Unmanned Aerial Systems Simulation Trainer (SE-RPAS)

Your platform-independent simulator for training autonomy

Built for the future
Modular architecture for scalability & adaptation

Realistic
Sensor & operational scenario simulations

Quality
Compliant with STANAG 4586, HLA, DIS, NATO quality procedures
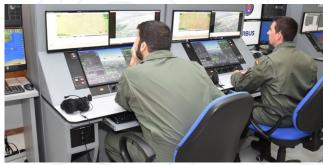
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OVERVIEW:

To meet the needs of global security, demand for Unmanned Aerial Systems (UAS), also called Remotely Piloted Aerial Systems (RPAS), has increased, and also come with another set of challenges: **preparing and training UAS pilots and sensor operators to be ready for their next mission.**

Airbus' advanced, high fidelity Unmanned Aerial Systems simulation trainer

supports the development of a versatile pool of crew with the flexibility in skills to operate different platforms and missions. It is designed hand-in-hand with operational pilots to address the latest requirements.

SYSTEM:

The platform-agnostic system is designed for flexible multi-platform ab-initio and mission training. A system comprises an Instructor Operation Station (IOS) and two Operation Consoles*:

The IOS enables instructors to manage real-time simulation of the tactical environment, including malfunctions, weather and other stress factors.

The Operation Consoles train the remote pilot and the sensor operator.

For illustration purposes, only one of two consoles is shown above.

SIMULATION POSSIBILITIES:

1. NATO Class I, II and III UAS (small, tactical, MALE) representative platforms available

2. ISTAR missions through EO, IR, SAR sensor simulation

3. Avionics, communications, air traffic control audio and general operational systems

4. Ground control station mission preparation, execution and monitoring in real-time, with integrated vehicle and sensor command and control

5. Adaptable to different scenarios in terms of terrain, persons, meteorological conditions, military and non-military missions

6. Collaborative, multi-crew missions including mission handover to another crew

7. Incorporates latest market tendencies, including automatic take-off and landing and latest HMI visual representations

A TRUSTED PARTNER:

- ITAR-free
- Developed under NATO quality procedures
- Compliant with interoperability standards HLA, DIS
- Compliant with NATO STANAG 4586
- In operation with a NATO alliance member and has certified over 140 class II and class III crew members

UAS Simulation Trainer (SE-RPAS):
The platform-agnostic simulator for training autonomy.

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