CASE STUDY

ON

CCTV AND VIDEO ANALYTICS

PREPARED BY

INTSYS TECHNOLOGIES

ABSTRACT

With technology advancing at a rapid pace, it is inevitable that new products and solutions will evolve the security industry.

Video analytics has come a long way over the last few years in terms of capabilities and accessibility.

These are used as a solution to help businesses for identifying and detecting intruders, tracking people or objects, sending alarms on types of behavior, etc

There are numerous video analytic features that Intsys can integrate with a Surveillance System. Here we talk about these analytics.

WHAT
IS VIDEO ANALYTICS TECHNOLOGIES?

Video analytics is a technology that uses software to automatically identify specific objects, behaviour or attitudes in video footage. It is basically used for intrusion detection.

It has the capability to analyse a video to detect, classify, recognise or identify any type of event that has been set in the VMS software.

Video analytics technology works best for scenarios where many CCTV cameras installed.

WHY
VIDEO ANALYTICS IS REQUIRED?

With so many cameras installed, recording and continuously transmitting video, it becomes difficult for a human to monitor and analyse all these video recordings in order to detect suspicious behavior or events.

Video analytics technology enables the business to manage a vast amount of data that they may receive from the CCTVs and turn it into useful information.

This turns the cameras into predictive tools that helps to spot problems and prevent incidents in a more proactive manner, rather than just filming the events for later investigations.

SOLUTIONS WE OFFER

- **Motion Detection** - The CCTV system will only record when there is motion of a person or vehicle detected. This saves a lot of storage and makes investigation easier, as only the parts with any movement is recorded.

- **Line Crossing** - Line crossing allows to add a line or lines on a specific camera that should not be crossed. If this line is crossed, it can trigger NVR to begin recording, send an alert or even sound an alarm.

- **Number Plate Recognition** - This feature allows the camera to detect a vehicles licence plates that we can then integrate with boom barriers or other systems for behaviour monitoring. It also allows to determine the direction of movement of vehicles

- **Reverse Direction Motion** - When motion is detected in a specific direction, an alarm is triggered. We can provide wide flexibility in defining areas of activity thresholds to minimize false alarms.

SOLUTIONS WE OFFER

- **Object Missing** - An alarm triggers when a stationary object, such as a box, is removed from a selected area. This analytic behaviour allows the user to define an object to focus on, and if that object is removed, an alarm is triggered.

- **Object Abandoned** - An alarm triggers when a stationary object appears and remains in a scene, such as a person leaving a bag in the main lobby.

- **Auto Tracking** - Pan/tile/zoom capability to track vehicles or humans entering or stopping in the defined region. Once identified, the camera locks on and follows the subject's path.

- **Intrusion Detection** - Intrusion detection allows to monitor key areas within the video that should not have movement. This is perfect for monitoring hazardous areas, customs locations, danger zones and restricted areas of concern, and alerts of changes that occur within that virtual area.

SOLUTIONS WE OFFER

- **Crowd Management** - Crowd Management effectively helps in keeping a count of the people entering or leaving the premises. Furthermore, it generates timely reports which help in observing the crowd trend..

- **Traffic Management** - This system can measure the density and speed of traffic to give operators warning of where the congestion is likely to occur or an alert when a road is fully congested.

- **Facial Recognition** - Facial Recognition compares images of individuals from incoming CCTV video against specific databases and send alerts when a positive/ negative match occurs.

- **Heat Map** - Heat Map Shows visual information about customers' density and flow in the selected area. This can be used in stores to innovate the product placement strategy, refine promotions and optimize check-out services, etc.

CONCLUSION

While the CCTVs were used for prevention of thefts and break-ins, with advancements in technologies, we can now integrate the CCTV System with various Video Analytics for a smarter use case, rather than waiting for the incident to happen and investigate later.

Apart from this we also offer various System Integration services of CCTVs with:

- Fire Alarm System
- Public Address System
- Access Control System
- Packet Tracking System
- etc

To know more about the various Solutions we offer, contact us via the details mentioned on the next page.

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