

Product Overview

Real-time monitoring of multiple cameras at multiple sites

24x7 parking management

Ability to automatically allow entrance or exit to authorised personnel in real-time

Integrates with authorisation lists locally or centrally

Centrally managed with multiple 'fail-over' safeguards

Additional modules for broader security and to monitor car park usage

Suitable for all forms of barriers and control systems

Videalert Car Park Management is a software solution that monitors CCTV cameras placed at the entrances and exits of car parks to allow a fully automated access control system and also provides data for payment systems to make charges based upon stay times.

Car park management is traditionally done using technology at the point of entry or exit, usually an electronic key cards or similar. This can be a major problem for those organisations that have large numbers of vehicles waiting to transit, resulting in queues, wasted and unproductive time, and annoyance to other road users through the resulting congestion.

Videalert can replace this with a single or dual camera system per entrance/exit. By using intelligent analytics supplemented with ANPR software a permitted vehicle will be quickly recognised from its number-plate and a barrier or gate can be raised or lowered as required. The date and time of entrance and exit with video and still images of the vehicle can also be captured and stored, for later review or evidential purposes.

Ease of Use

VPM is designed to make implementation, integration and use as easy as possible:

- 'white' list databases shared across multiple servers allows smooth identification of all authorised vehicles and guarantees the functionality of barriers
- tens or hundreds of cameras can be set up and managed efficiently across multiple car parks from a single location
- PC servers automatically save images and optionally video of each vehicle in encrypted files for later reference if needed
- access can be time-controlled for restricted permission areas

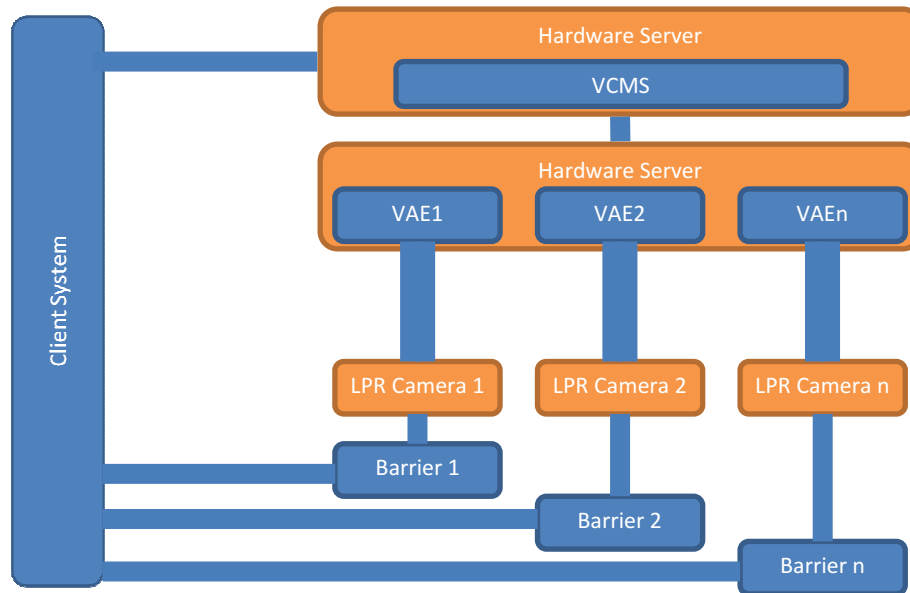
Videalert achieves this through its proprietary state-of-the-art Video Analytics engine running on as many PC servers as needed accessing data from analogue or digital cameras. By using a central server environment, safety and security is ensured, such that the system cannot be tampered with at the barrier location. IT management and integration is easy.

Key Features

- VPM provides 24/7 parking management
- Support for all leading barrier and access control systems such as Paxton Net2 and Gallagher Cardax
- Scalable solution ensuring smooth deployment across multiple sites.
- Entrance and exit information can be supplied quickly and easily to a variety of payment systems including mobile, permit and pre-pay
- Multiple barrier types supported
- Easy integration into existing systems
- Car park usage monitored with integrated counting module
- Hardware independent and in many cases capable of using existing cameras to capitalise on prior investment
- Alerts can be notified to external applications, such that VPM is easy to integrate with pre-existing technology investments
- VPM can be combined with parallel security modules to provide broader security, alerting operators to loiterers, unattended objects or other suspicious behaviour



System Architecture



Videalert Parking Management (VPM) utilises a multi-tier software architecture that allows information to flow and to trigger barriers through many different routes. This facilitates continuous functionality and provides robust fail-over recovery.

The client system will typically hold core information such as a permitted 'white-list' database of vehicles and may well retain that function as part of an administrative system.

VPM uses cameras to note the approach of a vehicle and to recognise the number plate of that vehicle. It will then match this number plate against the latest 'white list' which is held on the client system or within the Videalert solution.

Dependent upon the criteria selected by the client, the signal to allow access can be configured to be sent from either the Client System or directly by the Videalert solution. This provides the ability for the system to allow for power or other failures in the system.