from 1 to 100 cameras per system

Actionable insights video solution



Performance numbers for the most common models running on Intel Stratix 10 compared to NVIDIA's V100 GPUs

Features

Review live and stored events

- Real-time view across all sites and camera streams
- Review multiple events together in the timeline

Adjust settings for highest accuracy

- AI sensitivity controls
- Inclusion/exclusion zones

Rules and notifications

- Easy and powerful logic-based alerts
- Trigger email or SMS notifications
- Ability to limit notifications based on frequency and number of detections

Deployment and integration options

- Standalone or integrated with VMS systems
- Edge appliance or cloud application

Advanced configuration

- Diagnostic view for detailed analysis
- Advanced AI pipeline configuration settings

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Intelligent Video Analytics

VAS Suite offers video analytics for a variety of public safety and business operations use cases.

Smart Buildings

- Loiter detection
- Intrusion detection
- People counting

Smart Factories

- Inventory tracking
- PPE compliance
- Collision detection

Smart Cities

- People management
- Traffic management
- Anomaly detection

Avionics

High performance DL inferencing on FPGAs for

- Surveillance
- Takeoff and landing











Watch a [demo](#) of the use cases.

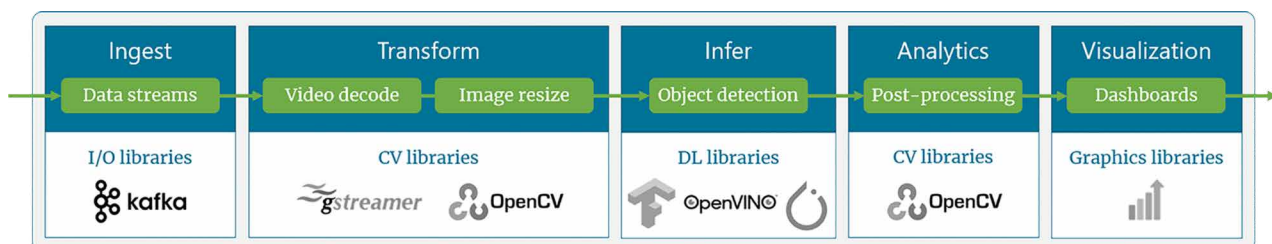
Performance

The Inferencing stage is the most critical stage of the pipeline implementing the deep learning models for object detection and image classification. Megh's DLE (Deep Learning Engine) running on FPGAs delivers the best performance for many of the models used for IVA. The high throughput achieved with FPGAs delivers the lowest cost per stream for many of the IVA use cases.

Deployment configurations

Enable real-time analytics at the edge, on premises, or private or public cloud.

	Edge cloud	Private cloud	Public cloud
Edge analytics All analytics processing on edge servers with FPGA(s)	 Edge server (+ accelerators)	 Back-end apps	 Back-end apps
On-premises analytics Integrate existing VMS systems with analytics processing on on-premises servers with FPGA(s)		 RMS server (+ accelerators)	 Back-end apps
Edge + on-premises analytics Frontend processing on edge gateways with backend server with FPGA(s) for additional features	 Edge gateway	 RMS server (+ accelerators)	
Edge + hosted Frontend processing on edge gateways with cloud servers with FPGA(s) for additional features	 Edge gateway		 Accelerated instances



IVA pipeline stages

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Actionable Insights

Comprehensive Control

- Customize the AI / Video Analytics pipeline for any camera view
- Optimize for accuracy, TCO, or performance based on use case
- Edge-to-Cloud deployment options for performance, cost, and regulatory adherence

Safe Scalability

- Easily scale up from CPU to FPGA as needed
- Scale from 1 to 100 cameras per system
- Link multiple systems and manage in VAS Suite dashboard

Easy AI Adoption

- Concierge Support for onboarding, support, or customization assistance

Optimized TCO

- Right-size hardware (not over or under-spec'd)
- Pre-tested requirements mean no surprises once deployed in the field
- Add software licenses as needed, per channel

Enables Operational Reliability

- Intelligent video analytics that actually delivers in complex environments and use cases
- Provides the accuracy and real-time performance to fully-transition to AI-driven business

Compatible FPGA Cards

- [520NX](#)

Looking for a different card? Ask us about other compatible card options.

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