

# Autonomy Automatic Number/License Plate Recognition



Automatically identify and track all vehicles



## Key features

- Plate characters
- Plate color recognition
- Fully integrated video management functions
- Moving or static traffic
- Fixed camera or vehicle mount options
- Car park mode
- Single images, analog, or IP video compatible
- Multiple country formats

The ability to easily identify and track vehicles is key to the success of any traffic law enforcement agency. And if this can be accomplished automatically, with instant correlation and cross-referencing of license plates, appropriate action can be taken quickly and confidently.

Autonomy Automatic Number/License Plate Recognition (ANPR/ALPR), from HP Autonomy, delivers a crucial advantage in traffic law enforcement, but also provides a wide range of commercial applications. The system identifies and tracks vehicles in all conditions to trigger responses automatically. Typical applications include car park surveillance, access control, monitoring activity at gas stations, security for in-car payments at drive-through outlets and toll booths, border controls, and managing logistics depots.

When integrated with Autonomy Command and Control, ANPR/ALPR provides a comprehensive, end-to-end solution that encompasses every aspect of vehicle recognition and tracking, together with advanced recording, retrieval, and analytical capabilities.

## Intelligent core technologies

Autonomy ANPR/ALPR combines multiple state-of-the-art Optical Character Recognition (OCR) techniques to provide much greater tolerance for matching poorly defined characters. As a result, you can identify and track vehicles entirely automatically. Using the power of Autonomy's core technology, ANPR/ALPR automatically correlates and cross-references identified license plates with other data, making conceptual associations between recorded plates and other pieces of intelligence. The solution identifies plates automatically from single images or video streams and is compatible with all existing CCTV systems.



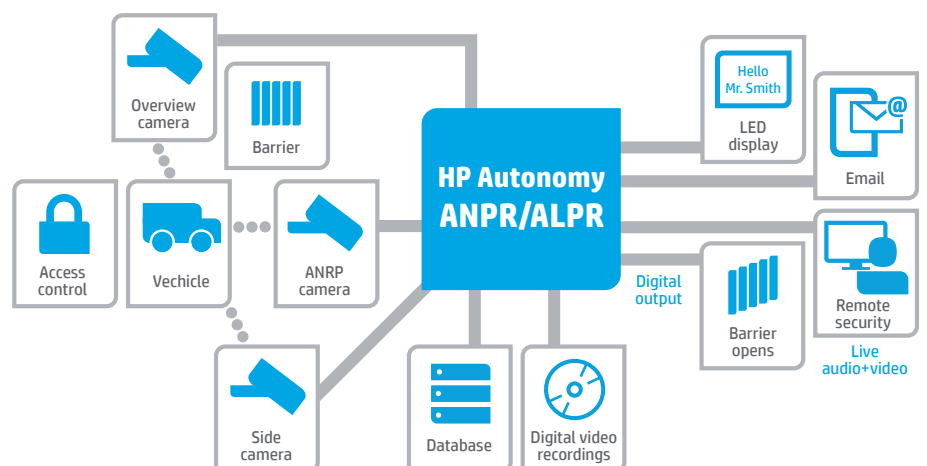
## Database integration and action assignment

ANPR/ALPR provides full support for SQL database connectivity. You can add license plates and associated metadata to the existing internal or external SQL database to enable automatic cross-referencing. This delivers instant plate matching, fuzzy-logic based matching, and correlation of identified license plates with stolen vehicle registers, traffic and law enforcement records, credit card transaction reports, and customer records. Full integration with local and remote repositories facilitates an interpretation of the potential significance of certain activities. In addition, bidirectional audio transmission supports remote surveillance operations.

Once vehicles are logged in the database, you can assign actions via a code to each license plate so that predefined instructions or actions will be followed on identification: raise barrier, change traffic lights, display LCD text, play WAV file to signal an alarm, alert supervisor via email, store image of vehicle, or increase/start frame rate for higher quality recording at critical moments. You can assign any combination of the above activities to the plate's pass or fail activity. With the simple addition of Autonomy Intelligent Scene Analysis System, vehicles without readable license plates can also be identified and alerted upon accordingly.

## Advanced plate searching and retrieval

An intuitive user interface ensures that information captured by Autonomy ANPR/ALPR is easily accessible and that key events can be readily identified by security personnel and matched against vehicle, driver, or incident history. If images from an overview camera are available, these will display adjacent to number/license plate footage, enabling your operators to view driver images alongside plates and metadata. You can search single or multiple cameras/databases simultaneously through one interface, and specify search parameters including plate/partial plate matching, camera, date, time, database alert code, category, and time on site.



## Secure authentication and data storage

With HP Autonomy's authentication procedures, only authorized personnel gain access to sensitive data. Encryption and unique image identifiers ensure the integrity of data captured. Full audit tracking allows specified users to gain immediate access to the history of any record in the system. Pre-recording can be triggered so that images preceding a significant event are captured and stored. Efficient storage techniques use intelligently steered multiple buffers that store only necessary images, eliminating the need for extensive capacity. Finally, to actively manage storage and optimize performance, the solution automatically erases all captured images after a specified time.

## Specification

<b>Source</b>	Image files, analog or IP video streams
<b>Overview cameras</b>	Unlimited
<b>Supported video compression</b>	H264, MPEG-4, MPEG-2, MJPEG
<b>Recording</b>	Variable record rate on a per camera and event type Pre and post activity recording definable
<b>Security</b>	Image stream encrypted public verification key Multi-levels of password access
<b>Recognition modes</b>	Continuous or triggered recognition
<b>Camera</b>	IR illuminated or normal colour
<b>Character sets</b>	Arabic and/or India recognised (others can be supported)
<b>Colour</b>	Plate overall colour or colour patch and position Multi-regional plate models and formats
<b>Recognition rates</b>	> 98.5% dependant on setup and plates
<b>Database</b>	Local or remote database Import and export all common formats
<b>Alerts</b>	White or black lists with fully configurable alerts Definable daily/hourly access times per plate for access control Definable daily/hourly access times per plate for access control





## About HP Autonomy

HP Autonomy is a global leader in software that processes human information, or unstructured data, including social media, email, video, audio, text and web pages, etc. Autonomy's powerful management and analytic tools for structured information together with its ability to extract meaning in real time from all forms of information, regardless of format, is a powerful tool for companies seeking to get the most out of their data. Autonomy's product portfolio helps power companies through enterprise search analytics, business process management and OEM operations. Autonomy also offers information governance solutions in areas such as eDiscovery, content management and compliance, as well as marketing solutions that help companies grow revenue, such as web content management, online marketing optimization and rich media management.

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