



Overview

Intelligent Traffic Metrics from IntelliVision is an ITS solution for traffic analytics, statistics and vehicle metrics. It can be used on roads and ramps and at intersections and traffic lights. The software analyzes all vehicles and traffic patterns and provides the following information:

- Vehicle counts
- Vehicle speed
- Vehicle type/length
- Total counts
- Average
- Report by minute, hour or day

Input and Output

Live video stream (RTSP/H264) or video file or VMS/NVR/DVR video stream.

Camera, Server or Cloud

IntelliVision can provide the Intelligent Traffic Metrics solution in the camera, in a server, or in the cloud.

Applications

Intelligent Traffic Metrics is useful for:

- Traffic control and monitoring
- Traffic congestion
- Intersection monitoring
- Traffic metrics / analysis
- Current situation on the roads
- Vehicle wait periods
- Higher / max throughput of vehicles
- Traffic / ITS Planning for cities and roadways



Features

Traffic Metrics provides the following detection features.

Features

- Vehicle count
- Vehicle speed
- Vehicle type (approx. classes)
- Vehicle length
- Support for day/night mode of operation
- Directionality check
- Shadow suppression
- By default 32 zones detection support
- Sensitivity control

Input

Video stream at resolution not less than CIF with 4:3 aspect ratio.

of detection zones with parameters for each zone such as:

- Directionality: ON (default)/OFF & related angle 0-359 degrees
- Shadow suppression flag: ON (default)/OFF
- Cars per zone: 0 (default) or exact # of cars expected in zone at once
- Sensitivity: 5 (default), 0 (min) - 9 (max)
- Lane ID: each lane is assigned a unique numeric ID
- Type of lane: left/right/through
- Is Enabled: specifies if zone is enabled for processing or not
- Work Mode: minimized false detections, normal (default), high true detection

Output

For each detection zone or lane:

- Vehicle counts
- Vehicle speed
- Vehicle type
- Vehicle length
- Total and average counts / stats
- Report by minute, hour or day

Platform Specifications

Intelligent Traffic Metrics is available in the following forms:

- SDK for embedding in cameras with video chipsets from Ambarella, Qualcomm, HiSilicon and others
- Software application and SDK running on Intel-based servers
- Cloud-based web services running on public or private cloud

About IntelliVision

IntelliVision is a market leader in AI and Deep Learning-based video analytics and video cloud software for Smart Cameras. IntelliVision solutions provide actionable insights for security and monitoring in Smart Home/Enterprise/City and Retail applications. IntelliVision's Advanced Driver Assistance Systems (ADAS) improve car and road safety in automobiles. IntelliVision is headquartered in San Jose, California with offices in Asia and Europe and is a subsidiary of Nortek Security and Control.

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