



Computer Vision AI System for Smart City and ITS

Fully integrated AI hardware / software solution for Detection,
Analytics and Incident Detection

Extracts detailed
traffic analytics
and generates
reports



Counting, classification, occupancy and speed by lane

Accurately (95%+) detects and classifies in real time cars, light and heavy trucks, buses, motorcyclists, bicyclists and pedestrians. Measures speed of every object with +/- 2 mph accuracy.



Date labeled	Cars	Light truck	Bus	Heavy truck	Motorcycle	Bicycle	Pedestrians	N/A
17 Jun. 2020	230	54	13	12	10	3	34	12
16 Jun. 2020	123	34	7	56	3	0	43	9
15 Jun. 2022	230	54	13	12	10	3	34	12


Sends real time alerts and automatically activates signs, gates etc

Alerts and notifications can be sent via email or text messaging.

Notifications


Event:
Stopped traffic

Camera:
Crossroad camera



Event:
Wrong way

Camera:
Crossroad camera




Event:
High speed

Camera:
Crossroad camera

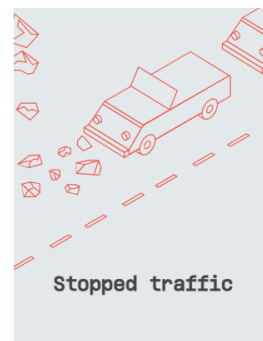
Vehicle Type:
Light truck

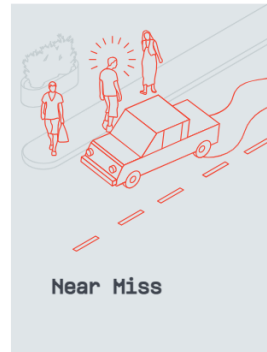
Created at:
17 Jun. 2020/12:45

Speed/Limit:
65/45mph



Automatically detects and reports:

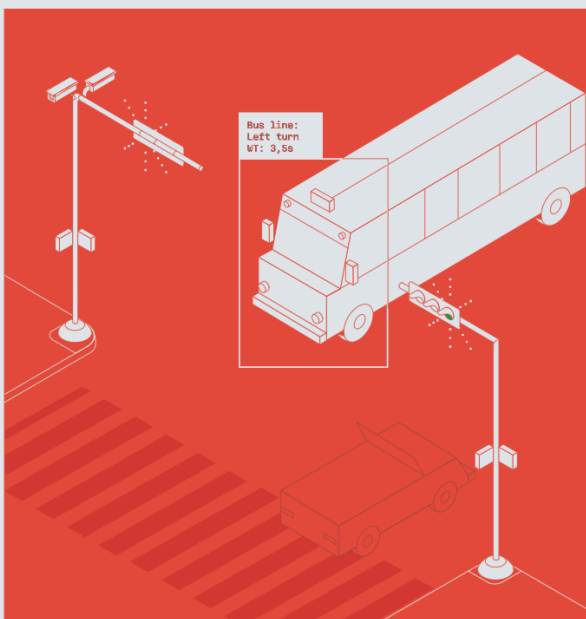




Best in Class Detection

Currux Vision ITS system incorporates a category leading detection system for placing vehicle, bicyclist and pedestrian calls to the traffic controllers and other traffic systems.

Our advanced capabilities for pedestrian and bicycle detection, combined with ability to place calls for specific vehicle classes (eg. buses) and advanced detection, make our detection system one of the most capable and cost effective in the market.

