



MAESTRALE

ADVANCED FLIGHT SIMULATORS



Next **MR-44**

NextMR-44

Experience flight training as never before with the most Immersive, Realistic and Cost effective Robinson R44 FNPTII simulator in the market.

Maestrale's NextMR-44 is a cutting-edge technology simulator designed and built to provide pilots with the most realistic flight experience. Featuring a realistic cabin, cockpit, and flight model based on the emblematic Robinson R44, it stands as the first FNPTII Mixed Reality simulator in the market. This simulator includes dual pilot positions, allowing both pilot and copilot to cooperate and train together, enhancing realism and teamwork during training sessions.

Mixed Reality

Introducing Mixed Reality (MR) technology, where virtual and real-world elements converge to revolutionize training environments. MR offers unparalleled immersion and dynamism, allowing trainees to hone their skills authentically and effectively. Key features of MR include:

- **360-Degree Field of View:** Experience a fully immersive virtual environment, yet with a real, touchable, and responsive cockpit in front of you.
- **Eye Tracking System:** Monitor and control the pilot's gaze accurately, facilitating corrective actions and streamlined training processes.
- **Enhanced Immersiveness & Realism:** With our mixed reality (MR) simulator, you will be

fully immersed in an interactive and realistic environment while also being able to see your hands, instruments, and partner.

Qualification

The NextMR-44 is a professional simulator, which means it can be qualified as FNPTII (EASA). This type of Flight Simulation Training Device (FSTD) is one of the most cost-effective solutions, serving as an efficient tool for practicing and demonstrating safety procedures, emergencies, navigation, good practices and general flight skills.

Recent technological advancements have significantly elevated the capabilities of FNPT II simulators while concurrently reducing lifecycle costs. This progress allows for a more comprehensive understanding and precise modeling of helicopter systems, handling, and performance, enhancing the overall training experience.

Considering the escalating costs of flying and the environmental challenges faced by the aviation industry, the NextMR-44 emerges as one of the most cost-effective solutions for flight academies and pilot training, providing a safe and controlled environment that facilitates effective learning and skill development.

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Advantages of our flight simulator

● Cost Savings

Save up to two-thirds of your flight hour expenses.

● Maintenance Efficiency:

Reduce maintenance cost by over 80%, compared to the real helicopter.

● Safety First:

Train safely under risky conditions and simulate critical failures.

● Regulations Ready:

Stay compliant with EASA regulations.

● Train whenever & Wherever

Train when and where you want without waiting for a suitable weather forecast or daylight.





Key features:

- R44 Full-size cockpit enclosure.
- R44 Replica cockpit and commands.
- Full motion Pitch & Roll.
- Interactive Pilot & copilot training.
- Accurate R44 flight model based on measured data from the real aircraft used in replicating aerodynamics modelling (ground effect, airframe and rotor icing effects, etc.).
- Airport modelling—You choose where you want to fly.
- Upgradeable to FNPT III, FTD 2, or FTD 3.
- Pair of state-of-the-art Mixed Reality headsets for pilot & copilot.
- High-fidelity sound system for realistic helicopter and instrument sounds.
- Automated & easy to use QTG Maestrale Software.
- Instructor Operation Station (IOS) and software that allows monitor and control of system variables and insert abnormal and emergency conditions into the helicopter.
- Manuals and documentation.
- 2 Degrees of Freedom (DOF) Compact Motion platform (Upgradable to 4 DOF).
- Vibration system.
- Anti torque custom pedals.
- Worldwide visual scenery with easy updatable local navigation data.



Learn Before Flying





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