



project: syntropy (Germany / KSA / Sweden / Singapore)
creates dvLED- / projection-based visual technologies and solutions for professional simulation and training environments, immersive XR environments, XR-CAVES, media based attractions and much more.

Project

Airbus H125/145 Level D Full Flight Helicopter Simulator for Swiss Air-Rescue REGA

Customer

Reiser Simulation and Training GmbH, Berg-Hoehenrain/Germany, for the end user Swiss Air-Rescue Guard REGA.

Project

Visual Display Solution for Level D certified H125/H145 and Leonardo AW 169 Helicopter Full Flight Simulator (FFS) based on a 240° x 80° field of view dome display using eight dual-channel LED-IR projectors, ProjectionTools autocalibration and NBlend-Technology for optical blend masks.

Project Details

The fourth Reiser Level D Full Flight Simulator „Made in Germany“ for end user Swiss Air-Rescue REGA, based at Lufthansa Aviation Training (LAT) at their training centre in Opfikon (Canton Zurich) is „ready for training“, since the EASA CS-FSTD(H) Level D certificate – the highest possible certificate for flight simulators – has been approved end of 2023.

Since the success of three completed Level D certified Reiser helicopter simulator projects, we were awarded the fourth visual system for the Airbus H125/H145 Helicopter Full Flight Simulator by Reiser - the latest and world-leading simulator technology for training in Helicopter Emergency Medical Services (HEMS). The simulator comprises a 6 DOF-electric motion and vibration system, a directly projected moving imagery using eight dual-channel LED-IR projectors on a dome screen having a field of view of 240° by 80° like the third project for Lufthansa Aviation Training in Frankfurt.

The Airbus H125/H145 Helicopter-Simulator for REGA (operated by LAT in Opfikon, Zurich)

REGA and Swiss Helicopter AG decided to renew its entire helicopter fleet with 21 Airbus H145 rescue helicopters until



Leading Provider of Next Generation Visual Display Systems

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2026 and also acquiring an H125 simulator of the highest certification class. The helicopter simulator is equipped with interchangeable RORO (roll-on/roll-off) cockpits and can therefore display all specifics of the Airbus H125 and H145 models as well as the Leonardo AW 169, all with Level D certification.

In the simulator, REGA's pilots and paramedics have the opportunity to efficiently train standard situations and emergency procedures that are in most cases not be possible to practise in real life.

About Swiss Air-Rescue REGA

REGA is a private, non-profit air rescue service provider offering around-the-clock service and expert assistance by air, based on the Fundamental Principles of the Red Cross. They transport medical care to the casualty and help in emergency situations. In 2023 alone, REGA provided more than 15.000 Helicopter missions. Its 14 helicopter bases can reach any location in Switzerland within 15 minutes by air.

About Lufthansa Aviation Training (LAT)

Lufthansa Aviation Training GmbH, which was created at the beginning of 2017 from Lufthansa Flight Training and Swiss Aviation Training, is one of the leading companies in the field of flight training with its expertise in the training and continuing education of cockpit and cabin personnel at twelve training locations.

Under the brand name European Flight Academy, Lufthansa Aviation Training bundles all flight schools of the Lufthansa Group in Germany, Switzerland and the USA.



project: syntropy's visual display solutions for

- **FMS FULL-MISSION-SIMULATORS**
- **FFS FULL-FLIGHT-SIMULATORS (EASA Level D)**
- **CT COCKPIT SIMULATORS**
- **HELICOPTER FLIGHT SIMULATORS**
- **FNPT / FTD TRAINING SIMULATORS**
- **COMBAT SIMULATION**
- **JFST ACTION TRAINERS**
- **JTAC TRAINERS**
- **ATM TOWER SIMULATORS**
- **DRIVING SIMULATORS**
- **SHIPS BRIDGE SIMULATORS**
- **INDUSTRIAL SIMULATORS**
- **RESEARCH SIMULATORS**

full-service for S&T visual display solutions

project: syntropy offers turnkey solutions and full-service throughout your entire project:

- **CONSULTING**
- **CONCEPT AND DESIGN**
- **APPLICATION DEVELOPMENT**
- **CONSTRUCTION, MANUFACTURING, INSTALLATION**
- **ADVANCED SOLUTIONS FOR NVG STIMULATION**
- **FULLDOME SYSTEMS**
- **tailor-made dvLED-/Projection-based VISUAL DISPLAY SYSTEMS**
- **AFTER SALES SERVICES**
 - training
 - maintenance and support
 - tailored service-level-agreements (SLA)
 - spareparts supply

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