

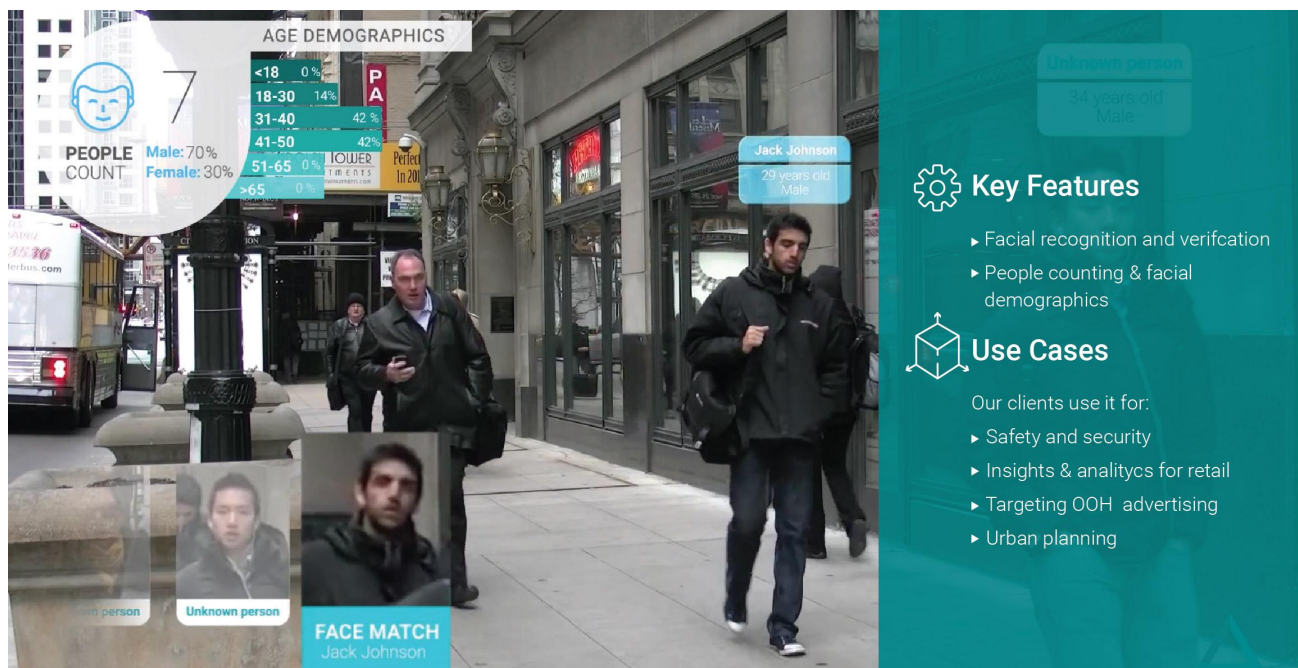
# Deep Vision AI

## Portfolio for Smart Cities

Deep Vision AI Inc. applies proprietary advanced computer vision technology to understand images and video automatically, turning visual content into real-time analytics and valuable insights. Software solutions are used for different applications such as safety and security, advanced customer analytics, marketing, and advertising. Deep Vision’s principal markets are smart cities, large retail stores, energy & infrastructure, transportation, universities and campuses, banking, event arenas, gaming and other public venues where safety can be a challenge.

### People and facial analysis

for business intelligence, safety and security



AGE DEMOGRAPHICS	
<18	0%
18-30	14%
31-40	42%
41-50	42%
51-65	0%
>65	0%

**PEOPLE COUNT**  
Male: 70%  
Female: 30%

**FACE MATCH**  
Jack Johnson  
29 years old  
Male

**Key Features**

- ▶ Facial recognition and verification
- ▶ People counting & facial demographics

**Use Cases**

Our clients use it for:

