



# HIGHVISION – VISUAL DETECTION AND TRAFFIC PARAMETER MONITORING SYSTEM

- Complex monitoring system
- Wide range of monitored parameters
- Licence plate recognition
- Remote control and data access
- Compatibility with available types of detectors



## General Description

HighVision is a system for local and central monitoring of traffic and vehicle movement. It consists of different types of equipment for detection of parameters e.g. weight and height of vehicles or their speed. According to measured values vehicles can be categorised according to different criteria. At the same time the system recognises vehicles licence plates, monitors video image from cameras in the real time, provides remote control of camera setting and wide range of other functions.

Remote monitoring, gathering and evaluation of data, provides a complex overview of traffic situation at monitored section and enables optimisation of traffic flow control

as well as forecasting and planning traffic next development. Use of the system significantly contributes to an increase of road traffic safety.

System has been designed so that all parameters are received without the traffic flow influence.

HighVision is compatible system with available types of monitoring equipment and can be coupled with other e.g. with satellite navigation systems.

## Basic Technical Description

Summary of basic components and functions of the system:

- measuring of instant speed of traffic flow
- measuring of section speed based on vehicle video-detection
- vehicle classification according to their shape, length, width and height detected by 3D scanning of the traffic flow
- instant dynamic weighing of all vehicles along with measuring weight per axle
- recognition of vehicle licence plates with classification facility according to arbitrary parameters
- comparison of detected licence

plates with arbitrary special interest database

- real picture from the measuring section with 27 fold zoom camera movement possibility
- infrared supplementary lighting for good quality night recording
- monitoring and detection of situation at the gantry vicinity by DECO System with module for coupling to centralised security operator's desk
- detection of current temperature, air humidity, icing, speed and direction of wind through meteorological module



CCD cameras



Laser 3D scanner





- monitoring of traffic intensity and statistics generation
- data transmission to supervisory and evaluation centre
- visualization of measured data and parameters in DoCent supervisory centre

All detectors besides weight sensors built in a pavement are located on a road inspection gantry complying with technical specifications of Road and Highway Administration. Evaluation units, database servers and communication equipment are

stored in cabinet in a distance of 110 meters from a gantry as a maximum.

#### Basic Technical Parameters

Cameras	colour CCD
Laser scanner	laser of the 1st class
Power supply	230 V, 50 Hz