



Intelligent Video Analytics (IVA) is a software that is used to monitor video streams in near real-time. While monitoring the videos, the software identifies attributes, events or patterns of specific behavior via video analysis of monitored environments. Video analysis software also generates automatic alerts and can facilitate forensic analysis of historical data to identify trends, patterns and incidents. The software enables its users to analyze, organize and share any insight gained from the data to make smarter and better decisions. 6SS IVA® that was developed by 6SS lead Software Engineers is comprised of over 20 modules and is fully integrated with Milestone VMS as well as many other third-party software. The 6SS IVA® makes sense of this overwhelming data stream through the use of effective algorithms tailored to identify those situations and behaviors that are of interest to any specific client. 6SS IVA® analytics modules can be either server or edge-based providing both real-time video analytics and forensic video analytics. 6SS Face Mask Detection is a module inside 6SS IVA® which allows the automatic detection of people that are not wearing a mask.

Functionality

6SS Face Mask Detection uses existing IP cameras and CCTV cameras combined with Computer Vision to detect people without masks. Face Mask Detection Platform uses Artificial Intelligence Network to recognize if a user is not wearing a mask. The algorithm will run on 6SS IVA® Server which will be analyzing the streams coming from Milestone recording server and sending back Meta Data which will allow the Smart Client user to receive No-mask data and alerts with the picture and the video of the person.

The Smart Client user can also benefit from 6SS Get Face® which is a module inside 6SS IVA® in order to identify the person who is not wearing a mask and send him an alert over his smart phone. If the camera

captures an unrecognized face, a notification can be sent out to the administrator in order to take the appropriate action.

Hardware Requirements

- 30 - 40 channels
- Nvidia GEFORCE RTX
 - AI Performance GPU - 78TOPS
 - 4600 CUDO – cores
 - 576 Tensor Cores
 - 72 RT Cores
- CPU Quad Cores

Applications

Airports:

The Face Mask Detection System can be used at airports to detect travelers without masks. Face data of travelers can be captured in the system at the entrance. If a traveler is found to be without a face mask, their picture is sent to the airport authorities so that they could take quick action. If the person's face is already stored, like the face of an Airport worker, it can send the alert to the worker's phone directly.

Hospitals:

Using Face Mask Detection System, Hospitals can monitor if their staff is wearing masks during their shift or not. If any health worker is found without a mask, they will receive a notification with a reminder to wear a mask. Also, if quarantine people who are required to wear a mask, the system can keep an eye and detect if the mask is present or not and send notification automatically or report to the authorities.

Offices:

The Face Mask Detection System can be used at office premises to detect if employees are maintaining safety standards at work. It monitors employees without masks and sends them a reminder to wear a mask. The reports can be downloaded or sent an email at the end of the day to capture people who are not complying with the regulations or the requirements.

Public Places:

The Face Mask Detection System can be used in public places including but not limited to restaurants, shopping malls and public transportation in order to alert the security officers and assist them in taking fast protective measures.

Key Features

- Automatic detection of people who are not wearing face masks
- Supports all camera types that are compatible with Milestone VMS (approximately 8351)
- Can work with any existing camera without the need of dedicated cameras
- Integrated with Milestone XProtect Corporate, Expert, Professional+, Express+ & Essential+
- Accessed from the Smart Client interface
- Integrated with Milestone Map functionality for visual and audio alerting including the camera location
- Integrated with 6SS Get Face® Facial recognition system
- Multi-Channel recognition
- Report generation
- SMS alerting to Administrators and violators

Main Benefits

- Cost effective
- Easy to use and configure
- Very fast processing speed
- Automatic detection of people who are not wearing a face mask
- Saving time and energy
- Decreasing manpower cost
- High accuracy and recognition rates
- Increased security and safety
- Centralized control through the Smart client
- Multiple applications and use cases
- Development team is always available to add customer-tailored features in case needed

Business Value

Video analytics come with many benefits to businesses especially in the security and public safety realms. It is often used to enhance these two sectors with comprehensive intelligence, security and investigative capabilities. The data derived from video analytics is designed to produce actionable intelligence to help enable city or infrastructure planners, law enforcement, or even managers and administrators to understand and respond to current situations. Using this application will assist in reducing the time and manpower needed for manual detection of people who are not wearing face masks and will increase the detection accuracy and will assure error-free input which will lead to higher security, automated alarming and decreased labor cost.