

VIDEO ENHANCED C-ITS

A reliable and versatile traffic monitoring system is key to smart traffic management. The FLOW video analytics tracks all road user participants and analyzes their behavior in real-time based on user-defined rules. Traffic events and statistics are shared via multiple interfaces, including J2735, making it the first choice for V2X applications.

FLOW. INSIGHTS

The future of smart intersections now



Accurate traffic data

Exact traces, categorization into 17 classes, measure speed, waiting times, read LPs and more. For any traffic scenario, at any scale.



Multi-camera tracking

Fuse data from multiple cameras to get the continual trajectories of all traffic participants. Create the ultimate intersection sensor.



C-ITS readiness

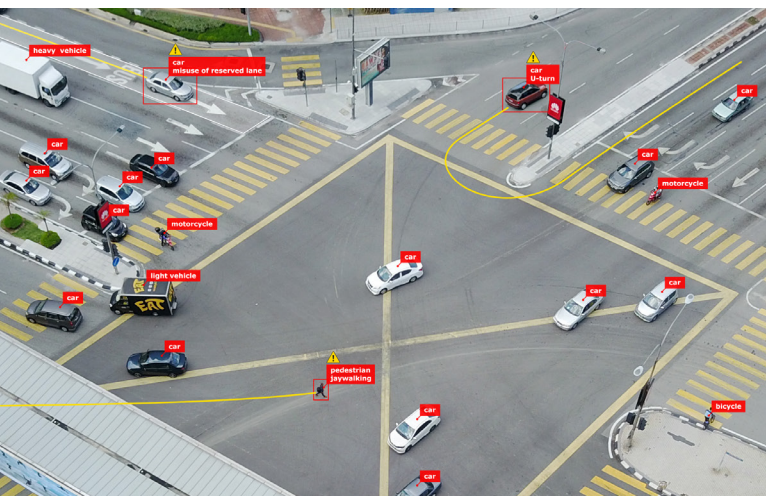
Enter a new phase of traffic monitoring with J2735, enabling SPaT analysis, broadcasting of safety messages, and intersection performance measurement.



DATA FROM SKY

For more information, visit www.datafromsky.com

Extract diverse traffic data to improve traffic flow by dynamically adjusting signal phase timing. Simulate inductive loops to upgrade existing installations or measure advanced parameters such as ETA or queue length. Continuously monitor the intersection performance.



Convey events and statistics to traffic controllers using various data interfaces such as NTCIP, SDLC, J2735, UDP, among others. Utilize the IO module to directly manipulate physical signals in response to detected video events.

Features

Video analytic engine

17 object categories including VRU | ALPR

Multi-camera tracking | Support for processing streams from thermal cameras and fisheye/360° cameras

Trajectory processing engine

Fully configurable | Conditional evaluation | Presence
detection | Occupancy measurement | Directional zones
Emulation of inductive loop | Speed data | OD matrix

Visualization tools

Fully customizable live dashboards

Counts, statistical data, tables, heatmaps and historical data

Interfaces

NTCIP | SDLC | J2735 | UDP | REST | IO module



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Traffic violation detection

Detect a range of traffic violations including wrong-way driving, red light violations, jaywalking, vehicle blockages or misuse of reserved lanes. Record incidents through video/images for evidence or statistical purposes. Utilize the integrated ALPR system for vehicle identification. Improve intersection safety or reduce incident response times.



Solution

XRoads

The most powerful traffic video analyzer for intersection management. It is an embedded device intended for installation in traffic controller cabinets. Capable of processing up to 14 camera video streams and supports various communication options (NTCIP, J2735, UDP, and more).

TrafficCamera

Plug and play easy-to-use device with built-in FLOW framework. Connect and define the detection zones to gather the statistics or generate presence events. Unlock a multitude of possibilities with just one camera per intersection leg.