

TRAFFIC ANALYTICS AND ACCESS CONTROL SOLUTION APPLIED TO:

POLICE FORCE

- Uninsured vehicle detection
- Stolen vehicles
- Terrorist search

PRIVATE SURVEILLANCE

Presence in restricted areas

PERIMETRAL MONITORING

- Industrial estates
- Factories or large companies
- Town accesses
- Condominiums, housing developments.

SPECIFIC TRACKING

Monitoring transit areas of vehicles, determining their routes and behavior.

ENFORCEMENT

- Red light enforcement
- Foto Stop
- Section Radar
- Lists (Insurance, Stolen, Technical Inspection, etc.)

VPAR SERVER

TRAFFIC ANALYTICS SOLUTION



- VPAR SERVER[©] uses Neuronal technology and Deep Learning to perform Traffic Analytics or Access Control in a fast and efficient way, whatever the target scenario: police cars, fixed cameras, etc.
- It can recognize license plates continuously, from vehicles in movement (Free-Flow) or stopped (Stop & Go).
- It detects speed, traffic direction and lane, and classifies vehicles.
- It allows to use cameras from different brands and protocols on the same system.

VPAR SERVER[©] can process many cameras covering up to 2 lanes each.





System requirements

CPU

Intel Atom

MEMORY

2 GB RAM

HD

• 500 GB

OPERATING SYSTEM

Windows Server,
 Windows 8, Windows 7,
 Windows 10

Compatibility

SUPPORTED PROTOCOLS

RTSP

H264

Motion JPEG

JPEG

Gige Vision

IDS-IMAGING

AVI

IDS-IMAGING

SUPPORTED VMS

MILESTONE

AVIGILON CONTROL CENTER

INDIGOVISION

BOSCH BVMS

AXXONSOFT

MIRASYS

SCATI LABS

TYCO (Exacq)

PELCO (VideoExpert)

3xLOGIC

HUAWEI

OnSSI

SOME SUPPORTED CAMERAS

AVT, Axis, Avigilon, Basler, Bosch, Huawei, IDS, IndigoVision, JAI, JVC, Mobotix, Pelco, Sony, Vivotek, HikVision, Messoa, and more.

VPAR SERVER

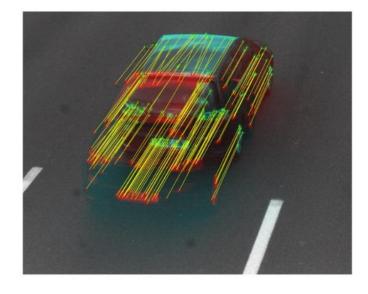
TRAFFIC ANALYTICS SOLUTION

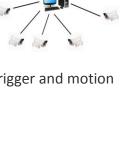
TECHNICAL FEATURES

- Over 65 countries supported.
- Open Architecture
- Neural Labs Proprietary technology
- Camara and VMS Agnostic (independent)
- It supports ADR plates (dangerous goods)
- Grammar control.
- Repeated plates filter.
- Image pre processing for shadow filter.
- Perspective correction.
- Real time recognition modes, by external trigger and motion detection.

For each vehicle it registers:

- Recognized plates.
- Reliability per reading.
- Direction detection.
- Type of vehicle (classification)
- Speed of vehicle (NL SPEED)
- Lane of vehicle
- Images of vechicles.
- Date and time, GPS position, camera ID, etc.
- Country of the plate
- License plate position in the image.
- For each recognition, it sends XML messages via TCP/IP.
- It is integrated with digital I/O
- It admits Centralized or Distributed architectures.









WORK, USE NEURAL LABS TECHNOLOGY

We advise you on your specific project.

We recommend you the most suitable hardware for your project in order to guarantee the best results.

Contact us for personalized attention.

SEE MORE:



VPAR SERVER

TRAFFIC ANALYTICS SOLUTION

Includes Neural Viewer

- Detected plates history searcher.
- Easy-to-use interface
- Multiple user management.
- Real time display of the last plate read by each camera from the installation.
- Lists management and associated actions.
- It shows in real time the plates on configured lists, with pre and post event video sequence.
- Excel Export / Import



OTHER ANALYTICS

- License plate masking (privacity)
- Average speed detection between 2 spots.
- Car stopped in prohibited area detection.
- Access to forbidden area detection.
- Direction traffic detection.
- Prohibited turn detection.
- Traffic jam detection.
- Vehicle counting.
- Forbidden lane change detection.
- Vehicle brand and color detection* (contact us for details)



TECHNICAL SPECIFICATIONS OF VPAR SERVER

Processing time	20 to 150 ms	
Recognition rate	98%* (depdning on the acquisition quality and country of the plate).	This is a minimum value. It can be highed when using the adequate hardwre and configuration.
Images per second/camera	Stop & Go version	5 (depending on the PC or server)
	Free Flow version	10 a 20 (depending on the PC or server)
Maximum number of cameras	Unlimited, depending on the PC or Server	10 a 20 (acpending on the Fe or server)
Vehicle maximum speed	250km/h (using the adequate camera and	
considering and appear	lighting)	
Supported Protocols	MJPEG	JPEG
	H264	AVI
	RTSP	Gige Vision
	IDS Imaging	DirectShow
	100 magnig	Birectanow
Supported cameras	AVT, Axis, Vivotek, IndigoVision, Bosch,	Mobotix, Pelco, Sony, etc. (specific
Supported Cameras	Avigilon, HikVision, Huawei, Dahua, Messoa,	models of each brand).
	IDS-IMAGING, PointGrey, Basler, JAI, JVC,	models of each brand).
Other video sources	Avi Files	
	Ficheros Jpeg, Bmp	
Integrated Video Recording Systems	Milestone (minimum Express version)	Pelco
	Axxon Soft, Indigo Vision	Avigilon Control Center
	Bosch BVMS, Nuuo	3xLOGIC, Huawei
	Exacq (Tyco), Mirasys	OnSSI
	Scati Labs	
2 line license plates	Yes	
Motorbike license plates	Yes	
Diplomatic license plates	Yes	
Operative System	Windows 7, Windows Server, Windows 8,	
	Windows 10	
Database	MS SQL Server Express (More recent versions	
	supported, but not included)	
Optional Analytics	Direction Detection	Speed Calculation
	Lane Detection	Vehicle classification
Working modes (per camera)	Free Flow	
	By Trigger	
	By Motion Detection	
Third Party Integration	XML messages via Socket	
	SQL Server database access	
Supported countries	ALBANIA, ANGOLA, AUSTRIA BOSNIA AND HERZEGOVINA, BOLIVIA, BELGIUM, BULGARY, BRAZIL, CANADA, CHILE, COLOMBIA, COSTA RICA, CYPRUS, DENMARK, DOMINICAN REPUBLIC, SPAIN, SLOVENIA, ESTONIA, FINLAND, PHILIPPINES, FRANCE, GREECE, GRIBALTAR, NETHERLANDS HONDURAS, ITALY, IRELAND, HONG KONG, LEBANON, MALYSIA, SINGAPORE, VIETNAM, ISRAEL, SOUTH AFRICA, MOROCCO	NICARAGUA, NORWAY, POLAND, PORTUGAL, RUSSIA, ARGENTINA, ECUADOR, EL SALVADOR, GERMANY, GUATEMALA, MEXICO PANAMA, PARAGUAY, PERU, UNITED KINGDOM, URUGUAY, ROMANIA, SWEDEN, TUNISIA, TURQUIA, PUERTO RICO, USA (supports the 50 states), VENEZUELA

