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Sivicam

Reliable video detection at intersections,
without pavement cuts

Sivicam – easy installation and reliable detection for up to 8 zones



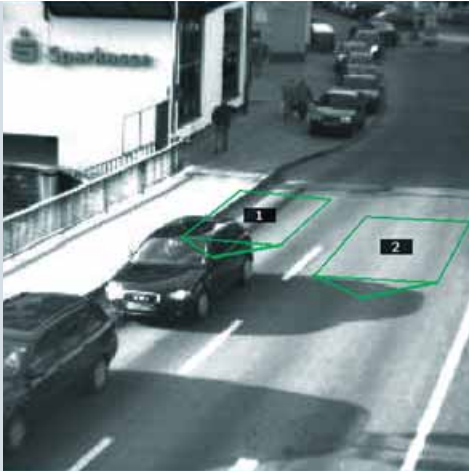
Sivicam is a perfect combination of advanced sensor and video detection technologies!

Traffic-actuated switching control of traffic lights is an essential factor in congestion prevention and the improvement of traffic flow. This kind of advanced control cannot be implemented without reliable traffic detection at and around the intersection. With Sivicam, Siemens now offers a CMOS camera combined with an image processing system – a combination that enables efficient high-precision vehicle detection. For installing a Sivicam system, pavement integrity at the intersection need not be compromised because it uses “virtual” detection loops instead of physical loops. Simply mount the camera on existing masts or other roadside structures – for reliable detection of all vehicles approaching the intersection or waiting there.

Up to 8 direction-sensitive detection zones

The “virtual loops” used by the Sivicam system are an optical grid of detection zones overlaying the video image. A Sivicam can monitor up to 8 of those zones, each of which can be assigned a specific traffic direction, if desired. Then the camera system records vehicles only if they move in the direction defined for the zone in question. This enables the system to accurately detect vehicles present on up to 8 precisely delimited lanes. A very cost-effective solution in comparison to many other detector systems covering only one detection zone. In many cases, a single Sivicam can effectively monitor the entire access area to an intersection. The wide-angle version has been designed to detect vehicles in the stop bar zone. The long-range camera is used to detect vehicles at distances of 50 m or more.

With the Sivicam,
detection zones can be
precisely demarcated
and supervised



Reliable detection around the clock and in any weather

The Sivicam uses tried-and-tested traffic algorithms and powerful image processing software that reliably compensates for shadows or headlight reflections on the image as well as for wind-induced camera movements. This sophisticated technology ensures high detection rates both by day and by night and in any weather conditions.

Quick installation and easy configuration

Installation of the Sivicam is fast and easy. The flexibly adaptable mounting bracket can be pivoted in all directions and allows mounting on vertical as well as horizontal elements of the traffic light support structure. Configuration and later modification is just as easy: The Sivicam software runs on mobile computers and provides a user-friendly configuration menu for defining, adding, modifying and deleting detection zones and storing various configuration settings. The configuration procedure takes little time and requires no special knowledge.

The Sivicam can be installed quickly and easily on existing roadside structures, without any pavement cuts

Technical specifications – Sivicam

Camera	Black & white, 1/3" CMOS, resolution 640 × 480 pixels
Housing	<ul style="list-style-type: none">• Weight incl. bracket, without cable: 600 g• Diameter: ca. 100 mm• H × L × W: ca. 45 × 16 × 10 cm
Communications	Serial RS485 interface
Supply voltage	12 to 26 V AC/DC
Current draw	< 85 mA @ 12 V and < 50 mA @ 24 V
Power consumption	≤ 1.2 W
Outputs	4 digital, optically isolated MOSFET outputs: U _{max} = 100 V/I _{max} = 50 mA
Ambient conditions	<ul style="list-style-type: none">• Operating temperature: –34 to +74 °C• Housing watertight as per IP67
EMC	CE 89/336/EEC product standard EN55022 class A