

Project News

MTS provide the ideal solution for M62 managed motorway



MTS ITS temporary solution for M62



M62 Managed Motorway Project - 2012

The M62 suffers daily from heavy congestion which is set to worsen in the future, so it was the Highways Agency aim to relieve congestion and improve journey time reliability by implementing a Managed Motorways solution, which will include the use of hard shoulder running within the existing Highway boundary.

In the course of the motorways upgrade to a 'managed' system, the communication lines controlling various assets such as the large permanent VMS and MIDAS inductive loop system, would not be available. In turn the now highly established practice of queue detection and warning for the travelling public would be inoperable. The motorway would continue to operate in most cases as a 3-4 lane motorway, but with narrow lanes and reduced speed limits.

Portable Intelligent Transportation Systems

Providing a layer of safety for a significant number of road workers operating on the hard shoulder area throughout peak times on a live motorway, a temporary and portable solution which could provide live dynamic queue detection data to large portable VMS units, without the need for invasive traffic detection was used throughout the duration of the project.

As the project was completed in sections, a portable solution allowed the queue detection trailers and pVMS to be moved to the areas under construction quickly and effectively.

The Results

The MTS Advantage series of solar portable VMS comply with current EU wide EN12966-1:2005 requirements and have been tested independently by BSI to ensure compliance with the standard. With over 2400 LEDs per m the 42100 unit is the largest pVMS on the market at this resolution, and provided the very best character formation possible for the portable signs in this project.

The HD Smart Sensor with dual fire radar device mounted on the MTS T-25 remote sensor trailer measured traffic safely from the side of the road. The sensor provided live traffic data to the portable Queue Detection unit (QDS1000), which in turn remotely and wirelessly programmed the pVMS to display safety queue messages, 24 hours a day, 365 days per year.

Equipment Used

- T-25 sensor trailers
- SSHHD radar sensors
- QDS1000 queue detection servers
- Advantage 42100 pVMS

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