



**MULTI-LEVEL OCCUPANCY | PARKING OCCUPANCY | QUEUE OCCUPANCY**

## Count People, Crowd, Vehicles and Analyze Queues for Detecting Occupancy

Be it large open spaces, or multi-level / multi-region setups indoors for restaurants, malls, banks, airports or any other service hub, you face a tremendous challenge to manage infrastructure and service quality due to unknown information on occupancy and service time as well as uneven customer footfalls. AllGoVision takes live streams from surveillance cameras, analyses the video content and generates statistics, intelligence and trends that help you enhance your operations and your business churns greater profits and efficiency.

### AllGoVision Solution

AllGoVision constantly innovates to provide specific solution to your specific problem. Its highly accurate counting solution works for person or vehicle entering / exiting, people in a crowd or even in a queue.

- Using **bi-directional people counting** with overhead cameras installed at all transit points, it provides **resultant occupancy** at any instant for a specific location with only those specific transit points.
- For outdoor/open indoor spaces-not bound by specific transit points, **approx. crowd count** is provided by analysing video of angular camera focusing on any region of interest marked by a virtual polygon.
- For straight or even zigzag queues enclosed by guard rails etc. (preventing side-wise entry/exit), with cameras focusing at the start & end of queue, it provides **queue length** and **waiting time** information.
- By counting vehicles (going in or coming out) at a parking lot, it provides **real-time parking slot occupancy** and **availability** statistics section-wise, floor-level-wise or even for the complete parking lot.
- It provides analysis tools such as **heat map** (movement density map) and **flow map** (movement direction trends) over a particular region or floor area for detecting uniform movement or bottle necks.



People Counting



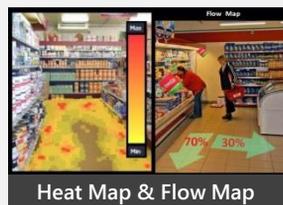
Crowd Management



Queue Management



Parking Management



Heat Map & Flow Map

● **Multi Level Occupancy Detection:**

**Banks, Retail, Multi-level Restaurant, Service Centers**

Display at your lobby shows real time occupancy of each level or customer service zone so that customers can choose where to go in order to get quicker service.

- Low waiting time & quicker service, customer satisfaction
- Uniform resource allocation, better turnover
- Uniform facility utilization, higher efficiency



● **Open Space Capacity Utilization:**

**Stadiums, Events & Entertainment, Open Air Theatres etc.**

For large open spaces both indoor & outdoor, without specific transit points approximate crowd count can be detected.

- Capacity utilization as a percentage of total capacity
- Crowd management by over-crowding awareness & alerts

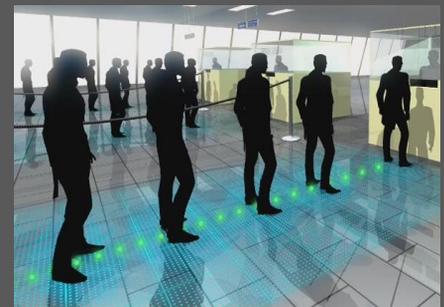


● **Queue Analysis:**

**Transportation, Airports, Banks, Retail, Service Counters**

For queues at ticket counters, check-in counters, service counters queue analysis results such as queue length and average waiting time can be displayed for each queue.

- Customer to choose queue for quicker service & satisfaction
- Service speed and quality improvement for slower queues
- Insights for operations management & resource planning



● **Parking Availability:**

**Offices & Commercial, Residential Buildings, Parking Lots**

In parking lots, electronic display shows capacity, current occupancy and free slot availability information for region-based, or level-based (floor-wise) groups.

- Incoming vehicles can decide which level or region to head to
- Parking Lot admins can get real time occupancy reports
- Management can compare historical (time-series) occupancy



● **Operations & Layout Study:**

**Retail floors, Restaurant, Malls, Offices, Workshops**

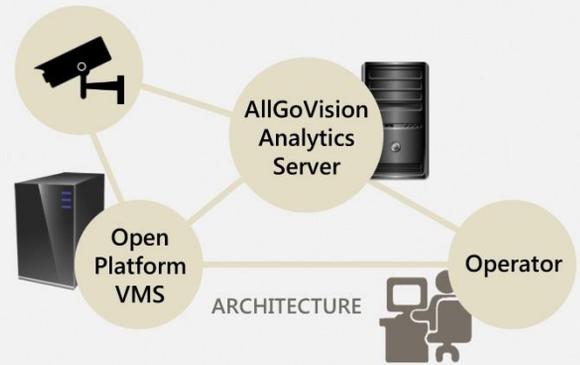
Heat map provides people & object movement hotspots, Flow map provides people & object movement directions trends.

