

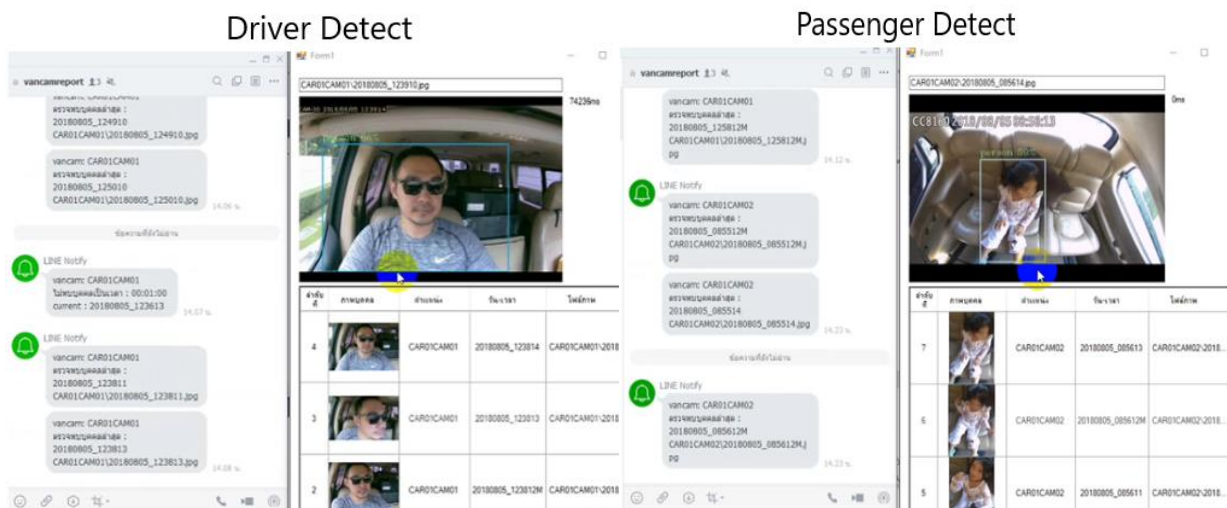
# TT SMART VISION

## Kids alert in the shuttle bus



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The system tells the driver status and alerts in the van. Is a system that helps to inspect drivers and passengers, especially small children. Which is served by a shuttle bus or a bus To prevent passengers or children stuck inside the car which may cause harm to children Like suffocating Until it may cause unconsciousness Or can die The child alert system in this school bus There will be a built-in CCTV system that monitors passengers who are stuck inside the car and promptly notify the relevant parties. To prevent children from being stuck inside the car and able to help in a timely manner



### System working

When the driver starts the car, the system will be activated within 30 seconds. After that, within 1 minute, the system will be ready to run and the system will send still images from the camera that is installed in the car every 1 minute. Seconds that are connected to the cloud processing system or AI, which acts as a check for finding objects or children stuck in the area where the camera captures the camera's angle Then will alert and inform the status The rear-mounted camera in the passenger's seat line will check for children who are stuck inside the car. The front camera will check the driver's address or not.



In the case of using a camera that has a DI, DO system, it can be connected to the sensor device to check the start or stop situation of the engine. Will be able to immediately know that the car is currently stuck or parked off the engine

### System features (Software)

- The system can check passengers that are stuck inside the car.
- The system can check the status of the driver.
- The car system can check the status of the car whether it is stuck or can be turned off.
- The system can be ordered to move up and down of the auto glass.
- There is a data management system such as searching for notes, editing
- There is a system for recording images inside the car and sending image data via the File transfer protocol system.

