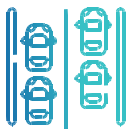# cynapse.ai

cyRoad
Video Intelligence Suite for Road & Junction Traffic
Powered by Generative AI

Traffic & Junction Analysis

Road Violation Enforcement

Roadwork Safety & Productivity

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

cyRoad Video Intelligence solutions are designed specifically for road and junction traffic analysis, road safety violations enforcement and roadworks compliance. Leveraging cutting-edge Vision AI alongside Generative AI, 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
Revolutionary Video Understanding with an Intuitive Copilot

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

cyVisionGPT delivers unmatched video comprehension through proprietary domain-specific Video Language Models (VLM) that analyze industry-specific contexts. cyVisionGPT understands scenes, identifies objects, interactions and events through spatio-temporal analysis. With cynapse.ai copilot, users benefit from Large Langauge Models (LLM) to interact with video data through natural language , define new use cases, search historical footage, and generate reports and summaries - making advanced video intelligence both accessible and intuitive.
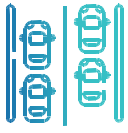
Automate Enforcement
and Minimize Risk

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

Minimize Impact on Traffic Flow

> Congestion and Slow Traffic in Lane

Maximize Productivity
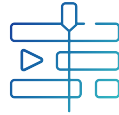
> Work Start/End Time
> Worker Counting

The cyRoad dashboard offers a comprehensive view of video intelligence, providing quick access to insights and events of interest

Why cyRoad?
Key Advantages

Powered by Generative AI

Revolutionary Video Understanding

User-defined Alerts

Works with any Video/Visual Source

Vision Copilot

Edge/On-Prem/Cloud

About Cynapse.ai

Cynapse.ai is a leading provider of verticalized Video Intelligence Solutions powered by Generative AI. With its vertical suites, cynapse.ai empowers organizations to enhance safety, security, compliance, and operational efficiency. The cynapse. ai platform is designed to detect and respond to risks, threats, and violations while uncovering opportunities across smart cities, transportation, seaports, airports, and correctional services. With over 150 predefined analytics and the cutting-edge cyVisionGPT, a domain-specific, video-understanding Generative AI engine, cynapse.ai is making video intelligence more powerful and accessible than ever before.

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