

# TT SMART VISION Truck Detection System



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Truck Detection System is a system that records images of offending trucks. Traffic rules by running in the right lane, causing traffic problems on the road. The system will work with high quality IP Camera to capture real time images. The camera will capture vehicles that are wrong to see the characteristics of the car while wrong. And clear license plate

Which the information obtained Can be used as evidence To report the offense to motorists who violate traffic rules

The screenshot displays the TT SMART VISION software interface. It features a top menu bar with options like File, View, Setting, and Help. The main area is divided into several sections:

- Two live camera feeds at the top, each with a 'Live' and 'Setting' button. The right feed shows a white truck with license plate 79-6280.
- Two vehicle detection result cards below the feeds. The left card shows license plate 62-2740, vehicle type 'รถบรรทุกขนาดใหญ่' (Large truck), and a yellow violation at 150ms. The right card shows license plate 79-6280, vehicle type 'พิกัด' (Coordinate), and a yellow violation at 157ms.
- A table at the bottom listing detected vehicles with columns for ID, license plate, vehicle type, brand, color, date, lane, and status.
- A statistics panel on the right showing counts for total trucks (65), trucks in lane 1 (33), trucks in lane 2 (32), and blacklisted trucks (0).
- An 'Alert' section with a yellow circle icon.

ลำดับ	ภาพทะเบียน	ทะเบียนรถ	จังหวัด	ยี่ห้อ	สี	วันเวลา	ประเภทรถ	พิกัด	ไฟล์ภาพ
64	79-6280	79-6280	พิกัด	@	Yellow	2017-03-15 16:2...	รถบรรทุกไม่ประ...	Exit Lane	C:\sov...
63	๓๖ 6625	๓๖-6625	กรุงเทพมหานคร	TOYOTA	White	2017-03-15 16:2...	รถบรรทุกขนาดใหญ่	Exit Lane	C:\sov...

## System features (Software)

- The system can detect traffic violators.
- The system can detect traffic violators by running in the right lane.
- Three-car system can detect cars, trucks
- There is a data management system such as searching for notes, editing

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- There is a system to send image data via File transfer protocol
- Support database SQL, MySQL, Oracle, Postgres
- The system can be used in conjunction with Software and other systems such as sheets, reports
- The system can record motion pictures of vehicles that violate traffic rules.
- There is an image data management system as evidence. And can issue orders legally

There are 2 types of camera used.

- Camera for holding license plates Is a camera designed specifically for LPR systems  
(\*\* The amount used depends on the number of lanes that you want to detect)
- The camera for analyzing trucks that run right lanes (Overview) with a resolution of no less than 3MP is a Low Light camera (\*\* The amount used depends on the job page)

Features of the camera used to detect

- High resolution image (Network Camera) in case of camera overview. Resolution is not less than 3MP or better.
- In the case of a LPR license plate camera, the distance of the lens can be adjusted. To get the desired image distance The size of the lens is about 12-40mm or 8-50mm.
- Low-pass filter technology for cutting bright light (Car headlight light) for clear images
- There is an infrared set For shining images at night
- The camera supports standard IP66 applications in case of external installation.

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### Installation equipment

- Camera for analyzing trucks that ran right lanes (Overview) and Housing
- In the case of LPR license plate camera, can adjust the range of lenses and housing
- Infrared set (in the case of low light and want to see the night image)
- Comprehensive computer set introducing Corei7 Gen6 Speed 2.6GHz, 8GB RAM, 1 TB HDD Windows 7 professional or better or Windows 10 professional or better
- Uninterruptible power supplies for devices in the system
- Network Switch device
- Webserver device set (in case of need to manage the central system)
- ADSL Router device (in case of need to link and view data from the center)

### Installation characteristics

- The pillars for installing the LPR license plate camera and the camera overview are 5-6 meters in height for detecting objects in the range of 12-15 meters.
- The camera angle for detecting approximate characteristics, press down to see the license plate.
- In the corner for holding the license plate, there must be no obscured objects. In order to obtain accurate information
- Set the camera to capture the license plate image as Night Mode so that it can detect red label registration both day and night (\*\* because at night there will be problems reading the red license plate In case of setting the camera to detect as normal mode)

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### System installation restrictions

- Should choose a Network Camera type designed for use with a specific LPR. It will help make the system work more accurate and accurate.
- Select the software system that has been tested, installed and used And have clear reference information
- Should check the equipment that is used to support the software system used or not. Prevent problems with compatibility of devices.
- View and position in the camera installation Must be tested before actual installation. For the most accurate and accurate results
- The license plate that the camera can capture should be sharp from 150-300 pixel. It will help make the information more accurate and accurate.
- In case of needing to capture a red license plate And license plates that are graphical signs Set the camera to capture the image in Night Mode so that the image can be captured.
- License plates that are damaged, unclear or modified Apart from the Department of Land Transport May result in reduced data accuracy

\*\* The Department of Transportation requires the car license plate to be 15 cm wide and 34 cm long.



