SMARTSPECTOR Aurora™ FC-1 compactly designed camera systems for stationary, portable, and mobile applications

Customer/partner: The shown field-installation was carried out in September 2009 as a part of Smartspector's TrafficSpector³ R&D-activities upon approval by ÖBB (Österreichische Bundesbahnen, Austrian Federal Railways).

Sensor arrangement: To spot-check the driver's behaviour at a level-crossing in Lower Austria, the site was equipped with a portable Smartspector Aurora FC-1 camera system. The state of the traffic light was sampled inside the camera by means of a compact photo sensor. This implementation avoided any interferences with pre-existing electronic equipment. The Red!Detector™ application correlated vehicle passages with the red-light status and registered only those vehicles, which passed the stop line during the red light phase.

Installation: The use of a pole mount adaptor, an optional accessory for the Smartspector camera, utilized the existing infrastructure and avoided any further on-site modifications. A standard car battery and a voltage converter facilitated an entirely autarkic system operation. A standard Windows® notebook was used to adjust the camera-device, for configuring the camera system and for collecting the results of measurement.

Privacy protection: In its particular character as an instrumentation for statistical evaluation, the installed system didn't record and output any personal data. By means of Smartspector Ianus™ technology (patent pending) all images and all other measurement results have been anonymized reliably.

Project results: Portable and mobile Smartspector camera systems can be installed and put into operation efficiently and without any difficulty. For statistical checks at junctions and railway crossings, no notification requirement with regard to privacy protection is needed and the pre-existing infrastructure remains entirely unaffected. A compact photo sensor or an overview camera suffice to capture the redlight status. Smartspector equipment is by far more compact than any other redlight detection system on the market. Above that, the system provides considerably more detailed information about vehicle passages than conventional, loop based installations, because Smartspector's patented evaluative motion-analysis establishes a precise relationship between a nominal stop line and the traffic light.

SMARTSPECTOR artificial perception engineering GmbH
Sonnenhofgasse 6/14, 1050 Vienna | Austria | FN 276499t | CEO: Dieter Schmidradler | Phone.: +43 (0) 664 8559 281 | Mail: office@smartspector.com | Web: www.smartspector.com
Erste Bank, IBAN: AT33 2011 1288 1891 2000, BIC: GIBAATWW | tax number: 244/8068 | VAT: ATU 62514755

Version: 101220