



GHOST
ANALYTICS

AI-Driven

Traffic and Incident Detection Solutions

Enhancing Road Safety and Efficiency Through Advanced Technology

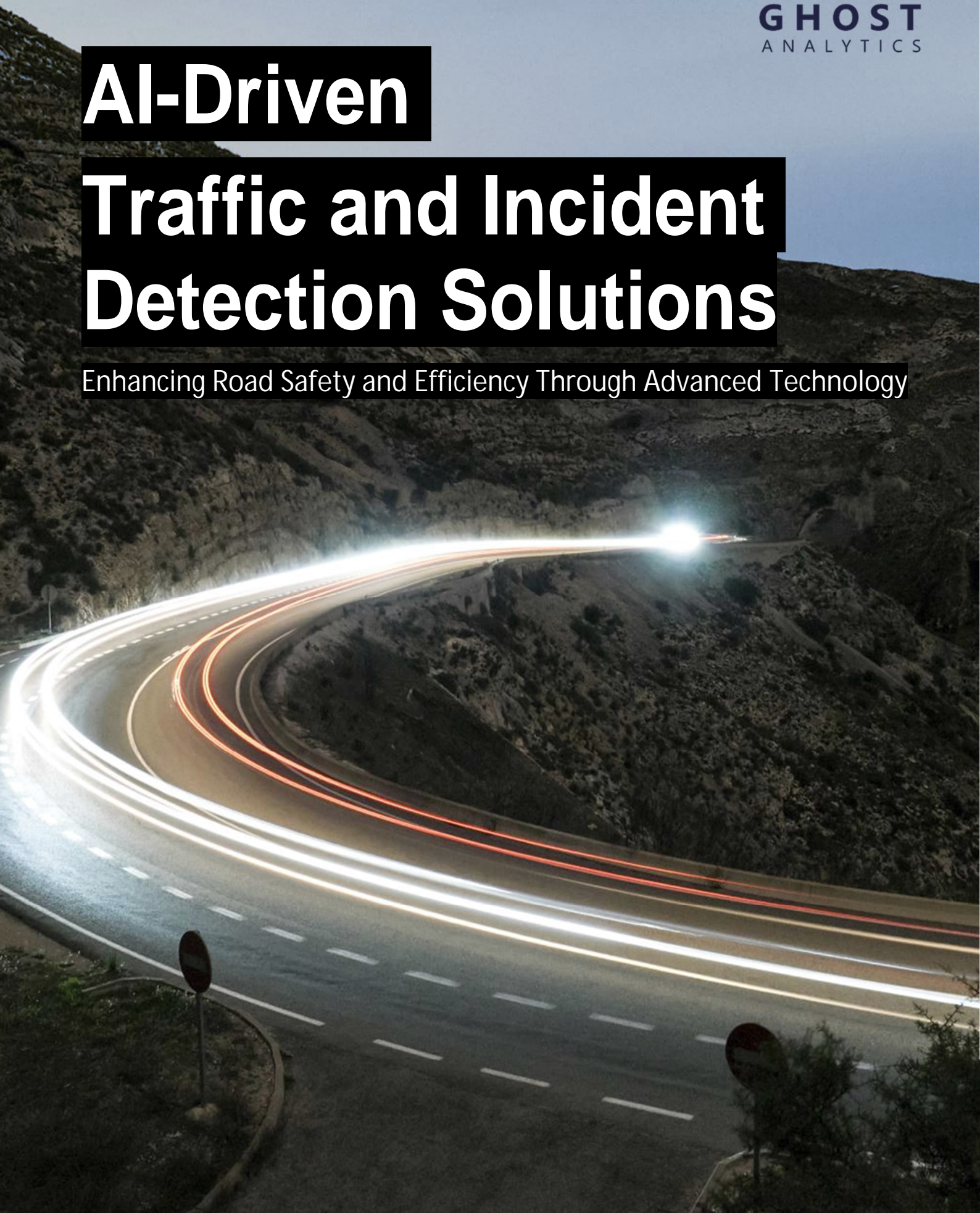


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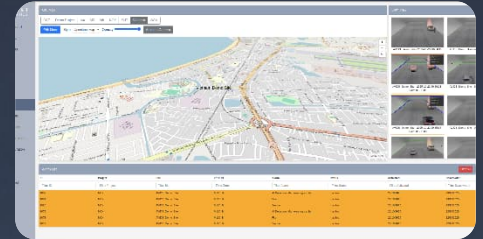
About Ghost Analytics

