

IntelliAID Tunnel

Artificial Intelligence
Powered
Automatic Incident
Detection For
Tunnels

YOUR SMART TOOL ASSURING TUNNEL SAFETY

MONITOR EVERY CAMERA 7/24

Monitoring hundreds of CCTV cameras in tunnel and highway traffic control centers is a monumental task for human operators. With IntelliAID, using advanced artificial intelligence and video analysis algorithms we simplify this challenge by providing reliable, real-time incident detection to assist operators in making fast, informed decisions.

OBTAIN PROACTIVE PERCEPTION

Empower your traffic control centers with real-time insights, enabling swift responses to critical incidents before they escalate. Our system's advanced detection capabilities transform passive monitoring into proactive decision-making, ensuring safety and efficiency on every road and tunnel.



TRAFFIC INCIDENTS

- Stopped Vehicle
- Reverse Direction
- Low Speed Vehicle
- High Speed Vehicle



SAFETY ISSUES

- Animal In Tunnel
- Pedestrian In Tunnel
- Foreign Object On Road



FIRE INDICATORS

- Fire/Flame Detection
- Smoke Detection
- Low Visibility Detection



METRICS FOR TRAFFIC

- Vehicle Count
- Vehicle Classification
- Traffic Volume
- Lane Occupancy
- Travel Time

MAJOR FEATURES

HIGH ACCURACY

Our system ensures exceptional reliability with outstanding detection accuracy, enabling operators to detect incidents swiftly in real-time by effectively using state of the art artificial intelligence neural network models. With ultra-low false alarm rates, it provides the confidence needed for decisive and accurate responses.

INDOOR/OUTDOOR OPERATION

Optimized for tunnel environments, our system provides seamless monitoring of both the interior and entry/exit points of tunnel tubes from outside, where accidents frequently occur. This ensures comprehensive coverage and rapid detection of critical incidents.

PROGRAMMABLE AUTOMATIC ACTIONS*

Customize automated responses to specific incidents, enabling the system to trigger predefined actions such as alerts, signage updates, or traffic control measures. This streamlines operations and ensures timely interventions.

HIGH RESILIENCE

Our system is designed to be highly resilient to changing lighting, weather, and traffic conditions, ensuring consistent performance in any environment. Thanks to advanced artificial intelligence powered video analysis algorithms, from sudden glare to heavy fog or fluctuating traffic flow, it maintains accuracy and reliability at all times.

GIS MAP / TUNNEL PLAN*

Our system integrates GIS maps and vector graphics tunnel plans to pinpoint the exact location of incidents within tunnel networks. This enables operators to respond swiftly and accurately to critical situations.

MULTI-LANGUAGE USER INTERFACE

Our user-friendly interface supports multiple languages, ensuring accessibility and ease of use for operators worldwide. Adapt the system to fit the linguistic needs of your team effortlessly.

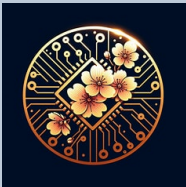
SPECIFICATIONS

ACCURACY**		Input Source	
STOPPED CAR	>%95	Input Format	Any IP Camera
REVERSE DIRECTION	>%95	Cameras Per Server	TCP/IP RTSP
ANIMAL IN TUNNEL	>%90	Operating System	16, 32, 48, 64
PEDESTRIAN IN TUNNEL	>%95	Processing Frame Rate	Linux
FOREIGN OBJECT >40cm	>%90	Detection Latency	10 fps
FIRE/FLAME	>%85	SCADA API	<10 secs
SMOKE	>%85	Power Consumption	ModbusTCP, OPC
LOW VISIBILITY	>%90	Power Supply	5W per camera
*Optional features		Error Detection and Diagnostics	Dual Redundant SMPS
**On ideal and clear visibility operating conditions			Cam. Communication Loss, Visibility Loss, Low Quality Image, Device Errors

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