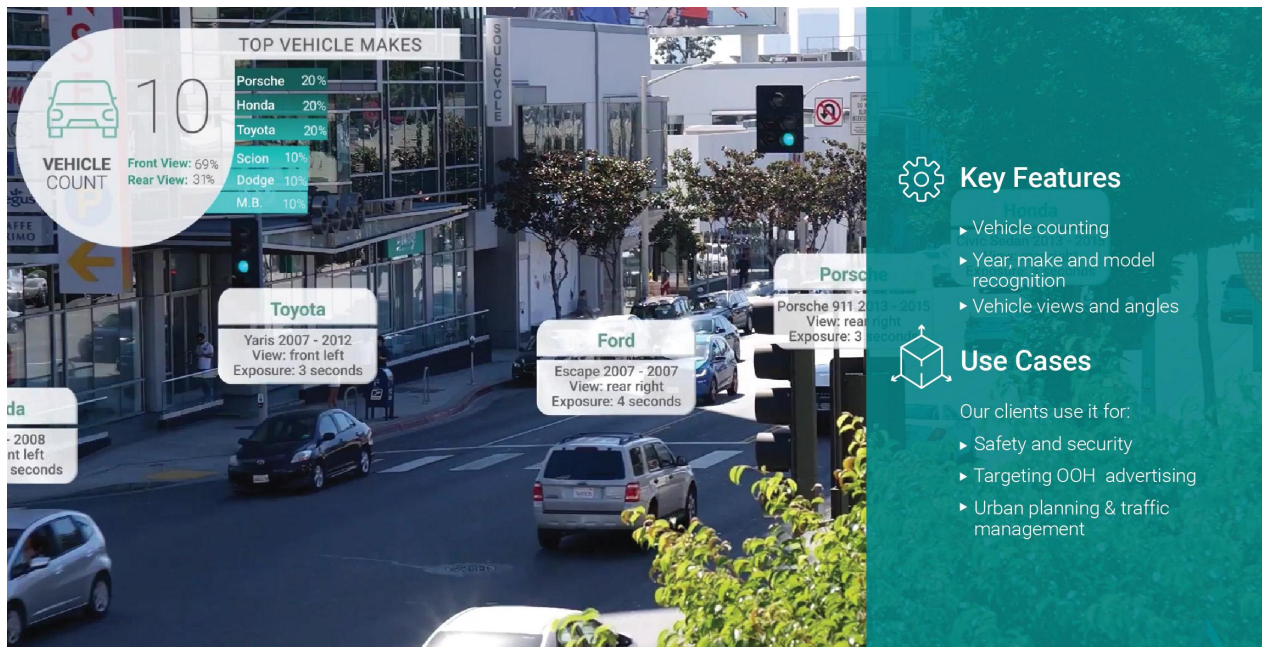
- ▶ Safety and security
- ▶ Insights & analytics for retail
- ▶ Targeting OOH advertising
- ▶ Urban planning

[See facial analysis capabilities here.](#)

Our software continuously monitors target zones to provide the count, gender, age and unique identification of individuals over time. This **Facial Demographics Model** is used to understand demographic variations over time for a designated area of the city, or to track customer patterns such as dwell-time spent in lines or waiting areas of retail stores. It also helps brands and advertisers to quantify demographics or to target individuals for advertising and product placement. Our **Facial Recognition Model** tracks unique individuals and provides facial matches for specified individuals. This helps retailers recognize important customers in real-time, quantifies the frequency of visitors, and improves overall safety and security.

## Vehicle Analysis for Business Intelligence, Safety & Security

Deep Vision AI's **Vehicle Recognition Model** has the unique ability to count and recognize the year, make, model and license plates of vehicles from any angle.



**VEHICLE COUNT**  
10  
Front View: 69%  
Rear View: 31%

**TOP VEHICLE MAKES**

Porsche	20%
Honda	20%
Toyota	20%
Scion	10%
Dodge	10%
M.B.	10%

**Toyota**  
Yaris 2007 - 2012  
View: front left  
Exposure: 3 seconds

**Ford**  
Escape 2007 - 2007  
View: rear right  
Exposure: 4 seconds

**Porsche**  
Porsche 911 2013 - 2015  
View: rear right  
Exposure: 3 seconds

**Key Features**

- ▶ Vehicle counting
- ▶ Year, make and model recognition
- ▶ Vehicle views and angles

**Use Cases**

Our clients use it for:

- ▶ Safety and security
- ▶ Targeting OOH advertising
- ▶ Urban planning & traffic management

[See vehicle analysis capabilities here.](#)

Governments and municipalities use vehicle recognition to automatically analyze vehicle flows and send alarms reporting designated vehicles to law enforcement. The model is also used to infer demographics based on vehicle recognition, quantify vehicle flow, and assess changing traffic patterns. Advertisers and brands also use this information to target contextualized ads based on the changing mix of demographics and to understand ROI of outdoor advertising.

## Product Description

### Software Modules

The following table outlines primary software modules that can be combined or used independently. Links are provided to demonstrate sample use cases.

FEATURE	DESCRIPTION	LINKS
<b>Facial Recognition</b>	Continually monitor designated areas to detect and recognize faces.	<a href="#"><u>Link to demo</u></a>
<b>Vehicle Counting and Year/Make/Model Recognition (optional LPR)</b>	Count and capturing vehicle data including the year, make and model and license plate number.	<a href="#"><u>Link to demo</u></a>
<b>People Counting and Age/Gender Demographics</b>	Count individuals and estimate their age and gender.	<a href="#"><u>Link to demo</u></a>
<b>People Counting and Waiting Times</b>	Count individuals and quantify time spent waiting in a designated area.	
<b>People Entering Alert Zones</b>	Recognize who is entering a specified zone and send alerts when triggered.	<a href="#"><u>Link to demo</u></a>

## A Single Platform

### Supporting Any Deployment Scenario

The Deep Vision AI Admin-Console is camera agnostic and can be plugged into any existing infrastructure. This centralized administration console manages different streams and devices, providing the ability to enable different AI-vision models on a single platform. The solution can be deployed in any of the following scenarios -- from cloud, on-premise, edge-based or combined deployments scenarios.



