



Intelligent Traffic Solutions (ITS)

Our Services

ITS delivers advanced technology to your road networks to increase safety sustainably

ITS is a combination of information technology and telecommunications, providing real-time updates during roadworks and throughout the lifecycle of the asset. Our Intelligent Traffic Solutions (ITS) will help you deliver schemes with efficiency, accuracy, and safety.

Through our expertise in the temporary roadworks sector, we've developed various partnerships to deliver a portfolio of industry leading products to support our clients with technology that will guarantee improved safety for road users and their workforce.

Our Services

CCTV

CCTV to monitor vehicle traffic, incidents and other events through roadworks.

Solar Units

Providing seamless integration with our ITS solutions to deliver net zero schemes.



Reduce Costs



Enhance Safety



Lower Carbon

TASCAR

Temporary Automatic Speed Cameras at Roadworks (TASCAR) to enforce mandatory speed limits through roadworks.

Stranded Vehicle Detection

Stranded Vehicle Detection within roadworks to send out immediate alerts when a vehicle abruptly becomes stationary.

Rapid ANPR Mobile Cameras

ANPR mobile cameras monitor lanes, congestion, and driver behaviour.

Air Quality Monitor

ZephyrS Air Quality Sensors to monitor air pollution, temperature, and pressure to track and record pollution.





TASCAR

Manage the flow of traffic to keep road-users and your workforce safe.

If you want to improve road safety and protect your workforce, Temporary Automatic Speed Cameras at Roadworks, or TASCAR, will be instrumental in encouraging a steadier flow of traffic.

We are the exclusive partner of Yunex Traffic, delivering their SafeZone Temporary Average Speed Camera System. Temporary Automatic Speed Cameras at Roadworks (TASCAR) is an intelligent highway technology used to enforce mandatory speed limits by measuring distance over time to ensure your road networks remain safe for all road users. TASCAR Speed Cameras effectively improves road safety, protecting drivers and workers.

The Sicore II ANPR camera is the heart of TASCAR's SafeZone technology; it offers unrivalled accuracy and image quality when monitoring speed limits. The SafeZone Average Speed Camera system captures and ensures definitive average driver speeds, all recorded regardless of lane use or traffic volume. This allows your traffic management business to better understand road-user habits along specific routes and proactively implement road-safety systems.

Automated Roadworks Radar

Should a vehicle stop abruptly within roadworks along crucial motorways or A-roads, it's important to have safe and proactive measures in place to maintain road user safety.

Working together WJ Group and SmartMicro have brought their sensor and technology solution to the temporary highways safety market, enabling stopped vehicles to be spotted within 30 seconds within roadworks. Consequently, increasing the rate of response and the overall safety of road users and operatives in roadworks. This quick response enables quick decisions on lane closures or speed limit alterations.

Our automated roadworks radar can monitor an entire width of a motorway, including the hard-shoulder, emergency areas and lane by lane across both directions. If a driver stops abruptly on your network, stopped vehicle detection technology will alert you quickly, day or night and no matter the weather conditions.



CCTV

Keeping road users and workers safe through roadworks is a critical task for any organisation undertaking work on the UK road network, our state-of-the-art roadworks CCTV system takes safety and security on the UK road network to new heights. During ongoing maintenance and enhancement efforts, roads within the strategic network often find themselves stripped of customary safety features like hard shoulders and refuge areas. Amidst this dynamic landscape of moving parts, workers and equipment face the ever-present danger of unexpected vehicle incursions and on-site accidents. In these challenging conditions, comprehensive surveillance becomes not just a precaution, but an absolute necessity for swift, effective response to incidents - ensuring the safety of every individual within the roadwork zone.

Our sophisticated CCTV system, specifically designed for roadworks, is your ultimate line of defence, safeguarding road users and workers alike. Leveraging cutting-edge technology, our CCTV camera systems deliver unbeatable precision and extensive coverage. Equipped with high-speed pan-tilt-zoom functionalities and infra-red capabilities optimised for long-range viewing, these cameras provide crystal-clear HDTV 1080p footage with an impressive 32x optical zoom.

Complementing the state-of-the-art camera system is our secure communication platform. This facilitates uninterrupted access to the CCTV system from any device or location, giving you a complete view of your operations. This constant vigilance ensures optimal safety and efficiency, allowing for proactive management of potential risks and immediate response to any unforeseen events.

