



Datasheet

Edge Analytics



Version 3.78

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.

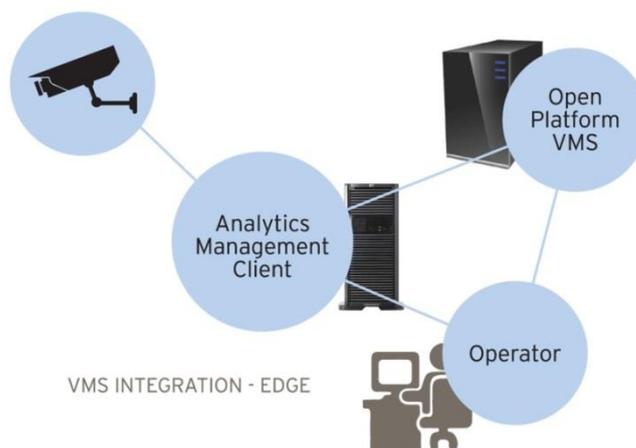
AllGoVision is a Video Analytics software product for actionable intelligence in security installations. The product provides excellent return on investment for a wide range of applications, including City Surveillance, Building Surveillance, Business Intelligence, Loss Prevention, Consumer Behavior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

The technology evaluates the contents of video to rapidly determine the specific information about the video contents like 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 and sends alarms to VMS Viewer (like Smart client) application. AllGoVision application can run as a windows service.

The screenshot shows the 'AXIS M3204 Network Camera' web interface. The 'Application Packages' section is active, displaying an 'Upload Application' area with a 'Choose File' button and an 'Upload Package' button (Up to 8MB). Below this is a table of 'Installed Applications':

Application	Version	Vendor	Status	License installed
AllgovisionAnalytics	3.7	AllGoVision	Not Running	no
AllgovisionServer	1.0	AllGoVision	Not Running	no

At the bottom of the table are buttons for 'Start', 'Stop', 'Remove', and 'Log'.

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)	Window 7, 8, 10
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	Axis Camera Station Milestone (Express/Expert/Professional/Enterprise/Corporate) Genetec (Security Centre, Omnicast) IndigoVision Control Center, exacqVision, Cisco, Honeywell, Wavestore 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

<p>#01 AGV-VA-TRPW</p> 	<p>Tripwire</p> <p>Detection of a person or vehicle crossing (or touching) a virtual line drawn in the camera field of view. The line crossing event can be detected for both directions.</p> <p>Example: Intruder detection on fenced areas, alert monitoring at the entrance, detection of illegal crossing of railway lines or getting closer to a restricted zone.</p>
<p>#02 AGV-VA-TRSP</p> 	<p>Trespass</p> <p>Detection of a person or vehicle entering or exiting virtual area drawn by the user.</p> <p>Example: Intruder detection in restricted areas. Illegal entry into secured zones in Banks, Stores, Plants. Entry of person or vehicle into restricted area or exit from that.</p>
<p>#03 AGV-VA-TMPR</p> 	<p>Camera Tampering</p> <p>Detection of camera tampering efforts by camera focus change or view obstruction or video cable cut.</p> <p>Example: Sabotage attempts by vandals (initiated with camera tampering) are detected and alerted and security personnel can take necessary actions.</p>
<p>#04 AGV-VA-LTDT</p> 	<p>Loitering Detection</p> <p>Detection of a person's or vehicle's persistence beyond a specified time (set by the user) in a monitored virtual area in the camera field of view.</p> <p>Example: People loitering in malls even after closing hours; people or vehicle having longer dwell time in restricted area; people persistence near critical assets.</p>
<p>#05 AGV-VA-TGDT</p> 	<p>Tailgating Detection</p> <p>Detecting a person (individual) or vehicle following too closely the person or vehicle in front to get past access controlled entrances or barriers (like boom barriers).</p> <p>Example: Unauthorized access at the mall entrance, gated communities, office premises, factories.</p>
<p>#06 AGV-VA-LODT</p> 	<p>Left Object Detection</p> <p>Detection of any object left behind in the monitored zone by a moving agent such as the owner of the object or baggage.</p> <p>Example: Threat detection due to baggage left unattended in public places like malls, roads, railway station, airports etc. Unmindful passenger leaving any luggage.</p>
<p>#07 AGV-VA-MODT</p> 	<p>Missing Object Detection</p> <p>Detection of object(s) removed from the monitored zone in the camera view.</p> <p>Example: Detection of removal or theft of precious items like paintings hanging on a wall. Critical Asset protection. Artefacts protection in museums, etc.</p>
<p>#08 AGV-VA-CRDT</p> 	<p>Crowding Detection</p> <p>Detects crowd in the camera field of view / region of interest, and when the crowd formation goes beyond a specified threshold (crowd count / percentage of area) alerts against the over-crowding scenario.</p> <p>Example: Detecting illegal gathering of masses, or getting alert for overcrowding scenario in public places (malls/railway stations/airports) and entry/exit/lobby areas.</p>
<p>#09 AGV-VA-PPLC</p>	<p>People Counting</p>



Counts the number of people traversing a certain passage. While angular camera can also be used, best results are achieved with head detection in overhead camera at entry / exit. Counts are provided in both directions (coming in/going out)

Example: People counting to analyse foot fall statistics in malls, retail stores etc. Conversion factor can be calculated by comparing footfall data with sales figures.

