

Vaidio[®] AI Vision Platform

PLATFORM OVERVIEW



AI video analytics for a safer, smarter world

In public places and private spaces, the Vaidio AI Vision Platform from IronYun delivers world-class accuracy, performance, and insights that create safety, security, and peace of mind.

Globally, tens of thousands of cameras are equipped with Vaidio's easy-to-use software to accurately detect objects, people, and patterns—around the clock, every single day, at lightning speed. In today's complex world, Vaidio is the enterprise solution of choice for faster, more accurate, more efficient AI-enabled video analytics.

Mature AI delivers fast, accurate real-time and forensic video analytics.

The Vaidio AI Vision Platform leverages the power of artificial intelligence, machine learning, and cloud technologies to work to help law enforcement agencies, businesses, and communities everywhere create a safer, smarter world.

Vaidio is powered by proprietary AI evolved over multiple generations to offer greater accuracy and lower-latency in real-time, and faster forensic video search. The Vaidio Platform supports 30 video analytics that can be used together or à la carte, including intrusion detection, smoke, fire, weapon and PPE detection, facial recognition, LPR, vehicle detection for 100 makes and 1,000 vehicle models and more—all using any ONVIF IP camera.

Typically up and running in hours and fully operational in days, Vaidio enables smarter, safer, more secure communities in a fraction of the time.

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

10,000+

cameras deployed worldwide



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One solution. Myriad uses.

Safety and security are a growing global priority for enterprises, schools, law enforcement, and other organizations who strive to provide peace of mind in all types of environments. With mix-and-match solutions to meet current and evolving needs, the Vaidio AI Vision Platform is designed to make video monitoring, security alerts, health screening, and forensic investigation more accurate, automated, and affordable wherever it's needed.

Core applications

The Vaidio AI Vision Platform includes four core application sets: Security, Safety, Access Control, and Operations. These core applications deliver comprehensive solutions for a multitude of verticals and industries, including enterprise, community, education, retail, events, and hospitality.



Analytics

The Vaidio AI Vision Platform includes a menu of 30 mix-and-match analytics functions designed to address the evolving needs of every type of environment:

SAFETY & SECURITY

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

OPERATIONS

- Business Intelligence
- 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 Counting
- Vehicle Make/Model
- Vehicle Wrong Direction

ACCESS CONTROL

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

HEALTH SCREENING

- Face Mask
- Distancing
- Occupancy
- Temperature

INVESTIGATION & SEARCH

- Video Search
- Video Evidence

IronYun's Vaidio AI Vision Platform is recognized by IDC as "a good decision for enterprises that have extensive video surveillance capabilities and want to upgrade to advanced analytics that incorporate the latest technology." IDC MarketScape, Video Surveillance Analytics, Nov 2021



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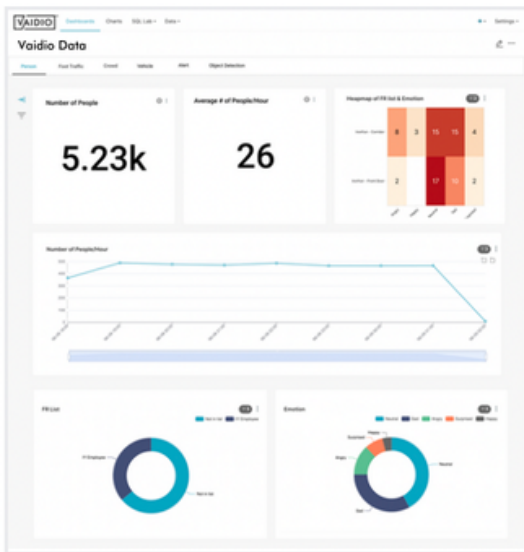


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Advanced reporting and video data analytics with interactive, customizable dashboards



Included on the platform is Vaidio Data, Vaidio's reporting and business intelligence engine. Vaidio Data delivers actionable insights directly to the user via interactive, customizable dashboards.

