TS-DS02

>Driver State Monitor

Fatigue Aler
Distraction Warning
Smoking Alert
Calling Warning
Driver ID recognition
Power ON Self Test
Driver abnormal warning

x3

vTs

Solutions Inc.

DRIVER STATE MONITOR
TS-DS02

Active Safety Driving Expert

Driver State Monitor

TS-DS02

Product Introduction

TS-DS02 is a driver state intelligent early warning terminal, which based on image recognition technology and inbuilt image intelligent processing core algorithm independently developed by our company. On one hand, with special camera, the TS-DS02 can warn the driver once he/she have bad driver behaviors like fatigue, distraction, calling, yawning, smoking and so on. It can also identify the driver ID. On the other hand, it can send data to monitor platform through GPRS/3G/4G device with serial port. It is suitable to safety management for private car, commercial vehicle, bus, dangerous cargo transport vehicle and so on.

Functions

- Fatigue warning
- Distraction warning
- Smoking warning
- Calling warning
- Driver ID recognition
- Power on self test
- Driver abnormal warning

Features

- ☑ All-in-one design, small size, easy to install
- ☑ High image recognition accuracy for all skin color populations
- ☑ Work day and night, any weather conditions
- ☑ Independent core algorithm
- ☑ Vehicle voltage DC9-36V
- ☑ High fidelity TTS voice reminder

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Product physical characteristics

Items	Specification	Remarks
Waterproof	IP54	
Weight	234g	
Dimension	85mm*61mm*34mm	
Shell material	Aluminum base+ABS+PC	
Install way	Bracket fixing install	

Power parameters

Item	Requirements	Remarks
Working voltage	9-36V	
Working current	≤450mA@12V	

Main body parameters

Items	Requirements	Remarks
Camera resolution	640*480	Default
Working distance	50-100cm	
Working conditions	Day&night (24 hours)	
Face detect	All face types, including wearing glasses (sunglasses, myopia)	
Detect scope	Face, eye, head, gesture	
Fatigue accuracy	Naked eye: 92%(wear glasses:90%), last over 2 seconds	
Distraction accuracy	95%, last over 3 seconds	
Inbuilt speaker	4Ω/3W	Inbuilt speaker

Environment features

Suitable environment	Parameters	Remarks
Working temperature	-30℃ ~ +70℃	
Storage temperature	-40℃ ~ +85℃	
Relative humidity	5% ~ 95% （No frost）	

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Product Features

Fatigue alert
(detection of symptoms of fatigue, frequent yawns while driving)

Distraction Warning
(detection when the driver is deconcentrated from the road while the vehicle is moving)

Calling Warning
(detection of talking on the phone while driving)

Smoking Warning
(detection of smoking inside the cabin)

Fatigue alert
(detection of fatigue symptoms, closed eyes while driving)

Don't Chat Warning
(detection of chatting or texting while driving)

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