SMART VEHICLE SEARCH™
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Smart Vehicle Search™ is an enhancement to FLIR United VMS, allowing the ability to query for recorded video footage using license plate numbers, captured by IP cameras being managed by the VMS.

With Smart Vehicle Search™ any IP camera can become an LPR sensor, utilizing Neural Networks on the FLIR Cloud, trained to efficiently detect and recognize license plate numbers within high volumes of video.
**HOW DOES IT WORK?**

Any camera configured on FLIR United VMS can be utilized by Smart Vehicle Search™. The total number of cameras that can be deployed per system is determined according to the number of Smart Vehicle Search™ channels activated for the United VMS license. The administrator can select the desired cameras as well as define the region of interest in each of the fields of views.

Once configured, the associated video streams will continuously upload to the FLIR Cloud, where they will be analyzed by the AI engine for license plate recognition. Each recognition will be sent back to the VMS which will automatically bookmark the associated video footage with the license plate information.
Smart Vehicle Search™ is an ideal solution for forensic purposes, allowing investigators and control room operators to search for vehicles using full or partial license plate numbers and immediately retrieving matching results that exist in the video.

As a result, the VMS operator can search for specific vehicles within the VMS video archive and retrieve results for the associated footage, using either full or partial license plate details in the search query.
**KEY BENEFITS:**

**COST EFFECTIVE**
Does not require purchasing dedicated LPR cameras and can utilize existing IP cameras, which are already installed.

**FLIR End to End**
The solution is provided as an add-on to FLIR’s United VMS and does not require special integration considerations and engagements with third parties.

**CLOUD ARCHITECTURE**
Introducing new features, supporting new geographies, performing maintenance work and scaling to handle more video channels – is all done in the cloud, without requiring customer intervention and with zero downtime.

**CYBER SECURED**
All web request communication with the cloud server is authenticated and over TLS secured HTTPS.

**FORENSICS BASED**
Allows the user the ability to locate the license plate even if there is missing information. The user will be presented with a list of results, with the ability to manually select the relevant ones, similar to Google search.

**DEEP LEARNING TECHNOLOGY**
Smart Vehicle Search™ utilizes the latest Artificial Intelligence technology, using neural networks to accurately and rapidly recognize license plate numbers under different lighting, angles and weather conditions. The use of machine learning also allows for quick adaptation to new geographies.