Videalert Traffic Compliance

Unattended Bus Lane Enforcement - Rapid Deployment

Certified VCA Approved Device for Civil Traffic Enforcement

- Remote location enforcement through wireless communications
- Unique flexibility through cutting edge Video Analytics
- Infinitely scalable software solution
- Encrypted evidence
- Analogue or digital cameras
- Real-time monitoring of multiple cameras at multiple sites
- Unattended 24x7 enforcement
- Automatically generate penalty charge notices in real-time
- Future-proofed
- Easy remote set-up

Product Overview

Videalert's unattended solution identifies vehicles entering or using prohibited bus lanes, automatically recognises authorised vehicles using a client-generated 'white list', and creates a package of evidence for further review integrated with penalty charge notice issuing software.

Videalert Rapid Deployment

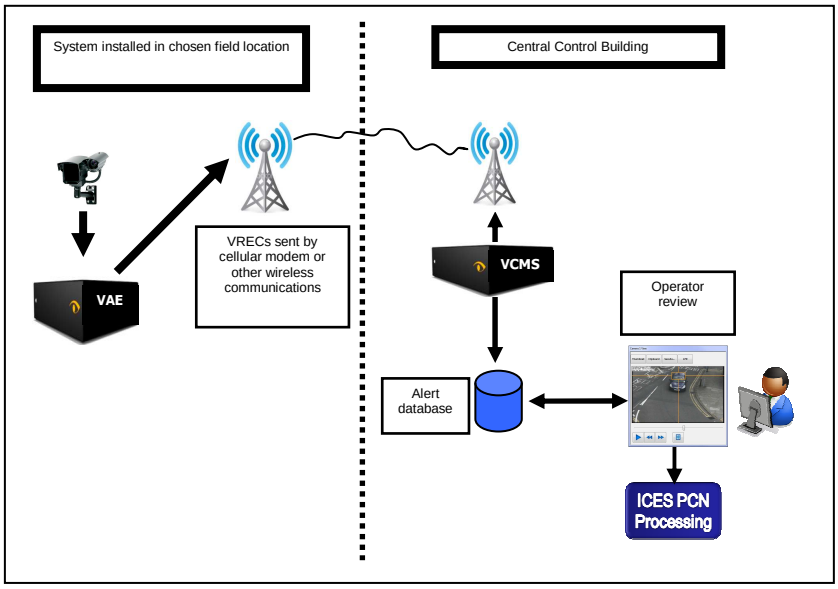
In City Centres fibre networks are usually available to connect enforcement cameras to central control rooms. But what does a local authority do if the location to be monitored does not have access to such a network? On the face of it, the solution is simple – a wireless network. In fact the speed of network affects the choice and set up. If the band-width is high, the solution is simply to substitute fibre for wireless (such as a point-to-point radio link); the system design stays the same as if connectivity was via fast fibre.

Should the band-width be restrictive to the extent that it is important to minimise transmission volumes, Videalert implements its Alert Engine (VAE) at the camera location in a ruggedized server with 3G or other transmission capability together with a receiving modem at the VCMS (Central Management System) in the central control building. Videalert currently works with two suppliers for this latter solution.

It is worth noting that 3G networks can be patchy even over short distances so this is not always an ideal solution even if, in theory, there should be no problems.

By implementing the VAE at the camera location, the system processes and decides which alerts are genuine thus minimising the amount of information transmitted only to be discarded on receipt.

Schematic System Outline



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Mesh Networks

Developed initially for the military, these networks provide a secure, high bandwidth network that can also be used for other communications purposes. Videalert is working with Cobham to bring this to the market in early 2011.

'Low-Fi' Implementation

There is one further option that shouldn't be discounted – this is the use of WiFi networks. Even if a network isn't available directly from the camera, a vehicle equipped with a transceiver could simply drive past the camera(s) and download all infringements on a daily or even weekly basis.

Software Flexibility

Videalert provides scalable, flexible, hardware independent unattended traffic management solutions. Its software-based bus lane enforcement application operates with multiple camera and ANPR providers and integrates with existing infrastructure investment such as cameras, back-office systems and PCN issuers.

Future Proofed

All Videalert Traffic Compliance (VTC) solutions operate through an extendable core software server such that further enforcement of traffic contraventions such as banned turns, yellow box-junction and one-way street offences can easily be added.

Investment in VTC means protection of past and prospective infrastructure, spend and the flexibility to extend the number and types of enforcement with little or no integration issues.

Key Features & Benefits

- Rapidly deployable unattended bus lane enforcement for remote locations.
- VTC provides 24/7 unattended enforcement or time/date-triggers.
- Customer works directly with the developer of the software providing input for faster development cycles and input into improvements.
- Simple remote trigger area set-up – easy camera deployment and reduced deployment costs.
- Scalable solution ensuring smooth deployment across multiple sites.
- VTC captures stills, ten seconds of video and ANPR plate shots in one easy-to-use interface for rapid evaluation of offence.
- Alerts can be notified to external applications, such that VTC is easy to integrate with pre-existing technology investments.
- VTC can handle multiple traffic offences such as illegal parking, banned turns, yellow-box junction.
- Additional traffic intelligence such as identification of persistent offenders or analysis of traffic volume.
- Delivers accurate reports on compliance impact of enforcement.