

SynNPR

AUTOMATIC NUMBER PLATE RECOGNITION SYSTEM

Synergy Labs ANPR system is based on deep neural networks with the ability to understand number plate patterns providing a highly accurate and robust system to capture diverse type of number plates.

Our Automatic Number Plate Recognition is a technology that uses **Optical Character Recognition (OCR)** to automatically read license plate characters. As the vehicle moves, it photographs license plates and transmits plate data to a database.

A high-resolution video-based technology ensuring continuous traffic safety by detecting number plates of the vehicles in its field of view automatically



Overview

- **Detection** on Standard/Non Standard, Reflective/Non Reflective, Commercial /Non-Commercial /Electric Vehicles Number Plates, Two Wheelers.
- **Performance** accuracy for standard plates >98% at various lighting conditions.
- **Face Capture** Feature
- **Detect** License Plates in the field of view of 1-2 lanes

System Features

- **View/Zoom/Print** violated images and extract detailed report of violations
- **Customized** Dashboard
- **Easy/Quick integration** with e-challan system, RTA, VAHAN Database
- **Works** with real time video and recorded video
- **Detect**, Recognize and Search License Plates and recording of cameras
- **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

- **Vehicle Detection and Video Capture:** The system automatically detects a vehicle in the camera view using video detection and activates license plate recognition in real time.
- **Vehicle status alarm:** The system automatically generates alert to control room for vehicles on watch list.
- **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
- **Smart Cities/ Societies-** Open bar for registered vehicles & alert/bar entry on Guest vehicle
- **ETC (Electronic Toll Collection)-** Track record of all vehicles pass through.
- **Parking Management-** Alerts on space availability, secure parking without going to a payment center
- **Industrial Automation (WMS)-** Record of company registered and visitor's vehicles.



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Description	Specification
CAMERA SPECIFICATION	
FRAME RATE	30 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	1/2.8, 2.0 megapixel, progressive scan, CMOS
Lens	4.7 ~ 47mm
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 100m (328ft) 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

