



**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**

**3 generic FPS-H Helicopter- and 4 FPS-A Fixed-Wing Fighter Simulator Visual Displays for German Air Force**

**Customer**

Hensoldt AG, Fuerstenfeldbruck near Munich/Germany, for German Air Force.

**Project**

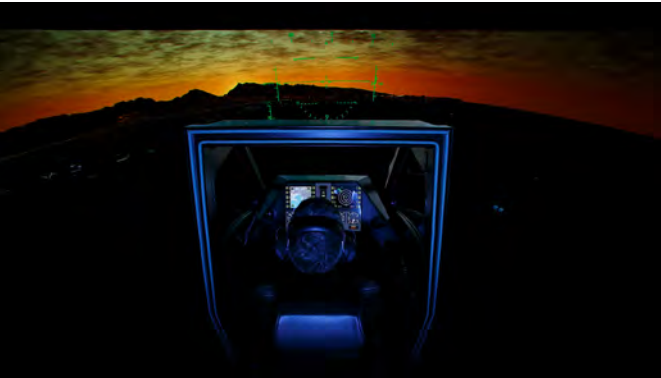
3 Turnkey generic helicopter simulator and 4 fixed-wing aircraft Pilot Selection Systems visual display systems with hemispherical screen, 3 / 4 projection channels each and an autocalibration solution for German Air Force, Bueckeburg and Cologne.



**Project Details**

The generic helicopter and fighter simulator is a product developed by Hensoldt AG for clients like the German Armed Forces. project: syntropy is delivering the complete visual display system for their simulators: FPS-H is equipped with a hemispherical screen, 3x WUXGA, FPS-A with 4x 4k UHD projectors, warp & blend hardware and auto-calibration.

As of today, 7 systems have already been installed, 3 for helicopter- and 4 for fixed-wing PSS. The German Air Force is using the solution as helicopter pilot screening system FPS-H (Pilot Screening System PSS) in Bueckeburg and FPS-A in Cologne, Germany.



**About the Helicopter Pilot Screening System PSS**

The simulation system consists of two helicopter cockpits with a 3-channel projection display, an instructor station for controlling and monitoring the simulation sequence and lecture hall equipment for the preparation, follow-up and observation of ongoing missions. The two helicopter cockpits are similar to the workplace of future UH Tiger pilots. The function of the controls in the cockpit, the instrument panel, the flight characteristics and helicopter equipment, such as armament or sensors, can be adapted to the respective mission by the operator himself.



Leading Provider of Next Generation Visual Display Systems

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The Helicopter Pilot Screening System serves primarily to determine the aptitude of future pilots who have to survive the third and at the same time most demanding phase of their applicant screening within one week in Bueckeburg. Experienced flight instructors and psychologists observe and evaluate the abilities of the pilot candidates while they have to complete missions of increasing difficulty.

In addition to the actual users, the Heeresfliegerwaffenschule, Group Development, as well as the first flying units have recognized additional areas of application for the flexible and cost-effective simulation system in operation.

### About Hensoldt AG

Hensoldt AG is developing, integrating and operating electronic and IT systems for the military, public authorities and companies.



### 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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