

SynVIDS

VIDEO BASED INCIDENT DETECTION SYSTEM

SynergyLabs VIDS system is based on deep neural networks with the ability to fast incident detection, verification and resolution and providing a highly accurate and robust system to capture diverse type of incident.

SynergyLabs VIDS provides accurate and reliable vehicle tracking and automatic incident detection for highways, expressways. With an aim to make our road safer and ensuring a smooth traffic flow, our VIDS can detect following incident-

- **Vehicle wrong way detection**
- **Vehicle speed detection**
- **Traffic congestion detection**
- **Stopped vehicle and zone occupancy detection**
- **Detection of deceleration**
- **Detection of fog/smoke**

Overview

- **Supports multiple lines** with all types of line combinations
- **Raise an alert** of the incident
- **24*7 intelligent monitoring** of the road
- **Faster** response time
- **Speed detection** can ranges between 0 to 150 km/hr

System Features

- **View/Zoom/Print** images and extract detailed report of incident
- **Customized** Dashboard
- **Easy/Quick integration** with e-challan system, RTA, VAHAN Database
- **Works** with real time video and recorded video
- **Agnostic** to 3rd party Video Management System
- **Cost effective** and low maintenance
- **Works** with any IP Camera
- **Customizable** from single lane to 8 lane intersection
- **Interoperable** among various systems
- **Exportable** and viewable reports
- **API/SDK** Available
- **OS Linux**



Process Flow

- **Detection and Video Capture:** The system automatically detects a vehicle in the camera view using video detection and capture the incident.
- **Vehicle status alert:** The system automatically generates alert to control room for the incident.
- **Vehicle log module:** The system enables easy and quick retrieval of snapshots, video and other data for post incident analysis.

Application Area

- **Traffic Enforcement-** Crop off the traffic to improve the traffic flow
- **Highway Junction Monitoring**
- **Smart Cities**



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Description	Specification
CAMERA SPECIFICATION	
FRAME RATE	60 FPS
Resolution	2MP
Format	1920 * 1080
Interface	IP
WDR	120 db
HLC	Supported
BLC	Supported
VIDEO Compression	H.265 & H.265+, MJPEG
LENS SPECIFICATION	
Sensor	1/1.8, 2.0 megapixel, progressive scan, CMOS
Lens	6.5 ~ 143mm
FOCUS	Automatic focusing and motorized zoom lens
Protocol	TCP/RTSP
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API
IR Range	Smart-IR, up to 200m (656ft) IR range
Day/ Night Functionality	IR-cut filter with auto switch (ICR)
Power	DC 12V±25%, AC 24V±25% ,PoE (IEEE 802.3at) Power consumption: 13.7W
Ingress Protection	IP67

