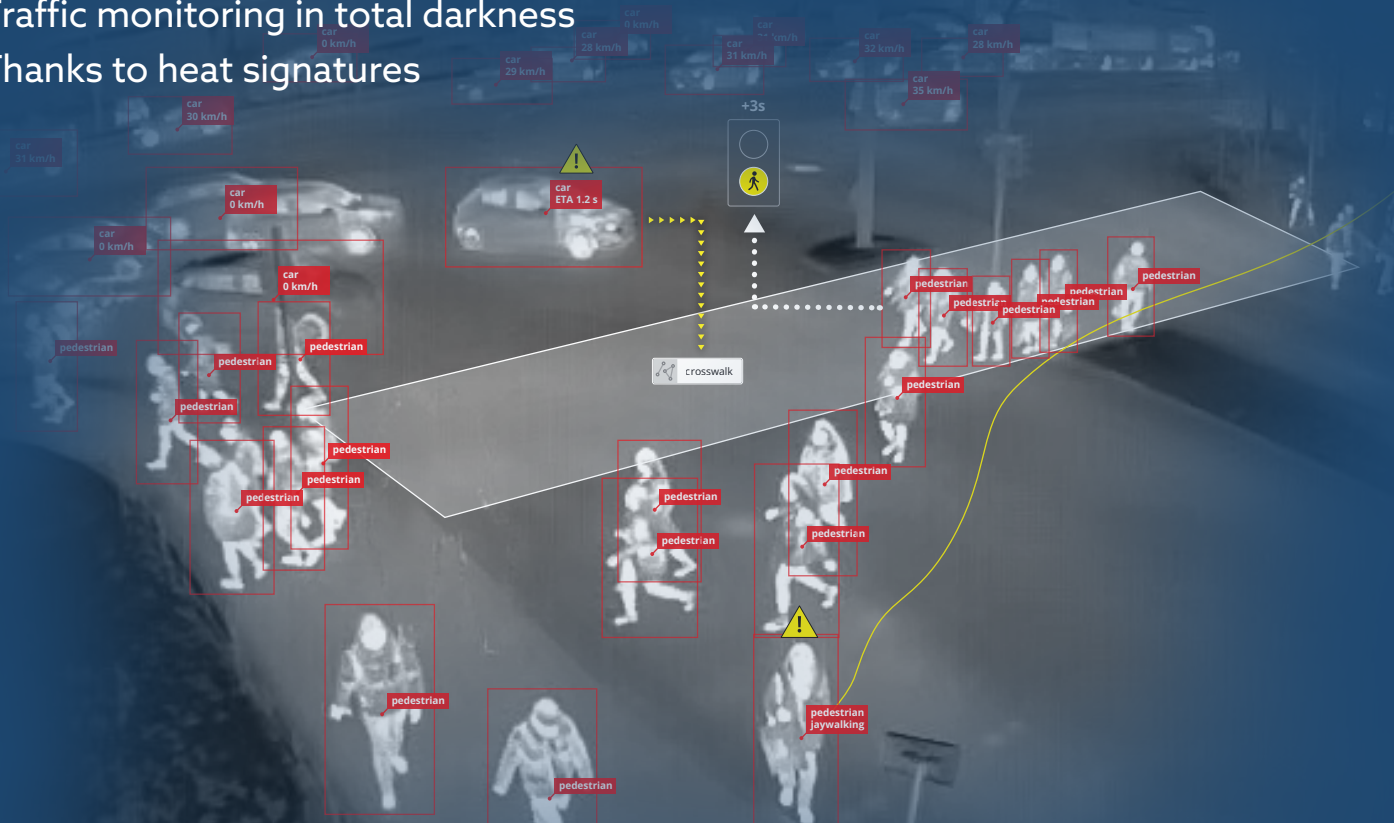


THERMAL VISION

Traffic monitoring in total darkness
Thanks to heat signatures



FLOW INSIGHTS W.

See the unseen in thermal

Monitor traffic and detect traffic incidents even in total darkness using thermal imaging. Collect detailed traffic data, protect VRUs or optimize signal plans in real time from any thermal IP camera. Discover new possibilities of thermal imaging in traffic monitoring thanks to the AI-powered traffic framework FLOW prepared for V2X applications.



Multimodal & advanced

Categorize objects into seven categories, including pedestrians and bicycles. Count traffic, measure speed, or perform behavior analysis.



Thermal camera agnostic

Connect any IP thermal camera to the FLOW system. Compatible with any resolution, including dual cameras. This is a real plug-and-play solution.