Ghost Analytics is an Australian AI company specialising in intelligent traffic and incident detection solutions. Our mission is to enhance road safety and traffic efficiency by leveraging existing CCTV infrastructure combined with advanced artificial intelligence to save costs while uplifting safety and accuracy.

Our Solutions

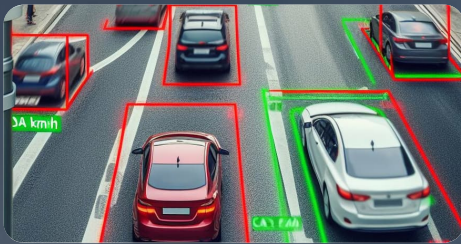
GhostCore

Centralised Management
and Analytics



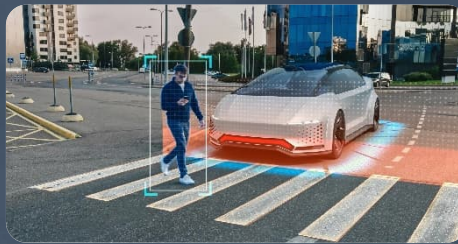
GhostTraffic

Real-time traffic data
analysis



GhostSafety

Incident Detection
and Alerts



GhostDetect

Custom Scenario
Detection

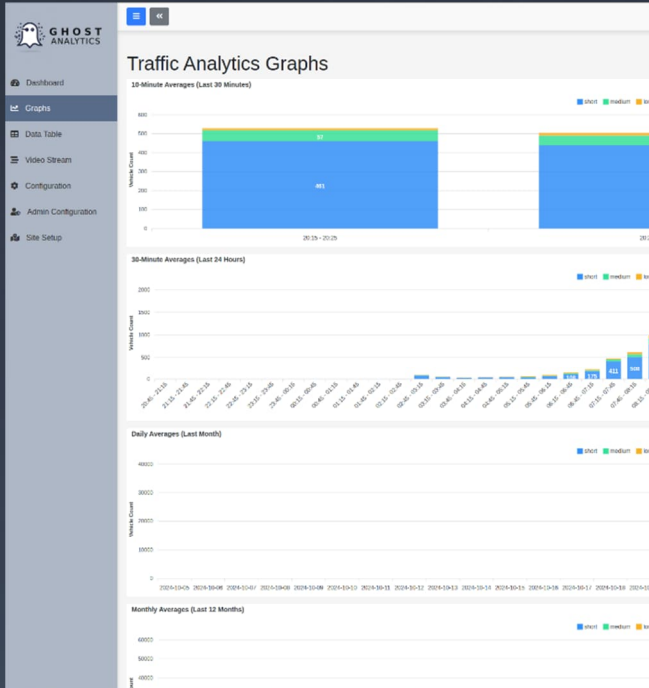


Ghost Analytics' software is designed with flexibility and cost-efficiency in mind, allowing customers to select only the modules they need—whether it's traffic detection, incident management, or custom object detection. By offering a modular approach, clients can avoid unnecessary expenses while still benefiting from a seamless, user-friendly interface through GhostCore. This ensures a tailored, scalable solution that simplifies operations without compromising on performance or accuracy.



