



# AvidAuto™ : Automatic Vehicles Flow Monitoring





# An Intelligent vehicle-flow analytics solution that translates data into meaningful visual information

## System Features

- How many vehicles entered/exited (day/week/month)
- Known access (residents/staff) vs. Unknown access durations
- Patterns of movement during access (Track a specific car)
- Access density analysis (access volumes based on time-of-day)
- Searching for cars by license plate, date and time, and location
- Traffic forecasts based on history
- Saving search queries
- Graphical representation of data
- Images of cars per each detection
- Car's Plate Type (Private, Bus, Police,...)
- Diversified set of configurable alarms
- White list or black list checking
- Immediate notification to email or using SMS
- Detailed analytics about any car or group of cars (Trending, Forecasting,...)
- Detailed report in PDF format



# Technical Data Sheet

## General System Specifications

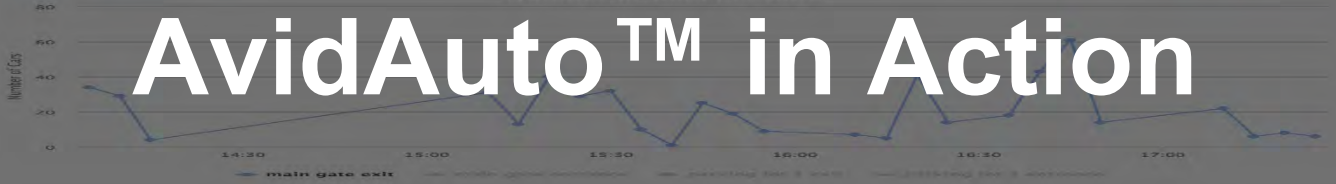
- Integrated with different VMS (Milestone, Axis, AxxonSoft, Cisco VSMS) or deployed as a separate stand-alone application.
- Available on different platforms (Windows, Linux)
- User friendly browser interface for entering user queries and displaying query results (Windows, IOS, and Android supported)
- Interfacing with OnVIF compliant IP camera(s) or reading from surveillance DVR
- State of the art computer vision and image processing algorithms optimized for GPU and CPU
- Scalable (easy to support any number of cameras)
- Customizable and configurable by client (Frame rate selection, camera management, ROI selection, etc.)
- Day/Night Recognition

## Hardware Requirements

- 1 Mega pixel camera with MJPEG or H.264
- Lens 12.5 – 50 mm
- One core for processing each camera
- 400 MB of memory / camera
- CPU 2.2 Giga Hertz.

## System Accuracy

- More than 96% for English/Arabic License Plate Detection
- More than 92% for English/Arabic License Plate Recognition



# AvidAuto™ in Action

VIBE
DASHBOARD
SEARCH
SETTINGS

Last Car Recognized: **CV04KMZ**

Last Car detected Plate: **CV-04KMZ**

Last Car Recognized: **B426DGR**

Last Car detected Plate: **B 426DGR**

**SEARCH**

Car Plate:

Car Color:

Car Type:

Location:

Start Date:

End Date:

**Search**

Reset

**RESULTS**

Car	Plate	Last Seen	Datetime	Duration	Spotted
	B33ENR	Main Gate Entrance	23/12/2014 9:00:20 AM	24 min	1
	CV04KMZ	Parking Lot 1 Entrance	22/12/2014 9:00:20 AM	2 hours	2
	B58VIG	Main Gate Exit	22/12/2014 9:00:20 AM	38 min	1
	B428DRG	Main Gate Exit	22/12/2014 9:00:20 AM	1.5 hours	1
	B14AAG	Main Gate Entrance	22/12/2014 9:00:20 AM	23 min	2
	P5004RH	Parking Lot 2 Exit	22/12/2014 9:00:20 AM	10 min	3
	B13VPT	Main Gate Exit	22/12/2014 9:00:20 AM	4 hours	1
	IF08VCC	Parking Lot 2 Entrance	22/12/2014 9:00:20 AM	12 min	1
	PH221VS	Parking Lot 2 Entrance	22/12/2014 9:00:20 AM	55 min	3
	B777AHD	Main Gate Entrance	22/12/2014 9:00:20 AM	32 min	2
	VL08VPL	Parking Lot Exit	22/12/2014 9:00:20 AM	1 hour	2
	TR98FNI	Main Gate Exit	22/12/2014 9:00:20 AM	23 min	2

