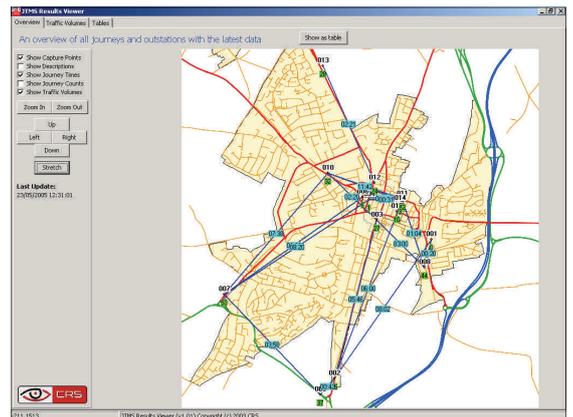




Vysionics RouteHawk

Vysionics RouteHawk is a comprehensive traffic Data processing tool for road network engineers, providing journey time data and origin/destination matrices from networks of ANPR cameras.

In order to properly understand the activity on a road network, traffic engineers need accurate journey time data and origin/destination matrices. RouteHawk provides the most comprehensive set of traffic information available, by processing data obtained from a network of Vysionics ANPR



RouteHawk consists of three major elements: a number of outstation ANPR cameras and processors; a data communication network based on TCP/IP protocols; and a data processing instation.

Each outstation camera and processor can be an integrated Skyhawk or a combination of IRIDIS cameras and Hawk Processors, depending on customer requirements. Cameras can be IR sensitive, incorporating pulsed IR illumination or full colour with visible illumination.

Data is fed back via a dedicated LAN or WAN via the Internet using ISDN, ADSL, GPRS, WiFi or WiMax connectivity. The instation features a PC or server to perform the data analysis.

As a vehicle passes each outstation location, it moves through the field of view of an ANPR camera. All images are processed to determine the

best images from which to extract the licence plate region and read the characters. Once read, the characters are associated with the precise image capture time, and entered into a results file, holding the characters, a unique identification number and capture time.

A periodic process examines the results file, extracts the entries and parcels up the information into packets for a configurable time interval. Registration characters can be automatically hashed during this process, if required to comply with any privacy regulations that may exist.

The data packets, which include system and health status, are then sent or collected on a scheduled basis.

The instation unpacks and analyses the ANPR data to produce journey times, O/D matrices and traffic volumetrics.

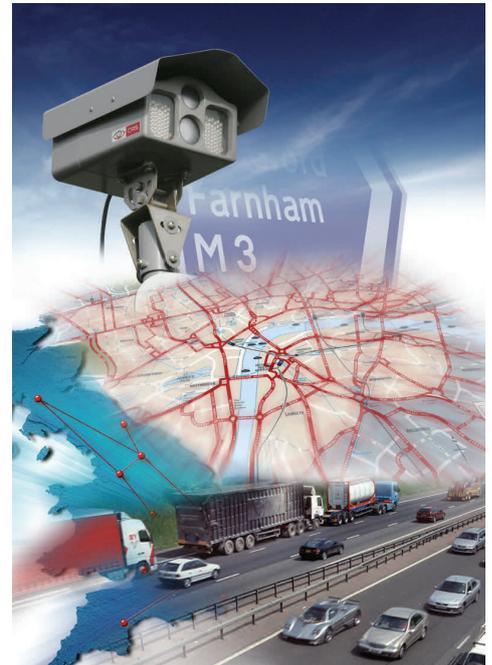
Routehawk Specification

Features

- Data Acceptance from 2 to 2000 cameras
- Support for over 1000 links or sections
- Installation can process over 1000 number plates per second
- Sophisticated data smoothing and outlier removal methods
- Output interfaces for UTM, SQL, XML Documents, Text CSV files
- Graphical feedback on roadside ANPR camera health
- ANPR Camera Software Configuration Management
- Fault Management System
- Robust and vandal-proof roadside equipment

Benefits

- Provides a comprehensive set of traffic information, including journey times, origin/destination matrices, volumetrics, and speed.
- Extensive real-time and historic analysis modes
- Microsoft Windows technology based to ensure long-term future-proof
- Scalable architecture for limitless expandability
- Comprehensive fault management system ensures maximum system availability
- Minimal roadside infrastructure requirement for simple installation
- Rich set of interfaces allows data export to meet specific needs
- JTMS can be accessed through a web browser allowing secure multi-user access from any location



Roadside Data Collection

Roadside data collection is carried out via either a SkyHawk integrated ANPR and Processor or by a combination of IRIDIS cameras and Hawk ANPR Processors, depending on the customer's requirements.

Outstation	
Cameras	High-resolution IR sensitive monochrome camera for ANPR
Lens	High Performance lens with narrow-bandpass infra-red filter
Illumination	Pulsed LED based Infra-red Illuminators
ANPR Processor	Vysionics industry-leading Hawk ANPR engine
Housing	Rugged and compact weatherproof enclosure with sun-shield

Communications	
Fixed Line services	ISDN, ADSL, SDSL
Mobile Networks	GPRS, UTM
LAN	100BaseT and Gigabit
Wireless	WiFi (802.11g), WiMax

Server Platform	
Operating System	Microsoft Windows 2003/2008 Server Operating Systems
Storage	SATA Disk array or RAID hard drive storage
Backup	CDR, DVDR, USB Hard Drive or NAS



RouteHawk procurement can be fast-tracked through the Government Procurement Service Framework, avoiding the need for costly and time consuming OJEU procurement procedures.



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Vysionics Intelligent Traffic Solutions reserves the right to make changes to the specification and improvements to the product and/or programs described herein at any time.