SIS

Flight Simulator

Flight Simulator

SIS Flight Simulator provides an economic advantage over training in an actual aircraft. Once fuel, maintenance, and insurance costs are taken into account, the operating costs of a simulator are substantially lower than the operating costs of an actual plane.

Trainee pilots learn basic aviation concepts and theory like navigation, they get familiar with instruments and can be trained for situations that may be impractical (or even dangerous) to perform in the aircraft, while keeping the pilot and instructor in a relatively low-risk environment on the ground.

Technical Capabilities

- Aerodynamics simulation
- Cockpit Instrumentations with real / simulated parts
- Graphic Engine (customized)
- Wide FOV display system (Dome)
- Visual Systems (highly customizable)
- Weather Effects (fog, rain, thunder storm, CAT 1, CAT II, CAT III)
- Avionics systems simulation
- Customizable Acoustics (Noises of engine switches & aerodynamic effects)
- Geo-specific visual database with high resolution satellite image
- HLA Environment
- Instructor Operating System (IOS) (Interactive, generate & control scenarios, exercises)
- Exercises: Start up, Taxi, Before Take Off , After Take Off, Down wind Circuit, Landing Exercises
- Emergencies: Startup, Before Takeoff, Taxi, After Takeoff, Down Wind Circuit
- Comprehensive MIS to record behavior of Pilots
- Safety and Support Systems

Background

In a span of 9 years SIS has become one of the largest local weapon training simulator company having supplied approximately 350 weapon simulators to military, law enforcement, security agencies and special forces. Our Flight Simulator Scenarios was developed with extensive R&D with the military users and is both for trainee as well as expert to aid them in their technical & psychological skill development

Technology

The IR based solution with wireless physical & virtual targets uses HAT (Hold, Aim, Trigger) shooting theory to measure & monitor with great accuracy holding, aiming & shooting process of any shooter in real time. The live & simulated scenarios augmented with virtual threats is integrated with highly configurable software connected to Instructor Operating System (IOS) which provides the detailed analysis of shooter's performance.

Functionalities performed

- Normal checks and procedures
- Taxi
- Take Off / Landing (Circuit Work)
- Basic Exercises (climb, descend, turns, stall and rec etc)
- Instructor Flying
- Navigation
- Strip op (Short Landing and Take Off-(TO))
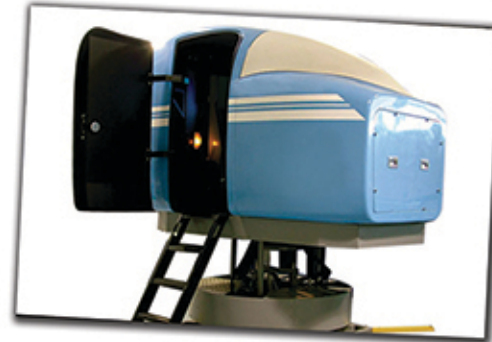- Emergencies

SIS Flight Simulator Capabilities

- Cockpit Procedures Trainer (CPT)
- Basic Instrument Training Device (BITD)
- Navigation Procedures Trainer (NPT).
- Emergency & Exercise Procedure Trainer
- Communication & Weather Effect Trainer
- Flight Training Device (FTD)

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