### The features of the camera

- High resolution (Network Camera), resolution not less than 2MP or better
- can change the distance of the lens To get the desired image distance
- Low pass filter technology for cutting bright light for clear images
- There is an infrared set For shining images at night

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### Installation equipment

- Camera for detecting images inside the car
- 4G + PoE Router 4 port device, 8 port
- Uninterruptible power supplies for devices in the system
- Video Server device (in case of checking the status of the car And control the opening of the glass of the car)
- Inverter unit set (electricity conversion kit)

### Installation characteristics

- In the case of a car with 3 rows, 11 seats including driver Will install a camera for checking passengers 1 row per 1 camera, a total of 3 cameras and installing 1 camera for detecting the behavior of the driver whether or not included into 4 cameras
- If the car is a 4 row, 13 seats, including driver Will install a camera for checking passengers 1 row per 1 camera, a total of 4 cameras and installing 1 camera for detecting the behavior of the driver whether or not to include 5 cameras
- All cameras will be compatible with the built-in PoE 4G Router to supply power to all cameras. And send data to the central cloud processing system for analysis of system checks

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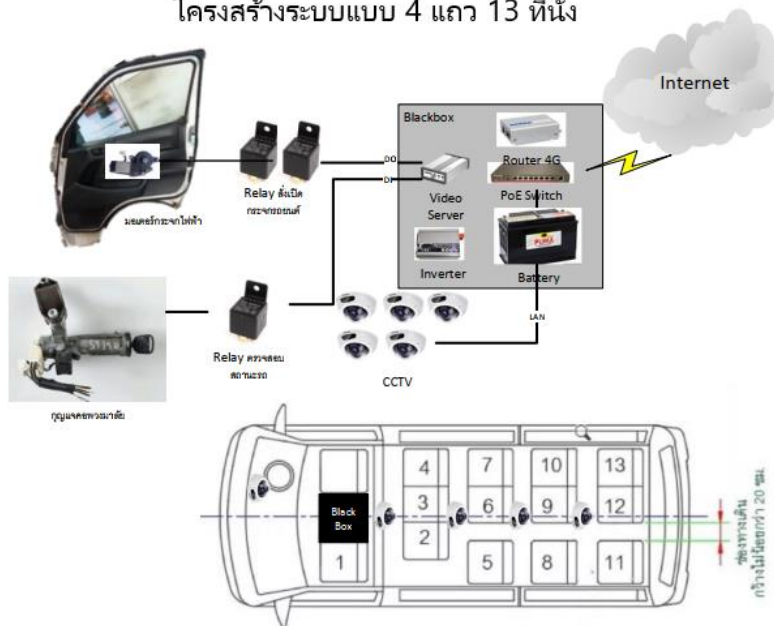
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### System structure

#### โครงสร้างระบบแบบ 4 แถว 13 ที่นั่ง



#### โครงสร้างระบบแบบ 3 แถว 10 ที่นั่ง



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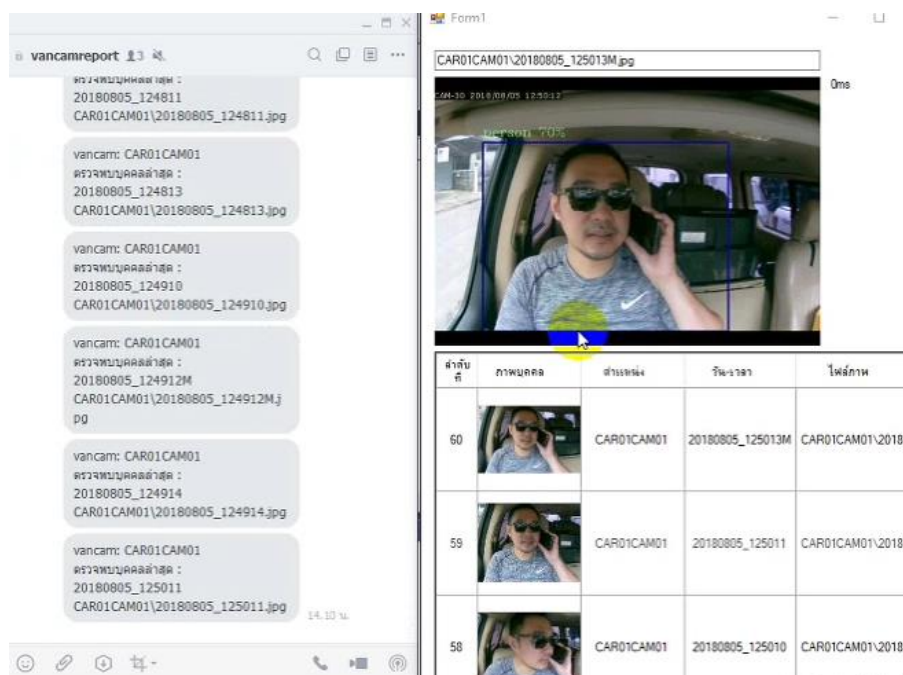


