



The background of the top half of the page is a photograph of a road with a camera mounted on a building. The camera is pointing towards the road. There are several vehicles on the road, and blue rectangular boxes are overlaid on them, indicating that the system is detecting and tracking them. The overall theme is orange and white.

Automatic Traffic Counter and Classifier (ATCC)

Collecting real-time, reliable, and precise vehicle flow information is crucial for instant management of traffic on roads. To maximize the capacity of city roads as well as highways, continuous vehicle monitoring, counting, and classification efforts need to be carried out to understand seasonal, day-of-the-week, and time-of-the-day traffic volume patterns. Automatic Traffic Counter and Classifier (ATCC) monitors the real-time traffic flow of a road section, keeps count of vehicles, and classify them according to their pre-defined classes.

Overview

EFKON's Video-based Automatic Traffic Counter and Classifier (ATCC) is a standalone ATCC system based on neural network/map matching technique. It gathers real-time traffic data, including vehicle count, classification, traffic volume, average traffic speed, time headway, direction of travel and occupancy. Our system can count and classify vehicles up to five classes:

- **Motorcycles/two-wheelers**
- **Trucks/buses**
- **Light Motor Vehicle (LMV)**
- **Light Commercial Vehicle (LCV)**
- **Others (MAVs, OSVs, machine equipment vehicles, etc.**

Contact Us

+91 22 4294 9494

frontdesk@efkonindia.com

www.efkonindia.com

How the ATCC system works?

Below is the process flow of EFKON's ATCC system:



Vehicle
Detection



Vehicle
Separation



Template
Matching



Confidence
Factor



Vehicle Class
Determination

Key Features

- Free flow traffic count and classification, operates 24X7
- Cover up to four lanes of traffic
- Neural Network based classification
- Fully customized reporting system to meet unique business requirements
- Applications across traffic signal design, toll enforcement/free-flow tolling, infrastructure planning, violation detection (vehicle coming from the opposite direction)
- Can detect
 - Parallel vehicles
 - Bi-directional vehicle detection either from left or right side
- Low false classification rate



Advantage of using EFKON's ATCC



High accuracy level
of 95% (traffic count,
vehicle classification)



A complete IP video-based solution:
mobile and non-intrusive solution



Real-time
video analysis



Highly cost-effective
solution



Easy validation
of traffic data



Easy integration
with third party software

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.



twitter.com/efkon_india

facebook.com/efkonindia

linkedin.com/company/efkon-india