



ANPR, Automatic Number Plate Recognition, services a lot more applications than law enforcement of speed offenders alone. AVUTECH's artificial intelligence-based computer vision technology is a highly useful addition to car wash and truck wash service suppliers to increase efficiency and customer experience by improving throughput and minimizing delays.

The Gatekeeper, AVUTECH's industrial robust ANPR camera, recognizes number plates accurately which makes subscription washing easy, loyalty programs feasible and payment processes highly efficient. As soon as vehicles from registered customers drive up, queues and stoppages are marginal or even eliminated. After all, a loyal customer speed lane with a gate is a lot faster than any POS operator.

### **A chain conveyor operating at full capacity**

A chain conveyor at a car wash needs to wash vehicles constantly in order to achieve its full business potential. When customers wait for a car washing because a subscription or payment needs to be processed and checked it lowers efficiency and increases queue lengths at busy hours. Customer experience can be improved.

ANPR improves this process to perform at maximum possible speed. By using a Gatekeeper at the entrance of a carwash installation, regular customers having a valid subscription, wallet or instant payment facility can proceed immediately, even without human interference. Number plates and previously selected wash programs are stored in a customer database and are initiated in an instant.

### **The Gatekeeper, a sophisticated ANPR camera system**

The Gatekeeper is AVUTECH's embedded, intelligent ANPR camera. This unique and powerful all-in-one ANPR sensor system contains the latest technology in sensors, LED illumination, embedded processing units and interfaces.

As a result, the Gatekeeper can flawlessly read number plates in full daylight, low light conditions and the dark. The IP66/67 rating, the durable water and chemical resistant housing make sure this ANPR camera can function in every outdoor application, industrial harsh environment and most challenging weather conditions.



AVUTECH's embedded ANPR sensor  
the Gatekeeper

### **POS integrated or standalone automated car washing**

With the built-in AVUTECH computer vision platform CortexFramework, the Gatekeeper integrates with any variety of back-office, POS and any other payment or loyalty system.

Besides interfacing, the Gatekeeper can be equipped with an internally stored database and an I/O extender board to operate a car wash installation autonomously. As soon as a vehicle is properly positioned, the license plate is recognized and internally checked with the subscription or payment database, the I/O extender of the Gatekeeper starts the desired car wash program.

No matter which car wash machine is used, our interfaces make automated car washing with ANPR possible for every location and installation. The way a car wash operates, defines the choice of system integration. The Gatekeeper can either send the number plate information to the back-office system, or it can operate the car wash all by itself.



## PayByPlate

Next to passing signals to car wash installations with its I/O extender, or through the local network, the Gatekeeper can also handle direct debit financial transactions. By interfacing with secure payment systems, the Gatekeeper is able to make automated payments on behalf of the car owner or driver. At a carwash location, customers can use PayByPlate almost instantly and choose extras on an impulse. After a full exterior wash, they can choose to have the interior cleaned, the car polished or to use the self-service interior vacuum facility. ANPR registers the used services per number plate and payments are automatically made when leaving the facility.

## Availability for roll-over car wash services

Imagine the most ideal car wash user experience. Customers getting their car washed without having to prepay, without waiting in the queue and without leaving their vehicle to start the wash process. Using affordable AI in a carwash is now reality. It can be achieved by integrating AVUTEK's cost effective ANPR solution in a roll-over carwash facility. Innovation of a carwash with ANPR will result in an improved customer experience, attract new clients while maximizing turnover and profitability.



AVUTEK's I/O extender to automatically operate a car wash

## Have more customer-insights

ANPR at an automated car wash provides data on how often customers use a car wash service. Analyzing this data offers an overview of the quantity and frequency of wash services per number plate. Additional car data such as brand, model and the year the number plate was issued can be used to develop the full business potential by optimizing the planning of employees and by providing special offers or flat rates to loyal customers. Imagine to offer such loyalty in combination with services or products at a special discount. As the Gatekeeper effortlessly recognizes recurring customers, it is the best ANPR sensor to feed any loyalty program or system.

## AVUTEK

As a Dutch developer and manufacturer of ANPR sensors and system solutions, AVUTEK's expertise and knowledge have set a benchmark for quality, speed, accuracy, flexibility and ruggedness. The in-house developed AI computer vision hardware and software cooperate seamlessly to provide the best possible accuracy and speed in ANPR or other VCA processing. From embedded ANPR IoT sensors to a comprehensive computer vision system, AVUTEK provides nothing but the best.

For more information on AVUTEK's Gatekeeper or a separate brochure on CortexParking, please visit our website or contact our sales department:

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