

ENHANCE ROAD SAFETY & **PERSONALIZE YOUR RIDE EXPERIENCE**



Driver Monitoring Camera

Our advanced driver and occupancy monitoring camera is the ultimate solution for improving road safety and enhancing the driving experience. Its compact size packs a punch with powerful features that provide real-time insights into driver behaviour and vehicle occupancy.



Real-time Driver Monitoring

Our driver attention evaluation technology continuously monitors and analyses driver behaviour in real-time. This includes detecting signs of fatigue, inattention, and cognitive load due to secondary tasks. By identifying potential hazards before they occur, our camera enables proactive measures to prevent accidents.

Occupancy Analysis

Our future-ready solution for occupancy analysis enables customized implementations of diverse HMI and safety applications. This includes gesture recognition, hands-off steering wheel detection, in-cabin activity recognition, violence detection, and object-human interaction. By analysing body pose and size, our camera also improves airbag deployment, making your vehicle a safer place for everyone.



Seat Belt Detection



Hands-off Steering Wheel



2D & 3D Body Key points



Object Detection



Face Identification



Phone Usage Detection



Occupant Detection



Driver Drowsiness



Fatigue Warning



Distraction Warning



Unresponsive Driver



Attention Warning

Seamless Sensor Integration

Our camera works seamlessly with a variety of sensors, allowing you to combine data from multiple sources to enhance driver monitoring. By fusing biometric and vision signals, our camera takes a holistic approach to analyzing driver drowsiness and wellness.

Flexible Configurations

Our driver and occupancy monitoring camera is available in various configurations to support various customer applications. From narrow to wide field of view cameras, integrated and remote cameras, and SW as a product solution, we offer maximum vehicle integration flexibility for OEMs. We also support integration of ADAS functions and driver or cabin monitoring in one module.

Technical Specifications

- ✓ Driver Camera:
 - Horizontal field of view up to 50°
 - IR, 1-2 mega pixel sensor
- ✓ Cabin Camera
 - Horizontal field of view up to 140°
 - RGB-IR, 5 mega pixel sensor
- ✓ Common specification:
 - Compact camera package: 45mm x 25mm x 25mm
 - Active IR illumination, 940 nm
 - Frame rate 30 fps
 - GMSL interface
 - Automotive grade



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For more details, please connect with our Varroc representative at varroc.info@varroc.com