



AXIS Optimizer

Forensic search for vehicles.

Improving search for license plates

Axis has partnered with video management system (VMS) provider Milestone and two of its video analytic application (ACAP) partners to offer a smarter way to search for, recover and share video evidence about vehicles. AXIS Optimizer forensic search for vehicles provides an efficient means to find video evidence in Milestone XProtect using metadata from automatic license plate recognition (LPR) ACAPs from Axis and third-party vendors. VMS operators can save significant time and costs using this serverless, camera-based solution for a range of on- and off-street applications. AXIS Optimizer forensic search for vehicles is available to download for free (version 3.5 and up) at www.axis.com/products/axis-optimizer-for-milestone-xprotect.

LPR metadata boosts intelligence in video

Axis cameras with embedded LPR analytics deliver a broad range of metadata – such as type of vehicle, brand, color etc. – that is then stored as search criteria in the VMS database. This makes it possible to search for vehicle-specific metadata in Milestone XProtect derived from AXIS License Plate Verifier (ALPV) from Axis as well as from LPR ACAPs from Vaxtor and FF Group.* Having all data types aggregated in one search database makes for quick, easy and efficient investigations. Combined, this gives XProtect users search results of video based:

- > Vehicle's type, brand, model and color
- > License plate number and country of origin
- > Date and time the video was recorded

Fast and accurate results

The solution allows users to collect important traffic data and manage all aspects – from automatically

detecting license plates to getting forensic search results. Vehicle and plate detection, recognition and classification is performed inside the camera before being sent to the VMS.

Using Power over Ethernet IP cameras to process and manage metadata keeps costs low compared to server-based processing. Plus, each ACAP and camera are optimized to ensure high-quality video and analytics with optical zoom, autofocus, OptimizedIR, electronic image stabilization, shutter speed and other important camera settings. Depending on which ACAP is used, results typically deliver detection rates of >97% with up to 95% recognition rates.



Some of the usage cases this solution is well suited for include:

- > Speed, lane and traffic light enforcement control
- > Traffic management
- > Toll collection
- > Vehicular crime investigations
- > Parking lot security



> **Quick and efficient investigations**

> **Broader range of search parameters gives more exact findings**

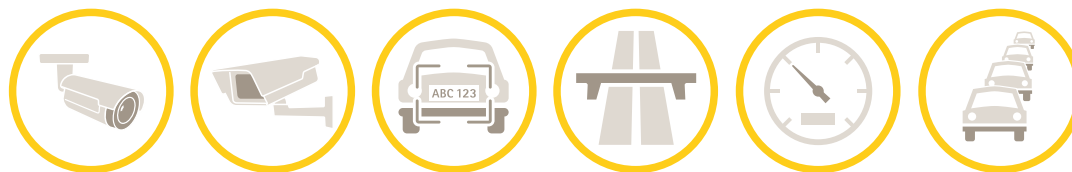
> **Filter metadata by:**

- license plate country and characters
- vehicle brand, model, color, direction of travel
- date, time place

> **Free download**

Detect. Recognize. Classify.

Performed by the video cameras running LPR applications. Axis offers a range of LPR cameras optimized for specific use cases. Built-in LPR Change image.



Storage

Milestone XProtect receives and stores metadata. All in one place. In the familiar XProtect interface.



Search. Share evidence

AXIS Optimizer search plugin and Milestone Centralized Search empower users to quickly and accurately search for and find video evidence.



The screenshot shows a search interface titled 'Vehicles' with the following fields and labels:

- Vehicle plate:** Labeled 'ALPV'.
- Country:** Labeled 'Vaxtor'.
- Color:** Labeled 'FF group'.
- Brand:** Labeled 'FF group'.
- Model:** Labeled 'FF group'.
- Type of vehicle:** Labeled 'FF group'.
- Direction:** Labeled 'Vaxtor', with options for 'Moving closer / In' and 'Moving away / Out'.

Free download: use it today

www.axis.com/products/axis-optimizer-for-milestone-xprotect

More details about the applications

Go to the links listed below for more details about the ACAPs available in the first version of AXIS Optimizer forensic search for vehicles. Note: ACAPs from additional third-party companies may be incorporated without prior notice.

www.axis.com/products/axis-license-plate-verifier

www.vaxtor.com

www.ff-group.org