

The background features a large, stylized image of a road sign. On the left, a rectangular sign with a blue border and a checkered top edge reads "RED LIGHT SPEED CAMERA AHEAD" in blue capital letters. Below the text is a blue camera icon and a blue signal icon. To the right is a circular speed limit sign with a red border and the number "40" in black. The entire scene is set against a blue sky and a road surface.

## Speed Violation Detection (SVD)

Speeding is regarded as a factor in nearly one-third of all fatal accidents on the roads. To combat this dangerous and life-threatening behavior, there need to be systems implemented to target speeding vehicles. Speed enforcement systems monitor speed on roads and highways and are more effective in increasing safety and smoothen traffic flow.

EFKON's Speed Violation Detection (SVD) system is a robust and ready-to-integrate system for generating E-Challan to identify vehicles not adhering to the permissible speed limits on the roads. Our SVD system can be applied across:

**ELECTRONIC  
ENFORCEMENT SYSTEMS (EES)**

**INTELLIGENT TRAFFIC  
MANAGEMENT SYSTEMS (ITMS)**

**HIGHWAY TRAFFIC  
MANAGEMENT SYSTEMS (HTMS)**

Contact Us

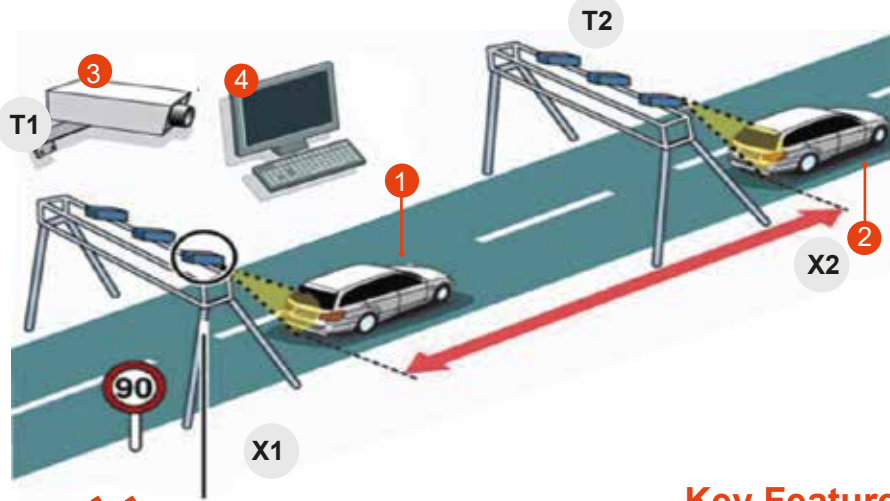
+91 22 4294 9494

frontdesk@efkonindia.com

www.efkonindia.com

## How the SVD system works?

Our Section Speed Detection system is prompted once a vehicle enters and leaves the section within a measured track. As depicted in the figure below:



1. The vehicle passes through the first gantry located at X1, where the rear-image of the vehicle license plate is captured at timestamp T1
2. The vehicle then passes through the second gantry located at X2 where again the rear-image of the vehicle license plate is captured at timestamp T2.
3. The data from these two timestamps is sent to the Command Center, where the sectional speed of the vehicle is calculated based on time taken  $(T2-T1)$  to cover distance  $(X2-X1)$
4. If the speed limit is more than the permissible limits, challan is generated for the violator



*Efkon is in the process of developing a new Spot Speed Enforcement device to determine the measurement of 'spot speeds.' An ANPR camera platform, integrated with tracking radar module, this system represents a step ahead in the speed enforcement technology.*

## Key Features

- Maximum speed limit for detection is 160kmph
- High definition image capture
- Automatic challan generation
- Highly connected communication network (wireless and OFC)
- Fully customized reporting system to meet unique business requirements
- Ease of integration with e-Challan software

## Advantage of using EFKON's SVD system



Accuracy of detecting speed violation ~95%



Integration with speed display systems helps to inform the road user about crossing speed limit



Applicable on urban highways, expressways, rural roads, intra-city roads



Easy maintenance and highly scalable system



Customizable speed limit, based on time of the day

## Why EFKON?

18 years of domain expertise and seasoned cross-functional teams

Strong presence in the growth markets (highways and smart cities)

End-to-end traffic management system products

Track record of award-winning successful project executions

## Our key clients include



## EFKON – A Global Leader in Intelligent Traffic Management Systems

EFKON India is a pioneer in bringing innovative products for Intelligent Traffic Management system in India since 2001. It is a wholly-owned subsidiary of STRABAG, a leading infrastructure company with revenue of € 15.67 Billion (2019). EFKON India help clients with end-to-end solutions for:

- Advanced Traffic Management System for Smart Highways and Smart Cities
- Intelligent Revenue Collection and Assurance Systems for Smart Highways and Smart Cities
- Intelligent Transport Management Systems for Logistics and Fleet Operations

For more information, please visit [www.efkonindia.com](http://www.efkonindia.com).



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