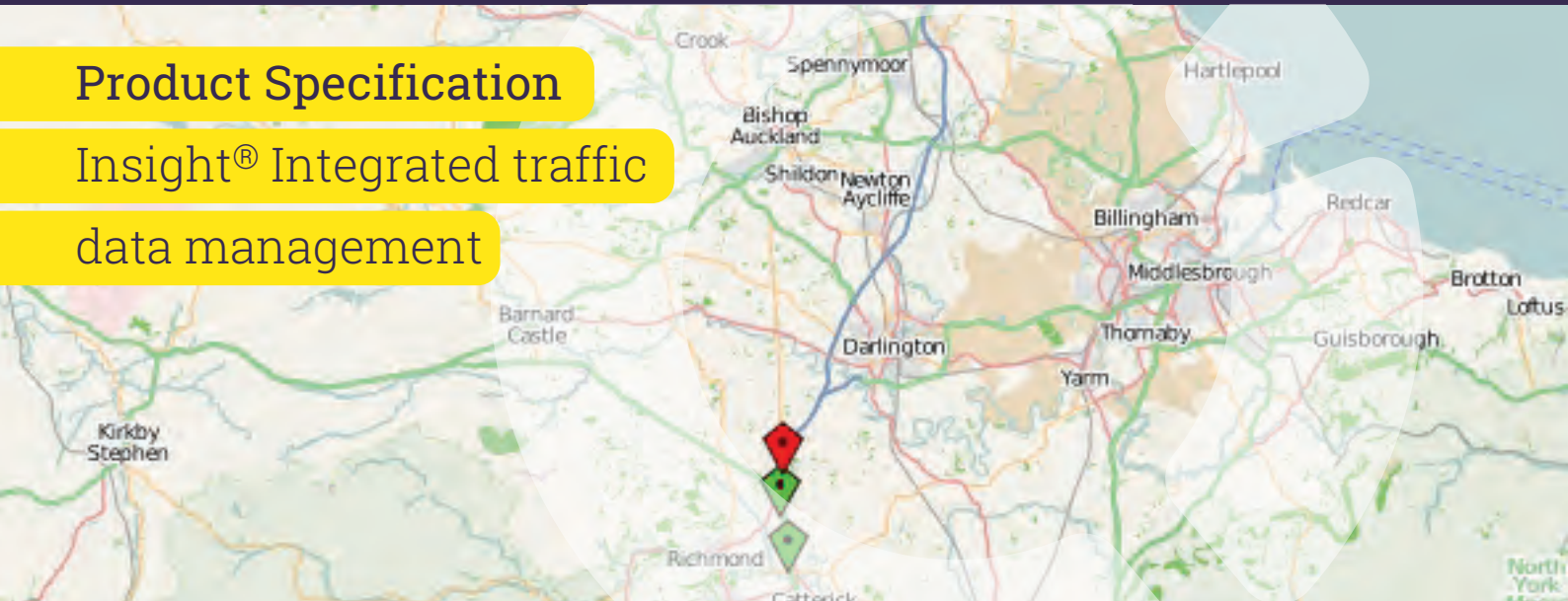


Product Specification

Insight® Integrated traffic data management



Insight® from Clearview Intelligence is an integrated traffic data management solution designed to support accurate and timely decision-making by ITS professionals.

With a suite of tools focused on optimising service delivery and the effective use of the road capacity, Insight eases the burden of remote data collection, device management, data processing, reporting and analysis.

One platform, multiple applications

The core Insight platform is built upon a scalable server based architecture available as a hosted application.

Users access Insight through a modern web browser interface providing a secure solution that is accessible and easily deployed. The interface can be configured to ensure that the workspace environment is optimised for the user's role such as an engineer or analyst.

The platform offers a set of powerful tools such as import/export, data feed wizard, report creator and custom dashboards that are available across a range of integrated applications.



The Insight tools are common across all applications meaning users only need to learn one interface and one set of functions. In addition, the platform's common database offers reporting and analysis combining data from different applications in a single report.

Applications are currently available for parking, journey time and count and classification.

Key Benefits

- Automated, efficient process for remote sensor data gathering
- Readily transforms data into intelligence without human intervention
- Personalised tailored view of captured intelligence enabling operators to act promptly
- Drives intelligence sharing with other users and third party systems
- Real-time access anywhere, anytime to inform decision making
- Provides instant answers to complex questions about network or asset performance
- Facilitates more efficient resource utilisation around deployment of traffic officers and maintenance engineers

Count and classify

Insight's Count and Classify application builds on the core platform by providing support for the Clearview Intelligence range of traffic counters and classifiers.

