

Pelco Advanced Analytics Suite

Analytics Powered by Deep Learning

Pelco's Advanced Analytics Suite is our most cutting-edge analytics technology, leveraging algorithms powered by deep learning technology coupled with intelligence at the core – reducing operational costs, mitigating risks and delivering the compliance needed for your business. This analytics technology delivers improved performance in critical infrastructure applications enabling users to quickly focus on situations needing immediate attention with faster response times.

Improves Threat Detection Accuracy

The superior accuracy enabled by deep learning, improves the camera's ability to easily categorize objects within the scene. With conventional security analytics, alarms can be triggered by blowing leaves, rolling balls, changes in lighting, shadows, and walking pets. This results in security staff wasting valuable time monitoring these non-events. Powered by deep learning, Pelco Advanced Analytics, detects actual threats, allowing security staff to focus on the video that really matters.

Added processing power enables the tracking of over 200 objects, and real-time speed at 10 fps. Traditional analytics solutions only trigger on moving objects. With analytics powered by deep learning, detection of both stationary and moving objects is now part of an operator's toolbox. Additionally, with Advanced Analytics' confidence filter, users can further fine tune detection to customize the accuracy threshold of the analytics engine's object detection to meet their business needs.



VideoXpert Licensing and Configuration with VxToolbox

The optional Pelco Advanced Analytics Suite is licensed and configured through a connected VideoXpert system in VxToolbox. This achieves superior analytics results without significant software adjustments and configuration. Built-in analytics detect and classify objects such as a person or a vehicle based on built-in training. For video analytics to perform effectively, cameras must be installed following simple guidelines to control things like height (angle) guidelines, with clear line of sight, sufficient lighting and contrast.

Optimize Response Time with VxOpsCenter Overlays and VxEvents Support

Lockstep integration between Advanced Analytics embedded Pelco cameras streaming metadata and our VideoXpert video management solutions provides real-time responders and forensic investigators with the visual cues and seamless events integration needed to optimize response times. VxOpsCenter overlays show not only configured detection zones that highlight on alarm, but also bounding boxes around detected people and vehicles, so that operators can quickly focus on events that really matter.

Real-time responders and forensic investigators can set up rules and alarms based on metadata streams in VideoXpert. The VideoXpert Rules Engine's behaviors (e.g., person or vehicle in zone), Analytic Events, support for Analytic Events (e.g., vehicle counter), and scheduled recording Analytic Events help operators get the critical video for their jobs.

At A Glance

- Cutting-edge analytics technology embedded in select Pelco camera models featuring object detection engine powered by deep learning
- Improved ability to categorize objects to detect actual threats versus false alarms
- Stream analytic metadata from camera to VideoXpert video management system
- Licensed and configured through VxToolbox
- Record analytic metadata with VideoXpert Storage



Specifications

Table of Objects	People, Vehicles
Maximum Number of Tracked Objects	200 objects
Table of Behaviors	Person In-Zone, No Person In-Zone, Vehicle In-Zone, No Vehicle In-Zone, Person Counter, Vehicle Counter
Detection Update Speed	Average 10 FPS (Max 40 FPS)
Mounting Height and Angle (Recommended)	10-15 ft, 30 degrees from horizontal
Field of View	Min 1.5k pixels on target
Minimum Target Size	1/10 height field of view
Maximum Target Size	2/3 height of the field of view
Vertical Angle to Target Min/Max	15 degrees/45 degrees down for horizontal (assumes 0 degrees is the camera completely flat pointing directly forward)
Obstructions	50% of the object must be visible

Options

Licenses SKU	Features
Included with camera	90-day free trial requires firmware version 3.4 or later
CLAA1-DLP	A license is required for each camera. Download through VxToolbox or via Pelco Quote Assist.

Compatible Products

Pelco Advanced Analytics Suite is compatible with the following Pelco cameras and VMS:



VideoXpert
Software Version 3.10



Spectra
Enhanced 7
Requires firmware version 3.4 or later



Sarix
Enhanced 3
Requires firmware version 3.4 or later



Inquire for SDK support for integration with other VSM solutions.



Contact the sales representative in your area today, or visit pelco.com to download complete specification sheets.

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