

SMART CCTV

Re-Locatable ANPR journey time system

Smart CCTV has developed a temporary journey time system designed to facilitate traffic surveys and ramp monitoring over the short to medium time survey period (1 – 30 days).



The system is based around two smart ANPR cameras (one for each lane) which outputs the VRN, camera ID and the time and date to millisecond accuracy as a standard .csv file format. This allows the data to be manipulated in a wide range of software programs from standard spreadsheets like Excel through specific journey time solutions to large databases like Oracle.

The data is transmitted via a GPRS mobile telephony link at predetermined times and includes the camera ID, VRN, an OCR score to alert if the camera isn't reliably reading number plates and the direction the traffic was flowing. Where the OCR score drops below a predetermined threshold the data, and potentially a .jpg image, is put into a "no read file". This allows human intervention to review the number plate and collates the total traffic flow.

The system has built in intelligence that will alert if: no plates have not been seen in a period of time, low battery, motion trigger has been activated, problems sending the data to an FTP server or problems storing to the local storage.

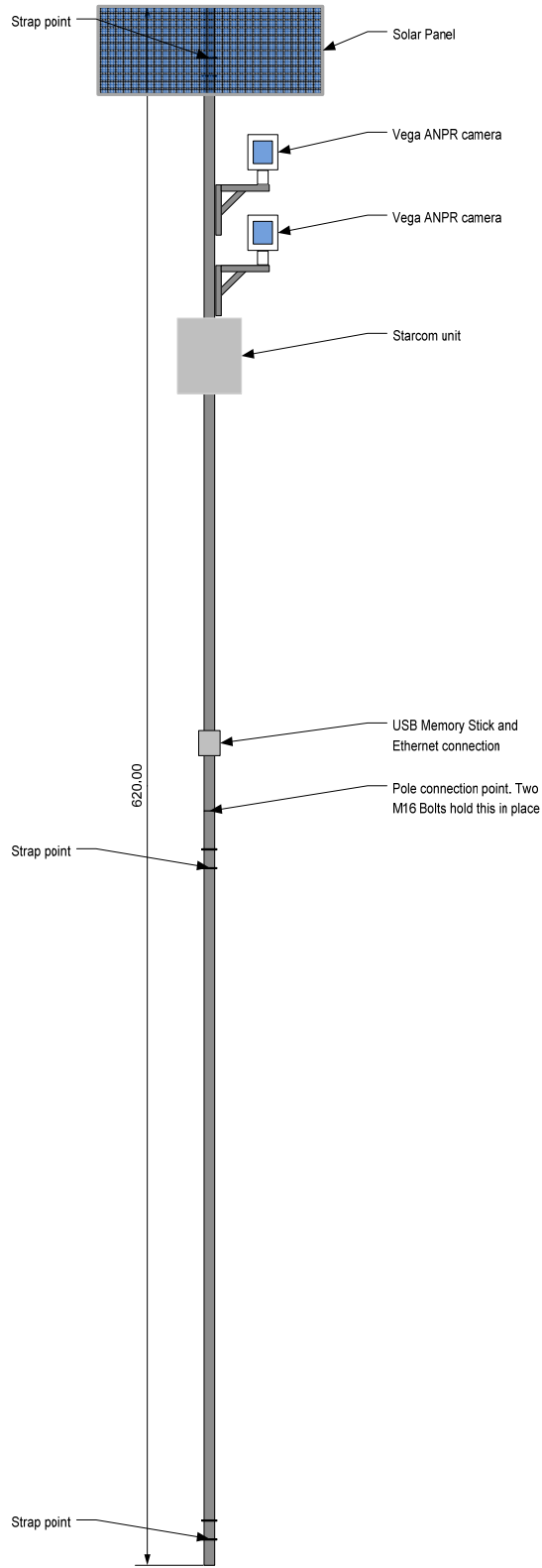
Camera	VRN	Time	OCR	DIRECTION
Oakwood	N637GFA	2009-03-16T15:03:51.572	89	APPROACH
Oakwood	R91ACL	2009-03-16T15:03:58.093	79	APPROACH
Oakwood	HN05UZG	2009-03-16T15:04:07.402	70	APPROACH
Oakwood	R456CGP	2009-03-16T15:04:17.492	81	APPROACH

Example output data

The system is designed to be attached via webbing straps to lamp columns so that the columns are not affected. The power is provided by a 220 A/hour battery which is supported by an 85W solar panel. During the summer months this solar power can support the use of the system on a 12 hour per day / 5 days per week basis without the need to change batteries. However during periods of poor weather and at other times of the year the batteries will need changing every four days.

A USB memory stick also has the data stored on it so that survey data can be retrieved if communications is lost.

The battery is attached via an armoured cable at ground level; various heights can be accommodated depending on the location.



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