MOTOROLA *SOLUTIONS*

ADVANCED
ANALYTICS
SUITE

PELCO
a Motorola Solutions Company

ADVANCED ANALYTICS SUITE

Innovative AI-Powered Analytics

Pelco's Advanced Analytics Suite is our most cutting-edge analytics technology, leveraging AI-powered algorithms 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 AI, 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.

Pelco Advanced Analytics Suite, powered by Motorola Solutions, detects actual threats, allowing security staff to focus on the video

that really matters. Added processing power enables the tracking of over 50 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.

CONFIGURATION WITH VXTOOLBOX

The optional Pelco Advanced Analytics Suite is 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.

AT A GLANCE

CUTTING-EDGE ANALYTICS TECHNOLOGY embedded in select Pelco camera models featuring object detection engine leveraging AI-powered algorithms.

IMPROVED ABILITY TO CATEGORIZE OBJECTS to detect actual threats versus false alarms.

STREAM ANALYTIC METADATA FROM CAMERA to Pelco VideoXpert or any third-party video management system.

RECORD ANALYTIC METADATA WITH VIDEOXPERT STORAGE.

COMPATIBLE PRODUCTS

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

VIDEOXPERT™
Software Version 3.11

SPECTRA® ENHANCED 7
Requires firmware version 3.5 or later

SARIX® ENHANCED 3
Requires firmware version 3.5 or later

SDK

SDK SUPPORT
Inquire for SDK support for integration with other VMS solutions.

OPTIMIZE RESPONSE TIME WITH VXOPSCENTER OVERLAYS AND VXEVENTS SUPPORT

Lockstep integration between Advanced Analytics Suite 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 shows configured detection zones that highlight on alarm and bounding boxes around detected people and vehicles so that operators can quickly focus on the 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.

AUTOMATE OCCUPANCY COUNTING WITH NEW LINE COUNTING FEATURES

Line Counting automates the counting of people and vehicles in user designated areas with the use of line overlays within Pelco VideoXpert. There are three types of Line Counters available:

- Uni-Directional: One counter that counts objects traveling in one direction

- Bi-Directional: Two counters that separately count objects traveling in two directions

- Omni-Directional: One counter that provides a total count of objects traveling in two directions

To manage occupancy limitations, operators can receive notifications in Pelco VideoXpert alerting them when a counter exceeds a user-defined threshold. Line counts can be reset as needed and Administrators can generate and export reports on a counter's historical data.

SPECIFICATIONS

Table of Objects	People/Vehicles
Maximum Number of Tracked Objects	50 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 (3-4.6 m), 30 degrees from horizontal
Minimum Pixels on Target	9 pixels per foot (30 pixels per meter)*
Minimum Target Size	5% height field of view
Maximum Target Size	66% 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

*2MP camera in daytime condition (higher megapixels will not increase detection distance)
Calculations using Sarix Enhanced 3 Firmware 3.9.1.6, Spectra Enhanced 7 Firmware 3.9.1.8 or later

To learn more, contact a [Pelco Sales Representative](#) today!

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