

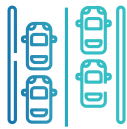


cyRoad

Agentic AI Video Intelligence



Road Violation
Enforcement



Traffic & Junction
Analysis



Road Incidents
& Hazards



Roadway
Inspection



Roadwork
Safety &
Productivity

Road, Traffic and Roadwork Monitoring, Analysis, and Violation Enforcement

cyRoad Agentic AI Video Intelligence delivers end-to-end traffic and roadway monitoring and analysis by leveraging advanced analytics and AI-powered automation. Built on the cyNeuron engine and cyVisionAI platform, it enables authorities and operators to monitor, analyze, and enforce safety standards, optimize traffic flow, and maintain infrastructure health with efficiency and precision.

cyNeuron

Human-Like Video Understanding With an Intuitive Copilot and AI Agents

Transcends rule-based video analytics, making intelligence accessible with natural language interaction.

Achieve unparalleled video comprehension through proprietary domain-specific and highly efficient Vision Language Models (VLM) alongside other Vision AI technologies that analyze road and traffic-specific contexts, understand scenes, identify vehicles, persons, interactions and events, through spatio-temporal analysis.

The Agentic AI layer brings a set of AI Agents that automate complex tasks such as generating incident reports, summarizing video footage and automating case management, all instantly available via cynapse.ai Vision Copilot.



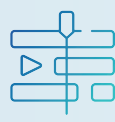
Alert Agent



Discovery Agent



Q&A Agent



Summarization Agent



Generation Agent



Investigation Agent



Enforcement Automation

Road Safety Violation Enforcement

- Driving in Bus Lane
- Driving in the Wrong Lane/Direction
- Illegal Overtaking
- Illegal Parking
- Illegal Reversing
- Illegal Stopping
- Illegal Turn / U-Turn
- Illegal Wait / Drop off / Pick Up
- Not Stopping at Pedestrian Crossing
- Not stopping at Stop Line
- Overspeeding
- Red Light Crossing
- Stopping at the Carriageway
- Stopping or Driving on the Shoulder
- Vehicles Below Minimum Speed in a Fast Lane
- White Line Crossing



Traffic Monitoring and Analysis

Traffic Volume

- Average speed, directional count, congestion, queue length, wait time

Vehicle

- Counting, classification, lane, direction, path, speed, LPR

Micromobility Devices

- Counting, classification, lane, direction, path, speed, rider gender & age, helmet, LPR

Pedestrians

- Counting, gender & age, lane, direction, path, grouping, crossing



Road Incidents & Hazards

Incidents

- Stationary vehicle, reverse vehicle flow
- Vehicle on fire, overturned vehicle
- Hazardous or oversized Vehicle

Hazards

- Obstacles, debris, fallen objects
- Oil spill, mud spill, flood, puddle
- Smoke and fire



Roadway Inspection

Road Surface

- Cracks, potholes, sinkholes, faded road markings

Road Infrastructure Defects

- Damaged traffic lights, road signs, signboards, barriers, guardrails



Roadwork Safety and Productivity

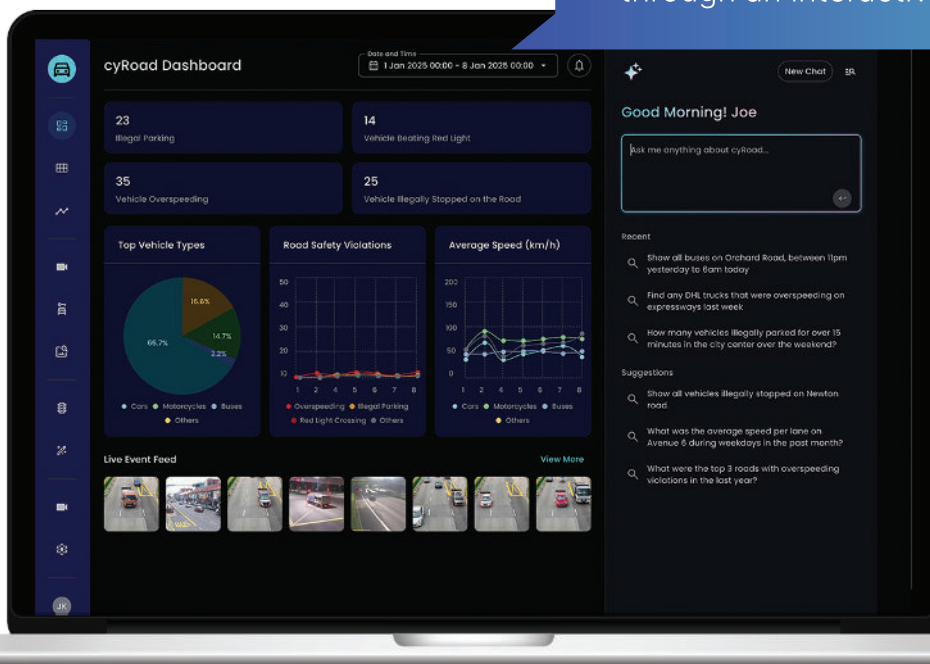
Safety Enforcement

- Barricades and cones compliance
- Worker PPE compliance
- Congestion and slow traffic in lane

Productivity Monitoring

- Work start/end time
- Worker counting
- Equipment utilization

The cyRoad dashboard delivers a comprehensive view of video intelligence, with quick access to insights and events through an interactive copilot

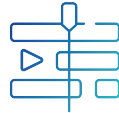


Why cyRoad?

Key Advantages



**Powered by
Agentic AI**



**Revolutionary
Video Understanding**



**User-Defined
Events**



**Works With Any
Video/Visual Source**



**Vision Copilot
with AI Agents**



Edge/On-Prem/Cloud

about cynapse.ai

cynapse.ai is a leading provider of Verticalized Agentic AI Video Intelligence solutions, enabling organizations to enhance safety, security, compliance and operational efficiency. cynapse.ai solutions are designed to detect and respond to risks, threats, and violations while uncovering opportunities across smart cities, transportation, seaports, airports, and correctional services. Offering human-like video understanding through cyNeuron and 150+ pre-defined analytics, and turning it into everyday value through AI Agents and an intuitive copilot, cynapse.ai is making video intelligence more powerful and accessible than ever before.



cynapse.ai