



## Improving Safety and Accountability Through Red Light Monitoring

### Challenge

We were engaged by a client to design and deliver a solution capable of detecting vehicles failing to comply with red traffic signals on a private single-track site, where limited space and restricted visibility created an increased safety risk. The primary objective was to enhance overall site safety, reduce the likelihood of collisions and support consistent compliance with established traffic controls.

In addition to real-time detection, the client required comprehensive weekly and monthly reporting, supported by clear video evidence of each recorded violation. This provided full transparency and accountability, enabling the client to identify trends, address repeat non-compliance and implement targeted corrective measures. The availability of recorded footage also strengthened incident investigation processes and offered valuable protection in the event of disputes or insurance claims.

### THE SOLUTION

We worked with Roadside Technologies to provide a solution.

We installed a 4K camera that captured vehicles entering through a red light. HD video clips are then automatically emailed out on activation or weekly with full real-time remote analytics such as GPS location and battery voltage via an app or web login.

The battery system operated on solar charging to increase the 18-21 day run time allowing for infinite operation through the summer months and large parts of the year. This also reduces the need for battery swaps and associated costs. The system can also be installed on many different traffic light models.

This system increased the safety for people in the area and clear accountability should an incident occur.