

Vaidio® AI Vision Platform SPECIALIZED OBJECT DETECTION



Accurate, real-time identification of weapons and other complex objects

The Challenge

Accurately detecting and rapidly alerting on small, complex objects such as weapons is difficult, even with artificial intelligence. This can result in unacceptable numbers of false alerts – particularly problematic in situations and environments when high accuracy is critical.



The Solution

The Vaidio AI Vision Platform provides Specialized Object Detection for real-time detection and alerts of prohibited objects in use, as well as identification of these objects in forensic investigations. Vaidio Specialized Object Detection can be used to detect any predefined object of interest in use—weapons (handguns, rifles, knives), prohibited technologies (cell phones, earphones/airpods), and more—without creating false alarms regarding the same objects not in use, such as racked weapons or nearby cell phones.

Vaidio Specialized Object Detection applies the power of advanced machine learning capabilities to deliver one of the greatest benefits of this transformative technology: reliable automation of weapons and object detection that, in the past, required human action. In this case, deep learning algorithms elevate security efforts by enabling accurate, real-time detection of prohibited objects in use via an on-premises solution. The result: no time is wasted in situations when every second matters, all captured information remains in-house and secure without unneeded exposure to external networks, and accuracy and performance are fail-safe.

Vaidio Specialized Object Detection can be applied to any number of new or existing IP cameras and video infrastructure, inside or out. When used in conjunction with other Vaidio AI video analytics functions such as Video Search, Cross Camera Tracking, Intrusion Detection, Loitering, License Plate Recognition, and Facial Recognition, Vaidio Specialized Object Detection provides the context and comprehensive visual data needed to support real-time crime prevention and forensic investigations.

Architecture



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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



Features

- Accurate detection of weapons (7.1) and other complex objects (future)
 - Object association filters and minimizes false alerts
 - Accurate alerts in 2 seconds or less
 - Forensic video search results in seconds (vs minutes or hours)
 - Apply to any IP camera
- Integrates with additional Vaidio AI analytics

Benefits

- Increase alert speed and accuracy
- Minimize false alerts
- Accelerate response time
- Improve safety and security
- Increase operational efficiency
- Enhance overall security posture with Vaidio's holistic suite of real-time, forensic, and business intelligence analytics applications

"We had a competitive AI-based system connected to 200 cameras. Each camera had an average of 10 false alerts a month--about 2,000 false alerts a month. We replaced the old system with Vaidio but kept the same cameras. Vaidio reduced our false alerts from 2,000 per month down to 10 total per month--a 99.9% reduction. Amazing."

- International Media Company



"Out of hundreds of solutions we've worked with, Vaidio is one of a handful that ranks highest in terms of platform maturity and driving real-world customer value."

- Jumbi Edulbehram, Global Business Development, AI-City, Nvidia

About IronYun and Vaidio®

IronYun's SIA award-winning Vaidio Platform offers more than 30 advanced AI video analytics functions to bring intelligence and accuracy to existing camera and video infrastructures. Our mission: to build a safer, smarter world by helping our customers improve security, safety, health, and operational efficiency.



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