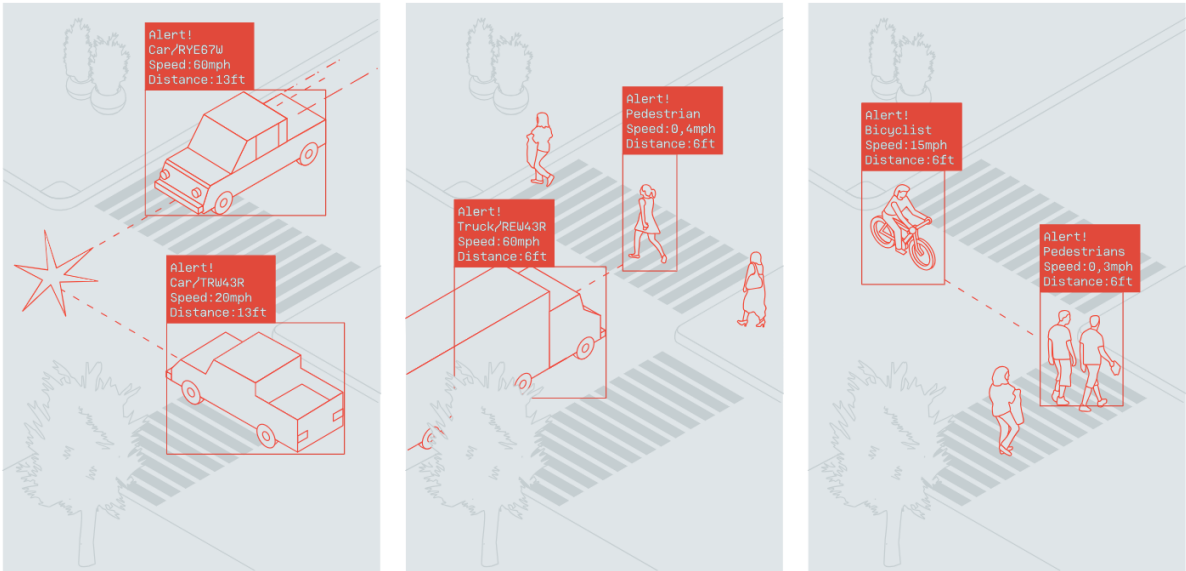


Phase status	1	2	3
Red	●	●	●
Yellow	●	●	●
Green	●	●	●
Veh Call	●	●	●
Pedestrian	●	●	●
Ped Call	●	●	●

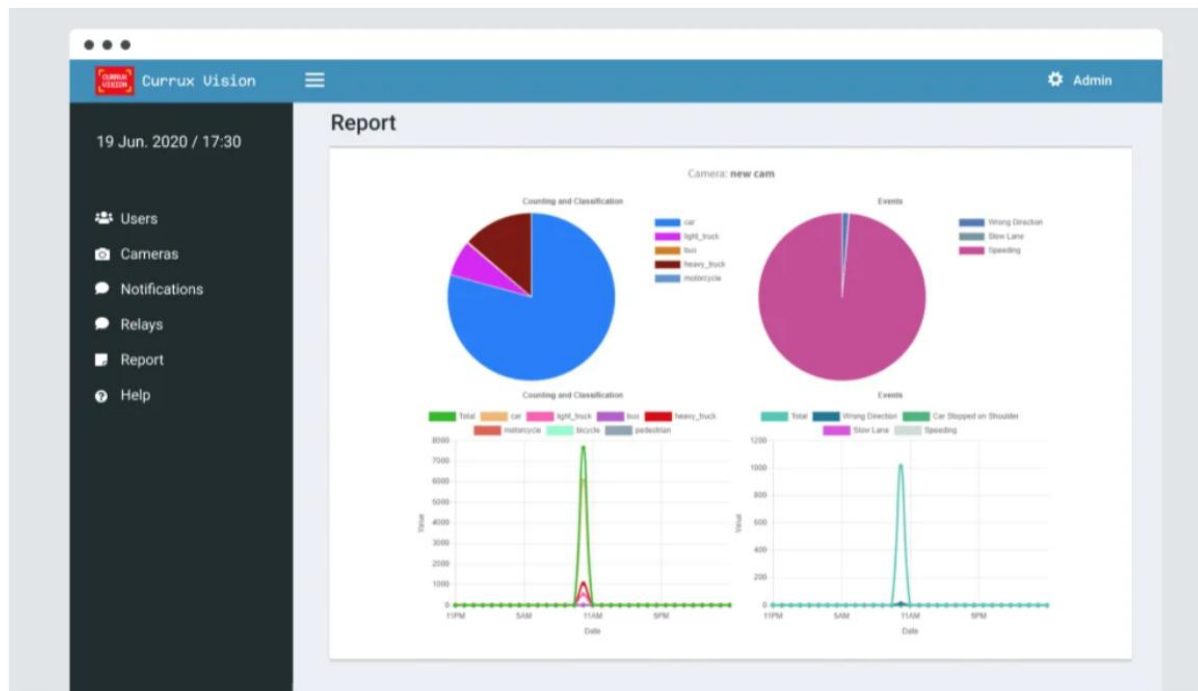
Traffic Safety Analytics

Currux Vision predicts trajectories, speed and distance of cars, and pedestrians to inform customers about potential accidents and danger zones.