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### System installation restrictions

- The camera used should be Network Camera because it is a high resolution camera.
- 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

### Example of system operation

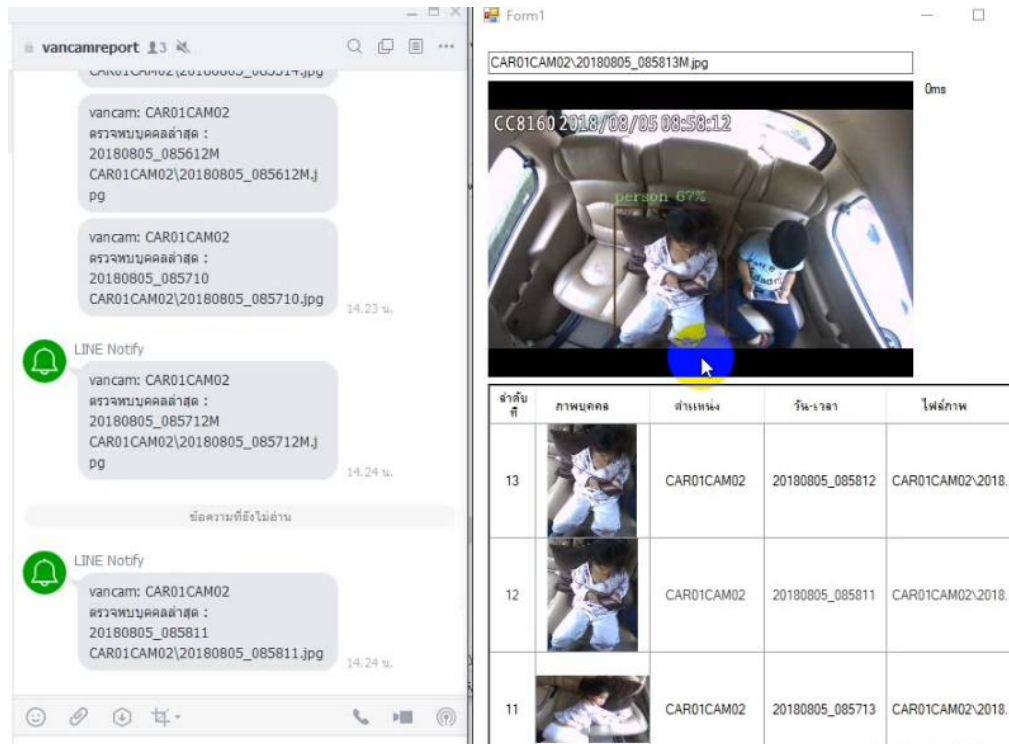


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### System Highlights of Kids alert in the shuttle bus.

- The program is developed with a team of Thai people so can customize the program to suit the needs of customers.
- Compatible with all brands of CCTV cameras via ONVIF or RTSP standards

ติดต่อเรา : โทร. 062-365-6463

บริษัท ทีที สมารท วิชั่น จำกัด : 519/13 หมู่บ้านนาสารี โทเพียร์ ถนนพหลโยธิน แขวงคลองจั่น เขตปทุมธานี กรุงเทพฯ 10240

