

## AI video analytics for a safer, smarter world

### About IronYun

Founded in 2015 and headquartered in Stamford, CT, IronYun is a global leader in AI-driven video analytics, recognized for its innovative solutions and real-world impact. IronYun's flagship Vaidio AI Vision Platform features over 30 advanced analytics functions, including real-time monitoring, forensic search, and business intelligence. Currently deployed in 30 countries, Vaidio is compatible with any IP camera or VMS, serving diverse sectors such as public safety, transportation, and retail.

Vaidio stands out for its computational efficiency and deployment flexibility, utilizing AI to deliver accurate and scalable results. IDC has recognized IronYun as a leader in intelligent video analytics since 2021, commending its ability to enhance enterprise analytics. Additionally, NVIDIA's director of Smart City initiatives ranked Vaidio among the top solutions for platform maturity and customer value.

From 2020 to 2024, Vaidio has earned multiple accolades from the U.S. Security Industry Association, including awards for Commercial Monitoring, Mobile Solutions, Video Analytics, Retail Loss Prevention, and Managed Services, culminating in the Best New Product Overall award for 2024.

### The Vaidio AI Vision Platform

IronYun's Vaidio AI Vision Platform stands out in the video analytics landscape by delivering extensive functionality and secure multi-modal deployments compatible with any IP camera and VMS. It integrates seamlessly across diverse infrastructures and supports a wide range of applications, including city security, safety, and operational efficiency

#### **Comprehensive**

30+ advanced AI video analytics on a single platform

#### **Accurate**

99% reduction in false alerts

#### **Innovative**

New & custom applications every quarter

#### **Lower TCO**

80% fewer hardware/cloud resources

#### **Open & Scalable**

Any ONVIF IP camera, 1 to 1,000s of cameras

# 99.9%

reduction in false alerts

# 30

AI-enabled video analytics on one platform

# 75%

less hardware

# 1000,000+

cameras deployed worldwide



(800) 846-6461



3 Paragon Drive, Suite 205  
Montvale, New Jersey, 07645



solutions@pkatech.com

Vaidio's unique service provider architecture enables partners to deliver Video Analytics as a Service (VAaaS), offering robust administration, a two-tier service model, and scalable billing options. These features, combined with dynamic Kubernetes automation, empower organizations to manage and deliver analytics solutions cost-effectively at scale, making Vaidio a premier choice for comprehensive video analytics.

### Analytics

Vaidio offers a flexible menu of customizable analytics functions, specifically designed to meet the evolving needs of various environments. This versatility ensures that organizations can effectively leverage data-driven insights to enhance their operations and security measures.

#### SAFETY & SECURITY

- Intrusion Detection
- Anomaly Detection
- Crowd
- Crouch & Fall Loitering
- Object Counting Object
- Detection Object
- Left/Removed
- Perimeter Monitoring
- PPE (Mask, Uniform)
- Restricted Areas Scene
- Change
- Sensor Integration
- Smoke, Fire
- Weapon

#### ACCESS CONTROL

- Face Recognition
- License Plate Recognition
- Visitor Check-in

#### HEALTH SCREENING

- Face Mask
- Distancing
- Occupancy
- Temperature

#### INVESTIGATION & SEARCH

- Video Search
- Video Evidence
- Cross Camera Tracking

#### OPERATIONS

- Camera Health Dwell
- Time
- Heat Map
- Material Inspection
- Privacy Protection
- Operational Data