## License Plate Recognition Arabic/English

**Cars (358)**

Car	Plate	Plate Type	Camera	Datetime	Lists	Spotted Status
	٩٥٤ ن د أ	ملاكي	Stream1	04:03 pm 03/07/18		1 Enter
	٨٩٤٢ م ق	ملاكي	Stream1	04:03 pm 03/07/18		1 Enter
	٧٣٤ أ ن ج	تجاري	Stream1	04:03 pm 03/07/18		1 Enter
	٦١٧ ق م أ	ملاكي	Stream1	04:03 pm 03/07/18		1 Enter
	٩٢٨ ه ن	ملاكي	Stream1	04:03 pm 03/07/18		1 Enter
	١٢٣٧ ب ن	ملاكي	Stream1	04:03 pm 03/07/18		1 Enter
	٥٢٤ ب ط د	ملاكي	Stream1	04:03 pm 03/07/18		1 Enter
	٨٥٧٣ س ط ي	ملاكي	Stream1	04:03 pm 03/07/18		1 Enter
	٦٣٧ أ ق ج	ملاكي	Stream1	04:03 pm 03/07/18		1 Enter
	٧٦٥ ا ب ج	ملاكي	Stream1	04:03 pm 03/07/18		1 Enter



### Results 373

Stats

5 Minutes 15 Minutes 1 Hour

#### Number of Cars Per Gate



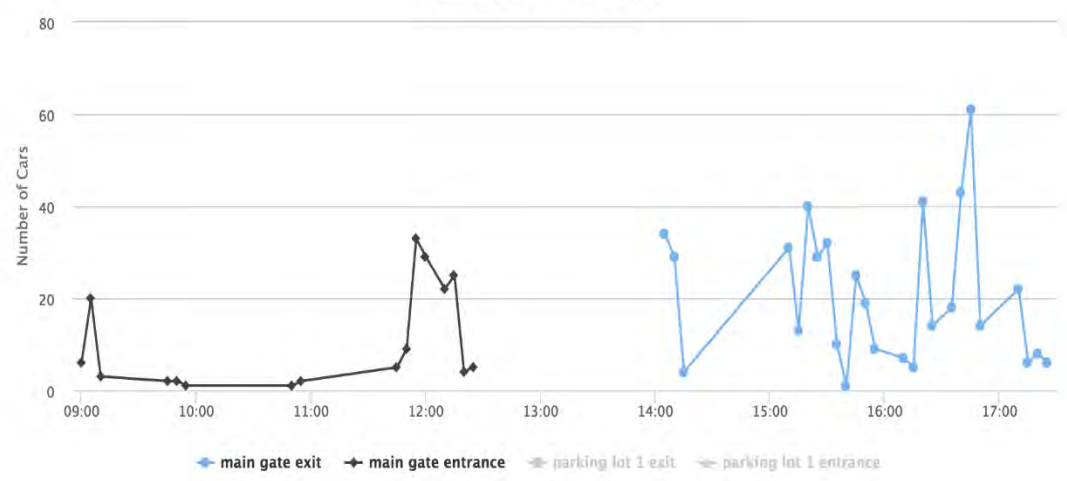
## Vehicle count for single/multiple gates/areas

