



alsim 
simulator manufacturer



AL 50

A COMPACT VERSION

The AL 50 puts simulation training within reach for private pilots. This one seat flight trainer simulates a single engine TB 20 airplane and targets flight clubs as well as flight schools.

Similar to the other flight trainers in the ALSIM product range the AL 50 is characterized by computerized flight instruments, which are hence more reliable and do not require calibration.





The Answer: **AL 50**

The aerodynamic behaviour of the included flight models is close to reality and allows pilots to experience highly realistic as well as reliable flight sensations.

Pilots can carry out all normal as well as emergency checklists due to entirely active flight panels and controls.

ALSIM flight trainers distinguish themselves by user-friendly configurations as well as easy upgrades.

Our machines offer the most cost-effective solution on the market.

Standard Equipment

- A one seat cockpit
- An adjustable seat
- Rudder with brakes
- Wheel with electrical trims: push to talk, automatic pilot disconnect button, chronometer activator
- Spring force control loadings (BITD version)
- Electric control force loading on a pitch axis (FNPT 1 version).

Options

- Visual system, frontal projection
- Visual system software which includes all tar landing strips in Europe
- Tailor-made airport environnements.



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Simplified Mechanical System

All mechanical elements of the flight trainer are simple and standardised. Optional electric motors allow an excellent force feedback. The entire system is mounted on a frame which allows trouble-free access from the front. All parts of the flight trainer can be easily removed.

Modular Electronics

Push buttons and controls as well as the annunciator panels and other indicators are run by ALSIM's highly sophisticated electronic system which is characterised by:

- **Real time compatibility:** a 200 times per second up-date
- **Simple wiring:** a single wire runs from one part of the simulator to the other
- **Easy maintenance:** software, which is equipped with a multi-window graphical interface, runs the system.

Instructor's Station

The instructor's station comprises all the management functions needed to conduct lessons such as the:

- Positioning of the aircraft
- Freezing of parameters
- Saving of paths
- Activation of different kind of failures
- Registration of a prepared lesson plan.

The above functions allow instructors to cover a multitude of complex pedagogical situations, these are accessible via a user-friendly interface and touchscreen.

It also includes a program to carry out regular data up-dates for landing strips and beacons.



Visual System

A frontal projection visual system. An LCD projector, its support structure as well as projection screen.

Certification

The AL 50 has been designed in order to correspond to JAR STD-4A BITD norms. This entails that certification takes place at the factory. In the FNPT 1 version, the AL 50 comes with a QTG as well as the QTG player software. This enables its users to carry out QTG test runs in accordance with official regulations. All information and material needed in order to take care of certification are put at the disposal of the client at the delivery of the device.

Assistance at certification can be taken out as an option.

Credit Hours

Credit hours according to the JAR FCL:

- PPL: 5 hours
- CPL: 5 hours
- Up to 20 hours for the IR course if in FNPT I configuration.

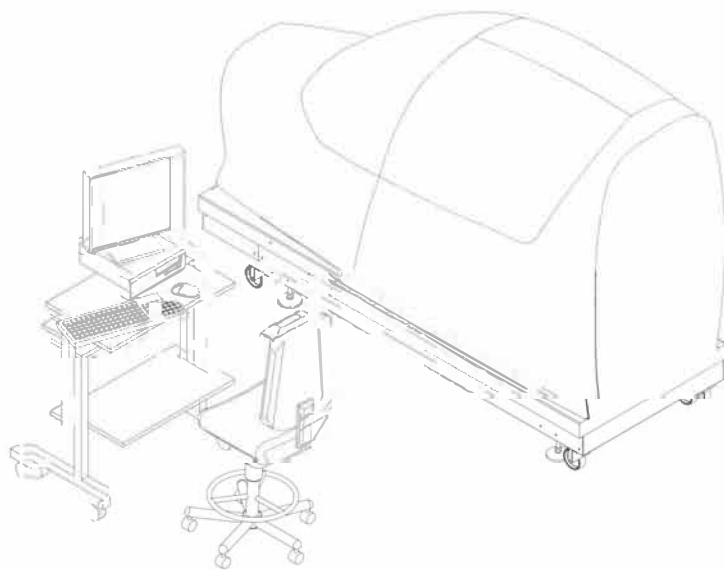
Maintenance Training

We offer in-house maintenance training as well as maintenance kits in order to assure schools a maximum autonomy.

After Sales Services

The AL 50 is delivered with a 6 month guarantee and it includes spare parts and labor. Once the guarantee has expired:

- Problem solving via telephone
- Problem solving via modem
- On-site troubleshooting can be taken out as an option.



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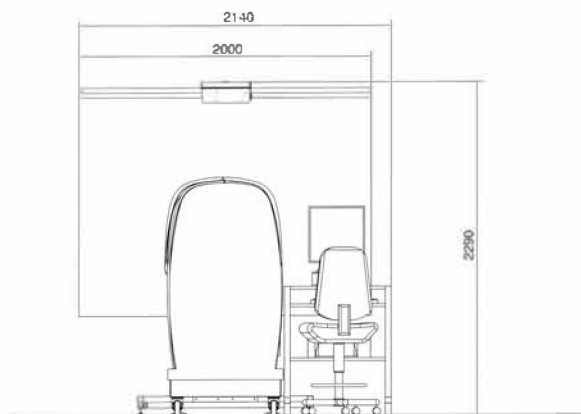
Dimensions

Height: 1.60 m, 5.25 ft.

Width: 0.80 m, 2.62 ft.

Length: 2.30 m, 7.55 ft.

Weight: 350 kg, 770 lbs.

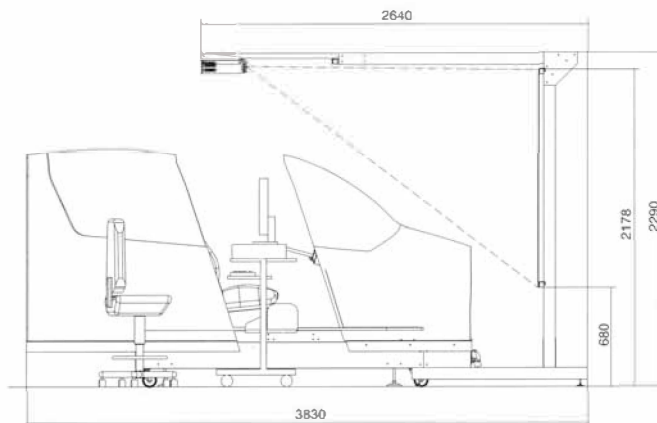


Installation Requirements

Temperature: from 0°C to +25°C.

Humidity: < 80% (no condensation).

An air conditioning system is required in the room in order to maintain a constant temperature of 20°C.



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