

PSCCTV Video Analytics

Operational use of Advanced Video Analytics

██████████ (CSG)
[Pick the date]

Overview of operational management of the use of advanced video analytics and the protocols to be in place for their usage by CSG and Police Scotland

Advance Video Analytics

Video Analytics have been widely used within the security industry for a number of years. The development of newer technology and the upgrades to Public Space CCTV (PSCCTV) enables its usage to be more effectively utilised for PSCCTV.

Video Analytics is a support tool for operators which provide prompts, alerts and notifications to when there is something of interest which an operator may wish to view.

Advance VA provides additional functions and features to help speed up review processes for locating individuals. The advance functions do not provide facial recognition, emotional recognition or any other biometric type functionality.

Advanced VA operates in two ways

Process & procedure

There are two types of Video Analytics (VA) that will be utilised on the PSCCTV system in Glasgow. The VA is a piece of software that can be moved to any camera depending on the requirements of the service.

The two types of VA are

1. Standard VA which has a number of functionalities (depends on licence utilised) these are:
 - Perimeter breach
 - Intrusion detection
 - Crowd management or over crowding alerts
 - Loitering

Standard VA require perimeters or zones to be established which when breached will send the operator an alert to monitor or review.

2. Advance VA-Suspect Search which provides:
 - Incident tracking (individual involved in ASB/Criminality) could be located via cameras (not live tracking/retrospective viewing)
 - Search function for missing children

Suspect Search will operate in a number of ways

An image is identified via a CCTV camera (person caught on camera) and we can have a still image which will then be put back into the system via the search engine which will provide possible matches and routes (ideally carried out in camera batches of 10)

Image can be provided such as a missing person picture/camera which can then be put back into the system.

Avatar

If no image is available an Avatar can be created of the description which once completed can be put into the system for possible matches

Primary usage

Suspect Search

- Provide more effective and speedier locating of individuals involved in ASB & Criminality. Support the identification and locating of vulnerable individuals
- Support the tracking and locating of missing children

These are in line with the primary objectives of the service.

Standard VA

Detection of perimeter breach or intrusion in identified areas of concern such as Parks (nights), Glasgow landmarks (fountains) or areas identified by communities causing concerns (lanes, play areas)

Crowd management or overcrowding to detect and prevent escalation of ASB or criminal behaviour. Areas identified will provide alerts to operators once the VA detects any issues

Loitering VA will alert operators of anything remaining within specified zone for longer than a specified period of time- this could be applied to parks, shops, schools or any area of concern.

Primary Users

Standard VA & Suspect Search -Public Space operators

Suspect Search- Police Scotland Liaison officers

All authorised users will be provided with training on the usage of the system and programming of all VA functions will be carried out by CSG technical and system administrators.

Training

- Training will be delivered to cover
- Software application and usage
- Data protection and authorisation
- Incident management usage
- Surveillance requirement or usage

Authorisation

Usage will be restricted to authorised staff only

Standard VA is a function that will operate in the background and will not require any actions from operators until there is an alert notification

Suspect Search will require an audit log of usage which will be provided by the system. Operator usage will be logged in the system each time it is utilised and identified via the system .

Police Scotland officers will also be required to complete the appropriate forms (REF XXX) and information noting the following:

- Incident (provide ref numbers)
- Requirement to use SuSe
- Authorisation
- Officer details
- Date/time
- Outcome

Note* we could amend the review forms to include this

At no point will the system be utilised to track or monitor individuals not involved in any crime or ASB.

Any usage of the VA software for surveillance purposes will require RIPSAs approval for Police Scotland and must be included in the DSA authorisation paper work

How to Guide

1. On main screen double click applications launcher (will be replaced by SS icon)
2. Bottom Right panel applications launcher click icon
3. Top right click on tolls tab open window
4. Click Viewing panel icon and click onto SuSe
5. Click query tab
 - +date and time
 - + channels (cameras)Click on query tab
6. Select core image from search
7. + to search and+ required cameras
8. Click on search button
9. Play back if required
10. Repeat as required
11. Click on map icon for snail trail

Avatar

1. Follow numbers 1 to 4 to access SuSe
2. Click on create composite
3. Create image from menu options
4. Click on create-image now moved to main SuSe screen
5. +cameras for search click on search
6. Select image matches to selected tray
7. Play back video if required