GhostCore / GhostTraffic

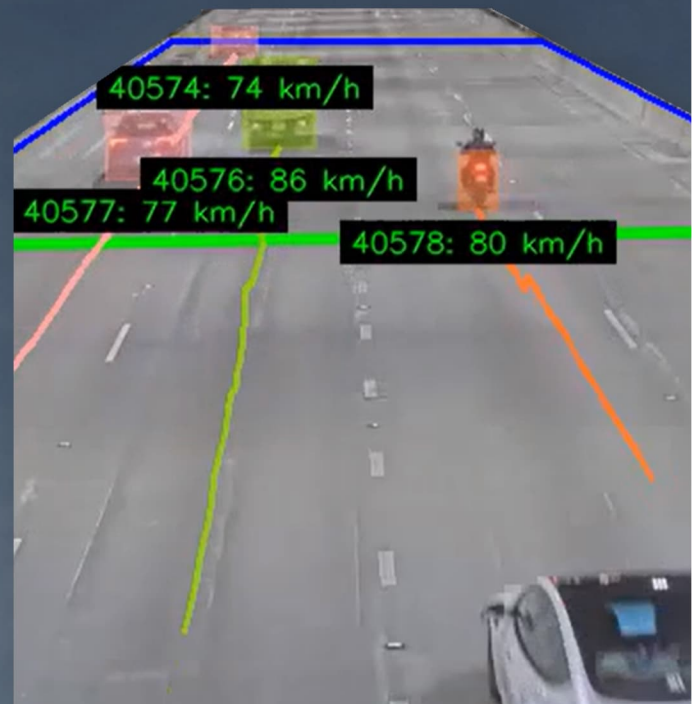
GhostCore



GhostCore is the central hub of Ghost Analytics' software suite, providing a seamless and intuitive user interface for managing all system functionalities. It integrates user management, reporting, alerting, and analytics, offering a unified platform for real-time insights and streamlined operations. GhostCore ensures simplicity, efficiency, and scalability for diverse customer needs.

GhostTraffic

GhostTraffic is Ghost Analytics' advanced traffic detection software, offering real-time vehicle counting, classification, and speed analysis. Designed to replace traditional loop detectors, it provides accurate, reliable traffic insights using AI-powered analytics. GhostTraffic integrates seamlessly with existing infrastructure, delivering cost-effective and scalable solutions for efficient traffic management.



GhostSafety / GhostDetect



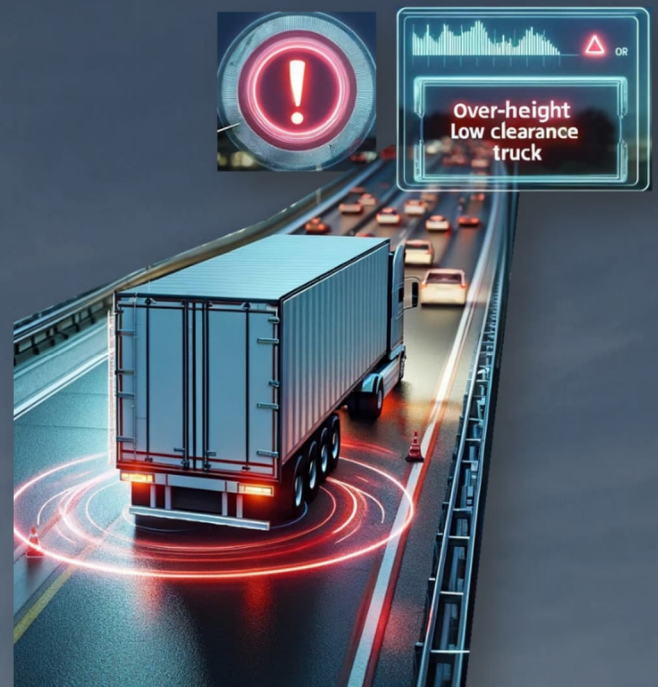
GhostSafety

GhostCore is the Safety Detection algorithm, designed to detect critical scenarios such as:

- Fire and Smoke
- Stopped Vehicle
- Pedestrian on road
- Debris on road
- Near-miss

GhostDetect

GhostDetect is Ghost Analytics' custom object detection module, designed to address unique customer requirements with precision. Leveraging advanced AI technology, it enables seamless identification and tracking of specialised objects, providing tailored solutions for diverse industries. GhostDetect ensures flexibility, accuracy, and efficiency in meeting specific detection challenges.