#10 AGV-VA-RPAN

Reporting & Analysis



AllGoVision provides extensive reporting and analysis options. Reports are generated in multiple formats (PDF, CSV, TXT, JPEG) with tables and plots. Reports can be scheduled for auto-emailer or FTP upload. Alarm Analysis and Comparison reports are also supported.

Example: Used in business decision making and time series analysis.

#11 AGV-VA-VHLC

Vehicle Counting



Counting of vehicles that cross a virtual line in a vehicle lane or entry / exit gates.

Example: Vehicle movement statistics for traffic study, traffic density calculation etc.; multi-lane vehicle counting; vehicle queue length and waiting time analysis at toll plaza etc.

#12 AGV-VA-WWDT

Wrong Way Detection



Detects vehicle movement in a direction opposite to user specified direction.

Example: Vehicle moving in wrong direction in one way road system; vehicles exiting / entering wrongly through entry only / exit only areas.

#13 AGV-VA-IPDT

Illegal Parking Detection



Detects parking or stopping by any vehicle in a specified virtual area (no parking zone or restricted zone) beyond a specified period.

Example: Illegal parking on road sides, in no parking areas or restricted zones, Illegal parking of the vehicle in front of the entry/exit gates.

#14 AGV-VA-HEAT

Heat Map



Object movement density represented with color gradient over the monitored area or specified region of interest based on specified time duration.

Example: Used in finding customer movement hotspots for product placement. Used in layout optimization in operations management.

#15 AGV-VA-FLOW

Flow Map



People movement trend map (percentage share for various movement paths) in the monitored zone based on inputs gathered in specified time period.

Example: Used in finding customer movement pattern and identifying most popular movement directions, most visited product sections etc. For finding out movement bottlenecks and layout enhancement, if required.

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:

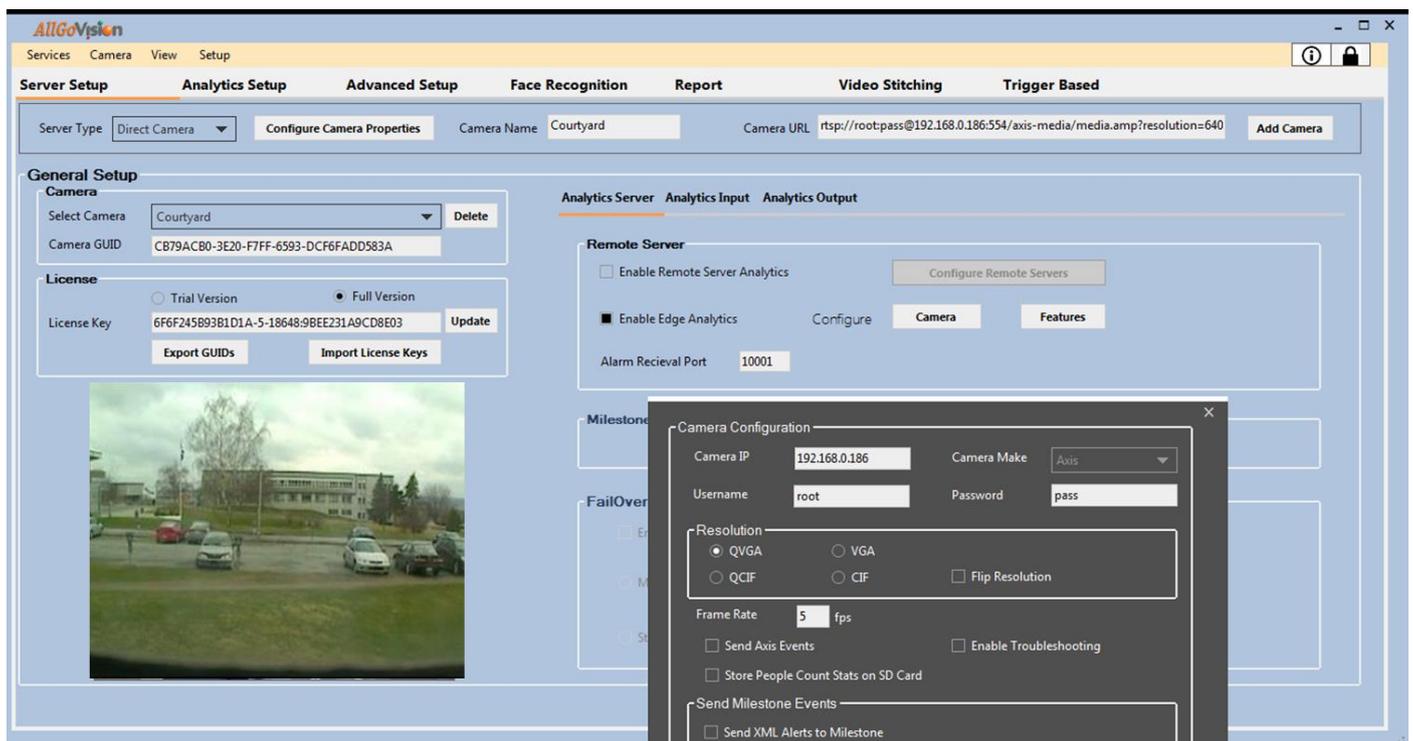
Server Setup Tab - The server setup tab consists of VMS or camera settings and other field details. You are able to view the video details from camera.

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.

Trigger Based - This allows running analytics from trigger like that from RFID.

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



AllGoVision Management Client