



**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

### Visual Display System for DLR Institute of Flight Guidance - ATM Tower Simulator

#### Customer

DLR e.V. Institute of Flight Guidance, Dep. Simulation for Air Traffic Management, Braunschweig/Germany.

#### Project

Turnkey 360° Tower Simulator Display System w. 13 WUXGA LED channels, a cylindrical projection screen with 7m diameter and domeprojection.com ProjectionTools auto-alignment system.

#### Project Details

The ATM department of the Institute of Flight Guidance/DLR e.V. aimed to renew its 200° Tower Simulator Display System for a seamless 360° cylindrical projection system. project: syntropy won the tender and provided a turnkey solution: 13 W-UXGA LED projectors in portrait mode with a special mounting structure for easy maintenance, the cylindrical projection screen with 7m diameter and the domeprojection.com auto-alignment. The LED projectors together with the auto-alignment system are perfect for keeping maintenance cost at an absolute minimum and ensure a continuously perfect projection quality over a long operation period at DLR.

#### About the ATM department of the Institute of Flight Guidance of DLR e.V.

DLR is Germany's national research center for aeronautics and space. Its extensive research and development work in aeronautics, space, transportation and energy is integrated into national and international cooperative ventures.

The Institute of Flight Guidance performs long-term engineering research preceding industrial developments. It is active in the field of flight control and air traffic management (ATM) incorporating other means of transport as well.



Leading Provider of Next Generation Visual Display Systems

**project: syntropy GmbH**  
D-39112 Magdeburg/Germany, Klausenerstrasse 47  
T: +49 (0) 391 63 60 66-44 | Fax: +49 (0) 391 63 60 66-45  
M: syntropians@project-syntropy.de <http://www.project-syntropy.de>

project:syntropy



The ATM-Simulation department (Simulation for Air Traffic Management) of the Institute of Flight Guidance supports the professional research and development by analysing and evaluating new concepts and technologies for air traffic management in real environments. For that, an integrated complex of onboard and ground simulators is used.

**Videolink:** <https://youtu.be/ZMoxlfrzEos>



**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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