Product photos and overview



DMS—Adopt

- 1. Vehicle specific FPGA platform
- 2. Deep tearning algorithm
- 3. Extensive driving monitoring functions can be developed
- 4. Various functions such as fatigue warning, distraction detection, bad behavior detection, face recognition, etc. can be realized.
- 5. Can be integrated with ADAS (front vehicle collision avoidance, lane deviation system)

Spy Product Specifications

	Processor	xilinx zynq7020
Hardware Parameters	DDR	1G Byte DDR3
	FLASH	256M Byte Nand
	Network	Ethernet
	Speaker	Support
	TF Card	Support
	Rated Voltage	9~36V DC
	Rated Power	5W _c
Get Driving Status	CAN Input	Support
	Signal line Input	Support
Data Output Interface	CAN (C	Support
	Ethernet	Support
	Serial	RS232 Optional
	Communication	

Resolution focal Length Angle	480/720P 0.5m~1.2m
Angle	11.450 \/.200
	H: 45° · V: 30°
Frame Rate	30fps
Infrared LED Light	850/940nm
Dimension	152x94x32mm
Camera Adjustable Angle	-45°~+45°
Shell Material	Aluminum Alloy
Camera Dimensions	115.8x82.5x40
Material	Aluminum Alloy
Operating Temperature	-40∼85°C
Working Humidity	10~90%RH
	Infrared LED Light Dimension Camera Adjustable Angle Shell Material Camera Dimensions Material Operating Temperature



產品說明



LED light safety

The infrared filter can effectively filter the ambient light and can obtain clear images stably in a variety of complex environments. The infrared light source has passed the certification of the IEC 62471 standard and meets the requirements of biological safety standards.

Strong connection interface

> FPGA platform can quickly match a variety of connection interfaces, and can quickly convert CAN, signal lines, serial communication and other interfaces, suitable for different models

Simple installation and calibration

Separate installation, suitable for a variety of vehicle structures, the controller can be hidden and installed, and the camera can be installed on the A-pillar, facing the driver

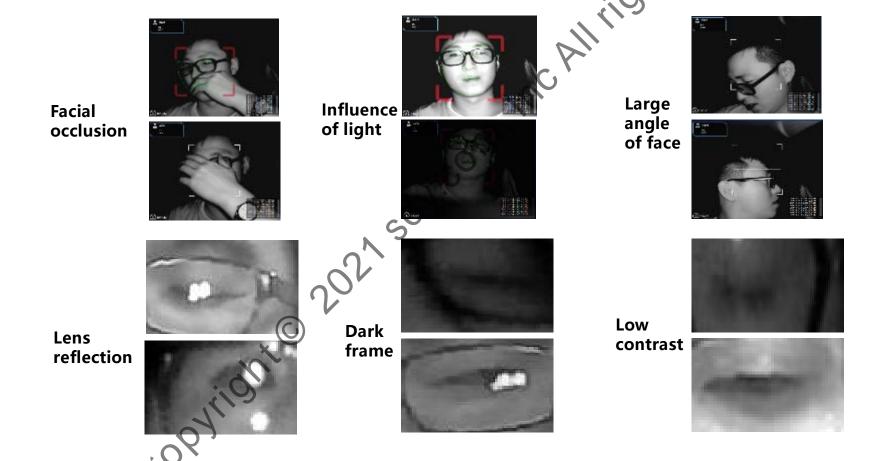
Good performance and low false alarm rate in various environments

A deep learning neural network with strong stability in face recognition, feature point detection and open eye detection **P.2**



產品說明

Environment and lighting, large angle and large posture and partial occlusion







Fatigue Driving

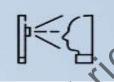
- Closed eyes detection
- Head posture detection
- Yawn detection



Bad Behavior

- Smoking detection
- Call detection
- Detection of both hands leaving the steering wheel
- Person leaving detection

Not wearing a seat belt detection



Face Recognition Fleet Management

- Identification/Reco
- Identify login
- Driving identity verification
- Driving replacement reminder



Eye Tracking

- Head tilt angle tracking
- Gaze tracking

SDY 產品應用-選配ADAS功能

Detect Target • People, cars, obstacles Road Marking • Lane markings, zebra crossings, drivable areas **LDW** Lane deviation warning **FCW** Front vehicle collision warning **PCW** Pedestrian collision warning **HMW** Vehicle approaching warning Stop-Go Notification of departure delay