

# ARTIFICIAL INTELLIGENCE POWERED VIDEO ANALYTICS

Video Analytics **VA** 4.5



[www.allgovision.com](http://www.allgovision.com) | [contact@allgovision.com](mailto:contact@allgovision.com)

  @AllGoVision



## Introduction

Video Analytics is an advanced AI based technology with Deep Learning algorithms to perform security & surveillance analytics. While VA is primarily used for enhancing security monitoring, it also provides video content analysis in real-time and assists in sourcing customer Insights.

Video Analytics makes the entire process of surveillance more efficient with real time alerts, actionable insights and reports to security personnel.

The Deep learning capabilities provide superior performance with better detection and recognition abilities resulting in enhanced accuracy and robustness, which in many cases enables performance that is close to human perception.

## Verticals



TRANSPORTATION



ENTERPRISES



CRITICAL  
INFRASTRUCTURES



SMART CITIES

# Applications



## Face Capture & Recognition

- ▶ Black list or VIP identification
- ▶ Access control & attendance
- ▶ Restricted zone monitoring,
- ▶ Forensic face Search



## Multi Country LPR

- ▶ Captures & recognizes license plates
- ▶ Identifies vehicles for traffic violations
- ▶ Automates access control & actions



## Crowd Management

- ▶ Crowd monitoring & management
- ▶ Crowding alert, live crowd count, crowd flow analysis & counter flow



## Counting & Reporting

- ▶ Footfall statistics for business optimization
- ▶ Queue monitoring to improve queuing time



## Traffic & Parking Management

- ▶ Effective traffic control and detection of illegal traffic behaviour at traffic intersection, highway & city roads

# Applications



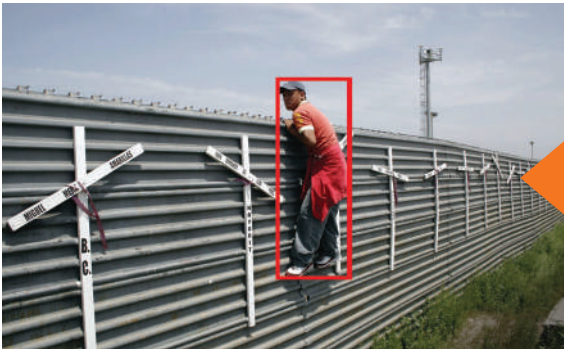
## Multi Camera Tracking

- ▶ Tracks human beings or vehicles across multiple cameras using live video to trace the path travelled.



## Smart Search

- ▶ Enables the user to search for Vehicles or Person based on attributes such as vehicle colour, number plate, colour of Shirt/Pants/Hat/Coat etc.



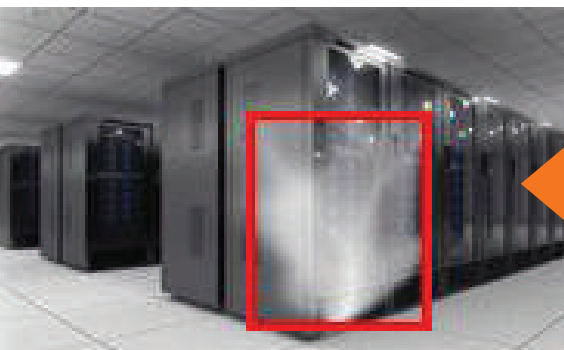
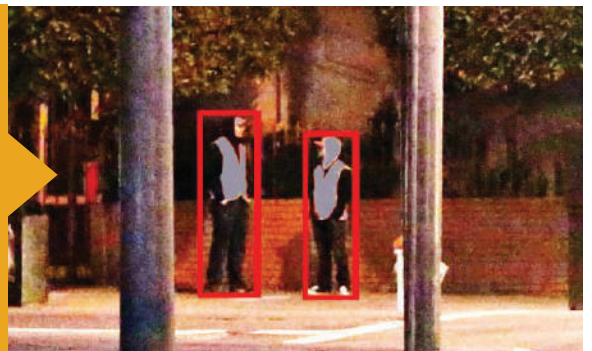
## Intrusion Detection

- ▶ Detects entry of intruders into high security installations & sterile zones, protects compound perimeter



## Suspicious Incidences

- ▶ Detects abnormal behavior
- ▶ Detects suspicious objects and activities



## Video Smoke & Fire Detection

- ▶ Early warning of smoke and fire



## Feature Set

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### ◎ SECURITY

#### ◎ Intrusion detection - Basic

- Tripwire
- Trespass
- Camera Tampering
- Tailgating detection
- Loitering detection

#### ◎ Intrusion Detection - Auto PTZ

- Continuous Auto PTZ
- PTZ Handoff
- PTZ Pre-set Position Analytics

#### ◎ Suspicious Incidence - Baggage

- Left Baggage Detection
- Missing Baggage Detection

### ◎ TRAFFIC & PARKING MANAGEMENT

#### ◎ Intelligent Traffic Management

- Vehicle Counting
- Illegal Parking Detection
- Speeding Detection
- Wrong Way Detection
- Congestion Detection
- Red Light Violation Detection

#### ◎ Parking Management

- Parking Management(Availability)

#### ◎ License Plate Recognition

- License Plate Detection
- License Plate Recognition - Stop & Go
- License Plate Recognition - Free flow

