

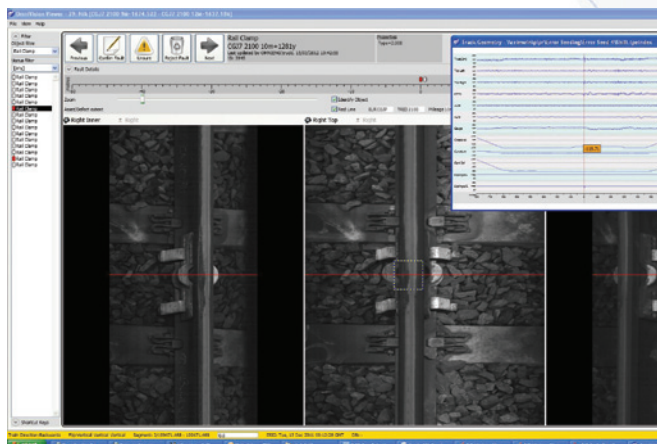


As the UK rail industry strives to operate a 24/7 railway, it is imperative that systems are created to enable the operator to assess and maintain the network without impacting on the level of service provided. To support this desire, Omnicom Engineering is proud to present its award-winning system, OmniVision.

OmniVision represents a technological revolution in railway inspection by combining high resolution cameras and cutting-edge pattern recognition software to automate the detection of track defects. The system improves both the quality and safety of the process whilst saving huge amounts of time and money. It also means that tracks do not have to be closed whilst they are being inspected.

#### The key benefits of the system are:

- Improvement in safety management by reducing frequency of on-track inspections.
- Digital record of existing track infrastructure.
- Qualitative and auditable assessment of the infrastructure.
- Build up a comprehensive knowledge database of track defects and their location.
- Better management information on the status and condition of the infrastructure network.



OmniVision is composed of a real time image acquisition module and an offline post-processing system. The acquisition system has evolved with available technology to acquire high resolution areascan, linescan and laser images and can operate at speeds greater than 160Km/h. The acquisition system is modular, which provides flexibility both in terms of system configuration and installation requirements. The post-processing system uses pattern recognition software to identify the location of rail defects or assets. Business logic can also be implemented, enabling clients to specify the priority given to an individual or collection of defects.

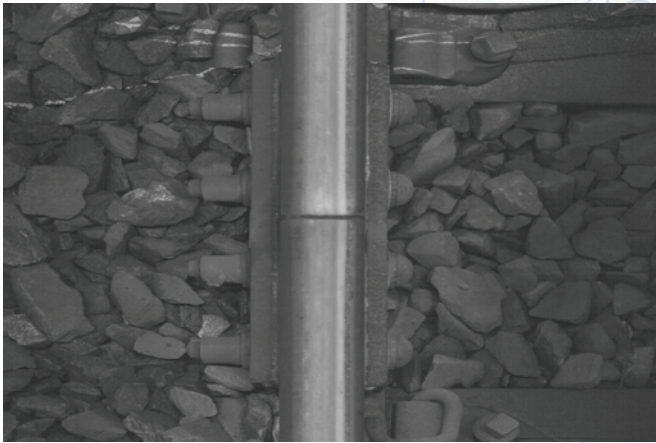


Through the OmniVision Viewer application, inspectors are presented with a breakdown of the assets and defects along with the associated images. This allows them to navigate through, review and prioritise defects. On completion, the system will generate industry-specific inspection reports for distribution to senior managers or colleagues.

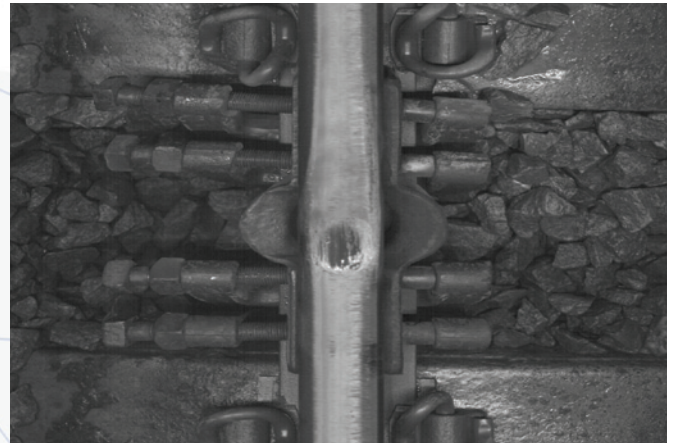
# OMNIVISION®

## Features:

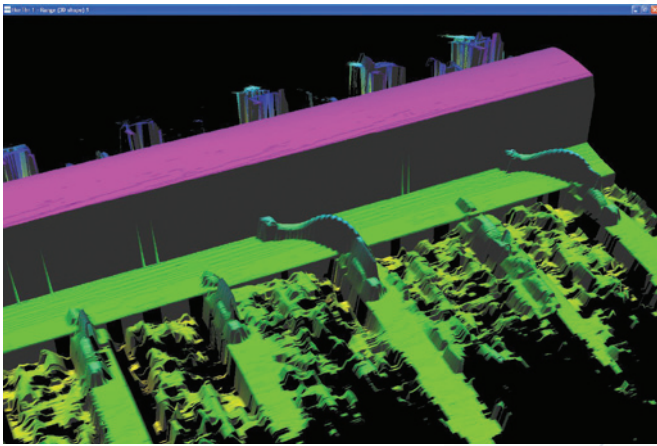
- Multiple high-speed linescan cameras capture data at speeds in excess of 160Km/h.
- Thermal cameras record the temperature of the rail.
- Integration with other measuring systems such as geometry and laser profiling.
- Rugged and reliable on-train storage.
- All data is accurately positioned using OmniRTPS®.
- Data can be integrated with third party systems.



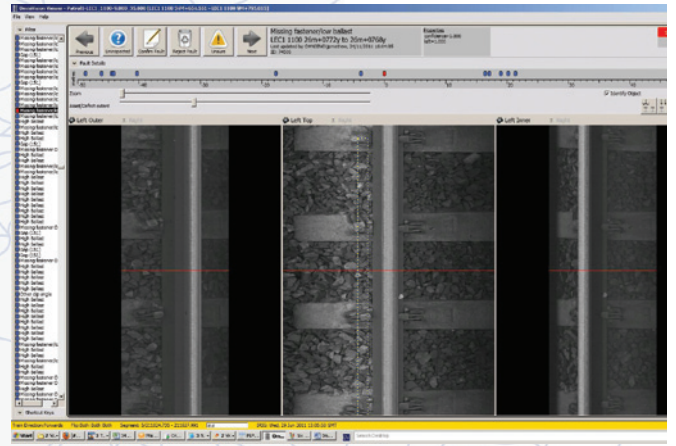
RAIL JOINT



RAIL CLAMP



PROFILE IMAGE



MISSING FASTENER

In 2012 OmniVision has won The Network Rail Partnership Award for Innovation, a Network Rail Partnership high commendation for Safety and the Railway Industry Innovation Award for Engineering and Safety.

For further information on our product range, please contact Omnicom Engineering Limited

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AGENT DETAILS