

Why ImMRsiv will change your training program

Practice makes perfect

- Repetitive practice of checklists and flight maneuvers in a highly realistic and immersive environment enables faster learning.
- The ImMRsiv offers unlimited opportunities to develop knowledge, skills and experience outside the actual aircraft.

More training sorties at less total cost

- There is no incremental cost to using the ImMRsiv, no daylight restrictions, no weather delays and no maintenance cancellations.
- Student practice is limited only by their dedication and level of effort - not by how much training they can afford.

ImMRsiv devices can be linked to allow students to train together

- Dynamically linked ImMRsiv devices allow several students to fly together within the same simulated environment including more realistic radio communications.



Recent Study Results

Students undertaking a VR training course reduced their time to solo by more than 30%.

<https://www.aopa.org/news-and-media/all-news/2022/february/09/embry-riddle-trims-student-start-to-solo-time-by-30-percent>

When using MR, average training time to solo decreased by 21%, the average number of repeated lessons decreased by 57% and the average number of training days decreased by 49%.

<https://www.ainonline.com/aviationnews/general-aviation/2020-07-01/flightsafetymixes-reality-new-simulator>

For More Information

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ImMRsiv

Mixed Reality Flight Simulation



Features

Fully ImMRsiv

To achieve optimal training effectiveness, student pilots must experience accurate, realistic, and maximal immersion within their flight simulation experience. The student will see, hear, and feel the same things in the ImMRsiv as they would in the actual aircraft.

See - Millimetre accuracy at global scale delivered through professional grade HMDs.

Linked devices allow pilots to see each other while operating in the same simulated environment.

Hear - Realistic aircraft and weather noise simulations.

Linked devices allow pilots to talk and interact with one other in real time.

Feel - Mixed Reality means direct physical contact with the most frequently used controls, switches, buttons, and dials.

You'll forget it's not real

— Accurate aircraft specific aerodynamic modelling plus force feedback flight controls provide highly realistic and effective training experiences.

— Multiple students training at the same time and at the same simulated airfield via linked devices, requires genuine lookout, accurate communications and effective decision making.

— Injecting realistic weather patterns and accurate aircraft malfunctions further intensifies realism and training effectiveness.

Easy to use

— Instructor Operating Station is easily used by the instructor (for training missions) or by the student (for practice missions)

— Straightforward graphical user interface makes scenario development fast and intuitive.

Ready for the future

— Seamlessly connects with Automated Flight Instruction (ImMRsiv+) and Artificial Intelligence (ImMRsiv Total) programs

— ImMRsiv+ and ImMRsiv Total are currently under development by CTS Aero. Early adopters will receive free use of beta versions, and discounted use of final products.

ImMRsiv is NOT a video game

— The ImMRsiv simulation engine is professional grade and is the same one used by several US military flight training programs.

— The ImMRsiv uses accurate aerodynamic flight modelling algorithms that are based on actual aircraft flight data, as well as integrated and realistic depictions of weather phenomena, to deliver a highly realistic flight experience.

— The ImMRsiv employs force feedback flight controls that are driven by the aerodynamic flight modelling algorithms, so that the flying experience is nearly identical to the actual aircraft.

— The ImMRsiv delivers 360-degree extreme precision visuals through elite HMDs employing LiDAR and eye tracking technologies, to maximize immersion, realism, and training effectiveness.

— The ImMRsiv world generator creates millimetre accuracy to allow your students to train virtually anywhere in the world.

Affordable & sustainable solution

Low-cost acquisition means greater access to training

— The ImMRsiv costs much less than similar quality traditional simulators, occupies less space and is easily transportable.

— The ImMRsiv enables a single instructor to concurrently monitor and train several students across multiple devices.

— Students following an ImMRsiv program will have less wait times and greater access to training events with more devices available per school.

Green technology

— The ImMRsiv runs on small amounts of electricity and uses no fossil fuel. Reduced aircraft missions also equal less noise pollution and happier citizens living close to your training area.