Parking

The Parking application utilises the same range of count and classify devices to support occupancy counting for Car Parks. Parking data is presented at a Site, Car Park and Zone level enabling users to monitor and analyse data on multiple levels. Daily and weekly occupancy graphs provide instant feedback easing the burden of managing capacity and flow.



Journey Time

The journey time application is designed to assist with the management of roadworks. In combination with the M830 Bluetooth detector the application will feed journey times through to roadside variable message signs to improve journey predictability.

The application will also generate alerts when the journey time exceeds a pre-defined value to highlight any potential hazards causing congestion within the roadworks to the operator.

Device Management

Support for Clearview Intelligence's M660, M665, M680 and M720 count classifiers

Fault notification via web, e-mail and smartphone messaging services

Remote download and upload of configuration files

System and user defined filters (faults, location, type, etc.)

Device diagnostic reports

GSM, GPRS and wired Ethernet devices supported

Device map overlay and status indicators

Data processing

GSM Dial-Up with manual and scheduled data collection

GPRS and wired Ethernet data collection

Support for Interval, IVD and VBV data formats

Import GR Format

Export CSV,XLS,PDF,JSON and XML data

Data management facilities to edit and patch data with restore capability

Set of data quality tools to identify missing data or unusual values.

Reporting and analysis

Powerful but easy to use report creator

Comprehensive set of count and classify reports included and modifiable

Point and click graph creation with multiple theme options

Pre-set formulas for analysis such as the 85th percentile calculation

Switch between Graph and Table format with one click

Parking application reports for occupancy information designed to work at multiple tiers (Site, Car Park, Zones)

Export to PDF and Excel

Reports can be used as data feeds for display on websites

Graphical views of daily and weekly parking occupancy

Data Processing

Insight collects data via GSM, GPRS and wired Ethernet communications. The integrated server based dial-up application provides for user defined schedules, manual dial-up, status updates and event logs.

As data is received a number of control measures can be applied to verify the quality and validity of the data. Data validation will compare incoming data against historical records highlighting any unusual values.

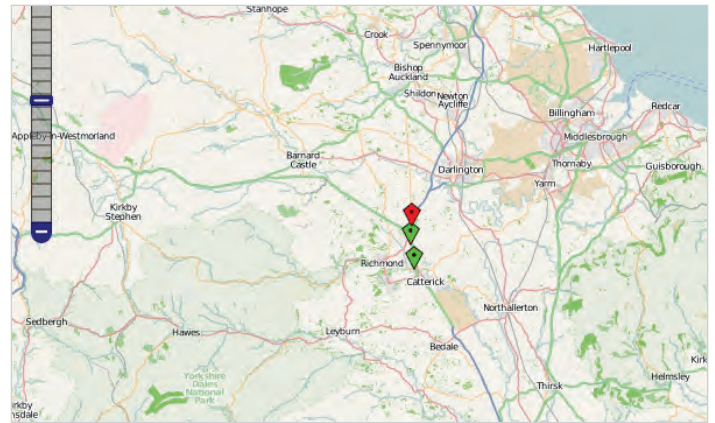
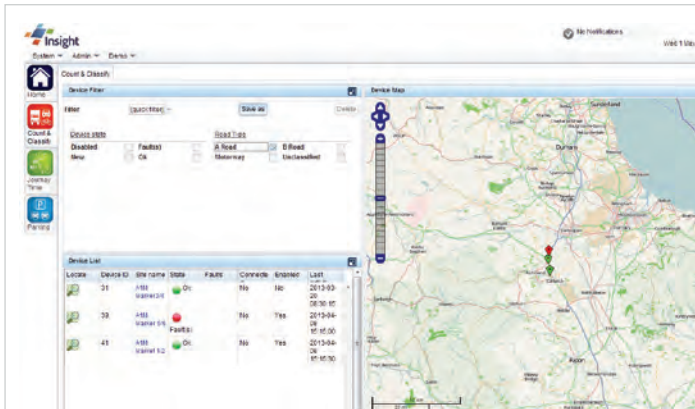
Insight has been designed to enable users to analyse and report on their data from multiple sources in a single environment. It offers import and export in the industry standard formats of CSV (Comma Separated Values), XML (Extensible Markup Language), PDF and Excel.