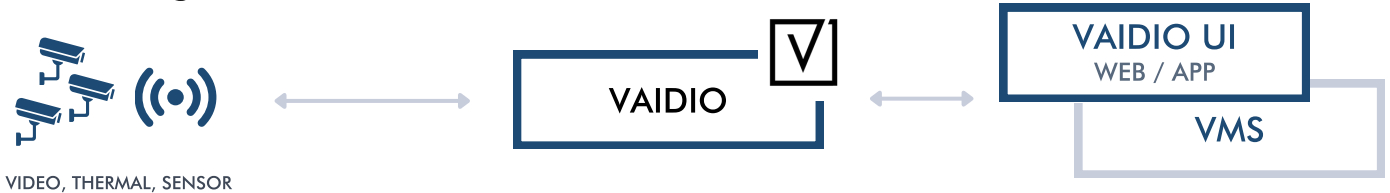
Vaidio Data visualizes Vaidio metadata collected from the real-time video stream, opening up an entirely new source of information for business intelligence, trend analysis and decision making. Data is presented in an intuitive visual format complete with charts and graphs that make it easy for users to quickly make sense of large quantities of data related to people, vehicles, objects, and events. Reports can be filtered by time and camera locations, with all data distributed back to users as actionable intelligence.

Deploy at Scale with Vaidio Command Center

Vaidio Command Center addresses the challenge of scaling large deployments across multiple sites by centralizing device management, data collection and alerts.

Vaidio Command Center connects up to 32 Vaidio Core and Vaidio Edge appliances. Command Center centralizes management and metadata, including alert monitoring, event search, and node and camera management to support complex deployments of hundreds or thousands of cameras in multiple geographies.

System configuration & architecture



When deployed on-prem or edge, Vaidio software is preloaded on a rackmount server or edge device. Vaidio software is natively containerized, meaning that it runs in a docker container whether it is deployed on an appliance or in the cloud. Unlike more complex alternatives, Vaidio can be up and running in hours and can be fully deployed even across hundreds of cameras within a couple of days

Vaidio code runs extremely efficiently, enabling rapid processing that delivers faster alerting, more analytics per stream, and the ability to run effectively even on an IoT edge device. The efficiency of Vaidio code also reduces hardware (or cloud) resource requirements – the number of servers required to support dozens or hundreds of cameras – by 75% or more relative to competitive alternatives. This drastically reduces the hardware costs associated with Vaidio deployments.



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Integrations to fit every need

Seamless integration with industry-proven systems and devices enable fast, issue-free implementation and deployment. Out of the box, the Vaidio AI Vision Platform offers three levels of integration with 28 market-leading NVR/VMS providers. Vaidio is available worldwide through IronYun Solution Integrator Partners and is easily embedded into OEM solutions.

1	Vaidio sends alerts	Immix	
2	Vaidio retrieves video	Digiever Hanwha NVR Iveda Sentir Kedacom Mobotix	NUUO (Linux) QNAP VioStor Uniview Vaidio Internal Recorder VideoInsight
3	Vaidio sends alerts and retrieves video	Avigilon Axis ACS Bosch Digifort Exacq	Intellicene Symphia Ganz Cortrol 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

				
	VSA55	VSB110c	VSB550	VSB710
Form Factor	AIoT	CIPC	2U	4U
Dimensions (mm)	126x96x75	182x235x75	738x434x87	836x441x175
Weight (kg)	1.2	3	28.6	57
GPU	Jetson NX	GTX	RTX	RTX
Max Channels	4	16	96	128

About IronYun® and Vaidio®

IronYun's SIA award-winning Vaidio AI Vision Platform offers more than 30 advanced AI video analytics functions to bring intelligence and accuracy to existing camera and video infrastructures. The open Vaidio Platform is built on evolved and field-proven artificial intelligence to offer greater accuracy, alert speed, functionality, and cost efficiency. Our mission: to build a safer, smarter world by helping our customers improve security, safety, health, and operational efficiency.



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