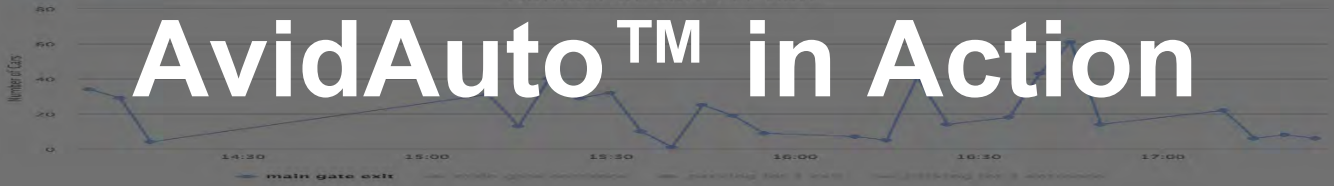
### Results 650

Stats

5 Minutes 15 Minutes 1 Hour

#### Number of Cars Per Gate





# AvidAuto™ in Action

VIBE

[DASHBOARD](#)
[SEARCH](#)
[SETTINGS](#)

**QUERY** Choose the criteria of the data you are looking for

📅 Licence Plate
📅 Start Date
📅 End Date
📍 Location

**Results (1)** Choose the criteria of the data you are looking for

Car	Licence Plate	Location	Status	Datetime	Spotted
	س ۹۱۶	main gate exit	Out	1/15/2015 2:25:22 PM	4

main gate exit	Out	1/15/2015 2:25:22 PM	
parking lot 1 exit	Out	1/15/2015 1:43:30 PM	
parking lot 1 entrance	In	1/15/2015 1:34:55 PM	
main gate entrance	In	1/15/2015 10:03:26 AM	

**ALERTS**

- ! Licence ABC123 has entered. 5 Minutes ago
- ! Licence ABC123 has entered. 5 Minutes ago
- ! Licence ABC123 has entered. 5 Minutes ago

**QUERIES**

- ! Licence ABC123 has entered. 5 Minutes ago
- ! Licence ABC123 has entered. 5 Minutes ago
- ! Licence ABC123 has entered. 5 Minutes ago

## Vehicle Tracking (White/Black Lists)

### Lists

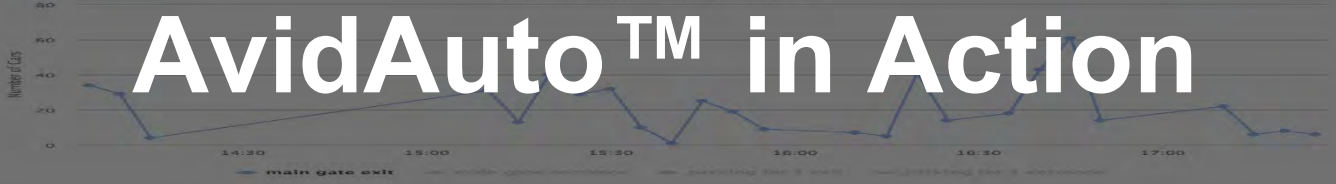
**Black List**  
No. of cars: 2

Add a car:

Car	Plate
	ب ف ۴۹۱۳
	ر ج ۴۶۴۱

**White List**  
No. of cars: 0

**NewList**  
No. of cars: 0



# AvidAuto™ in Action



## نتائج البحث



٣٩٦ ط هـ  
Parking Lot Entrance -----2015-03-08 11:49AM



٨١٢ ب هـ  
Parking Lot Entrance -----2015-03-08 11:49AM



٤٦١ ف ا  
Parking Lot Entrance -----2015-03-08 11:49AM

# Printed Reports



# AIDBEAM

AidBeam Technologies is a leading provider of video innovative solutions. AidBeam solutions focus on analyzing video Big-Data to extract insightful business & security information, and adaptively packaging video streams to achieve the best quality of experience for AidBeam clients. AidBeam's technology strengths are based on world-class development team composed of video architects, software engineers and computer scientists with a proven track-record in technologies such as media streaming, videoconferencing, image processing and Big-Data Analytics . AidBeam team has accredited history of working in multinational corporations and delivering unique solutions and products worldwide.



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