Roadway Sensors

Express

[Video Based Data Measurement and Collection Solution]

Vantage® Express is a simple and cost-effective data collection solution consisting of a Vantage Edge2 video detection processor module and camera that collects traffic statistics. The statistics are stored within the Edge2 processor's non-volatile memory and retrieved using the Vantage Remote Access Software (VRAS).

Alternatively, the solution can be integrated into a customer's traffic management operation and the host application can extract the statistics directly and process the information according to the customer's specific requirements.

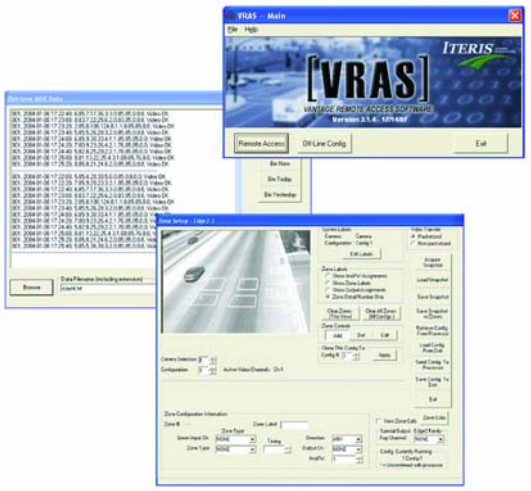
Statistics are retrieved using the Edge2 processor module's RS-232 serial port that can be connected to a PSTN modem, terminal server for local area network access or over wireless GPRS or GSM modem connections. The statistics recorded are placed in formatted records contained in ASCII text that is easily imported into a variety of reporting functions and applications.

The statistics gathered include:

- Vehicle counts (per lane)
- Average vehicle speeds (mph or kph) per lane
- Average headway per lane
- Average gap per lane
- Vehicle classification by length per lane (3 user-definable)
- Lane occupancy
- Incident detection and stopped vehicle alarm flag
- Low visibility alarm flag
- User-definable data collection interval period from 20 seconds to one hour

Installation and Configuration

The Edge2 processor module is pre-loaded with the Express firmware that provides additional data collection functions. Typically, the camera is mounted rear-facing with the traffic receding in the camera view. The camera should be mounted over the lanes being monitored and as high as possible (10 meters or greater is ideal). The Edge2 processor has 2MB memory for data collection and can hold data for many weeks before the oldest record is overwritten by the newest data.



Features

- Alternative to in-pavement inductive loop
- Easy to use interface
- Serial or contact closure output
- 2MB storage for data collection (60,000 records)
- Remote data retrieval via RS-232 serial port
- Remote viewing of camera with VRAS
- Remote configuration using VRAS
- Data in formatted ASCII text for easy importation to Excel and other reporting applications

Benefits

- Simple to use interface reduces training time and improves productivity levels.
- Can be used to record traffic statistics from video playback thus reducing actual installation costs on site.
- Expandable and modular system allows for opti mal configuration that helps to reduce cost while preserving room for incremental growth.

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