Key Features and Benefits

Our AI Traffic and Incident Detection system is designed to enhance the efficiency and safety of traffic management using state-of-the-art AI technology. With a focus on accuracy, simplicity, and security, Ghost Analytics' solution is engineered to meet the needs of modern infrastructure projects, including those that require offline capabilities.

A.I.

AI Detection

- » Utilises standard CCTV footage
- » Intelligent Incident Detection



Secure and Resilient

- » Multi-Factor Authentication Enabled
- » Built to IEC 27001 TS 06305



Multi-Protocol Support

- » SQL, OPC, gRPC, NTCIP
- » TSI-SP-026 Protocol, TS912 Classifications



Fully Featured UI

- » Configuration within minutes
- » Live Analytics & Alarms



Onshore Development and Support

- » Developed and Tested in Australia
- » 24/7 Local Australian Support



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Performance and Reliance

Ghost Analytics' system is battle-tested and proven, delivering 99% accuracy across diverse environments, including tunnels, highways, and urban roads.



Extensively Tested

» Analytics performed over thousands of hours across varied environments including tunnels, highways, and urban intersections.



High Accuracy

» Achieved up to 99% detection accuracy, consistently outperforming traditional technologies.



Seamless Integration

» Designed to work flawlessly with existing CCTV infrastructure and traffic management systems.



Scalable Solution

» Proven reliability in diverse weather and lighting conditions, maintaining consistent accuracy.



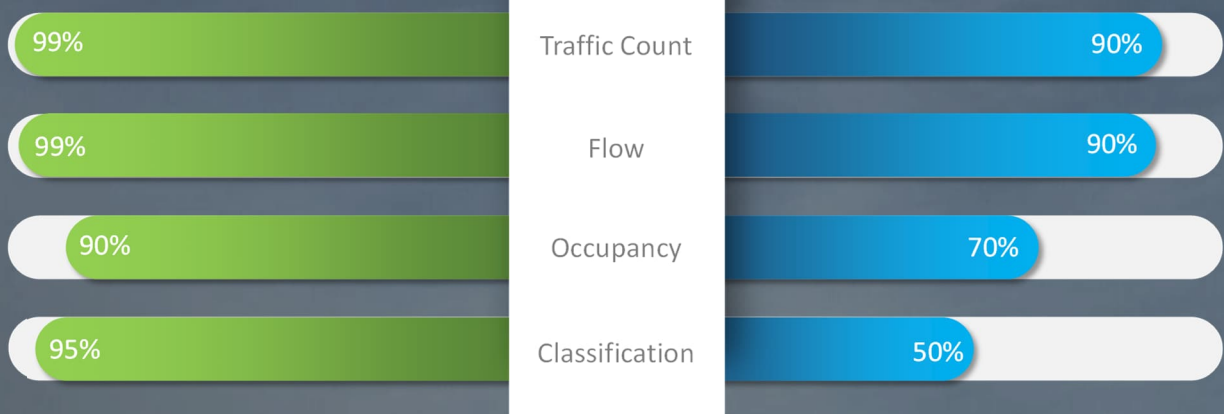
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AI Traffic Detection

Includes incident detection involving fire, smoke, debris and more and utilises existing CCTV.