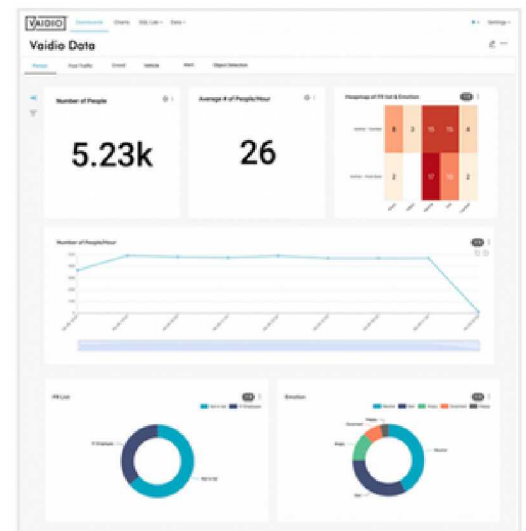
#### VEHICLES

- LPR – Access Control
- LPR – Stolen Vehicles
- Parking Management Speed
- Detection
- Traffic Flow
- Vehicle Make/Model
- Vehicle Wrong Direction

### Vaidio Data

The Vaidio platform includes Vaidio Data, an advanced reporting and business intelligence engine that empowers users with actionable insights through interactive, customizable dashboards. Vaidio Data visualizes metadata collected from real-time video streams, creating a powerful new source of information for business intelligence, trend analysis, and informed decision-making.

Data is presented in an intuitive format, utilizing charts and graphs that simplify the interpretation of large datasets related to people, vehicles, objects, and events. Users can easily filter reports by time and camera location, ensuring that all information is delivered as actionable intelligence tailored to their needs.

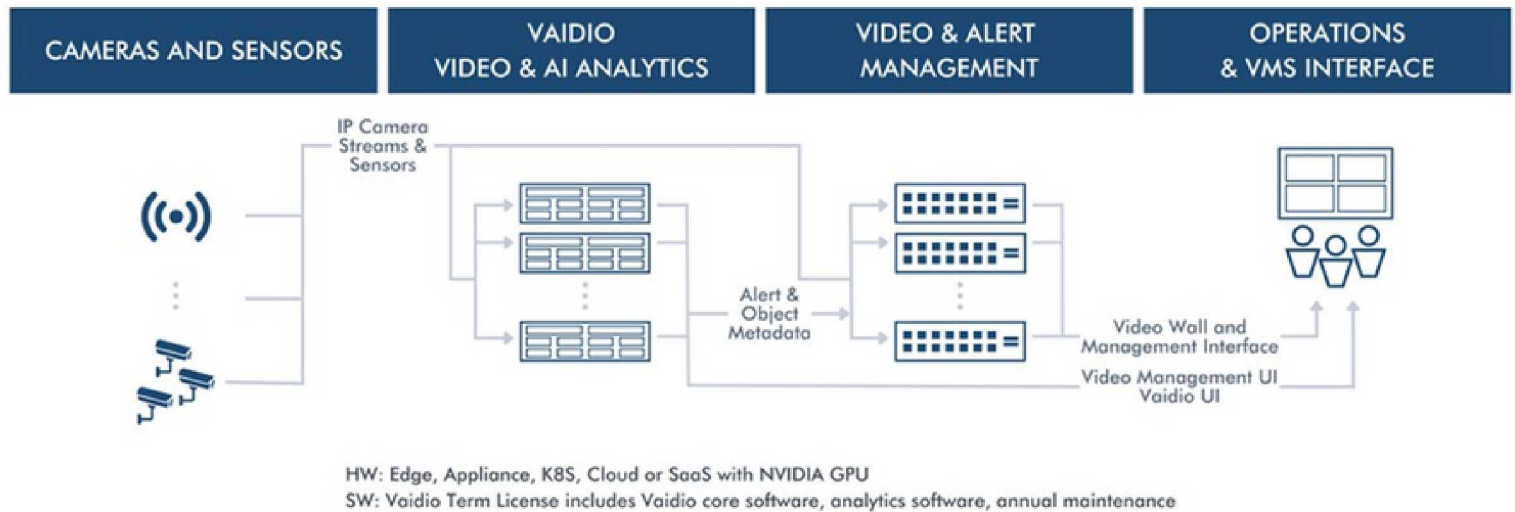


### Vaidio Command Center

Vaidio Command Center effectively addresses the complexities of scaling large deployments across multiple sites by centralizing device management, data collection, and alert notifications. It seamlessly connects up to 32 Vaidio Core and Vaidio Edge appliances, streamlining the management of extensive systems through the Vaidio Command Center standard and Enterprise appliances.