- Find customer hotspots to find popular product sections
- Place strategic product at the most revenue generating areas
- Detect movement bottlenecks and improve layout plan



## Flexible Solution which you can simply Plug & Play!

AllGoVision occupancy management solution works fine with any good quality generic IP camera. Being an open platform solution, AllGoVision is easily and tightly integrated with many VMS. If you have an existing surveillance system, you can simply plug it and play without any extra camera investment. AllGoVision solution can also work stand-alone where you get alarms and report in AllGoVision's own alarm management client Alarm Center.

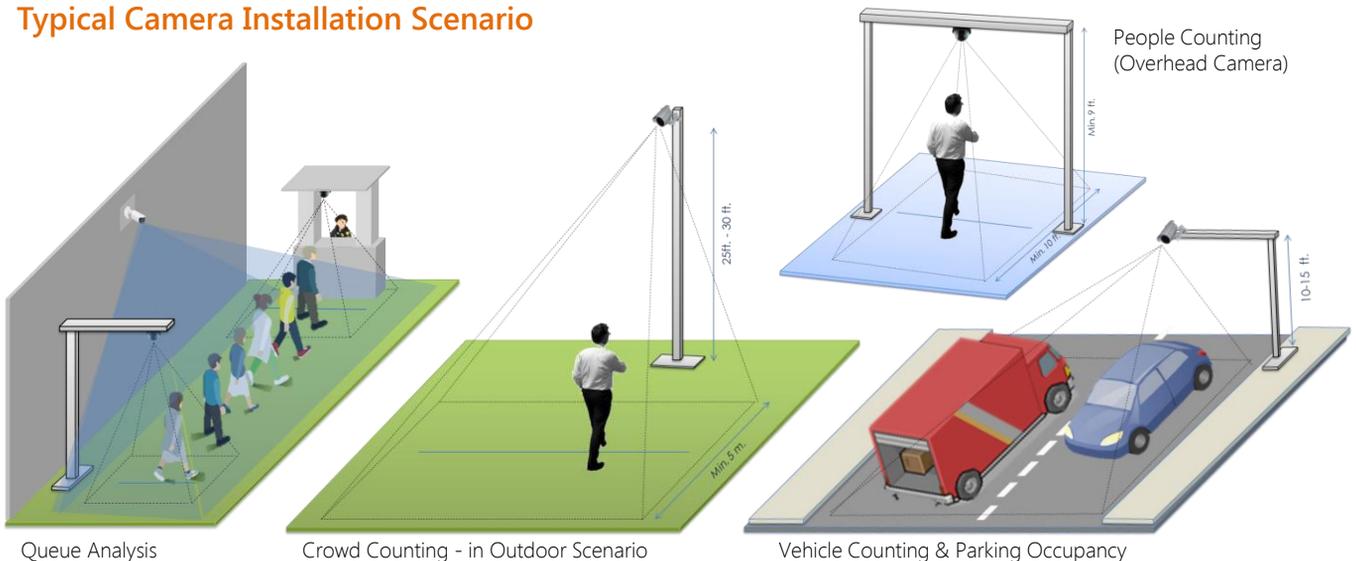


Occupancy Statistics in Alarm Center

## Server Requirement

- Processing Power: Typically 2 channels / Core
- Core i7, 3 GHz, 8 GB RAM – supports 12 channels
- Above considers analytics on 240p resolution
- Higher resolution demands greater processor
- Core i7 machine is good for Alarm Center (Client)
- **Note:** Contact us on specific project requirement.

## Typical Camera Installation Scenario



## About AllGoVision

AllGoVision is a unit of AllGo Embedded Systems, founded in 2005 and headquartered in Bangalore with branches in the USA, UK, UAE & Korea. AllGoVision is a leading video analytic software and has a global spread of sales partners, with proven installations worldwide. We have dedicated ourselves into in-depth research and product innovation and house more than 150 top-notch engineers. AllGoVision video analytics software is equipped with 40 plus basic and advanced features. It's an Open Platform analytics integrated with many VMS. AllGoVision focuses on – robust performance, cost efficiency, ease of use and customization.