USE CASE · DRONESIM

Drone pilot training simulator for armed forces

A new drone pilot will crash. It is better that the crash happens on a screen. A flight simulator lets trainees learn take-off, hover and landing, and later fast and precise flying, before they touch a real airframe, and it lets qualified pilots keep their skills between sorties.

IN SHORT

- DroneSim is a drone flight training simulator developed in India by Star INXS, in three packages: Open World, Training Stages and SkyWar Combat.
- Trainees fly with a real RadioMaster transmitter, and a live HUD shows heading, a mini-map, speed, throttle and altitude.
- The flight model computes per-motor thrust, battery sag and drag, with wind gusts of 0-12 m/s and ground effect below 1 m.
- Each system is delivered ready to operate: software, computer, controller and peripherals configured together.



WHAT TO SPECIFY

ITEM	WHY IT MATTERS	DRONESIM
Packages	Match the course level	Open World, Training Stages, SkyWar Combat
Training stages	Progression for the trainee	Open world, tutorial, race track, combat / dog chase
Drone profiles	Handling from beginner to advanced	Stable, Racer, Combat
Controller	Skills learnt on real sticks	RadioMaster flight controller / transmitter; model fixed at integration
Other input	Flexibility in the classroom	Gamepad, keyboard and mouse
Physics	How true the handling is	Rigid-body; per-motor thrust from RPM and prop pitch; battery sag; drag
Wind and ground effect	Practice in difficult air	Wind gusts 0-12 m/s; ground effect below 1 m AGL

HOW A COURSE USES IT

1. **Pick the package.** Open World for first flights and free practice, Training Stages for induction courses, SkyWar Combat for advanced pilots and pursuit drills. Each package adds to the…
2. **Set up the stations.** Each system arrives configured and ready to operate, with the computer, the controller, the monitor and the cables.
3. **Start in the open world.** Trainees take off and fly at their own pace, with no fixed route and no fail state.
4. **Teach the basics.** The tutorial stage takes them through take-off, landing, hover, turns, climb and descent on the Stable profile.
5. **Add speed and precision.** The race track tests speed control, timing and precision through turns and obstacles on the Racer profile.

COMMON QUESTIONS

Who makes DroneSim?
Star INXS Solutions Pvt Ltd. DroneSim is designed and built in India, and the company is certified to five ISO management-system standards.

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