- **Cloud infrastructure:** We partner with the leading cloud providers such as Amazon AWS and Microsoft to provide our customers with immediate access to our platform in the cloud.
- **On-premise converged edge:** We partner with Nvidia and Dell to deliver our technology running on local infrastructure for high-security environments such as banks, airports, retail, and others. Deep Vision technology supports 15+ streams per GPU on-premises.
- **Smart edge camera:** to serve AI in low bandwidth and limited connectivity environments, Deep Vision has partnered with multiple smart edge camera hardware partners to run AI on Nvidia Jetson TX2 based devices, in real-time, requiring no internet connection.



# Industries Benefiting from our Technology



## Cities & Public Venues

From government and municipalities, to sports arenas, university campuses, and other public venues, Deep Vision AI monitors targeted zones to automatically capture events and raise real-time alerts, reporting to law enforcement, and improving the overall safety and security in the community. Understanding demographic variations overtime for a designated area of the city provides with valuable information and insights to understand ROI allowing for data-driven urban and business planning.



## Retail Stores

Deep Vision AI platform provides with advanced AI features to understand customer analytics and behaviour to help improve the overall customer experience, optimize in-store operations, deliver targeted content and advertising and develop marketing and sales programs. Deep Vision AI monitor stores to keep customers safe and provides with timely alerts on potential threats detected through surveillance cameras, as well as provides demographics and VIP customer identification.



## Energy & Infrastructure

Deep Vision AI provides with advanced analytics in real-time helping mining, oil & gas, energy companies to rethink their operating models to be safer and more efficient. Early threat detection helps mitigate costly errors before they turn into full scale liabilities. Protect workers from hazards and company valuable assets from security threats in an automated manner.

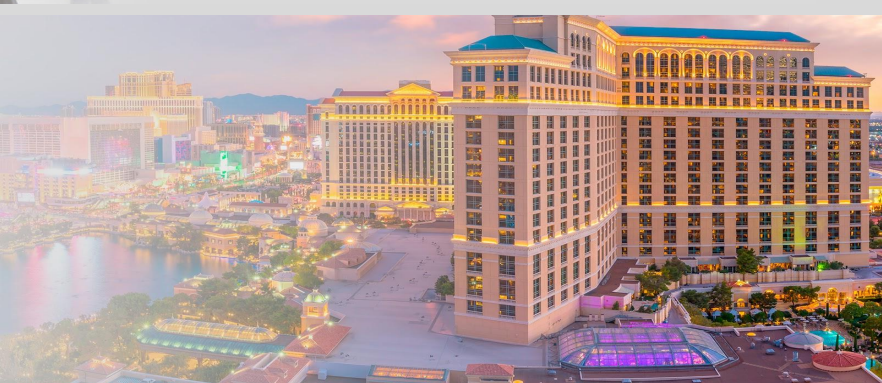


## Traffic & Transportation

From public transportation systems, to airports, highways, and other mass and rapid transit areas, Deep Vision AI helps to continuously monitor and quantify traffic flow, assess changing patterns, and detect and report incidents in real-time turning traditional transportation systems into intelligent and actionable.

## Gaming & Hospitality

Deep Vision AI technology helps casinos, hotels, and others, to improve customers' safety and security with early identification of persons and vehicles of interest and blacklisted groups. It also helps prevent liability issues and contribute to the compliance of self-exclusion gambling programs. Demographic information is captured to determine segments, and VIP customers are identified to provide an enhanced customer experience, as well as develop data-driven customer's loyalty and VIP programs.



## About Deep Vision AI Inc.

*Deep Vision AI was founded in 2014 to bring actionable insights and responsiveness to the world through advanced computer vision technology. Deep Vision AI helps clients analyze large volumes of video content in an automated and cost-effectively manner. As a result, enterprises can put these data flows to work, creating greater efficiency and effectiveness in operations, establishing new revenue streams, and accelerating business growth. Public and private entities enhance security in the community by enabling real-time monitoring, analytics, and alert capabilities.*

*Our team of experts in computer vision and machine learning includes contest-winning ImageNet researchers with strong technical competencies and commitment to innovation. Deep Vision AI partners with leading innovators in artificial intelligence, including Nvidia, Amazon AWS, Red Hat, Microsoft and Current by GE.*



**For more information:**

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