

**Case Study**

**ITS Project in Thailand**

- ANPR+ system, securing the main entries & exit of Phrae province
- Violation detection: over-speed, no seat belt, etc.
- Quickly locate suspect vehicles through license plate, car logo, model, car color and other features



**ITS Project in Shanghai**

- More than 2000 illegal parking enforcement system delivered
- Illegal parking automatic detection
- Widely deployed at main roads, bus stations, surroundings of government departments, hospitals, schools

**ITS Project in UAE**

- More than 1,500 ANPR cameras with high-speed radar deployed
- Strong adaptation under high temperature and dusty weather
- Speeding vehicles are fined, effectively reducing over-speeding cases

**ITS Project in Suzhou**

- Petrel vehicle big data application system starts in use in 2017
- Nearly 3,000 traffic violations within one week after system was implemented
- 184,000 cases on phone calling, 810,000 case on no-seat-belt in one year
- 142 cases on using fake number plate in one year



[www.kedacom.com](http://www.kedacom.com)

**China (Headquarters)**  
 131, Jinshan Road, New District,  
 Suzhou 215011, P.R.China  
 Tel: (86) 512 6841 8188  
 Email: [international.sales@kedacom.com](mailto:international.sales@kedacom.com)

**Singapore (International Headquarters)**  
 627A Aljunied Road, BizTech Centre, #09-07,  
 Singapore 389842.  
 Tel: (65) 6842 5700  
 Email: [international.sales@kedacom.com](mailto:international.sales@kedacom.com)

**Shenzhen**  
 Room 1709 Building 3, Tianxia,  
 feicuimingzhu, Jinji Road, Nanshan  
 district, Shenzhen, China. 518000  
 Tel: (86) 138 2886 0464  
 Email: [shenzhen@kedacom.com](mailto:shenzhen@kedacom.com)

**Netherlands**  
 Groenhof 344, Amstelveen, 1186GK,  
 The Netherlands.  
 Tel: (31) 020 640 1114  
 Email: [holland@kedacom.com](mailto:holland@kedacom.com)

**Korea**  
 #1802 Daeryung Techno 15th, 401 Simindaero,  
 Dongan-Gu, Gyunggi-Do, Korea 431062.  
 Tel: (82) 31 386 3140  
 Email: [korea@kedacom.com](mailto:korea@kedacom.com)

**Turkey**  
 Merkez: Beşyol Mah. Cami Sok.  
 No:14 K.Çekmece / İstanbul  
 Tel: 0(212) 220 55 50 (Dahili:103)  
 Email: [turkey@kedacom.com](mailto:turkey@kedacom.com)

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# Intelligent Transportation SOLUTIONS

AI + Big Data Secures Road Safety





# System Overview

KEDACOM has been deeply involved in the transportation industry for 8 years. Rather, we have played a significant part in contributing to the construction of intelligent transportation in the major cities around the world with our advanced artificial intelligence technology, big data application and outstanding solutions. The distinctive solutions include traffic violation management, vehicle big data application, mobile law enforcement and intelligent transportation visualization. It was designed to fit around the practical work in the transportation department that can really help to solve all kinds of difficulties and pain points especially in road safety management.



### Command Center

Big data application, intelligent transportation visualization, etc.



### ANPR+ System

City entrance, highway, main roads, etc.



### Mobile Enforcement

Ticketing for violation, vehicle patrolling, body worn monitoring, etc.



### Illegal Parking Enforcement System

Airport, railway station, hospital, school, etc.



### E-Police System

Cross Road, T-Junction, etc.



### E-plate System

Bus, taxi and other key vehicles monitoring



# Traffic Violation Management

More than 10% traffic deaths are caused by distraction such as phone calling, phone playing, and smoking. Not-wearing-seat-belts accounts for 50% traffic deaths. KEDACOM intelligent transportation solution provides various types of violation detections to help reduce the accident rate and the extent of the casualties.

## Driver Behavior Analysis

We provide various driver behavior detections, such as not-wearing-seat-belt, phone calling, phone playing, and smoking

- Millions of samples are used with the AI deep-learning algorithm, producing high analysis accuracy
- The function uses the ultra-low light technology at night, the brightness of KEDACOM LED light is only 1/3 of other companies' light, 1/5 of street light, able to detect the driver behavior without producing light pollution



## Vehicle Violation Analysis

- Abundant vehicle violation analysis, such as over-speeding, running red light, driving against guidance, illegal U-turn, etc.
- Adopting advanced vehicle trajectory tracking algorithm, comprehensively take plate number and vehicle characteristics (color, size, type) into consideration to follow the trajectory of vehicle and achieve accurate violation detection



## Illegal Parking Analysis

- Fully automatic capture without human intervention
- One illegal parking dome can monitor 4 non-stop areas by preset tour
- 70 degrees large angle, >100 meters long distance detection



## Front-end Backup Storage

- Working at 70°C high temperature environment, one device can manage up to 16 ITS cameras on road
- Built-in 2T/4T/8T storage to save the violation picture and video
- Backup the data even network is down, auto uploading to the command center after network recovery





# Big Data Application

