

TS-DS02

> Driver State Monitor



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





DRIVER STATE MONITOR TS-DS02





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

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)	



DRIVER STATE MONITOR

TS-DS02

Active Safety Driving Expert



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)

DRIVER STATE MONITOR
+
FLEET MANAGEMENT





DRIVER STATE MONITOR TS-DS02 HELIOS ADVANCED INTEGRATION



Product Architecture



Monitoring Center

ODBC support: The software uses ODBC connections, and therefore you can connect to any database platform.

Customers: contains all the information about the VH and Driver, including entity, Location, Model, etc.

Emergency Services: Contains information about the emergency services for each zone, for calls to bodies of private or public security.

Stations of installation: Contains information about the authorized installation stations and their authorized employees.

Operators: Contains the list of operators registered in the system, including permissions to access the software for each of them.

Displays the units: in a map with the monitoring system of the unit, presenting to the nearest emergency body that can provide assistance and relevant information.

Keeps a record of all actions, dates and users.

Customizable chain of events in case of an emergency



Beyond the functionality of a GPS, HELIOS Advanced allows a sophisticated and efficient control of your fleet land.



FLEET MANAGEMENT

- Events Programming,
- Speed Control,
- Control of the KM,
- Curves Detection,
- Engine Running,
- Notices Perimeters,
- Measurement of the Fuel,
- Monitoring Values,
- Driver Identification,
- Automated Tracking,
- Transmission of KM.



PROTECTION OF THE VEHICLE AND DRIVER

- Emergency button,
- Detection of Abrupt Braking,
- Detection of an Accident,
- Auto Lock,
- Lock / Unlock Doors.



COMMUNICATION

- Cellular connectivity
- TCP connectivity
- Data Encryption
- Navigation Support
- Support of third party devices,
- Data Encryption,
- Anti-jammer
- Compact Protocol



LOCATION

- Tracking and tracing in real time,
- GPS Mileage,
- Last storage location,
- Operation of events log in an independent way,
- Events log,
- Backup Server,
- Data in private cloud.



ALARM SYSTEM

- Theft detection system,
- Programming times,
- Wakeup from accelerometer:
- Towing Detection,;
- 4 Disarming Devices,;
- Gradual detention of the vehicle through the pulses sent to the fuel pump



EVENTS PROGRAMMING

- Control of Inputs / Outputs using geofencing programming.
- Programming of variables:
 - Temperature
 - Speed
 - Perimeter
 - Location



AIR COMMANDS

- Assemble / Disassemble,
- Remote On / Off Remote,
- Disconnection of Fuel Pump,
- Remote Opening / Closing of doors,
- Integration with applications of Roadside Assistance,
- Communication of Voice and Data,
- Vehicle Tracking,
- Vehicle Status,
- Parameters Programming.



CONTROL TOWER

- Monitoring of Fleet,
- Monitoring of Compliance,
- Monitoring of Inputs / Outputs,
- Monitoring of Programming Events,
- Recording of Time Delivery,
- Remote Assistance,
- Attention to the Emergency calls,
- Fuel Pump Lock in case of theft,
- Integration with Emergency Services,
- Integration with BI.

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> Real-time solutions for fleet management, protection against theft, security systems and driver state monitor



- Autonomous units
- Quick and easy installation
- Events configuration
- Audit log
- Geofencing
- Accelerometer
- Information in memory
- Roles and Authorizations for users
- System based on the web
- Multiple languages.

Starcom Systems is a leading global company, specializing in advanced automated real-time systems for remote tracking and management of vehicles, containers, assets and people. All systems are characterized in strength, stability and continuous performance.

Starcom Systems is publically traded on the AIM Market of the London Stock Exchange, conforming to the highest and most strict regulations in the market, proving its stability and reliability.



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Certificate ISO 9002

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