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Wi-Fi Vision-AI Driver Monitoring System

Product Description

The Wi-Fi vision-AI driver monitoring system utilizes a highly sensitive image sensor and invisible 940nm IR LEDs to capture in-cabin images. Its proprietary optical design achieves excellent power efficiency, with nearly 2X illumination. It is also not a problem to detect drivers with level 3 sunglasses or coated glasses. Thanks to the 3D facial landmark AI tracking technology, the system can identify up to 100 drivers and accurately classify their behaviors, such as inattention, dozing, smoking, calling, etc. With vision-AI technology, image quality optimization for the face area is progressing anytime and anywhere.

Product Key Features

- Equipped with 940nm infrared light and high QE sensor
- Innovative optical design, capable of working at bright sunny days (even at 120K lux)
- Support driver wearing level 3 sunglasses and coated glasses
- Enable fleet management through Wi-Fi connectivity
- Image quality optimization for face area anytime, anywhere with AI technology
- 3D facial landmark AI technology to classify driver behavior precisely

Support Functions & Warning Strategy (customizable)



Face ID

Support up to 100 registers



Fatigue detection

Close eyes > 2s or yawn > 3s



Inattention detection

Head pose yaw angle over 25° or pitch angle over 15° > 3s



Smoking

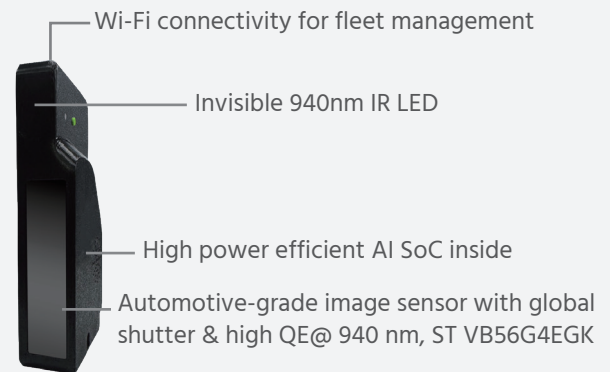
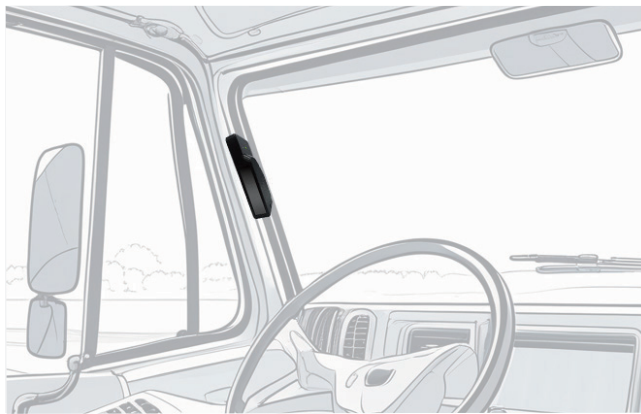
State > 2s



Being phone use

State > 3s

Easy-to-Install and Wi-Fi Enabled System for Real-Time Driver Monitoring



Product Hardware Specifications

System info	
Sensor	ST VB56G4EGK
View Angle	HFOV:32.9°
Illumination	940nm LED
Operating Distance	Car : 50~80cm Truck/Bus : 60-110cm
SoC	KLM5502S3
Interface and power info	
Video Output Interface	TVI/Wi-Fi/USB 2.0
Communication & upgrade Interface	UART/Wi-Fi
Power Supply	24V
General info	
Operation Temperature	-25°C ~ +85°C
Storage Temperature	-25°C ~ +75°C
Dimensions	110x60x21mm

Applications

The Vision-AI Driver Monitoring System can be used in applications that require actively monitoring drivers to maintain vehicle safety, such as trucks, buses, taxis, etc. It can not only alert drivers in time but also allow the fleet management center to evaluate drivers' behavior and status via the warning information and event-triggered videos from the system.



driving easier and safer



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