

6SS IVA® People Detection was developed to automate People Surveillance which is becoming more and more critical with each passing day. It enables the detection of people during the day or night, in good or average visibility conditions, with an outstanding accuracy and a very fast processing speed. It can be used in multi-purpose applications, involving public and private premises management, crime prevention and tracking, and many more. 6SS IVA®-People Detection is fully integrated with all Milestone XProtect versions where all the details including People recordings, Reports and Statistics will be accessed directly from the Smart Client interface.

IVA DATA FLOW

1. CCTV Cameras send RTSP streams to 6SS IVA® Server. The Cameras should support RTSP Protocol
2. 6SS IVA® People Detection Software performs automated detection of persons in video feeds using intelligent video analytics algorithms. The results from the 6SS IVA® People Detection Server are stored in the SQL database.
3. The Smart Client retrieves data from the SQL database and processes alarms according to the predefined alarm configurations.

*The Recording Server maintains a direct connection with the Smart Client for any Video inquiries.

*Alarm generated from 6SS services to the event server.

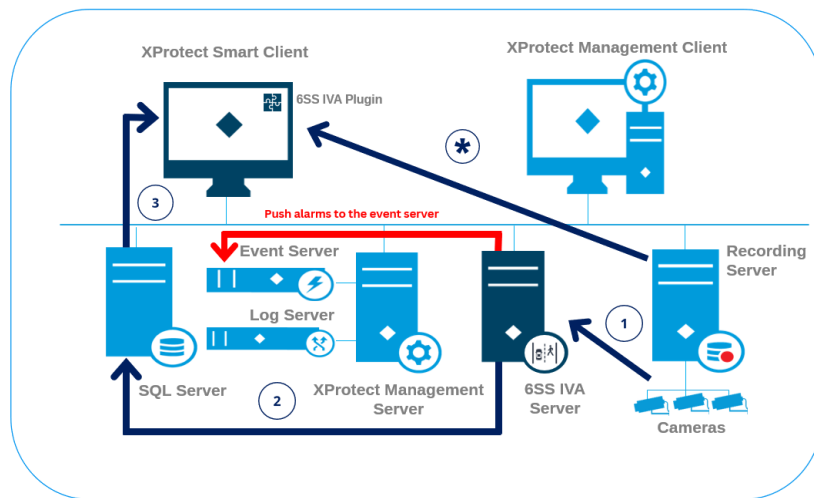


Figure 1 System Architecture

Functionality

6SS IVA® People Detection is an AI-driven video analytics solution that uses advanced computer vision to detect, classify, and track human activity through existing IP cameras. The system processes RTSP video streams in real time to identify human presence, movements, and behaviors, enabling proactive monitoring and enhanced situational awareness.

The software includes a dedicated Human Detection module designed to accurately distinguish people from other objects, reducing false alarms while providing precise movement tracking and activity analysis. It can generate instant alerts when predefined conditions or rules related to human detection are met, improving response times and operational efficiency.

Integrated with the XProtect Plus suite, IVA Human Detection delivers enriched metadata and real-time notifications related to detected individuals, supporting intelligent search, monitoring, and security management workflows.

Main Benefits

- Cost effective
- User-friendly interface and easy configuration
- High Processing speed saves time and improves efficiency
- Automation of People surveillance
- High accuracy and recognition rates
- Increased security and safety
- Centralized monitoring through the smart client
- Multiple applications and use cases
- Development team is always available to add custom-tailored features in case needed



Key Features

- Age Group Details
- Clothes Color and Type Estimation
- Gender Detection
- Direction Detection
- Type Details (Pedestrian, Car, Truck, Bus or Bike)
- Alarms depending on configuration
- Automatic data retention period handling
- Can handle many fields of view, from human-level, close-up footage, to higher up, far range footage
- Customizable dashboards and statistics
- Customizable upon request
- Easy operation
- Flexible filtering functionality
- High detection accuracy
- Monitoring unusual behavior (e.g., loitering, tailgating)
- Multiple detection & classification models and logic-based modules could be applied on top of the detected People
- One-click data export in Excel and PDF format
- Option to view a playback video for the period when the person was detected
- Seamlessly integrated with all Milestone XProtect versions
- SQL Retention Period
- Support Microsoft SQL Express, Standard, and Enterprise editions
- Uses RTSP Protocol

Additional Features

- Crowd Detection
- People Entry/Exit Counting
- Heatmap
- Intrusion Detection
- Loitering Detection
- People Counting
- Personal Protective Equipment
- Tailgating Detection
- Wrong Way Detection

Applications

- General surveillance of indoor and outdoor spaces
- Security monitoring (perimeter protection, wrong way detection)
- Monitoring unusual behavior (e.g., loitering, tailgating)
- Collection of statistics regarding people visiting an establishment (gender & closing style)
- Ensuring safety regulations in risky sites (e.g., construction sites) are followed

Business Value

Keeping track of crowd movement and access is much more effective with the use of an automated computer software. 6SS IVA® People Detection can be used in all applications where automatic detection of people is needed especially surveillance, security, and access control. Using this application will assist in reducing the time and manpower needed for manual monitoring which will lead to higher security, increased revenue and benefits, and decreased labor cost.