

project: syntropy (Germany/Sweden/Shanghai-Singapore-Taiwan) creates technologies and solutions for professional simulationand training environments, interactive immersive media based attractions, xD theatres, planetariums and multimedia experiences.

Project

Turnkey Visual Display Solution for an Eurocopter EC135 Fixed Base Simulator at DLR

Customer

DLR Institute of Flight Systems, Braunschweig/Germany.

Project

Turnkey visual display solution for the Eurocopter EC135 fixed base simulator ft. a 180° hemispherical screen, 15 W-UXGA LED projection channels and auto-alignment system for AVES (Air Vehicle Simulator) simulator centre.

Project Details

On June 5, 2013 the new AVES (Air Vehicle Simulator) simulator centre of German Aerospace Center DLR in Braunschweig was opened. We delivered the complete visual display solution for the Eurocopter EC135 fixed base simulator featuring a 180° hemispherical screen equipped with 15 W-UXGA LED projection channels and a domeprojection.com auto-alignment system.

Our work included the technical design of the overall solution as well as installation, integration and initial calibration of the complete visual display system including the dome.

The simulator is part of the high-capacity center for flight simulation – a joint ten million Euro project carried out by German Aerospace Center (DLR e.V.), Institute of Flight Systems, Dept. Flight Dynamics and Simulation and Technical University, Braunschweig.



on the analysis and assessment of the dynamic behaviour of aircrafts with regard to future aviation requirements.

The simulator centre, as the link between the applied research of DLR and TU Braunschweig's educational programmes, will primarily serve to prepare test flights for the Advanced Technology Research Aircraft (ATRA) platform, a





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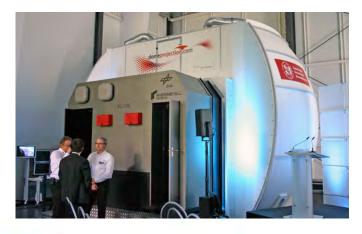


modified Airbus A320, and the Flying Helicopter Simulator (FHS), a modified Eurocopter EC135. Its unique modular design enables parallel research on helicopters and fixed wing aircraft, as well as mobile and fixed simulators. The simulator's cockpits are exchangeable.

A core concern of the centre is research into the dynamic interface between man and machine. It will evaluate the manageability of fixed wing and rotary wing aircraft, particularly in borderline situations such as flying in turbulence with reduced visibility near the ground, and in case of system failures. The centre also tests helicopter pilot assistance systems, to improve flight stability with externally suspended loads.

Videolink: https://youtu.be/F5dB0g2zd4k





project: syntropy's visual display solutions for

- **FMS FULL-MISSION-SIMULATORS**
- **FFS FULL-FLIGHT-SIMULATORS**
- CT COCKPIT SIMULATORS
- **HELICOPTER SIMULATORS**
- **TARGET SIMULATION**
- **JFST ACTION TRAINERS**
- **JTAC TRAINERS**
- ATM TOWER SIMULATORS
- **DRIVING SIMULATORS**
- **SHIPS BRIDGE SIMULATORS**
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