Unparalleled real-time business intelligence direct from the roadside

Custom dashboards

Custom dashboards provide a quick and easy method of delivering information allowing informed decisions to be made with up to date and relevant data. Reports can be presented on screen where the user can easily export, print, or change allowable parameters (date, device, time).

Reports can also be configured so that the user is always presented with the most up to date information or for a set time period meaning there is no longer the need to waste time exporting, formatting and emailing reports.



Device management

Manage and monitor your roadside devices with ease using our secure web based interface. Insight supports the full range of Clearview Intelligence M600 and M700 series of count classifiers.

Comprehensive filtering options enable you to quickly and easily see the information you need. Filters can be applied based on device characteristics or users can create their own filters to group devices into clusters such as permanent or temporary counters, road speed limits or geographical areas. Filters can be saved and multiple filters can be applied making it easier to manage devices and focus on specific areas.

Filters also affect the embedded geographical maps where device locations are overlaid on to the maps showing current device status and fault indicators.

An extensive audit trail and fault management system ensures that any issues with devices can be notified through on screen indicators, e-mail or via smartphone messaging to ensure that faults are dealt with promptly.



Key Features

- Intuitive wizard driven report creation tool
- Integrated data collection utility offering real-time, scheduled and manual collections
- Ability to data share with other systems via JSON & XML data feeds
- Secure, responsive web based user interface with real-time data analysis
- Highly customisable, user definable dashboard portal
- An extensive range of graphical contextual viewing tools
- Supports export of XML, CSV, PDF and Excel data and reports
- Powerful suite of remote device network management tools
- Interactive map facility for visual monitoring of device network and fault management

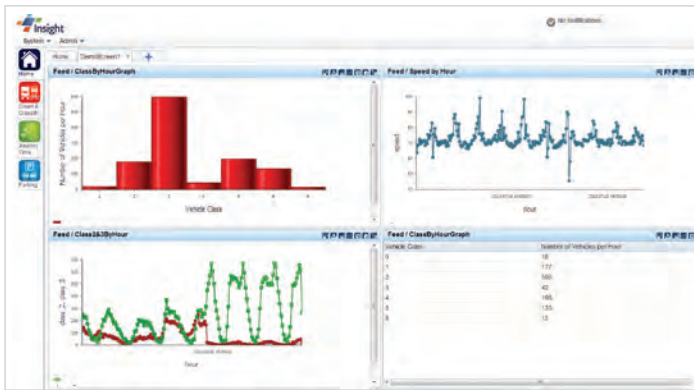


Reporting and analysis

In keeping with Insight's focus on ease of use and flexibility, the solution includes a set of the most commonly used count and classification reports.

Reports can be modified or new ones created with the user friendly, yet powerful "report wizard".

Many elements of report writing involve carrying out the same repetitive tasks with just a few minor changes. Calculations such as the 85th Percentile using both Interval and VBV data can be added easily to aid in analysing the data.



Web browser platform independent

Insight has been designed to comply with the latest standards of cross browser compatibility and as such, the system will work across many different web browser platforms including:

- Firefox 5 or above
- Safari 5 or above
- Chrome 13 or above
- IE 9 or above
- Opera 12 or above

The benefits of insight

- Easy to use, powerful report wizard means novice users can create simple reports with ease and access the information they need on demand
- Web based customisable dashboards provide a secure method to deliver both historical and real-time information direct to the desktop empowering users to make informed decisions
- Extensive fault alerts provide feedback on roadside devices enabling both pro-active and re-active responses to prevent or minimise data loss
- Customisable interface optimises the workspace for the user's role providing a more intuitive workflow and providing quick and easy access to common features and functions

Longer term, this platform will support a whole range of new sources of data and empower users to explore data in exciting new ways that builds new insights:

- Additional applications and datasets such as parking bay occupancy monitoring, variable message sign (VMS) support and automatic number plate recognition (ANPR)
- Cross analyses of these disparate datasets to understand possible correlations, enable scenario modelling and investigation of possible cause and effect relationships
- The ability to bring in data from other sources including unstructured data from social media sources such as Twitter and utilise big data analytics to make sense out of seemingly random and disparate pieces of data
- Two way feeds of data from cooperative vehicle to infrastructure systems and larger integrated smart cities management systems, providing real-time insight and decision support tools to the public and those responsible for managing city infrastructure of the future

