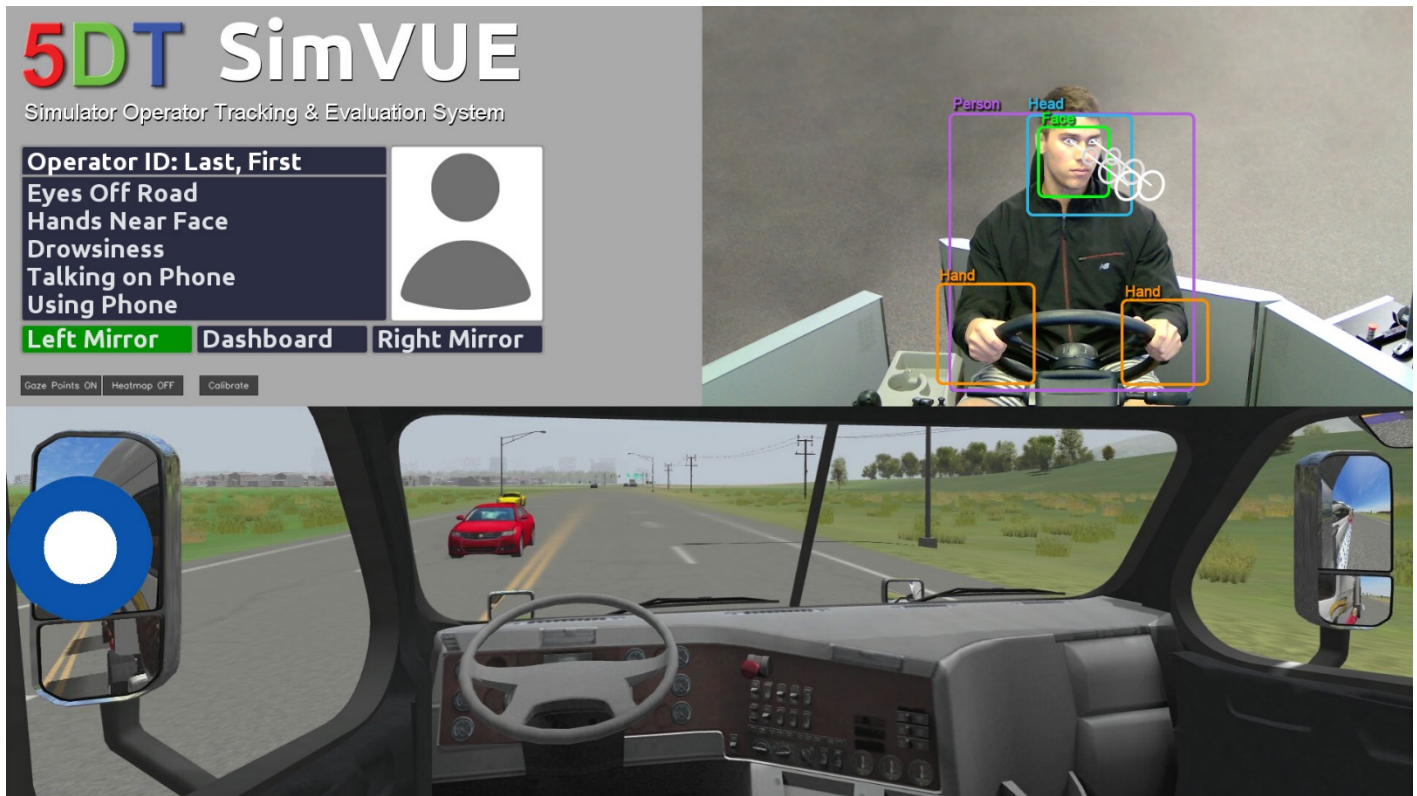


5DT SimVUE™

Simulator Occupant Tracking & Evaluation System



Description

5DT SimVUE™ is an evaluation system for simulator occupants. A camera is pointed at the simulator occupant. The camera output is processed with machine learning algorithms to perform eye tracking, head tracking, facial recognition and to detect where body parts are situated.

