

OSM Reference System

(Occupancy Status Monitoring)

Supports GSR DDAW, ADDW, EuroNCAP Safe driver
Distraction measurement

Reference system for objective evaluation of occupant status monitoring distraction

The OSM Reference System by iMotions is a complete solution for collecting and analyzing driver information to assess distraction levels as a result of in-car safety warnings and infotainment systems.

- Supports distraction measurement for EuroNCAP Safe Driver. ADDW, DDAW, C-NCAP coming.
- Distraction measurement using proven multi camera gaze and head tracking system
- Programmable tests with voice instructions - No test leader required in the vehicle

Setup

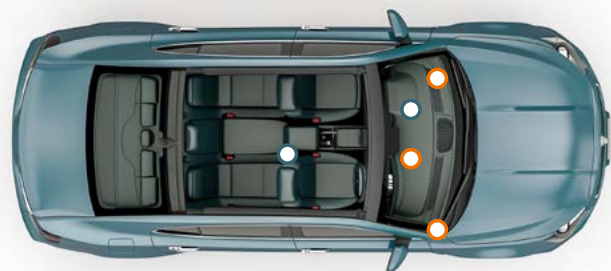
Cameras for detection of test vehicle information/
warning response with microphone

- Includes brackets for temporary fast fixation of cameras for vehicle under test
- Uses 850nm illumination - No interference with integrated 940nm DMS system
- Night-time robustness evaluation supported
- Automatic individual calibration
- Automatic quality check – example- direct feedback if test person looks left instead of right

Data Collection

- Eye tracking: gaze and head tracking
- Video of driver and cabin
- GPS providing reference vehicle speed
- Automated annotations with cameras and gaze signals time-stamped

- 3x Eye Tracking Cameras with IR illumination
- 2x RGB reference cameras



Monitor for realtime
data view



Car PC



Wireless keyboard



GPS



Data Analysis

- Analysis software (iMotions Lab) with data visualizations, synchronized video preview, gaze overlay, manual and automatic annotations
- Post annotation of vehicle under test information and warnings (will be automated)
- Export to popular formats for post evaluation using third-party software or by Python scripting

To find out more please contact

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