With Vaidio Command Center, users can efficiently oversee alert monitoring, event searches, and the management of nodes and cameras. This centralized approach supports intricate deployments involving hundreds or even thousands of cameras across diverse geographic locations, ensuring robust oversight and operational efficiency.

### System Architecture



When deployed on-premises or edge, the Vaidio software is preloaded onto a rackmount server or edge device. Its native containerization allows it to run seamlessly in a Docker container, whether on an appliance or in the cloud. Unlike more complex alternatives, Vaidio can be operational within hours and fully deployed across hundreds of cameras in just a couple of days.

The software's efficiency enables rapid processing, delivering faster alerts and enhanced analytics per stream while performing effectively on IoT edge devices. This efficiency also significantly reduces hardware and cloud resource requirements—cutting the number of servers needed to support dozens or hundreds of cameras by 75% or more compared to competitors, resulting in substantial cost savings.

Vaidio uniquely supports multiple deployment modalities, including small edge devices, servers, Kubernetes, and cloud environments, overcoming common limitations of other solutions. Its Kubernetes architecture is designed for scalability, flexibility, and cost-efficiency, facilitating dynamic scale-up and scale-down, automated provisioning, and five-nines availability. This architecture simplifies large-scale deployments and enhances service delivery, making Vaidio a versatile choice for diverse environments.

### Integration

Vaidio ensures rapid, hassle-free implementation and deployment through seamless integration with industry-proven systems and devices. Out of the box, the Vaidio AI Vision Platform offers five levels of integration with 28+ leading NVR/VMS providers. Available globally through IronYun Solution Integrator Partners, Vaidio can also be easily embedded into OEM solutions, providing flexibility and scalability for a wide range of applications.

1	Vaidio sends alerts	Immix	
2	Vaidio retrieves video	Digiever Hanwha NVR Iveda Sentir Kedacom Mobotix ACTi	NUUO (Linux) QNAP VioStor Uniview Vaidio Internal Recorder VideInsight
3	Vaidio sends alerts and retrieves video	Avigilon Axis ACS Bosch Digifort Exacq	Intellicene Symphia Ganz Control Luxriot EVO Pelco Qognify Ocularis
4	Vaidio sends alerts, retrieves video, and can be accessed as a tab in the VMS to conduct video search	Genetec Security Center	Milestone Xprotect Salient CompleteView
5	Vaidio sends alerts, retrieves video, and enables object search in VMS UI	Digital Watchdog Spectrum Hanwha Wisenet Wave	Mirasys Network Optix Nx Witness

### Hardware Specifications

				
Form Factor	VSB 55	VSB 110c	VSB 550	VSB 710
Dimensions (mm)	AIoT	CIPC	2U	4U
Weight (kg)	126x96x75	182x235x75	738x434x87	836x441x175
GPU	1.2	3	28.6	57
Max Channels	JETXON XAVIER NX	MXM-RTX3000	Dual RTX A4000	Quad RTX A4000
	4	16	52	128

### About IronYun and Vaidio®

IronYun's SIA award-winning Vaidio Platform brings advanced intelligence and accuracy to existing camera and video infrastructures with over 30 advanced AI video analytics functions that work across real-time, forensic and video data applications. Our mission is to help our customers improve security, safety, health, and operational efficiency, working towards a safer, smarter world.



**About PKA Technologies:** A proven industry leader for over 25 years, PKA Technologies simplifies and delivers complex solutions and provides the right technologies and services to our clients. We continue to evolve with the industry by offering our customers the latest technologies available on the market. We pride ourselves in our longstanding relationships with our clients to assure that their business needs and initiatives are continuously met as technology evolves. A Nationally Certified Women Owned Business based in Montvale, NJ with offices in NYC, PKA prides itself as always putting the customer first, above all else.