



Citilog Incident Detection solution deployed on Su Hua award-winning Highway project

Taiwan R.O.C Ministry of Transportation and Communication - Taiwan.

Mission

The Suhua highway lies on the most challenging terrains of Taiwan. It offers some of the world's most stunning scenes of landscapes in nature.

The objective of this improvement project is to improve the safety of the highway, so that residents of the area can commute with a higher level of peace of mind.

Other considerations of the project include its impact to the natural environment, sustainability and accident rate reduction, reduction of

the extent and frequency of future maintenance work, long term environmental friendliness, and reduction of vulnerability risks of the infrastructure to future natural disaster.

Because this highway is on a challenging landscape, by design, pedestrians and motorcycles are prohibited for most parts of the roadway.

Accordingly, the traffic control center needs to closely monitor the traffic situation in real time for congestion, wrong way, abnormal stoppage, accidents, fire, debris, and

unintended intrusions of pedestrians and motorcycles etc. Whenever incidents happen, the traffic control center needs to react immediately, and notify the relevant authorities based on the type of events and the associated response protocol.

In addition, the project also has high requirements on incident detection time, detection accuracy, real-time on-screen caption of the incident location, event recording & playback functions, and event data storage.

“Sunsy has been working closely with Citilog for a long time. Citilog’s video analytics solution was selected for this project because of the system’s capabilities, reliability, and the speedy technical support. These factors are crucial to a successful deployment especially during the installation and fine-tuning phases. We have been able to commission the system smoothly and established yet another good example of smart traffic project execution in Taiwan. Citilog has been a very reliable partner.”

Mr. Zaiqing LIN, Project Manager, Su Hua Highway Project, Sunsky.

Solution

The intelligent roadway monitoring system is an integral part of this project. The system provides real-time detection of incidents and monitoring of traffic flow and speed.

Citilog's MediaTunnel solution is at the heart of this system monitoring over 428 sets of detectors covering over 38.8 Km. Because of the widespread nature of these detector installation locations, the system is made up of a number of control areas, each of which has its own set of mid-to-large scale analyzers, servers, and storage hardware.

It is critical to maintain a smooth and reliable data transfer and communication among the different control areas.

Results

With over 30 years of experience in traffic, and the ease of implementation of the Citilog solution, the system integrator, Sunsky International Ltd was able to deliver and commission the first two phases of system six month ahead of schedule. The Ministry of Transportation

and Communication (MOTC) was appreciative and issued a certificate of appreciation to Sunsky specifically to this outstanding achievement. Further, on November 23, 2020, this project was awarded the 2020 IRF Global Road Achievement Award for Design by the International Road Federation (IRF).



Mr. Zaiqing LIN, Project Manager, Sunsky



Installations of detectors



Sunsy's Certificates of Appreciation from the Ministry of Transportation and Communication (MOC)



Citilog monitoring system on Su Hua Highway control center

