

VIDEO CONTENT ANALYTICS



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aperture **VCA**



VIDEOANALYTICS

LIVE ALERTS FOR PROACTIVE MONITORING

KEY POINTS

- Real-time video analytics engine that utilizes advance image processing algorithm to turn video into actionable intelligence
- Simple detection zone set-up
- When used with PTZ cameras – detection is suppressed during camera movement to avoid false alarm
- Detects and classifies objects almost instantly
- Facilitates Data Mining for post event analysis and data management
- Adapts automatically to varying lighting and weather conditions
- VCA enabled cameras can be used as a stand-alone intruder sensor using output contacts

OBJECT PRESENCE

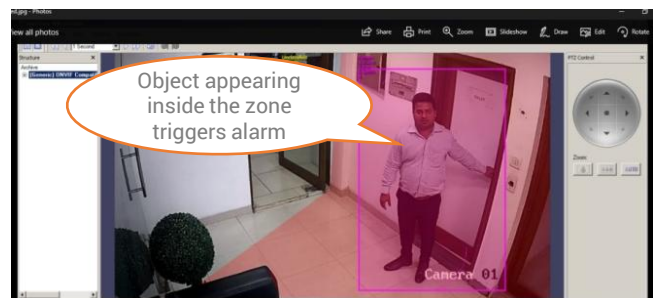
- Generates an alert by highlighting an object present inside a virtual detection zone drew by a user



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OBJECT APPEAR AND DISAPPEAR DETECTION

- An alarm is raised or notification is sent to an user, when an object appears inside a detection zone. For e.g. a person appearing from a room which is inside a detection zone
- The object disappearing alarm is raised or email notification is sent when an object disappears inside a zone. For eg. a person moves in the room which is inside a zone



OBJECT ENTER & EXIT

- An alarm is raised when an object enters or exit a zone. It means an alarm is raised when an object crossovers from the outside to the inside or the inside to the outside of the virtual detection zone

OBJECT CLASSIFICATION

- Classifies objects based on properties extracted from the object including area and speed



CAMERA TAMPERING DETECTION

- Automatically detects when a camera is blocked, redirected, defocused, spray-painted or any other instance of camera tampering
- Camera tampering gets detected by large persistent changes in the image. Once the image has changed and remained for a certain length of time, a tamper alarm is triggered.
- Visual notification on Aperture Interactive map



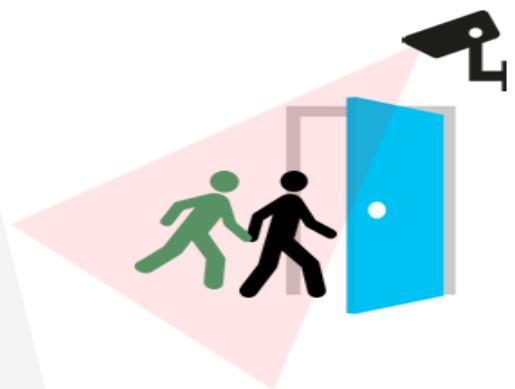
COUNTING LINES & COUNTERS

- Counting lines are configured to count objects (people, vehicle) moving in either direction. For e.g. calculating the flow of individuals using overhead cameras in a mall to ascertain total headcount at a given point of time
- Counters can be programmed to carry out incremental, decremental or occupancy counting



OBJECT TAILGATING

- Object Tailgating is defined when two objects cross the same line within a very short interval of time

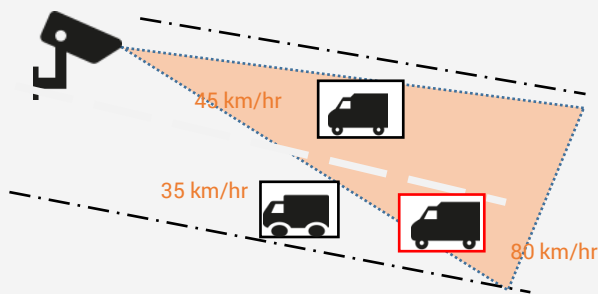


DIRECTION FILTER

- Enables a user to configure a moving object's desired direction
- Objects that are not traveling in the set direction raises an alarm

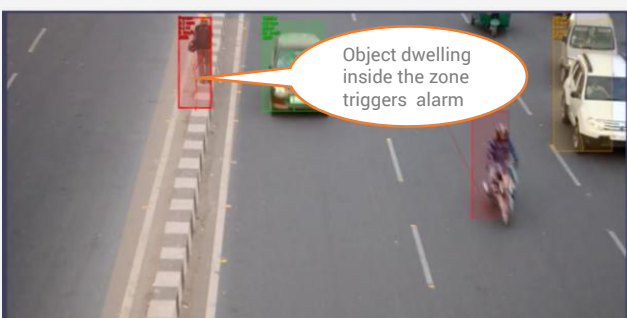
SPEED FILTER

- Enables a user to adjust a moving object's maximum and minimum speed limits
- Objects that are not traveling within the bounds of the configured speed limits, through a zone triggers an alarm. For e.g. speed limit is set between 10 km/hr to 50km/hr. Now, if a car enters the zone with the speed of 80 km/hr shall raise an alarm



DWELLING OBJECT

- Objects that dwells inside a zone for longer than the defined period of time shall raise an alarm & triggers notification



LEFTOVER OBJECT

- Generates an alert highlighting an left over object
- Facilitates user to see video footage for determining time & owner of the leftover object to take the corrective action immediately



STOPPED OBJECT

- Facilitates a user to receive an alert when an object stops inside a zone for longer than the defined period of time. Stopped object will raise the alarm & trigger notification to take the corrective action
- Enables a user to include or exclude specific object types to track or not to track. For e.g. the rule has been configured to include tracking of vehicles only and exclude group of people and other objects



FUNCTIONALITY COMPARISON TABLE

VIDEO ANALYTICS EDITIONS	VCA BASIC	VCA ADVANCE
Amount of detection zones	40	40
Tamper detection	0	0
Camera shake elimination	0	0
Surveillance tracker	0	0
Presence filter	-	0
Enter/Exit, Appear/Disappear + Stopped filter	-	0
Class and speed filters + calibration	-	0
Direction and dwell filters	-	0
Tail-gating filter	-	0
Abandoned object filter	-	0
On-screen counters	0	0
Object meta-data	-	0
Counting line	0	0



IDCUBE is uniquely positioned as a comprehensive physical security solution provider via its Access360 software suite for organizations of all sizes. The Access360 platform helps in managing personnel access, vehicle access, attendance, visitors, contractors, cafeteria usage, asset tracking, video management, video content analytics, LPR/NPR and more.

We are trusted by large businesses and SMEs across industries. We work with some of the most acclaimed global system integrators and solution providers. IDCUBE's distributor and channel partner network now has over 300 active businesses and this number is growing because of the opportunities our partners see in working with us.



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