

Vehicle Counting & Classification



Complete Traffic Analytic Solution

State-of-the-art automated traffic monitoring system comprising high-resolution cameras, thermal vision & video analytics



Real-Time Intelligence of Traffic Flow

Real-time performance about urban arterial roads & motorways including all-important congestion detection.









Axle-Based Classification

Solution supports all standard vehicle classes – capable of counting by size of vehicle & also number of axles.

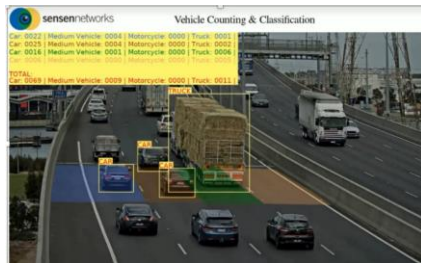


“Thanks to our patented data fusion algorithms, all independent reads are fused together to increase detection and OCR rates. We are achieving close to 100% accuracy in both detection and OCR rates using this approach.”

Subhash Challa, CEO, SenSen

 <p>Clearview Intelligence making journeys work</p>	<p>Clearview Intelligence United Kingdom</p>	 <p>SNOWY MONARO REGIONAL COUNCIL</p>	<p>Snowy Monaro Regional Council Australia</p>
 <p>Land Transport Authority We Keep Your World Moving</p>	<p>Land Transport Authority Singapore</p>	 <p>Transurban</p>	<p>Transurban Australia</p>
 <p>CHANGI airport singapore</p>	<p>Changi Airport Singapore</p>	 <p>SAFEGWAY CONCESSIONS</p>	<p>Safeway Concession India</p>

Why Vehicle Counting & Classification



SOLUTION OVERVIEW

Our vehicle counting and classification application is a versatile video analytics system. The system can use either analogue or IP cameras, & operates in all environmental conditions. A user-friendly web-based interface allows remote access to view, track & analyze data, reports & graphs in real time.

HARDWARE DESIGN

- High-resolution cameras operating day & night
- No additional cameras or infrastructure changes required
- Flexible mounting on gantries, poles & walls
- Flexible power options - solar or commercial charging

EDGE FEATURES

- SenSen's in-house vehicle counting classification software
- Patented state-of-the-art fusion algorithm
- Recorded high-resolution videos
- Seamless integration with SenSen's cloud-hosted back office system (BOS)

BACK OFFICE FEATURES

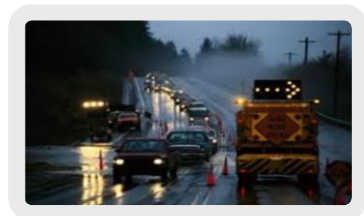
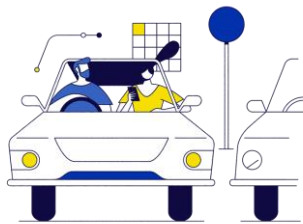
- Cloud support for Axis ARTPEC-4 enabled cameras
- Edge recording of high-resolution video & image data
- Optional edge processing with microprocessing devices
- Advanced data transfer mechanism for back-office processing
- Exceptional performance under low-bandwidth conditions with no data loss
- Vehicle counts & classification data can be accessed remotely

KEY FEATURES

- Vehicle detection at intersections
- Roadside monitoring
- Monitoring traffic in tunnels
- Highway traffic management
- Thermal cameras which support traffic detection even in total darkness
- Heavy vehicle detection & classification
- User-friendly, web-based interface accessible from anywhere to analyze data, reports & graphs in real time

SOLUTION USE CASES

- Highways – Pinpoint-accurate vehicle data for optimum traffic lane management
- Toll roads – Vehicle classification data for toll operations
- Tunnels – Alarm-based triggers to alert for hazards
- Height restrictions – Detection & alarms for over-height vehicles
- Traffic surveys – Vehicle counts & classification data to aid decision making
- Heavy vehicle detection solution captures vehicles based on their size or through number of axles



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