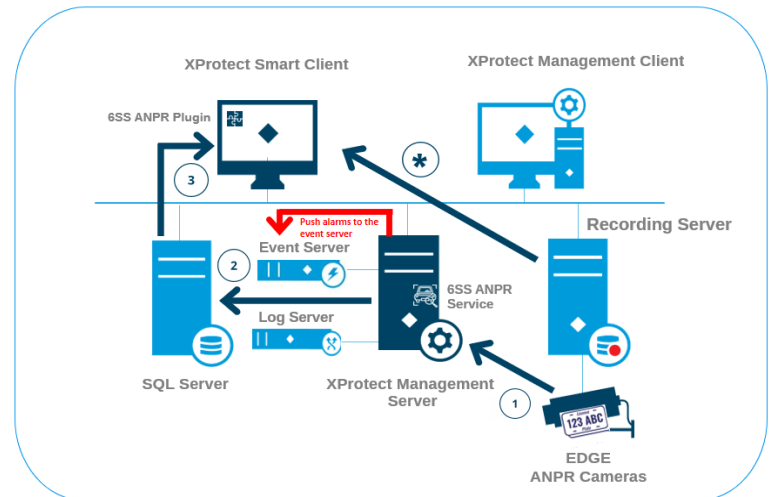# 6SS ANPR®
Edge Configuration

Automatic Number Plate Recognition (ANPR) technology has far-reaching implications beyond just monitoring the roads. The software has two defining features; automation providing automatic barrier opening and other access control functions plus enhanced security ensuring that authorized vehicles enter secure areas making it an indispensable tool for a wide range of industries.

The 6SS ANPR® software offers efficient and effective solutions to problems related to parking, security, retail, and more. Its user-friendly management features and reporting capabilities allow for the customization of actions for when a license plate from the database is recognized. For instance, the system can be programmed to open a barrier, alter a traffic light, send an email notification, or display a pop-up on a screen upon the recognition of a particular number plate.

By automating routine tasks using ANPR technology strengths security measures by allowing security personnel to concentrate on more human orientated tasks.

Data Flow

1. The results obtained from the Edge Cameras are directly sent to the 6SS ANPR® Windows service running on the Management Server, which subsequently indexes the results from the Edge Cameras.
2. The 6SS service shares the results with the SQL database.
3. The Smart Client retrieves data from the SQL database and handle the alarms triggered when a number plate is matched with a black-listed vehicle or a white-listed vehicle in the Event Server. The 6SS ANPR® plugin, in the Smart Client, reads the data from the SQL server and displays it to the user, along with the corresponding video playback.

* *The Recording Server maintains a direct connection with the Smart Client for any Video inquiries.*

* *Edge Cameras with onboard ANPR processing, stream to the Recording server.*

* *Alarm generated from 6SS service to the event server*

Functionality

The Edge Cameras send video streams to the Recording Server, then communicates directly with the 6SS ANPR® Windows service to retrieve data and store it in the database. The 6SS ANPR® Windows service is responsible for triggering alarms as needed, based on the results of the license received from the Cameras. All this information is then sent to the Smart Client for display and analysis.

The Smart ARH ANPR Cameras are equipped with an embedded processing system, and advanced ANPR engine powered by Carmen®. The dedicated quad-core 4x1.4GHz CPU provides exceptional speed and accuracy for vehicle identification, making the Smart ARH ANPR cameras a powerful tool for security and traffic management.

Main Benefits

- Cost effective solution
- User-friendly interface & easy configuration
- High Processing speed saves time and improve efficiency
- Accurate onboard ANPR with worldwide coverage
- Models available for multilane detection
- 100% vehicle detection rate with laser triggering
- Advanced data security through multi-layer encryption
- Image-based speed estimation available
- Clear imaging even under extreme outer conditions
- Full remote control and easy maintenance thanks to modular design
- Resistance to physical impact and weather
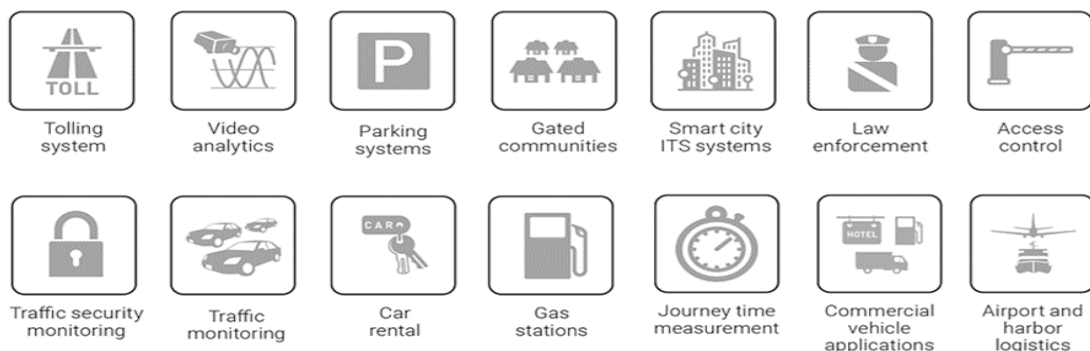- Seamless integration through API

ANPR Features

- Seamlessly integrated with XProtect Plus versions.
- Integrated with ARH Cameras (Einar, Vidar (smart 2hd...)).
- Accessed via the Smart Client interface.
- Integrated with XProtect Central Search feature for investigation.
- Integrated with Maps and alarms.
- English language support only.
- Vehicle and Plate color coding for faster search.
- Vehicle model, color, and category detection.
- Support MJPEG, H.264 and H.265 image formats.
- Detect reflective, non-reflective, personalized, and special interest plates.
- Can handle distorted plate images.
- Generate daily, weekly, and monthly reports and dashboards with customizable statistics and tailored dashboards.
- Implement advanced alerting with Regular expression matching.
- Configure customizable actions for license plate recognition events.
- Create and manage Blacklist and Whitelist
- Import watch lists in various formats (SQL file, Excel) on demand.
- Export data with one-click in Excel and PDF.
- Perform advanced searches by plate number, country, license type, date range, plate type, category, color, country, confidence level, plate image and camera snapshot.

ADAPTIVE RECOGNITION

ARH Edge Cameras Key Features

- Dedicated 4-core processing for ANPR
- Dual-optic system
- Models with built-in laser triggers available
- Plate Finder software trigger
- Global shutter sensors, optical and digital zoom, focus & iris lenses
- Secure data transfer via HTTPS
- Local storage with strong encryption
- Optional make and model recognition
- CPU core-based licensing for multithreading
- Optional make and model recognition
- Plate color recognition
- Global shutter sensors, optical and digital zoom, focus & iris lenses
- Light sensor for automated illumination- and imaging settings
- IK10 and IP67 certified, 100% aluminum cast design

Applications

Tolling system | Video analytics | Parking systems | Gated communities | Smart city ITS systems | Law enforcement | Access control

Traffic security monitoring | Traffic monitoring | Car rental | Gas stations | Journey time measurement | Commercial vehicle applications | Airport and harbor logistics

Business Value

6SS ANPR® offers significant business value by automating the tracking and management of billions of vehicles on roads worldwide, which is becoming increasingly challenging as the number grows. The solution can be applied to a range of industries and use cases, including traffic management, security, and access control. With ANPR, manual entry and associated errors are reduced, leading to increased security, revenue, and benefits, and reduced labor costs. Utilizing ANPR technology can streamline operations and drive efficiency for businesses in need of license plate recognition.