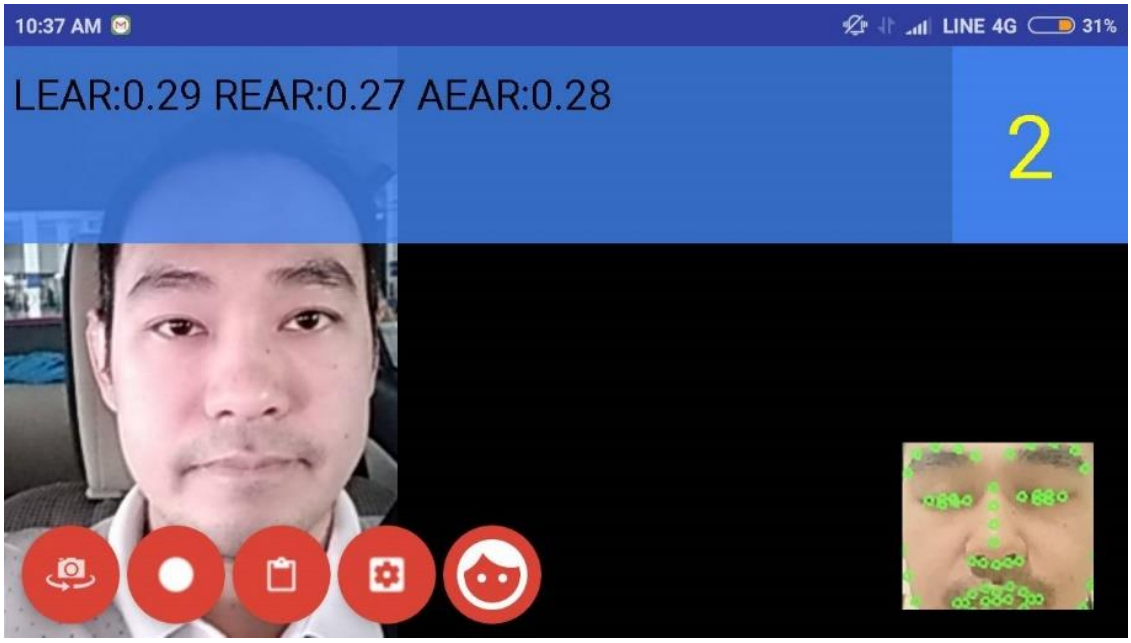
TT SMART VISION

Red Alert Drowsiness System

TT SMART VISION CO., LTD.

Today we will find that many motorists on the road Have to endure stubbornness with little rest Or some people do not sleep and drive Which all of this All of the causes that cause sorrow or sleep while driving. As a result, there was only a panic when the car was about to run off the path to the side lane. To the road accident Which brought many casualties Especially during the long holiday season, many people have to drive to travel back to their homeland. Or driving a tourist car that has a long distance This also includes a van driver career. Public buses that need to drive to pick up passengers who travel a number of trips per day Are all at risk of falling asleep.

The Red Alert Drowsiness System is a tool to help alert drivers who are in opiates. Or such risk conditions do not randomly risk accidents The program is designed to save lives and prevent misfortunes and losses that may occur to life, property of individuals and organizations. The program is developed on the Android operating system to be able to monitor Which can be notified immediately When detecting risk behavior.



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System properties

- Supports switching the front or rear camera for detection
- Detect the time before blinking (Eye Blink Interval) in seconds.
- Detect the eyelid width of the eye (Eye Aspect Ration) by both the left eye, right eye and average
- Detects and counts the time that the driver closes his eyes. Sleep Count, in seconds
- Supports drivers who wear clear eye glasses while driving.
- can alert immediately when entering the conditions via the APP by sending a warning sound and flashing the Flash light
- can alert immediately with still images Which can be sent to email or Line Notify
- with Auto Learning system, driver's face image To suggest appropriate settings
- Can set Sleep Interval to reduce the occurrence of false alarms
- Have a system to record driving quality To be able to give driving points
- able to track the current position of the car With the contact number of the driver

System working

Before starting to use, the user or driver will have to enroll the face to the system first to create a Driver Account for use as a sleep monitoring system on the car.

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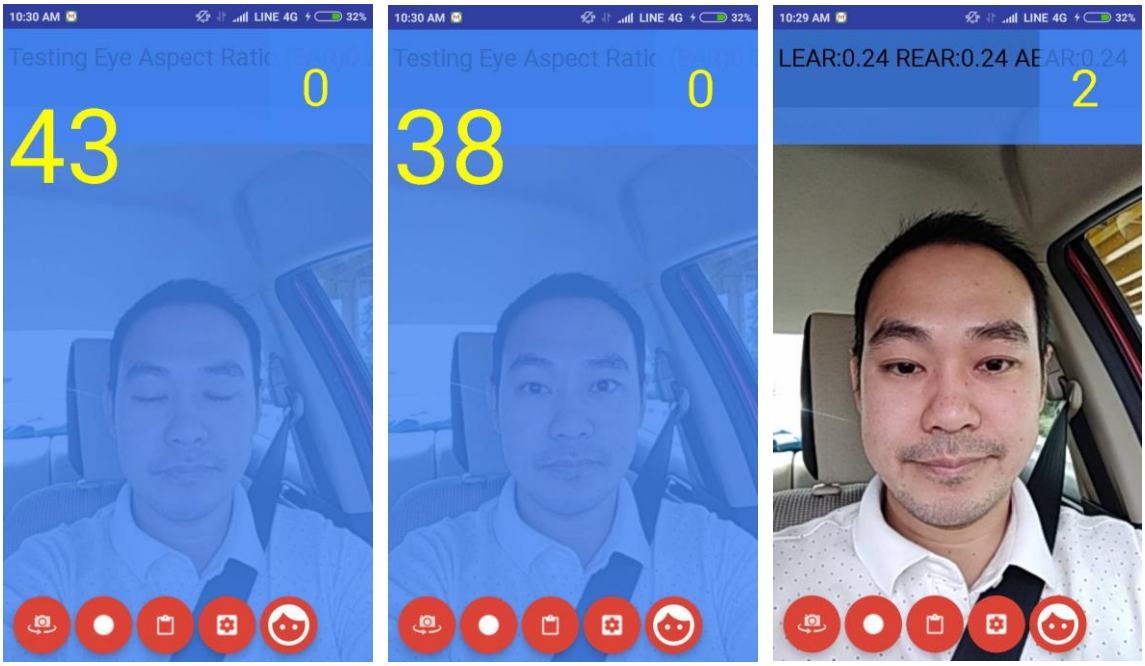

