



# Datasheet

# Edge Analytics



## Version 3.6

This Specification Sheet gives the details of system requirements, feature details and other salient points of AllGoVision's Video Stitching Feature.

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## INTRODUCTION

This Data sheet gives the details of system requirements, features and salient points of AllGoVision Video Analytics which is available on the Edge i.e. Analytics directly on camera.

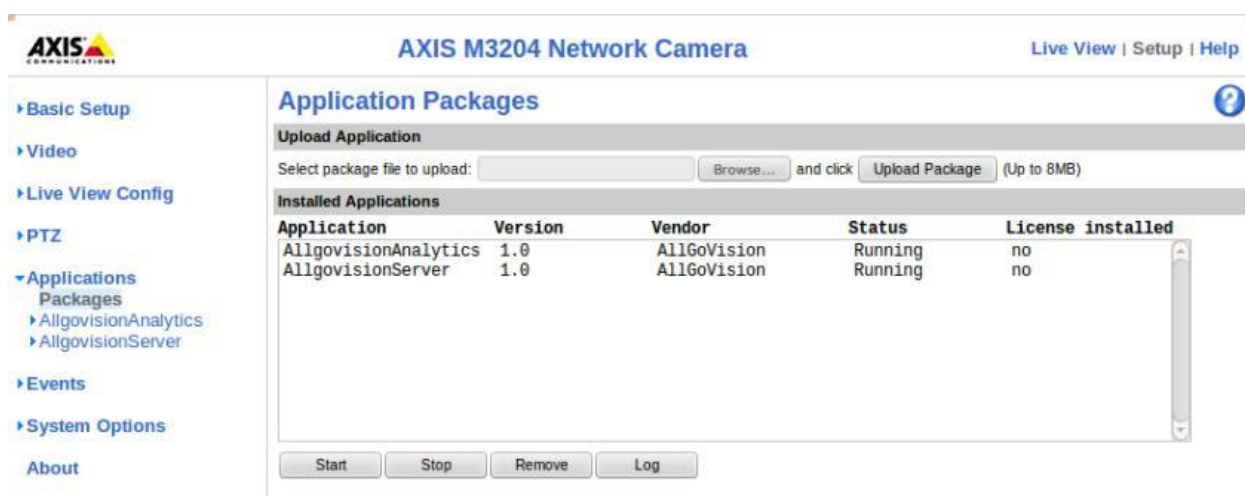
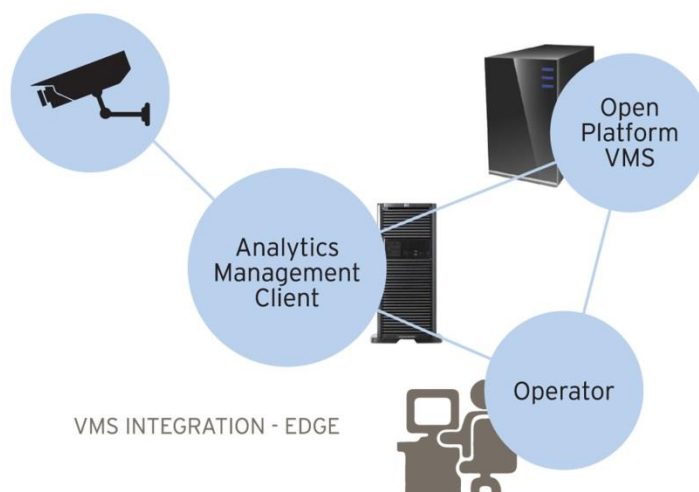
AllGoVision is a Video Analytics software product for actionable intelligence in security installations. The product provides excellent return on investment for a wide range of applications, including City Surveillance, Building Surveillance, Business Intelligence, Loss Prevention, Consumer Behavior Analysis, Monitoring Traffic Flow, Parking Management and many more.

The technology evaluates the contents of video to determine the specific information about the video contents. The product analyzes rapidly the video for specific data, behavior patterns, tracking movement of people/objects in monitoring zones.

## ARCHITECTURE

- AllGoVision Management Client (application) runs on PC/server and used for following things
  - Configure Analytics on edge
  - Start Analytics on edge
  - Receive alarms
  - Send alarms to VMS
- AllGoVision takes the Video feed directly either from camera or VMS.
- AllGoVision send alarms to VMS Viewer (like Smart client) application.
- AllGoVision application can run as a windows service.

Below schematic shows VMS Integration for Edge Analytics.



