

# Rearsense Driver State Monitoring System

Real-time detection of driver's driving status

Monitoring system promoting safer driving by detecting and warning driver of drowsy driving and driver negligence.

Applications across bus, truck and heavy-duty machinery for long distances and safe driving on highways.



Alerts by the vibration of seatbelt when drowsy driving (option)













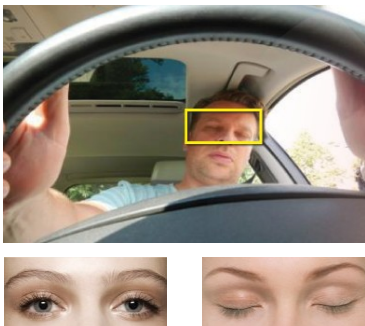
Available when wearing glasses and sunglasses (except for some special coating lenses)



Face Monitoring with inter-locking DVR (DVR option)

## Product Features

-  HD resolution and large recognition area and distance due to high performance CMOS image sensor
-  Automatic detection and warning of sleepiness and carelessness of driver
-  Secured with 12V—24V heavy duty surge protection circuit design, ready for commercial vehicle use
-  Reliable detection at night time and low-light conditions due to IR LEDs
-  Secured against glare from adverse light conditions due to HDR capability and effective filters
-  Reliable detection regardless of glasses or sunglasses (except for special coated lenses, magnifier glasses)
-  Separate video output (RCA) for transmission
-  High performance ARM CPU
-  Easy and robust mounting
-  Adjustable volume and sensitivity



Category	Contents (In case of Level 1)	Operation LED	Alarm and Sound Effects
Primary drowsiness detection	It beeps when driver's eyes close for longer than approximately 0.7 second at left, right, top and bottom 30degrees in the recognition range of drowsiness.	Green → Red	Beep → Beep → Beep → Beep → Beep
Constant drowsiness detection	After primary alert, if driver's eyes still close for additional 0.7second, beep sounds continuously until eyes open again.	Green → Red	Beep → Beep → Beep → Beep → Beep
Detection of keeping an eye on.	In case of driver's eyes are positioned between 30 and 60 degrees at left or right for longer than approximately 2.5 seconds	Blue → Red	Beep → Beep → Beep → Beep → Beep
Detection for out of range of the face	In case of driver's eyes are deviated over 60degrees at left or right. (In case of camera can't find driver's eyes)	Green → Red Blinking	Beep → Beep → Beep → Beep → Beep
Constant detection for out of range of the face	In case of detection for out of range of the face persists for more than 0.7seconds	Green → Red Blinking	Beep → Beep → Beep → Beep → Beep (Till detection of pupil)