

Driver Fatigue Detection System

This driver fatigue detection system enhances road safety by monitoring driver behavior and eye movements. When fatigue is detected, the system alerts the driver to prevent accidents.



ADDITIONAL IMAGES



Overview

Advanced Driver Fatigue Monitoring

The DFM system is a driving assistant early warning product utilizing machine vision technology to enhance road safety. By analyzing facial states and gestures in real-time, the device detects drowsiness, eye closure, and yawning to provide timely alerts. Designed for both commercial and private vehicles, it helps prevent accidents by ensuring drivers remain alert and focused throughout their journey.

Performance

Performance Highlights

95 %

Recognition Accuracy

24 V

Max Voltage

Detection Capabilities

Alarm Triggers

Closing eyes, Lowering head, Yawning, Fatigue, Drowsiness

Monitoring Method

Contactless sensor monitoring of eye movements and facial expressions

Technical Features

Core Features

- Machine vision technology for facial analysis
- IR-equipped lens for day and night operation
- Built-in G-sensor to filter unnecessary warnings
- Contactless switch design for safer operation
- Real-time monitoring and audible alerts

Design & Installation

Physical Design

- Adjustable camera angle for various driver heights
- Compact body to avoid blocking driver vision
- Silica gel gasket for flexible installation
- Red/Green LED status indicators
- Built-in microphone for voice recording

Electrical Specifications

Vehicle Compatibility

Small Cars • Trucks • Commercial Vehicles

Power Supply

12V / 24V DC