Legacy Solutions

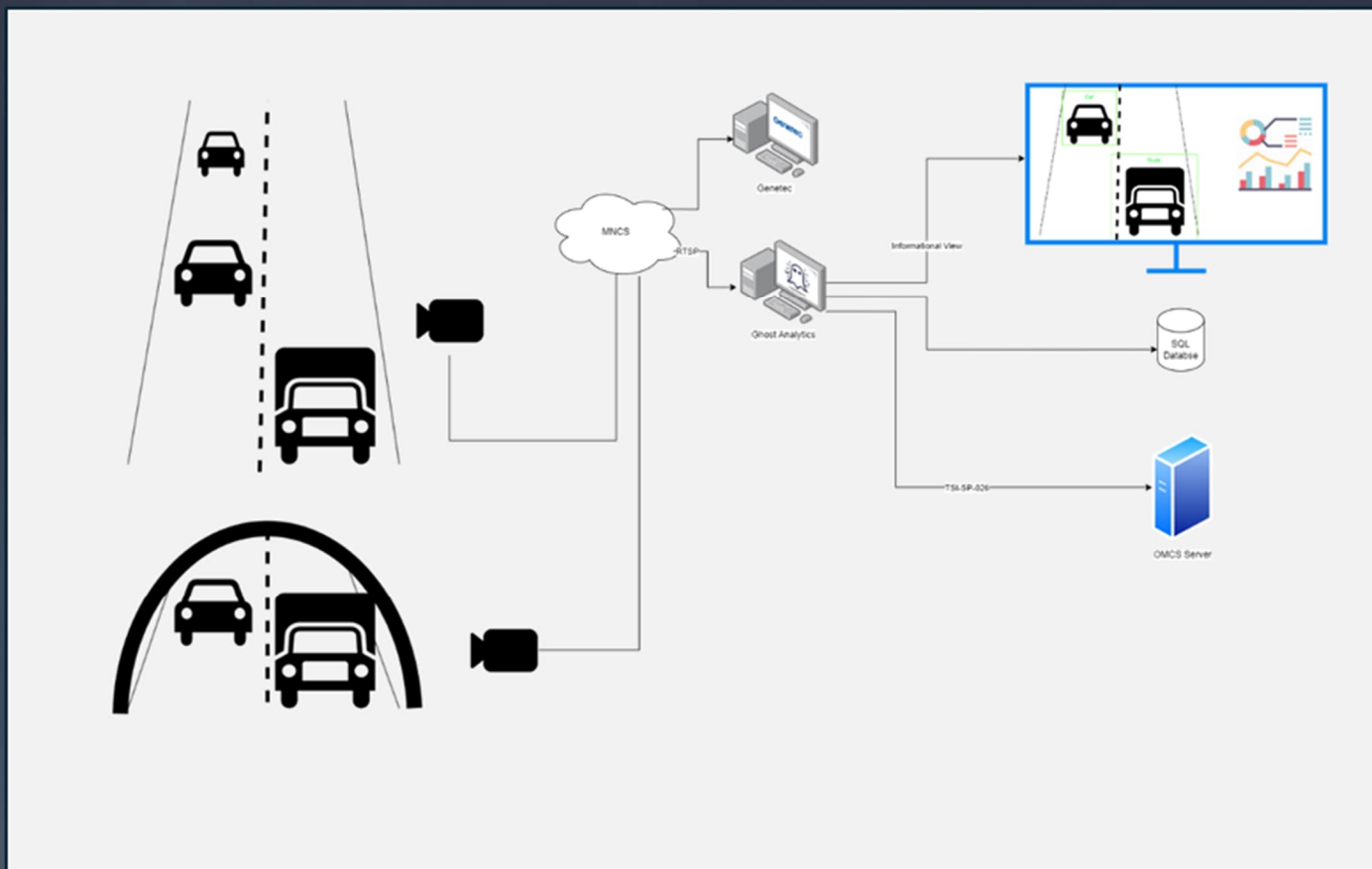
Including inductive loops and radar



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How does it work?

Our solutions has been thoughtfully designed to leverage your existing infrastructure, including CCTV systems and network configurations.



Our AI-driven solution integrates seamlessly with your current setup, requiring minimal adjustments. This ensures smooth operation with no significant disruption to ongoing processes, allowing you to enhance your traffic management and safety systems without costly overhauls or downtime.

This means:

- ✓ No new camera systems to be installed and commissioned
- ✓ Less assets to maintain
- ✓ Less points of failures for critical operation.

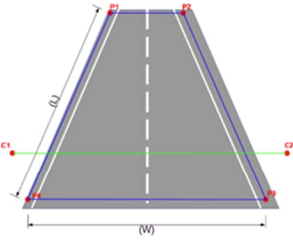
Our system is also cable of performing edge processing or central processing via a server.