### ◎ ADVANCED SAFETY

#### ◎ Crowd Management

- Crowd Counting
- Crowding Detection
- Crowd Flow Detection

#### ◎ Advanced Safety- Smoke & Fire

- Video Dense Smoke/Fire Detection

### ◎ FACIAL DETECTION & RECOGNITION

#### ◎ Face Detection

- Face Detection/Face Capture

#### ◎ Face Recognition

- Face Recognition/Verification

#### ◎ Viewership Analysis

- Face Counting
- Face Presence
- Face Frequency
- Heat Map
- Flow Map

### ◎ ENHANCED MONITORING

#### ◎ Masking

- Face / Privacy Masking
- Object Masking

#### ◎ Multi camera tracking

- Tracking person or Vehicle across various cameras

#### ◎ Access Control

- Multi factor Authentication using FR & ANPR
- Using FR & ID card

#### ◎ SEARCH & ANALYSIS

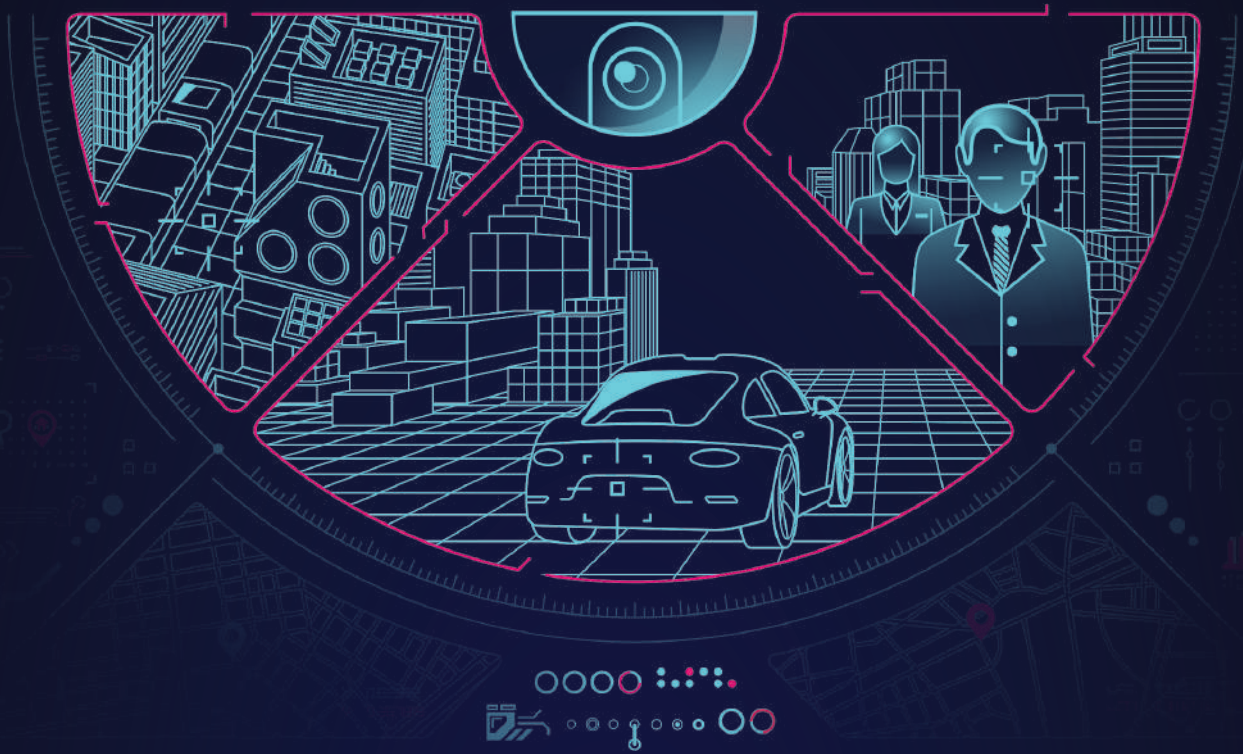
- Smart Search Live VA
- Forensic and Analysis Search

### ◎ BUSINESS/RETAIL INTELLIGENCE

- People Counting
- Queue Management
- Queue Count, Avg. waiting time, Avg. Service Time

#### ◎ ALLSAFE

- No Mask Detection
- Social Distancing
- People Counting
- Crowd Detection
- Contact Less Access Control using FR



## OVER 400 SUCCESSFUL PROJECTS IN

Middle East - GCC Countries | India | Latin America & Brazil | Asia Pacific | Egypt

 ● <b>Smart City</b>	 ● <b>Smart Building</b>
 ● <b>Retail</b>	 ● <b>Oil &amp; Gas</b>
 ● <b>Banks</b>	 ● <b>Government</b>
 ● <b>Airport</b>	 ● <b>Defence</b>

# Advantages

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<b>PROVEN</b>	<b>Satisfied customers in 30 plus countries</b>
<b>WIDE INTEGRATION</b>	<b>Get choice of VMS &amp; Camera Integration. Integration with CCC, PSIA systems are also possible</b>
<b>COMPREHENSIVE</b>	<b>Choice of features - 50 plus - basic &amp; advanced</b>
<b>ARTIFICIAL INTELLIGENCE</b>	<b>Deep Learning based Advanced Algorithms for high accuracy</b>
<b>CLOUD ENABLED</b>	<b>Web based application, Multi-tenant architecture/High availability</b>
<b>COMBINE FEATURES</b>	<b>Combine Features to resolve complex use cases</b>
<b>WORLD LEADING ANPR</b>	<b>High accuracy - 98%+ &amp; fast response time - &lt;1sec</b>

# Our Partners

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INDIA | USA | UK | UAE | KOREA | EGYPT

AllGoVision Technologies Private Limited  
HQ: Bangalore

Egypt T: +2012 0137 4747 | India T: +91-80-4653-3666  
[www.allgovision.com](http://www.allgovision.com) | [contact@allgovision.com](mailto:contact@allgovision.com)

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