

C.A.S.A

Collision and Safety Alert System



A system and method for providing reliable collision hazard detection

Description:

A Hazard Warning System that is dedicated for the detection of objects and vehicles passing through or stopped on the rails at the crossings of railways with roadways.

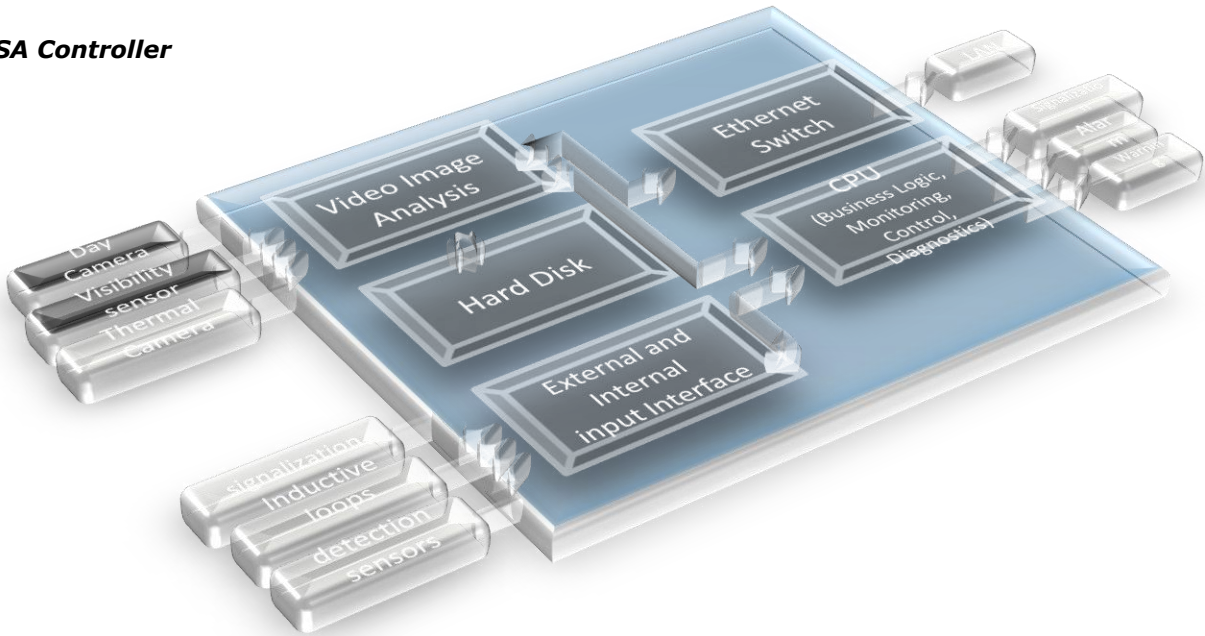
Uniqueness:

- European patent
- Groundbreaking system for collision hazard detection
- Operational system –installed in several cooperates worldwide

CASA system has been designed to provide:

- Fast and reliable detection of hazardous situations of crossing railroads intersections
- Collision avoidance by providing early warning and action
- Day, Night and harsh weather conditions video monitoring.

CASA Controller



Functionalities

- Captures, records and transmits video streams from the Dual Sensor camera compressed in new H.264 for DVD quality video with 50% less bandwidth transmission.
- Performs multiple Video Analytics processes on both video streams for accurate detection of hazardous situations caused by vehicles, objects and peoples.
- Performs real time data acquisition from all CASA sensors, processors and train signalization data for event processing and alarm transmission.
- Communication via E1 / WAN / WLL Wireless.

CASA wireless communication solution

Wireless communication unit that provides instant, Ad-Hoc communications for fixed and mobile platforms. Communication between the units is both secure and broadband quality, with several Mbps transmission between units.

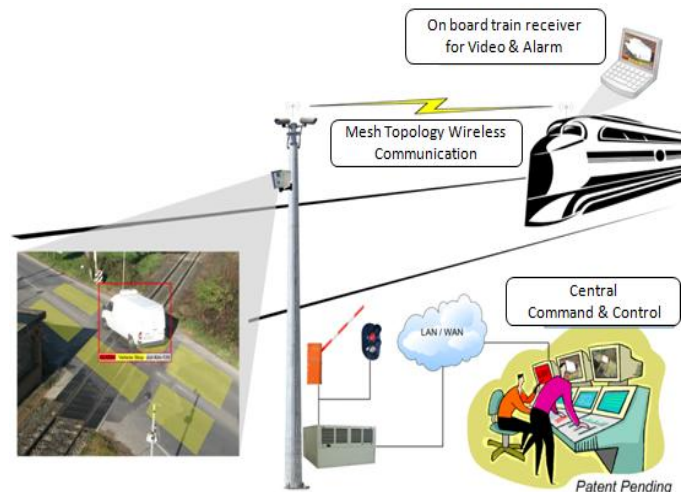


Operational GUI

The outputs of the CASA system which located in the railway / roadway intersection are forwarded in real time to the command and control center and displayed on a monitor. This allows situation awareness in real time.



CASA Application diagram



CASA wireless communication solution

4G wireless communication unit that provides instant, Ad-Hoc communications for fixed and mobile platforms. Communication between the units is both secure and broadband quality, with several Mbps transmission between units. Ideal for large area coverage, including Near/Non Line-of-Sight (N-LOS) conditions in rural and sub-urban areas,



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CASA Application diagram