Determinations/Detections

- Facial Recognition
- Drowsiness Detection
- Eyes-Off-Road Detection
- Body Part Detection
- Head Position Tracking
- Body Pose Calculation
- Personal Protective Equipment (PPE) Checking
- Seat Belt Checking
- Dwell Time Measurement
- Eye Tracking
- Mirror and Instrument Checking
- Hands On/Off Steering Wheel
- Head Orientation Tracking
- Gesture Recognition
- Mobile Phone Usage Detection

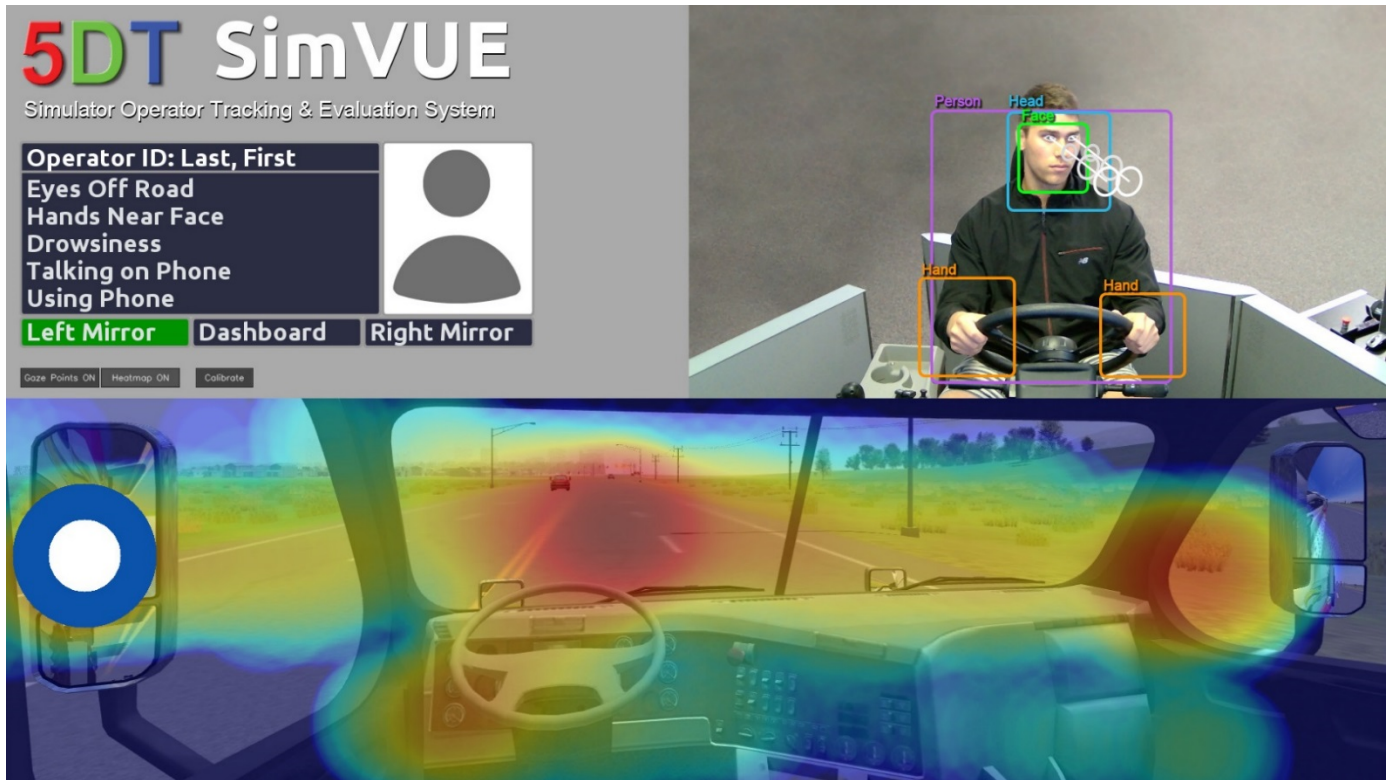
General System Features

- Single or Multiple Camera Operation
- Application Programming Interface (API)
- Gaze Point Heatmap
- Frictionless Non-Invasive Operation

Application Areas

- Training Simulators
- Part Task Trainers
- Training Devices
- Simulations

Photo Overview



SimVUE™ with heatmap functionality turned on. The heatmap shows the dwell time of the simulator occupant's gaze point. The simulator occupant is checking his left mirror. Both the operator's hands are on the steering wheel.

Other Machine Learning Systems by 5DT

| | |
|--------------------|--|
| SecuriVUE™ | <i>Video Management System (VMS)</i> |
| DriveVUE™ | <i>Driver Evaluation System</i> |
| ScreenVUE™ | <i>Video Wall & Baggage Scanner Operator Evaluation System</i> |
| AdVUE™ | <i>Targeted Advertising System</i> |
| FeverVUE™ | <i>Covid-19 Screening System</i> |
| InspectVUE™ | <i>Automatic Rapid Vehicle Inspection System</i> |

About 5DT

5DT (Fifth Dimension Technologies) is a high tech company specializing in Machine Learning, Virtual Reality and Training Simulators for the Mining, Construction, Trucking, Aerospace and Defense Industries. 5DT has been in business for more than 25 years. It has more than 200 simulators deployed worldwide. 5DT has developed simulators for more than 140 different vehicles, machines or aircraft from more than 40 manufacturers.

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