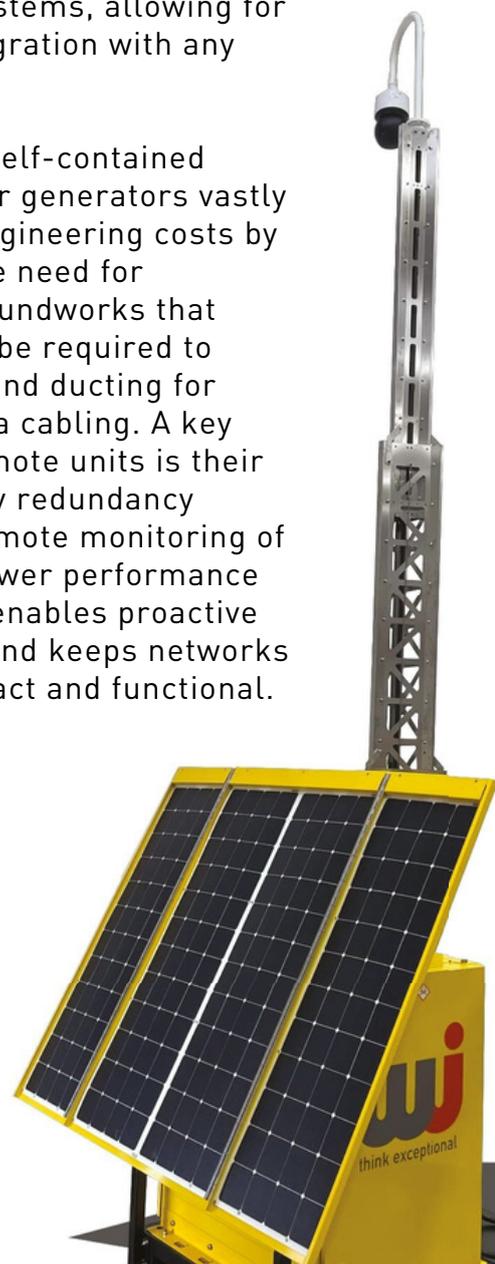
Solar Units

Providing the highways industry with safety solutions powered by renewable energy

We understand the importance of seeking new, innovative methods to reduce our carbon footprint. As a business, we take sustainability and carbon reduction very seriously. Working closely with National Highways and local authorities, we are actively creating solutions that will reduce carbon output and improve the safety of our communities.

The system is open source and integrates with the latest third-party hardware, software, PID, and RADAR systems, allowing for seamless integration with any solution.

Moreover, as self-contained units, our solar generators vastly reduce civil engineering costs by eliminating the need for significant groundworks that would usually be required to install masts and ducting for power and data cabling. A key feature for remote units is their built-in battery redundancy system and remote monitoring of battery and power performance status, which enables proactive maintenance and keeps networks of systems intact and functional.



Rapid ANPR Mobile Cameras

We provide Automatic Number Plate Recognition (ANPR) cameras, alongside our solar trailers to enable a rapid and reliable rollout of this innovative safety solution to implement traffic calming measures.

The solutions consists of the Sicore II camera that uses high-definition image sensors to produce quality images of number plates on vehicles travelling at a variety of speeds. Thanks to the cameras large depth of field, the ANPR camera can identify any number plate in any weather conditions, day or night. The WJ solar trailers can be deployed to a variety of locations and left in situ to provide power for the camera system.

To deter and eliminate reckless driving, the ANPR cameras have a wide coverage, spanning three-lanes of traffic. This means fewer cameras will be needed, even across busy stretches of road where traffic flow is constant.

Stopping Queue Jumpers

WJ Group provided Sicore II ANPR cameras to a project in Northampton, UK. The ambition was to monitor driver behaviour and deter speeding on the approach to a roundabout. By installing two cameras, vehicle number plates of queue jumpers were identified and repeat offenders were sent letters regarding their dangerous behaviour.

The result of this showed a 95% reduction in offences, 35% fewer queue jumpers and a steady decrease month on month of drivers using wrong lanes. Overall, driver, cyclist and pedestrian safety was improved.

Earth Sense Air Quality Monitor

Monitoring air pollution to improve community wellbeing .



We work with Yunex Traffic and EarthSense to provide ZephyrS Air Quality Sensors to the highways industry. These can easily be fitted to any existing infrastructure where there is a pole.

By monitoring pollution across established infrastructure, we're able to monitor current and potential hot spots to review vehicle emissions, traffic movements and road surfaces. Should an air quality problem arise, we can work together and actively seek to resolve this to reduce pollution and by extension, improve community wellbeing.

