

Security surveillance and passenger information



Recording quality permits evidential video to be taken from the seating and doorway areas to clearly identify offenders. Vertical infra-red detectors are situated at all vehicle doors to determine passenger flow in both directions.

On board CCTV surveillance

Keeping passengers and workers safe

Our system offers digital (IP) technology matched to the harsh environment of rolling stock applications to provide the highest performance and resilience on the market. The recording quality permits evidential video to be taken from the seating and doorway areas to clearly identify offenders, while external cameras offer reliable high definition images that are proven to improve operational efficiency. 1000 high resolution images per second and a complete train of up to 48 cameras may be recorded using a single digital video recorder.

Passenger counting

Increase passenger comfort

Vertical infra-red detectors are situated at all vehicle doors to determine passenger flow in both directions. The detector recognises movement both 'in to' and separately 'out of' the detection area. Passenger numbers are compiled for each vehicle door providing the movement of passengers (on/off) to be measured and studied on a car by car and door by door basis. Vehicle name and number, station location and time and date fields are combined with the passenger load data.

Forward facing surveillance

Minimise network disruption

In cases where the train is stopped, footage is available immediately and may be browsed and replayed at the scene. DVDs of the incident can be burned (in a secure format) while still on the vehicle, allowing the vehicle to return to service with minimal delay.

- Signal Passed at Danger (SPADs)
- Suicides and other fatalities
- Prompt evidence
- Workforce near misses
- Trespass, graffiti and stone throwing
- Vegetation surveys
- Trackside Litter
- Materials on tracks
- Confirmation of track work

Driver only operation

Ensure safe train dispatch

The on-board system provides significant safety and financial advantages over platform mounted mirrors or monitors. The system uses wide dynamic range digital camera technology with pixel level exposure control to ensure that the driver is presented with clear images in all lighting conditions.

- Safety to SIL I
- Multi-level image verification with safety interlocks
- The external cameras can share network with saloon, vestibule and forward facing cameras
- Can operate independently from saloon CCTV or passenger counting system
- Optional recording of images
- Fault Tolerant

Call +61 2 9966 9424 now to speak with our specialist or alternatively email sales@oem.net.au for prompt attention.



Pantograph monitoring

Reduce cost of failures

Pantograph failures during service can cause major delays and considerable financial impact. The roof mounted camera surveys the pantograph and overhead line throughout the trains day and night operation.

The pantograph surveillance uses pixel-level exposure control to combat adverse lighting conditions while looking up at the pantograph. The enclosure is mounted on the top of the pantograph car and is proven to stand up to the harsh environment of daily rail applications.

Standards compliance

- EN50155 Railway applications, electronic equipment used on rolling stock
- EN50121-3-2 Railway applications, EMC part 3-2 rolling stock apparatus
- GE/RT 8060 Technical Requirements for Dispatch of Trains from Platforms
- GO/RT/E/S/30023 Optical Requirements of CCTV System for Driver Only Operation
- EN 50128 Railway Applications, Communications, Signalling and Processing Systems Software for Railway Control & Protection Systems
- RIA 12 General specification for protection of traction and rolling stock electronic equipment from transients and surges in DC control systems

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