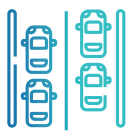# cynapse.ai

cyRoad
Agentic AI
Video Intelligence

Traffic & Junction Analysis

Road Violation Enforcement

Roadwork Safety & Productivity

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

cyRoad Agentic AI Video Intelligence is designed specifically for road and junction traffic analysis, road safety violations enforcement and roadworks compliance. Leveraging the cutting-edge cyVisionGPT engine alongside cyVisionAI analytics, cyRoad empowers land transportation authorities, municipal transportation departments, road operators, traffic police and roadwork owners to efficiently monitor, analyze, and enforce safety and traffic regulations and optimize traffic flow.

cyVisionGPT
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 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
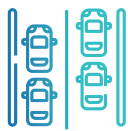
Automate Enforcement
and Minimize Risk

Road Safety Violation Enforcement

- Driving in Bus Lane
- Driving in the Wrong Lane/Direction
- Illegal Overtaking
- Illegal Parking
- Illegal Reversing
- Illegal Stopping
- Illegal Turn
- Illegal 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

Road & Junction Traffic Monitoring and Analysis

Traffic volume

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

Vehicles

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

Pedestrians

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

Micromobility devices

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

Incidents

Abnormal events, accident events, near-misses events, non-compliance events

Roadwork Safety Enforcement and Productivity Monitoring

Increase Road Safety

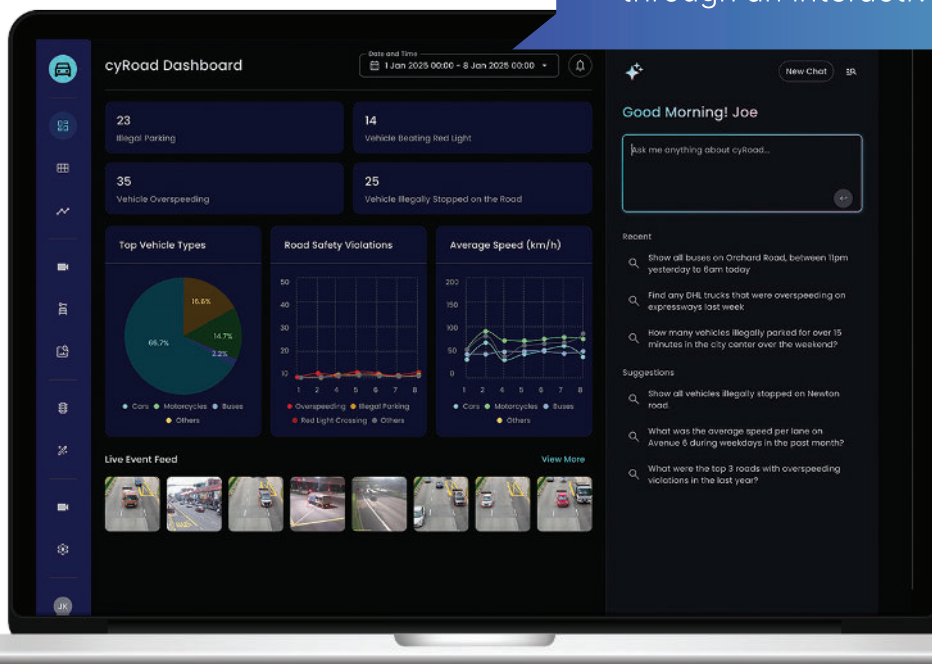➤ Barricades and Cones Compliance
➤ Worker PPE Compliance

Maximize Productivity

➤ Work Start/End Time
➤ Worker Counting

Minimize Impact on Traffic Flow

➤ Congestion and Slow Traffic in Lane

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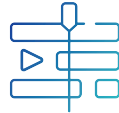
Why cyRoad?
Key Advantages

Powered by Agentic AI

User-Defined Events

Vision Copilot with AI Agents

Revolutionary Video Understanding

Works With Any Video/Visual Source

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 cyVisionGPT 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.

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