AllGoVision Edge Analytics – loaded on Axis Camera Page

## SYSTEM REQUIREMENT

AllGoVision analytics has the following system hardware and software requirements.

CATEGORY	REQUIREMENT
Operating System (For Application)	Windows Server 2003, 2008, 2012 Window XP, Vista, 7, 8
CPU	Core i3 and above.
RAM	Minimum 512 MB (1 GB recommended for large views, 1 GB recommended on Microsoft Windows Vista).
Network	Ethernet, 100 Mbit or higher recommended
Graphics Adapter	AGP or PCI-Express, minimum 1024×768 (1280×1024 recommended), 16 bit colors
Hard Disk Space	50 GB Free
Hardware Requirements	x86 Platform
Cameras for Edge Analytics	Axis M, P and Q series cameras ISD Note: Edge Analytics can be made available on any camera where 3rd party analytics can be loaded and run.
VMS/NVR Supported	Milestone (Express/Expert/Professional/Enterprise/Corporate) Axis Camera Station Genetec (Security Centre, Omnicast) IndigoVision Control Center Note: Any other VMS/NVR supported with Direct Camera connection and Alarm Center








## VIDEO ANALYTICS






The AllGoVision Analytics is robust to weather changes, lighting changes, tree swaying and other background distractions. The AllGoVision also works well in crowding conditions. The AllGoVision supports object classification.

The software is easy to install and simple to use with intuitive GUI. AllGoVision also supports customization through variation of features for specific applications.

- AllGoVision GUI has scheduler to enable scheduling of Analytics and Administrator Login.
- AllGoVision supports:
  - False Alarm minimization
  - Multi-region Analytics set on a single frame (alerts for multiple regions simultaneously)

## FEATURES

Sl. #	Feature	Description	Example
1	Tripwire 	Detection of Person or Vehicle crossing a virtual line	Intruder detection on fenced areas, Alert monitoring at the entrance, Illegal crossing of Railway line
2	Tailgating 	Detecting a person (individual) or vehicle following too closely the person or vehicle in front to get past access controlled entrances or barriers.	Unauthorized access at the mall entrance, gated communities, office premise
3	Counting 	Counting of people or vehicle after crossing a virtual line. Supports both overhead camera as well as	People counting to analyze foot fall statistics in malls, retail shops, buildings, Vehicle counting to analyze traffic capacity Vehicle counting for parking lot
4	Trespass 	This feature is used for detecting person or vehicle entering or exiting virtual area	Intruder detection in restricted areas. Illegal entry into restricted area in Banks, Shops Entry of person or vehicle into restricted area or exit from that. Over Speeding in the restricted area
5	Wrong Way Detection 	This feature is used for detecting people or vehicle moving in wrong direction	Vehicle moving in wrong direction in one way system, People exiting at the designated entry only areas
6	Loitering Detection 	This feature is used for detecting of Vehicle or person persistence beyond a specified time in a virtual area	People loitering in malls, People or vehicle having longer dwell time in restricted areas
7	Object Removal Detection 	Detection of object removal like paintings hanging on a wall	Artefacts protection in museums

Sl. #	Feature	Description	Example
8	Crowd Detection 	This feature is used for detecting people gathering in a virtual area	Illegal crowding on roads, railway station, in front of buildings
9	Left Object Detection 	This feature is used for detecting the people leaving out baggage or object in public place	Threat detection due to baggage left unattended in public place like malls, roads
10	Illegal Parking Detection 	This feature is used for detecting of Vehicle or person persistence beyond a specified time in a virtual area	People loitering in malls, People or vehicle having longer dwell time in restricted areas
11	Speeding Detection 	This feature detects speeding of the vehicle above speed limit	Over speeding on highways and city roads
12	Camera Tampering 	This feature detects Camera focus change or obstruction or video cable cut	Intentional sabotage by vandals

## ALLGOVISION GUI

AllGoVision product offers a graphical user interface with windows-oriented, tab based, point and pick interface. Extensive use of graphical icons, pull-down menus, buttons, check boxes, and radio-buttons are incorporated to reduce typing work to the minimum possible extent.

AllGoVision product GUI consists of following seven tabs:

### Server Setup Tab

The server setup tab consists of VMS or camera settings and other field details. You are able to view the video details from camera.

### Analytics Setup Tab

The Analytics setup tab gives options to set the analytics fields for different features.

