TS-DMS

Test Solution for Driver Monitoring Systems

Suitable for testing Camera-based Active Driver Monitoring Systems as well as other camera setups

Capable of calibrating and testing intrinsic & extrinsic camera parameters, field of view and Modulation Transfer Function (MTF)

Head and eye-gaze tracker test with realistic human head setup

Solutions fully prepared for production lines requirements and laboratory product development



PRODUCT DESCRIPTION

The Test Solution for Driver Monitoring System developed by Controlar works as a platform for testing vehicle ADAS - Advanced Driver-Assistance Systems – Driver Monitoring Systems, working on the Near Infrared (NIR) wavelength. Normalized test charts are used to calibrate/test cameras intrinsic and extrinsic parameters, FoV, MTF, Straylight. TS-DMS includes a realistic head setup with precise head and eye movement to simulate driver's face to check their attention / drowsiness.

KEY FEATURES

- CE marked
- Calibration and test of camera parameters
- Suitable for production lines and laboratory
- Quick-Change-Over (QCO) concept to easy and fast adaptation to product variants
- Instrumentation to perform necessary test and measurements is required

PRODUCT CONFIGURATION

The TS-DMS is prepared to calibrate/test camera based DMS systems, which could be used on:

1 / **Laboratory:**
/ Semi-automatic solution with several test and calibration setups;
/ Full control of the machine to fine tuning of testing elements.

2 / **Production lines:**
Fully prepared station for production lines requirements.

MAIN APPLICATIONS

The Test Solution for Driver Monitoring Systems was developed to meet the high standards of Car Multimedia Industry, namely the new and ever-evolving challenges related to DMS (ADAS) systems. This system is also suitable for many other camera-based industry applications such as mobile industry.

TECH SPECS

Dimensions (in mm)
1100 (W) x 1800 (L) x 2300 (H)

Power supply
Voltage: 230VAC
Frequency: 50Hz
Current: 20A

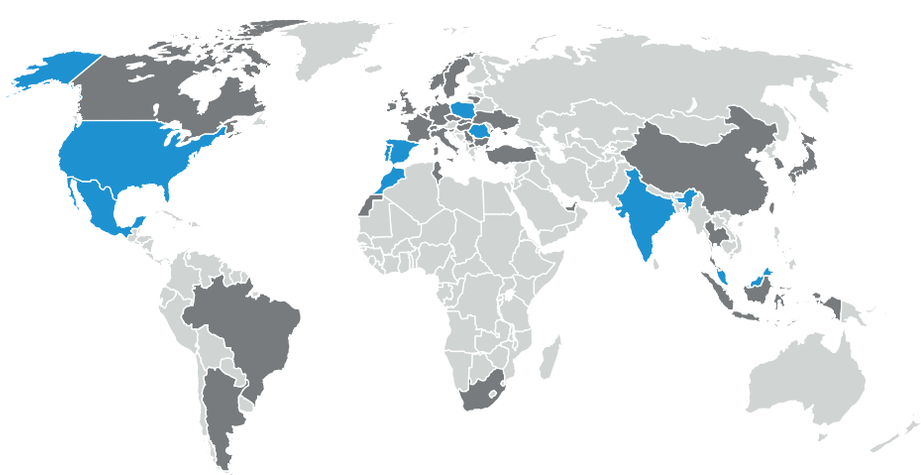
Test Features
/ Test patterns following ISO standards
/ Human head and eyes movement simulation
/ IR homogeneity light measurement - FoV
/ Spectro analyzer
/ Power supply, current measurement and protocol communication

Station Features
/ Robot with built-in controller to map desire points and movements (production)
/ Axis to perform especially precise movements and easy control (laboratory)
/ QCO concept
/ Intuitive software to interact with machine

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