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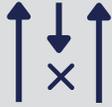
Traffic Analyzer Hub

From Reactive Monitoring to Proactive Intelligence
Delivering Edge AI Analytics With Precision and Accuracy

Counter-Flow Detection

Instantly detect and alert when people or vehicles move in conflicting or unexpected directions across any field of view.

Identify wrong turns, frequently occurring traffic errors, and one-way violations to improve overall traffic flow planning.

Zone Heat-Mapping

Identify and react to 'hot' and 'cold' traffic zones to enhance operational efficiency and flow management.

By mapping clusters and high-volume areas, ease congestion and implement counter-measures to improve access, flow, and departure within critical circulation zones.

Customized Parameters, Zones, and Violation Rules

- Establish zones across each camera within your network
- Define inclusion or exclusion areas to create manageable sectors
- Edge or Central detection with customizable sensitivity to focus on what matters most
- Create pathway deviation and boundary-crossing rules

Loitering and Non-Movement

Set rules for delays, loitering, and stoppages within defined zones, ideal for restricted or traffic-sensitive areas.

By segmenting traffic and queue areas, detect when people or objects become stationary at key hotspots to enhance staffing decisions and future planning.

Object Counting And Cluster Identification

Apply traffic analytics in critical areas to support key decision-making, and ensure infrastructure or building management prevents overflow, security risks, and overcrowding.

Monitor flow for efficiency, hazard prevention, and risk assessment, and enhance operational readiness.

Slip/Fall Instance Alerts

Configure custom slip and fall detection rules that instantly identify incidents, trigger immediate alerts, and safeguard both public and on-site personnel.

Ideal for high-risk work environments, vulnerable individuals, and potentially hazardous situations.

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MONITOREAL

Traffic Analyzer Hub

Delivering Real-Time Data, Entirely On-Premises
Achieve Operational Excellence with Absolute Security

Introduce Advanced Video Analytics to Your Surveillance Network Without Cloud Dependencies

There's no need to rip and replace your existing system with "smart" AI cameras just to gain insights. Simply plug and play the intelligence directly into your current setup.

Turn Any Existing CCTV System into a Traffic Analytics Powerhouse

All Monitoreal devices are compatible with existing CCTV infrastructure, meaning you don't need to worry about which AI cameras to choose, how many are required, or the installation costs. Our hub acts as the brain, and your cameras are the eyes. Simply install it to unlock the full potential of traffic analytics, all processed securely on-site.

No Cloud, No Latency, Immediate Response

Powered by Edge AI to deliver enterprise-level analytics, with no cloud subscription, no bandwidth consumption, and zero latency. Because analytics are processed on the device, you get faster results, enabling you to make critical decisions instantly and confidently.

Data Sovereignty for True Privacy and Security

All data is processed locally on the device, never transmitted to any third party, because even the largest cloud services can suffer outages or hacks. Monitoreal keeps your data entirely within your network and fully protected from external threats.

Purpose-built for smarter traffic intelligence, our Hub is engineered to bring advanced analytics and monitoring capabilities to your network. Enhance your CCTV system to automatically collect and analyze traffic data improving efficiency, decision-making, & operational flow.

Use Case Applications:

- **Transportation Hubs:** Identify and react to anomalies in "hot" or "cold" zones to quickly detect security threats. Flag issues such as unauthorized entry or unusual crowd flow, enabling rapid responses without overloading staff.

- **Smart City Planning:** Reveal and predict foot and vehicle traffic trends in urban areas. Reduce congestion, bottlenecks, and unsafe crossings to improve efficiency and safety. Identify real-time movement patterns, highlight deviations, and provide actionable insights for data-driven urban planning.

- **Industrial Operations:** Deploy across sites to monitor moving entities along designated routes and receive real-time alerts if vehicles or workers stray from expected paths. Ensure safe and efficient operations by detecting hazardous movement, alerting supervisors, and preventing potential injuries.

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