ป้ายทะเบียนจากขนส่ง

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ป้ายทะเบียนข่าจรด และ ป้ายพิดกฎหมาย

Example of system operation

The screenshot shows the software interface with the following components:

- Live Video Feeds:** Two windows showing real-time camera views of trucks with red bounding boxes around the license plates. Each window has 'Live' and 'Setting' buttons.
- Detection Results:** Two panels showing detected license plates:
  - Plate: 60-9989, Location: กรุงเทพมหานคร, Time: 2017-03-15 16:28:08, Status: @ Black 123ms.
  - Plate: 61-3922, Location: กรุงเทพมหานคร, Time: 2017-03-15 16:28:48, Status: ISUZU Black 144ms.
- Data Table:** A table summarizing the detections.
 

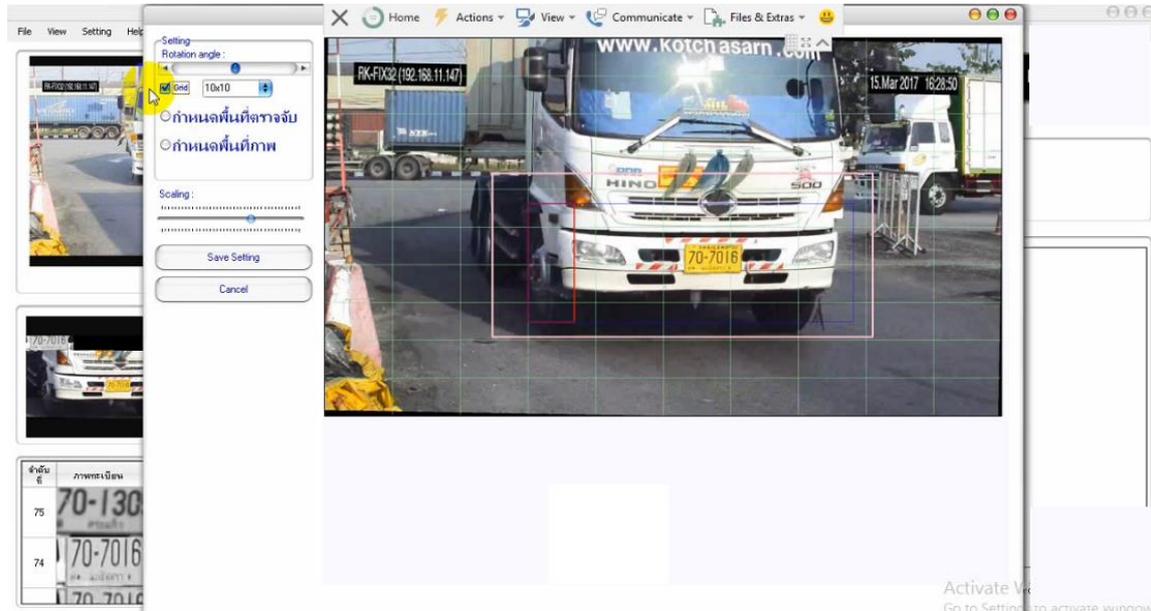
ลำดับ	ภาพทะเบียน	ทะเบียนรถ	จังหวัด	ยี่ห้อ	สี	วันตรวจ	ประเภทรถ	ทางออก	ไฟฟ้
72		61-3922	กรุงเทพมหานคร	ISUZU	Black	2017-03-15 16:2...		Exit Lane	C/sov...
71		60-9989	กรุงเทพมหานคร	@	Black	2017-03-15 16:2...		Entrance Gate	C/sov...
- Summary Panel:**
  - จำนวนรถทั้งหมด : 73
  - จำนวนรถที่ผ่านช่องทางที่ 1 : 38
  - จำนวนรถที่ผ่านช่องทางที่ 2 : 35
  - จำนวนรถที่มีการแจ้งเตือน BlackList : 0

Sample programs at the time of use

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Sample programs at the time of use

## Highlights of the truck detection system

- The program can customize the program to suit the needs of customers.
- Compatible with all brands of CCTV cameras via ONVIF or RTSP standards
- able to notify various events to the Video Management Software program that the customer wants  
Currently supports VMS, NxWitness, VIVOTEK VAST, 3T SMART and others.
- Can be added to use with Speed Radar system to show the speed of the car that Speed Radar can detect.

ติดต่อเรา : โทร. 062-365-6463

บริษัท ทีที สมาร์ท วิชั่น จำกัด : 519/13 หมู่บ้านนาตราสาร โกเพียร์ ถนนพหลโยธิน แขวงคลองจั่น เขตบึงกุ่ม กรุงเทพฯ 10240

