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Cognimatics is the global leader in Cognitive Vision. The company offers efficient and innovative imaging products for Intelligent Retail Surveillance and Mobile Communications.



Camera based Bicycle and Pedestrian Counter

Product Overview
Cognimatics Industrial applications



TrueView Bicycle™ fully embedded for IP Cameras

The bicycle is one of the most efficient vehicles in terms of road space, parking space, fuel consumption and emissions, making growth in bicycle traffic of vital importance for policy makers. Increased bicycle use can reduce the need for expensive new road infrastructure.

With an ever increasing number of communities around the world that are adopting pedestrian and bicycle plans, conducting walking and bicycling safety audits, and emphasizing the need for cost-effective, low-emission transportation options, there is a greater need for pedestrian and bicycle traffic data.

Description

TrueView Bicycle™ is a product for counting pedestrian and bicycle traffic. The software installs directly into standard IP cameras. **TrueView Bicycle™** offers a unique, cost efficient, scalable, and easy-to-install solution. The entire system is 100 % IP network based using only standard network cameras for the counting. The system requires no auxiliary PC or PLC, no inductive loops and no costly pavement work.

Using world leading embedded video processing software, all counting is done locally on the cameras dramatically reducing Ethernet bandwidth requirements and increasing system reliability. The complete solution is easily installed in an existing local area network and configuration can be done at any physical location using a standard web based interface.

Benefits from Bicycle counting

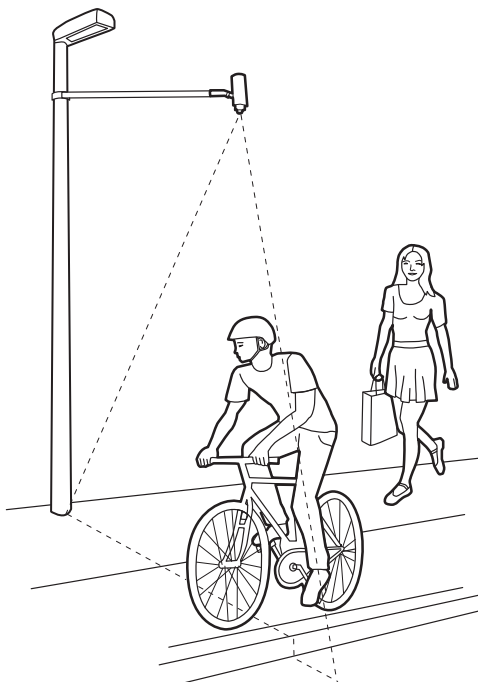
Use your precise knowledge about traffic statistics to:

- Improve the cycling infrastructure development and planning.
- Follow and analyze trends in cycling traffic activity.
- Promote cycling both externally and within your organization.

Managing data

The traffic numbers can be monitored in real time by pointing your web browser to URL of a camera loaded with TrueView Bicycle™. It does not require any additional software or hardware. Traffic data can also be managed through the optional software package **TrueView Web Report™** which is an efficient statistics tool that works seamlessly with **TrueView Bicycle™**. It helps you analyze traffic data, manage multi-site installations and allows export of data in a variety of open formats.

System overview



Bidirectional counting of bicycles and pedestrians passing the camera's view.



Monitor bicycle and pedestrian traffic in real time by pointing your web browser to the camera's URL.



Axis P3343-VE equipped with TrueView Bicycle™ offers an unmatched traffic counting solution, not requiring any PC, PLC, or inductive loops.

TrueView Bicycle™ is an automated stand-alone, two way bicycle and pedestrian traffic counting system for overhead mounted cameras. The entire system consists of IP network cameras loaded with **TrueView Parking™** software requiring no auxiliary PC or PLC, no inductive loops and no costly pavement work. The installation is so easy that it can be performed and maintained by your own staff. Maintenance can often be performed remotely by accessing the camera over IP reducing cost dramatically.

Data can be retrieved for analysis on timed intervals. The software is modular and completely autonomous with all counting done on the camera's CPU, requiring no dedicated PC. Manage, analyze and view data from any number of units and from multiple sites, using **TrueView Web Report™**.

Features

- No inductive loops or costly pavement work is required.
- Automatically separates between bicycles and pedestrians.
- Two way counting: Counts bicycle and pedestrians moving in two directions simultaneously.
- Accurate counting even under high density traffic conditions.
- Fully embedded software for standard network camera.
- 100 % IP - cost efficient, scalable, maintainable and future proof.
- Built in graphs in the camera web interface.
- Seamless integration with **TrueView Web Report™**.
- Easy to install and setup.
- Maintain system remotely over IP, set and monitor parameters, download or stream video.
- Push counting data automatically from camera to **TrueView Web Report™**.
- Unlimited number of cameras to a site or portfolio of sites when combined with **TrueView Web Report™**.
- Leading digital image processing minimizes shadow and reflection problems.
- Open protocol lets you integrate with data from other systems.

Specifications

- Fully embedded.
- Camera is mounted overhead facing straight down.
- Minimum height over ground: 4 meters
- Maximum width: 6 meters.
- Platforms: AXIS P3343-VE

CONTACT INFORMATION

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ABOUT COGNIMATICS

Cognimatics, the leader in Cognitive Vision, has its roots at the Mathematical Department at Lund University, Sweden. With a team of world leading researchers from the field of Cognitive Vision, Cognimatics' technology rests on a sound scientific foundation.

COMPANY MISSION

Cognimatics works in close cooperation with the university to take new results from research to the market efficiently.

COGNITIVE VISION

Cognitive vision is a field of research, where the goal is to teach computers to interpret images intelligently like humans do. It includes both Intelligent Video and still image analysis. Cognimatics, the global leader in Cognitive Vision, is dedicated to providing efficient and innovative products within its two business segments - Intelligent Retail Surveillance and Mobile Communications.

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