User Interface Showcase


Interactive Site Setup

Stream Preview and Road Geometry Setup

RTSP URL: [Load Camera Preview](#) [Start Road Geometry Setup](#)



- 1. Load Camera Preview
- 2. Start Geometry Setup
- 3. Place P1
- 4. Place P2
- 5. Place P3
- 6. Place P4
- 7. Place C1
- 8. Place C2
- 9. Save Parameters



Click the location of C2

Setting Parameters

Select Site:

RTSP URL:

Polygon Coordinates

P1_x	P1_y
<input type="text" value="402"/>	<input type="text" value="205"/>
P3_x	P3_y
<input type="text" value="835"/>	<input type="text" value="519"/>

Line Zone Configuration

C1_X	C1_Y
<input type="text" value="544"/>	<input type="text" value="202"/>

Lane Configuration

Lane 1 Start:

Lane 2 Start:

Detection Parameters


Number of Lanes	Speed Multiplier
<input type="text" value="2"/>	<input type="text" value="1.6"/>
Confidence Threshold	IoU Threshold
<input type="text" value="0.5"/>	<input type="text" value="0.5"/>

Target Dimensions

Target Width:

[Save Parameters](#)


Live Dashboard



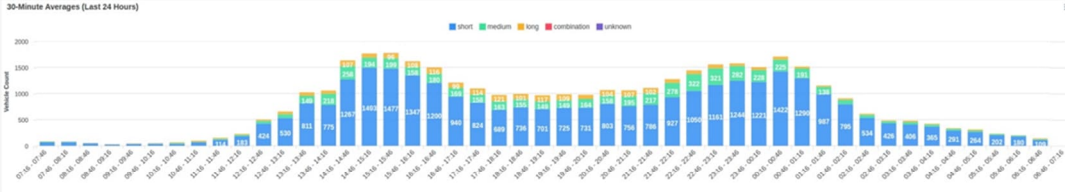
Dashboard | [Graphs](#) | [Data Table](#) | [Video Stream](#) | [Configuration](#) | [Admin Configuration](#) | [Site Setup](#) | [Toggle Theme](#) | [Logout](#)

Traffic Analytics Graphs


10-Minute Averages (Last 30 Minutes)



30-Minute Averages (Last 24 Hours)



Daily Averages (Last Month)



User Interface Showcase

GhostCore (GIS Interface)

The screenshot displays the GhostCore GIS Interface. On the left is a navigation menu with options like System Dashboard, Graphs - Traffic, Data - Traffic, Video Stream, GIS Map, Road Schematic, External Interfaces, Workflow Automation, Admin Configuration, Project Setup, Site Setup, and Analytics Control. The main area features a 3D map of a city with a 'Vietnam Demo Site' highlighted. Above the map are controls for CCT, Demo Project, M4, M5, M8, NCK, SHT, Vietnam, and WVCX, along with buttons for Edit Mode, Style, OpenStreetMap, Opacity, and Animate Camera. On the right, a 'Cam View' section shows a grid of camera feeds with timestamps and alarm IDs (e.g., 1065, 1066, 1067, 1079). Below the map is an 'Alarm List' table.

ID	Project	Site	Zone ID	Alarm	Status	Activated	Deactivated
1062	NCK	AVDS_Demo_Site	M110_B	AI Detection (Man wearing a suit)	Inactive	22/10/2025	23/10/2025
1061	NCK	AVDS_Demo_Site	M110_B	Fire	Inactive	22/10/2025	23/10/2025
1060	NCK	AVDS_Demo_Site	M110_B	Smoke	Inactive	22/10/2025	23/10/2025
1079	NCK	AVDS_Demo_Site	M110_B	AI Detection (Man wearing a suit)	Inactive	22/10/2025	23/10/2025
1078	NCK	AVDS_Demo_Site	M110_B	Fire	Inactive	22/10/2025	23/10/2025
1077	NCK	AVDS_Demo_Site	M110_B	Smoke	Inactive	22/10/2025	23/10/2025

Incident Detection (GhostSafety)



Contact Us

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