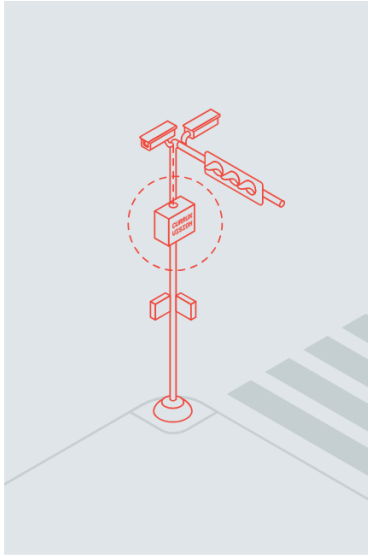
Traffic safety data is presented in reports and real-time Near Miss notifications are issued.



Intuitive and Simple to Use User Interface

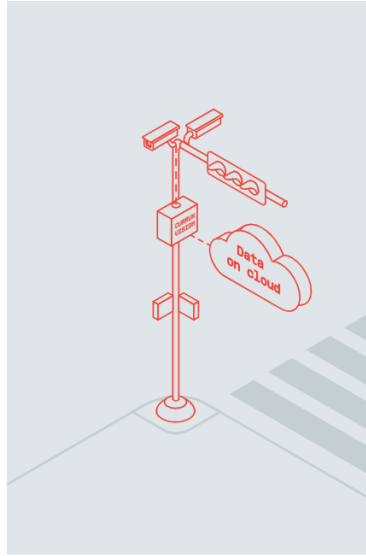


Flexible system configurations allow rapid deployment and installation in most difficult environments:



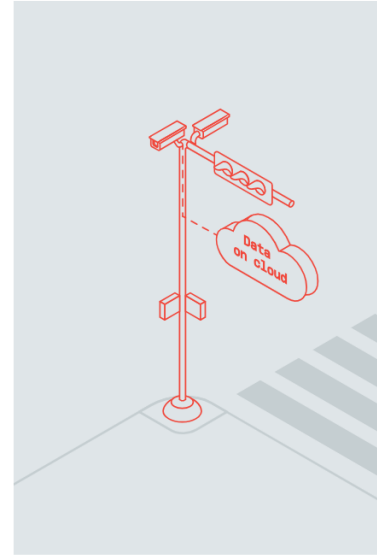
1.Edge / Near Edge configuration inside local networks

AI Servers deployed at the edge (eg. traffic cabinets) or local server rooms and transmitting metadata to a central server on local network



2.Hybrid edge / cloud configuration

AI Servers deployed at the edge (eg. traffic cabinets) or local server rooms and transmitting metadata to a central server on local network

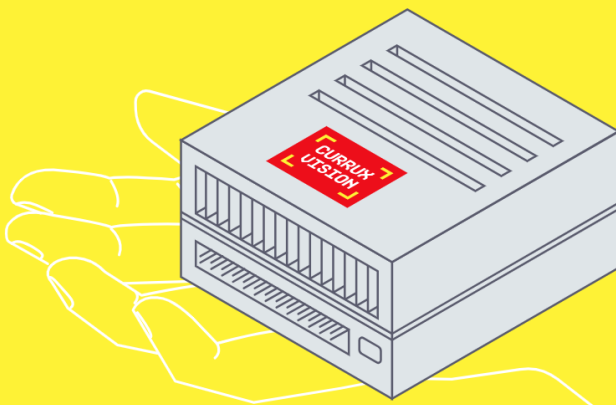


3. Cloud processing

Video streams are processed on Currux Vision cloud servers and metadata is sent to a secure cloud account that customer can access from anywhere.

Currux Vision Distributed Edge Architecture

Our Edge AI Servers Work Inside Local Networks and Don't Require Cloud Access



Based on the NVIDIA GPUs

A supercomputer that fits in the palm of your hand.
Capable to process multiple video streams and work in most challenging conditions.