Tether and Sunstone combine forces to deliver Highways innovation

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Solid Secure Straightforward

Facts and figures

Around 2.5 million roadworks are carried out in England each year, causing disruption and congestion, as well 175 incidents per month of drivers going through cones and into roadworks sites. The desire is always to carry out roadworks quickly, but as safely and effectively as possible.

Customer

Balfour Beatty

Customer requirements:

Roadworks surveillance on a remote section of the A2 in Kent, with images relayed back to a control room - monitoring of the cameras, PTZ function able to investigate an incident, best possible image quality day and night, units 500m apart.

Customer requirements:

- Legal duty to keep employees safe
- Be alerted and respond to highways incidents quickly
- Avoid expense and time involved to install and reposition hardwired surveillance systems

Solution providers challenges

- Isolated location of highways roadworks
- Absence of high bandwidth or power
- Finding a low-cost solution

The Solution

Solar-powered IP CCTV System (SICS), Sunstone's rapidly deployable standalone mobile roadworks surveillance units, equipped with long range PTZ cameras and 3G/4G data transfer.

Tether's leading edge security platform acting as the communications enabler and user interface for the SICS, providing the 'tethering' of all cameras along the stretch onto one dashboard, delivering live 24/7 HD CCTV video streaming for easy camera operation.
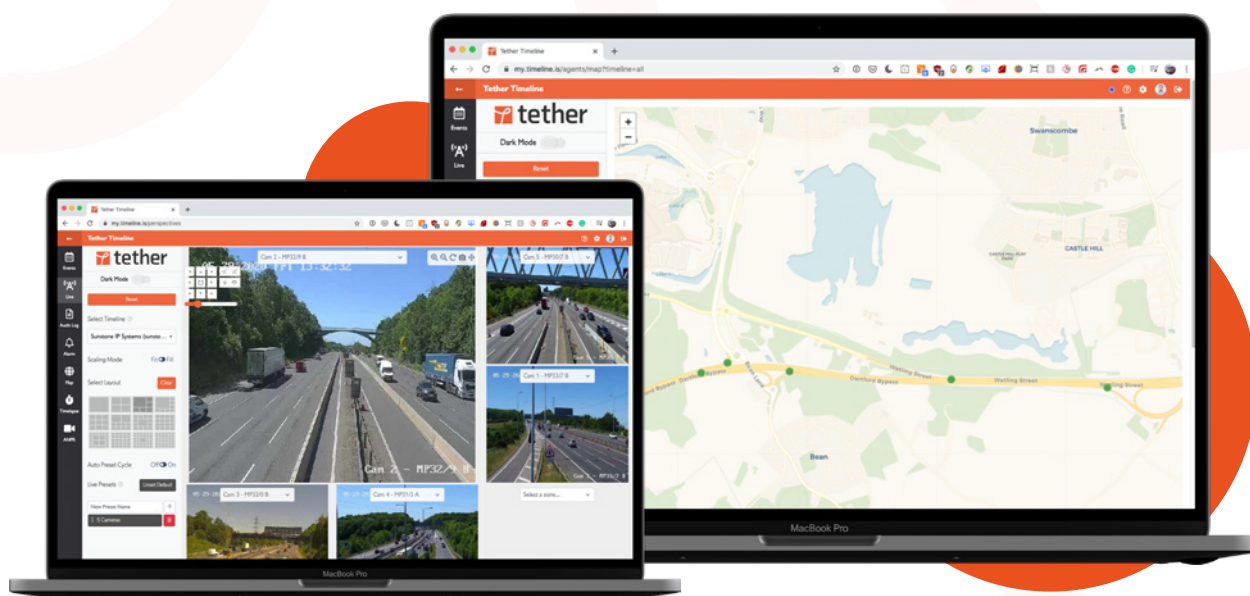
Tether's built-in analytics to alert the control centre to events and automatically recorded event footage in real-time, enabling the retrieval of footage in seconds and sharing of footage instantly.

Key Features

- **Simple to Deploy:** Remotely deployable solution, quick setup.

- **Connected:** Tether dashboard accessed remotely by any authorised stakeholder from anywhere, with surveillance live streamed to monitoring centre.

- **Solid, Secure and Straightforward:** Tether's analytics software able to detect incidents, alerting personnel immediately, improving overall road safety and reducing traffic management costs.

- **Proactive surveillance maintenance:** Tether platform acting as a health monitoring tool, informing the client of the health and expected life of the SICS, cameras and any connectivity or power issues.

Benefits

- High quality surveillance over 3km of highway to multiple stakeholders, with crystal clear recorded footage making it easy to investigate an event if needed

- Operation of cameras and footage retrieval very simple and easy to pick up

- Benefit of solar power saving costs and emissions

- Very easy to deploy and self-reposition when required

- No ground works or cables required – saves costs and time

The integration of the Tether platform into the Sunstone Solar IP CCTV System has delivered clear benefits for Highways construction customers and is a real game-changer in providing real-time intelligence on highway to improve traffic flows and ensure safe journeys for everyone

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