Macq

M³ Module: Railway Crossing

Railway crossing traffic safety is a major challenge today for any road operator. The safety requirements are extremely high, as the effects of an unsafe situation can be fatal. **Real-time information consideration** therefore increases the reliability, level of protection and traffic safety on such somewhat **dangerous railway crossings.**

In principle, there are **two types of safety systems:** on the one hand, **traffic signaling systems** warning drivers of approaching trains using flashing lights and on the other hand **mechanical safety devices**, such as barriers, that restrict access to the railway track.

Macq Solutions increase railway crossing safety levels can interpret the actual situation based on video image processing via captured images and are able to detect unsafe situations and thus **warn the driver in real-time** if necessary.

Examples of unsafe situations: going through red lights, stopped or broken-down vehicles on the track, fallen objects or obstacles, motorbikes, cyclists and pedestrians crossing when trains approaching, etc.

✔ Ready to use with
MACQ MOBILITY
MANAGER

Key Features

- It is possible to produce an **image** or even a **small film to demonstrate** an event that might happen on the tracks in the case of a pedestrian crossing the rails during a red light, a car that has stopped, a fallen object, a vehicle driving through the barrier etc.

- This application is used to **enforce and penalize red light violations** and detect abnormally long stops on the level crossing.

- To check the correct operation of the level crossing safety elements (lights, barrier, timing between the closing and the passage of a train...). The artificial intelligent camera can **detect the flashing barrier lights.**

- To **retrieve counting and speed statistics** for users crossing this level crossing

- To **recover video clips** in case of detection of configurable events