### Advanced Setup Tab

This tab gives options to select advanced settings like camera environment, analytics processing complexity, shadow removal sensitivity, camera view, predefined object size and minimum object size.

### Video Stitching Tab

This allows stitching of Videos from 2-8 cameras. The output is displayed in the same tab. The objects detected are also shown with Red rectangles.

### Trigger Based

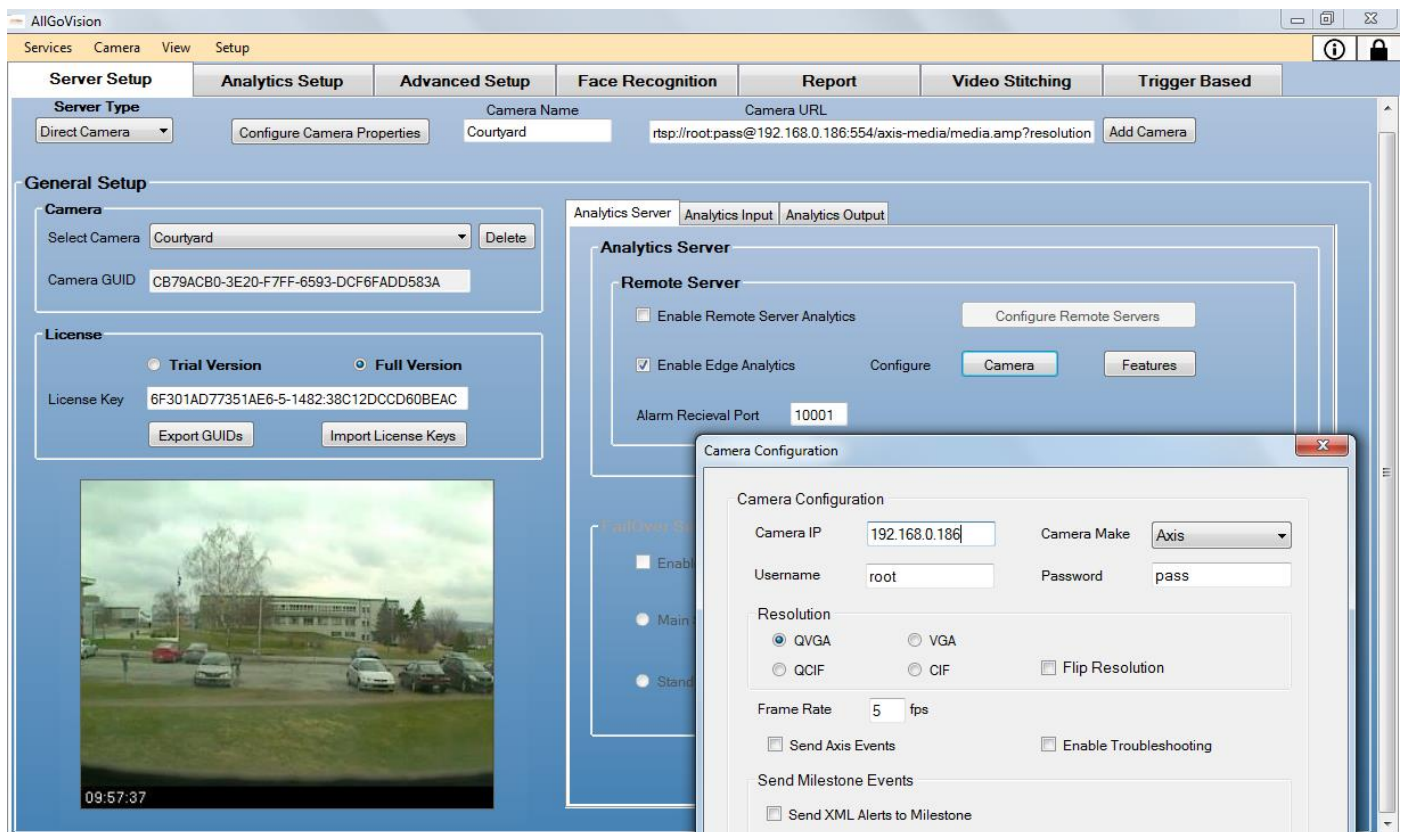
This allows running analytics from trigger like that from RFID.

### Face Recognition Tab

This tab provides registration application for Face recognition.

### Report Tab

This tab gives option to plot the statistics of people counting. Both line and bar charts are possible. This also has auto e-mailer and export of plots and report.



AllGoVision Management Client