

Siemens, in partnership with Jenoptik (formerly Robot Visual Systems), is introducing a new concept in 24/7 remote fixed safety camera enforcement.

Jenoptik's latest radar based fixed speed enforcement system, coupled with Siemens' financial stability and position as UK market leader in traffic control, provides customers with a complete solution based on industry leading technology and services.

Enforcement agencies are operating with significantly reduced budgets and resources, existing fixed speed technology is being rationalised and camera operators are focused on mobile enforcement. Whilst highly visible, mobile enforcement is not always appropriate at certain high priority or safety critical sites. Therefore to maintain a mixed technology strategy and continue the high levels of safety across priority sites, a new fixed speed solution is required that addresses the challenges of reduced operational resources and funding.

Multaradar provides complete 24/7 remote connectivity backed up by a comprehensive service package. Once installed and commissioned by Siemens, no further site visits are required by the operator, ensuring that valuable resource can be focused on mobile enforcement. Violation records are automatically sent to the central ticket office and integrated with existing back-office processing systems.

In recognition of the new budget restrictions, Siemens now offers this combined technology and service package via innovative payment options tailored to meet individual customer needs – supporting the shift from capital to revenue funded purchase. Multaradar can provide enforcement at a significantly lower cost per offence than mobile options, where ongoing operational resources and costs are necessary.

The MultaRadar solution has been designed and tested to the Home Office requirements for Speed Enforcement Devices, ensuring a high level of performance and fulfilling the stringent standards for security and independent secondary speed checks.

MultaRadar deploys Robot's latest 11 mega pixels digital camera, enabling configuration for either driver recognition, using front photography, or as a direct replacement for existing rear photography. The system can be used in either remote or local mode, with connection to the back-office through wired or wireless communication.



- 24/7 remote connectivity – simple and low cost enforcement
- No separate flash pole required – increased site flexibility and reduced maintenance
- Single server supports unlimited number of cameras – reduced back-office costs
- New post design – reduced likelihood of vandalism
- High resolution front photography – to provide driver recognition
- Comprehensive service options – rapid deployment and increased system availability

“Siemens flexible payment solutions are ideal for funding enforcement at priority fixed speed sites where 24/7 remote operation ensures a low cost per offence”

MultaRadar S780

Effective 24/7 remote fixed speed enforcement at a low cost per-offence

Traffic Solutions

SIEMENS

Siemens as a long-term partner

Siemens understands that when purchasing new technology, installation, servicing and training are equally as important as selecting the right technology. Siemens has used its experience to develop appropriate servicing packages, tailored to meet individual customer needs and budgets. Every MultaRadar is supplied ready for rapid deployment, including:

- Complete site installation
- Camera and installation commissioning
- Full integration to central ticket office systems
- Training and accreditation packages
- Comprehensive maintenance and calibration services

System components and functionalities

Remote control: Uses a network connection to download the offence data to the Evidence Retrieval and Control Unit (ERCU), hosted at the central ticket office.

Local control: Uses a WORM drive for immediate and secure local recording of the offence evidence data. The WORM medium (DVD) must be manually transferred to the central ticket office for offence viewing and further processing.

Both versions implement a high standard of security in accordance with UK Home Office requirements. The MultaRadar automatically generates and uses one encryption and one authentication key for each offence. Encryption ensures total confidentiality of offence data. Protection against unauthorised access is guaranteed at all times.

MultaRadar consist of four main components:

Industry leading speed measurement and secondary verification: The measurement system consists of a radar sensor and a single frame camera. When configured for front photography, the system includes an additional sequence camera for secondary check purposes. Automatic monitoring of up to two lanes is possible in all weather and daylight conditions. Once the radar detects a vehicle exceeding a given speed limit, the camera is triggered to take a picture.

Latest camera technology: The system is configured with a SmartCamera III single frame camera that provides a resolution of 11 mega pixels with a dynamic of 14 bits per pixel for superior quality of the offence picture (see adjacent image). The light source (a visible flash for the rear photography option and an infrared flash for the front photography option), ensures the required clarity of the pictures.

Full system monitoring with on-site control unit: The Surveillance and Control Unit (TraffiNet Control Box) keeps the system under constant surveillance. It monitors all parameters that are essential for keeping the MultaRadar running properly. It detects unauthorized access attempts and ensures the security of the system and data.

Advanced system handling: The System Handling Unit (SHU) controls all functions relating to data handling, security, storage, user access and communication. User access is strictly controlled and restricted to authorised users. The SHU is easily controlled by a dedicated, user friendly Graphical User Interface (GUI).



Example: front violation image

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