

PRESS RELEASE

“Ready for Training” - Reiser Simulation and Training’s H145 XR-SIM successfully assessed by the German Federal Aviation Office

Mixed-reality training system for DRF Akademie reaches key milestone at Lufthansa Aviation Training in Frankfurt, opening a new field for scalable, realistic and authority-assessed aviation training



Photos: REISER

Frankfurt/Main / Berg, Germany, July 2026 – Reiser Simulation and Training GmbH (REISER) has successfully completed the Luftfahrt-Bundesamt (LBA) assessment of the H145 XR-SIM. The LBA, the German Federal Aviation Office, declared the XR-SIM as “Ready for Training”.

The successful assessment of this innovative training device marks an important milestone not only for one individual type of training device, but for the future of professional helicopter training. For REISER, the H145 XR-SIM is a lighthouse project in close cooperation with the German aviation authority, the LBA. The XR-SIM comprises a mixed-reality training system designed to combine a realistic cockpit environment with a virtual outside world in a way that supports regulated, professional pilot and crew training.

While pure virtual reality devices are flexible and scalable, they often lack crew interaction and physical realism. The key is to combine the flexibility and scalability of virtual environments with the physical realism, haptic interaction, and crew coordination of a real cockpit. This is precisely the gap addressed by REISER’s XR-SIM: a full-scale, high-fidelity cockpit with real controls, embedded in a fully virtual outside world using Varjo’s mixed-reality head-mounted display technology.

The DRF Akademie acquired the H145 XR-SIM in response to the growing demand for high-quality H145 training capacity. At Lufthansa Aviation Training’s (LAT) Frankfurt training center, the system complements the existing REISER H135/H145 Full-Flight Simulator already installed for DRF Luftrettung and extends the available training infrastructure with a new mixed-reality capability.

“This successful assessment is much more than the acceptance of just another simulator,” said Martin Keil, CTO at REISER. “It shows that mixed reality is now moving from a promising technology into the field of authority-assessed professional aviation training. Pilots need cockpit realism, real controls, crew interaction and a training environment that can evolve flexibly with operational requirements. XR-SIM brings these elements together and opens a completely new playing field for scalable, realistic and certifiable training solutions.”

The teams of the LBA, the DRF Akademie, LAT and REISER worked closely together to achieve this milestone. All stakeholders — regulatory, technical, operational and customer-side — were involved in the final assessment phase, contributing to the positive outcome and the readiness of the system for training use.

With the H145 XR-SIM now ready for training, LAT and DRF Akademie commence regular training operations. The responsibility for the simulator has transferred from the RST FSTD organization to the LAT FSTD organization, paving the way for operational training use at the Frankfurt training center.

For REISER, this milestone confirms the strategic role of XR-based simulation in the digital transformation of aviation training. Modern training demand is increasing, operational scenarios are becoming more dynamic, and traditional approaches alone cannot close the gap between realism, scalability, and flexibility. XR-SIM demonstrates how mixed reality can bridge that gap — enabling adaptive, distributed and integrated training concepts that support future mission readiness.

About Reiser Simulation and Training

Reiser Simulation and Training designs and delivers advanced training solutions for civil and military aviation. Building on its evolution from component supplier to system integrator and training architect, the company combines deep engineering expertise with a clear understanding of real-world operational requirements.

From high-fidelity simulators to XR-based training systems, Reiser creates scalable and certifiable training environments that enhance efficiency, safety and mission readiness. With pioneering work in XR-based simulation and active contributions to future training standards and concepts, Reiser is helping to shape the next generation of aviation training.

Headquartered in Germany, Reiser supports customers worldwide in turning training into operational advantage.

For more information, visit www.reiser-st.com.

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