Meaning of abbreviations displayed on the program

LEAR = is the value that measures the upper and lower eyelids of the left eye.

REAR = is the value that measures the upper and lower eyelids of the right eye.

AEAR = average of both upper and lower eyelids.

Yellow number in the top right corner Is the period of detection When the eyes are not flashing.

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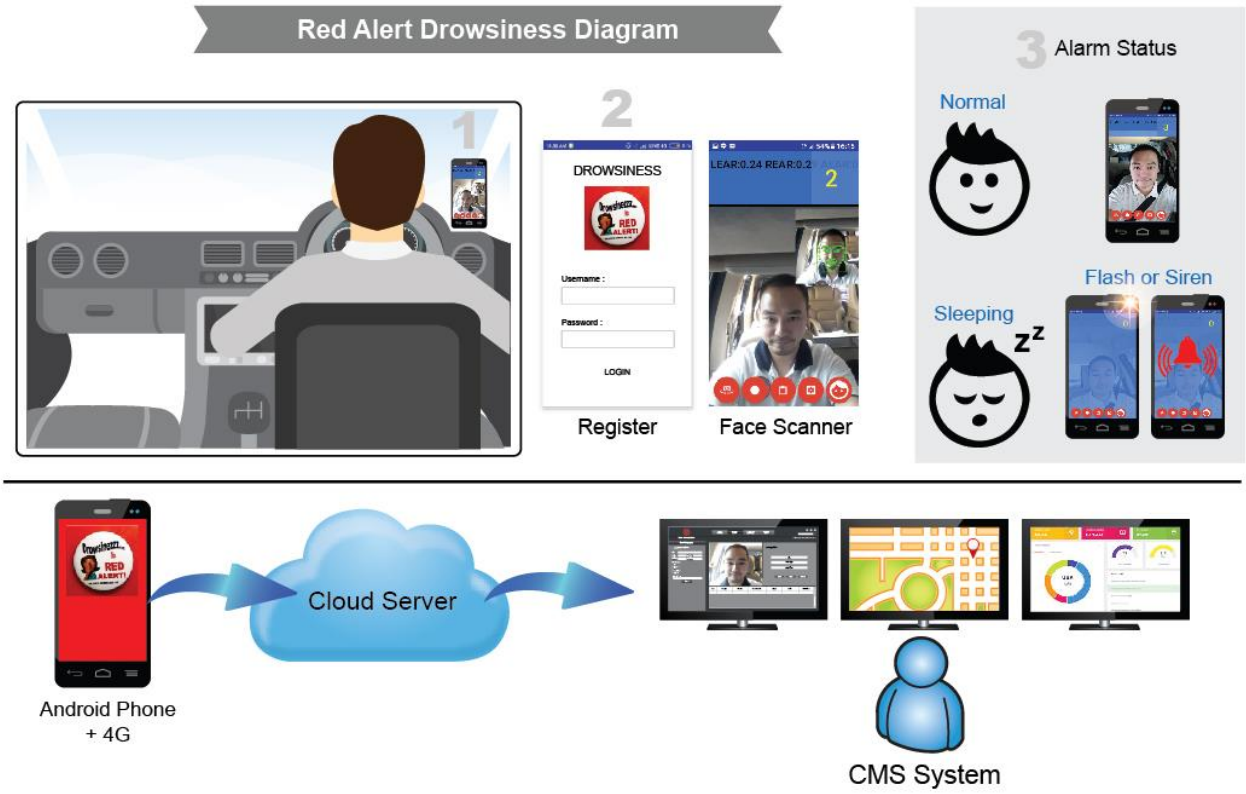
Red Alert Drowsiness Diagram



Highlights of the Red Alert Drowsiness System

- The program has been developed with a team of Thai people so can customize the program to suit the needs of customers.
- Can be used with all brands of CCTV cameras via the ONVIF or RTSP standard.

ติดต่อเรา : โทร. 062-365-6463

บริษัท ทีที สมาร์ท วิชั่น จำกัด : 519/13 หมู่บ้านนาราสิริ โทเพียร์ ถนนนวมินทร์ แขวงคลองกุ่ม เขตบึงกุ่ม กรุงเทพฯ 10240