Multiple deployment options

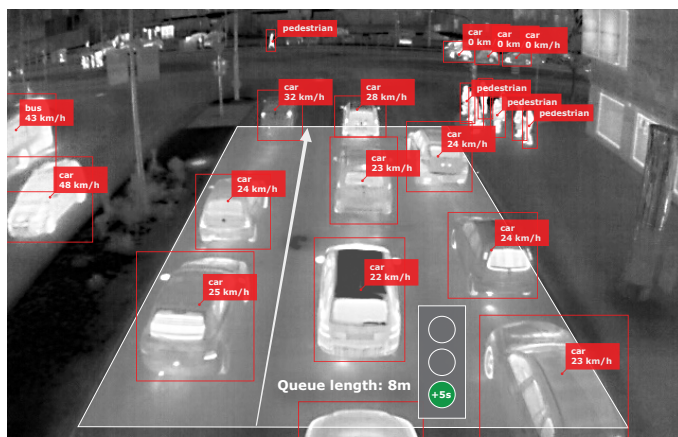
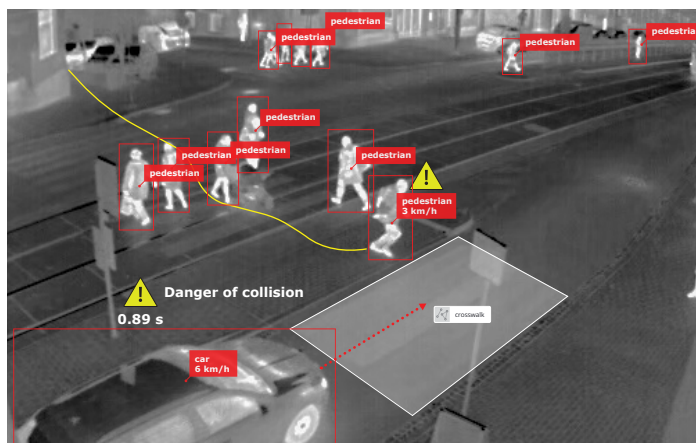
Analyze multiple streams on the edge using the XRoads unit or on the server with Enterprise. Choose the solution that best suits your needs.



For more information, visit www.datafromsky.com

01 Intersection control

Advanced thermal AI identifies and tracks every participant in the traffic flow, including pedestrians and cyclists. Create an unlimited number of zones for presence detection, define counting gates, or set movements to gather speed data. Measure queue lengths or assess intersection performance. Communicate events via UDP, NTCIP, J2735, or MQTT with traffic controllers or RSUs at the intersection.



02 Crosswalks & VRUs protection

Count pedestrians and bicycles at crosswalks or on pedestrian paths. Detect near misses and proactively protect Vulnerable Road Users (VRUs) by prolonging the green cycle or activating warning signs to ensure safe crossing. Improve traffic flow in a fully anonymous way using thermal imaging technology.

03 Highway and tunnel monitoring

Enhance traffic safety with comprehensive solutions for automatic incident detection, data collection, and early fire detection. Run video analysis on servers capable of processing footage from hundreds of thermal cameras or use embedded systems to create a live digital twin of the monitored area.

Features

Video analytic engine

- 7 object categories including pedestrians and cyclists
- Full object traces | Speed and stationary data
- Bounding boxes | Fire detection

Trajectory processing engine

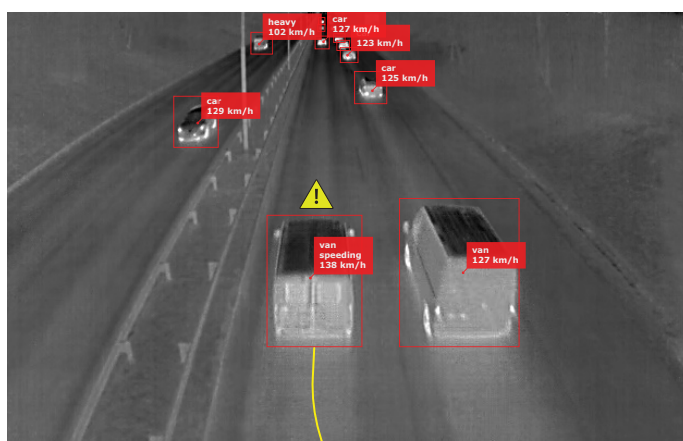
- Fully customizable | Stationary vehicle | Wrong way driver
- Slow/fast moving vehicle | Pedestrian on the road
- Congestion and many others

Visualization tools

- Live view | Statistics | Heatmaps | Historical data

Data interfaces

- UDP | WEBHOOKS | REST API | MQTT



Deployment options

Edge

XRoads with IP thermal cameras



Enterprise

Server with NVIDIA GPUs

