

Simcopter training systems: Cost effective and highly efficient.



The rotary wing flight training device Evolution FNPT II is based on the popular Eurocopter AS350 helicopter and is the first step in establishing Simcopter as a leading Flight Training Devices provider.

The Evolution S723 FNPT II is equipped with appropriate instrumentation and controls and a class specific flight model. External scenery shows visibility, airport lights, wind and cloud layers with continuous time of day settings. Based on satellite images, the area around selected airports is visualised with textures and reflects the land cover of a region.

Within the cockpit, primary flight controls include dual cyclic, collective and pedal set-up with autopilot disconnect buttons. Three TFT monitors are used for pilot, copilot and engine instruments. All simulated instruments operate as in the actual helicopter and instrument response rates are equal to those found in the helicopter.



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Core features of the Flight training device include:

- Dual flight controls
- Pilot and Copilot set of specific instruments
- Full autopilot capability with flight director and navigation coupling to VOR and GPS
- IFR GPS to TSC O129 standard
- Full interactive instructor facilities
- Visual with 270° x 65° field of view
- Full size enclosed Cockpit mockup based on the AS350
- Customer specific 3D modelled visual objects such as oil rigs and helipads
- EFIS upgrade (Bendix King EFS40)

The simulation of the flight performance is based on an accurate mathematical model. Full consideration is given to all variable surfaces and their effects. Simulation does include:

- Variation of helicopter longitudinal, lateral and directional stability with altitude, airspeed and gross weight
- Hovering characteristics
- Translational lift
- Vortex Ring state (settling with power)
- Dynamic CG calculation based on load and fuel weight
- Wind & Turbulence
- Icing



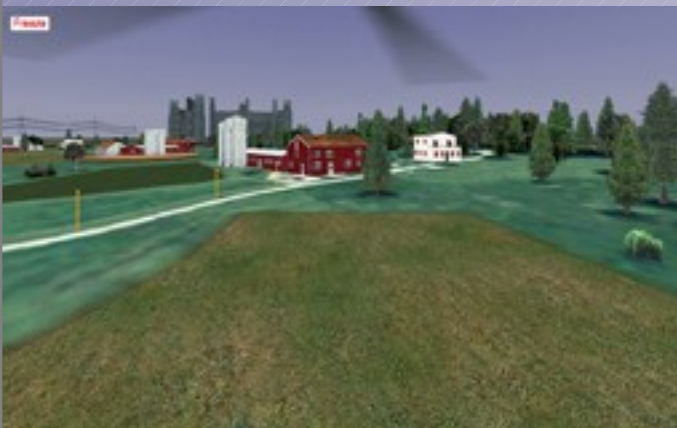
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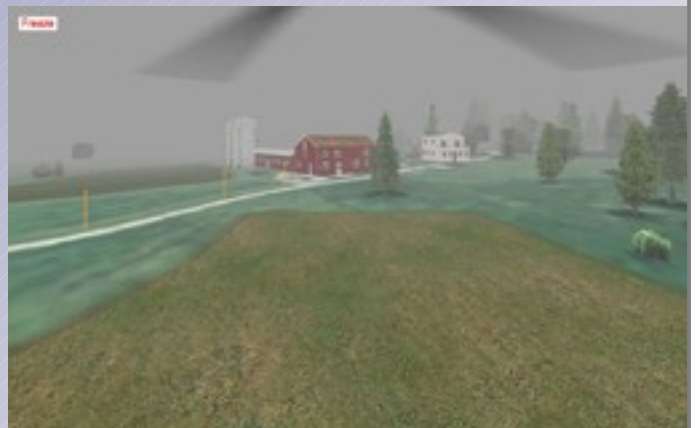
Based on satellite images the area around selected airports is visualised with geo-specific textures. The images are physical measurements of the real environment covering large areas and reflect the land cover of a region. By using data of different sensors with different geometric properties Aerial Photographs of up to 5cm geometric resolution can be used. Customers can specify regions of interest for which detailed visual scenery information is required.

The S723 Evolution has been certified under JAR STD 3H as FNPT II and received the maximum allowable credit of 40 hours.

Convince yourself and test the Simulator at Simcopter in Switzerland – just 10 minutes away from the Airport of Zurich. To make an appointment, call +41 44 880 10 20 or send an email to info@simcopter.ch



CAVOK



300m Visibility

