

al42

SPECIFIC DIAMOND DA42 SIMULATOR

FNPT II (EASA)
FTD 5 / AATD (FAA)



GARMIN
G1000 NXi

GARMIN
GFC700™



alsim 
FLIGHT TRAINING SOLUTIONS

400+ CERTIFIED SIMS, 350+ CUSTOMERS
60+ COUNTRIES, SINCE 1994



JEAN-PAUL MONNIN

Since 1994 our ongoing mission is to develop and continuously improve flight simulators that enable the most efficient and effective flight and training experience possible.

We recognize that choosing a trusted simulator partner is an important decision for you... which is why, we are proud to deliver our unique approach in supporting you throughout your journey.

We are proud to serve a growing number of over 350 worldwide partnerships.

Looking forward, we are investing in the future success of ALSIM. In September of 2020, we opened a 2,000m² (6,562 ft) purpose-built production facility, designed specifically to serve our current and growing customer base.

Central to our success of ALSIM are the talented and experienced staff that share our common vision and philosophy. We remain committed to hire new and talented staff that help us drive innovation - ensuring that we continue to deliver flight simulators that create the most efficient and effective flight training experience possible.

Jean-Paul Monnin

Jean-Paul Monnin
CEO / ALSIM Simulators



AUDREY JEFFROY

We are very proud to present our latest version of the AL42, an exact replica of the Diamond DA42. This simulator has been enhanced for an even better student and flight instructor experience.

ALSIM not only aims to offer you the best simulator in terms of technology but also to take care of your operational, technical, and training needs. Providing you with tools to help simplify your life and allow you to focus on your business is at the center of our sales process.

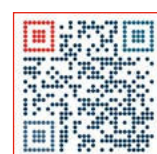
Unlike other manufacturers, we are also involved in pilot training on a research level and are keen to see pilot training develop further; we also supply the turnkey solutions required to support a winning operation.

Want to know more?

Feel free to get in touch with us, and we will be very happy to show you our devices and examine your project needs together.

Audrey Jeffroy

Audrey Jeffroy
Associate sales director / ALSIM Simulators



**MORE INFO
ON THE WEB**

- TAKE A VIRTUAL TOUR
- SEE MORE PICTURES
- REQUEST A QUOTE

TRAIN IN YOUR DIAMOND DA42 WHILE STILL ON THE GROUND



YOUR OWN DA42 AVAILABLE 24/7

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ALSIM - KEEPING ONE STEP AHEAD

The first Diamond DA42 airplane was released in 2004. Ever since, this renowned twin piston has been one of the most technically advanced airplanes, bringing great value to any fleet. Motivated to be the first to introduce an exact simulator replica of the DA42, we presented our own DA42 simulator – the AL42 – only one year later.

Today ALSIM can lay claim to the title of market leader for fixed base FNPT II.

The development of our devices and services is a continuous process in close collaboration with our customers and our very own ATO (Approved Training Organization).

The feedback we get is of great value to us in our continuous research and development, keeping our products and services up-to-date to the benefit of our customers' businesses.

But it doesn't end there: we can take our customers a step further with real value-added services to meet their daily business needs.

The Advantages of ALSIM

1. FSTDs at the leading edge of technology
2. Solutions centered on customers' business requirements and feedback
3. Support throughout the entire project
4. Proven track record in the field since 1994
5. Solid customer base

"ALSIM - as a company and partner - not only manufactures first-class flight simulators, but also focusses on delivering added value to the scope of its customers' businesses."

Mickaël Herard

Qualification & Product Manager

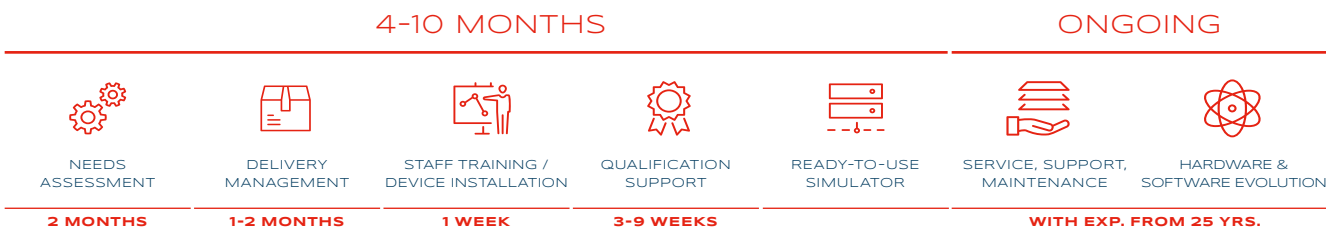
With our ALSIM Solutions (process, products and services) we ensure that the simulator adapts to your business model in the most efficient way.



OUR EXPERIENCE - YOUR ADVANTAGE

From the drawing board to the sim room, ALSIM has evolved over the years by interacting at all levels of FSTD implementation. Our teams provide you with an excellent level of service from sales to maintenance and simulator evolution.

THE ALSIM PROCESS IN DETAIL



AT A GLANCE

	G1000® NXI AVIONICS	FULLY FEATURED COCKPIT: GARMIN® G1000®NXI WITH GFC 700 AUTOPILOT
	ALSIM VFR-VS TOTAL IMMERSION	210° X 60° FIELD OF VIEW ALSIM HIGH DEFINITION VISUAL SYSTEM
	MAXIMUM PROFITABILITY	OPTIMIZED CONFIGURATIONS TO FIT YOUR TRAINING
	SECURED INVESTMENT	EVOLUTION SERVICE CONTRACT AVAILABLE
	ALSIM CERTIFICATION SUPPORT	CERTIFICATION TRAINING QUALIFICATION TEST GUIDES QUALIFICATION SUPPORT
	COMPLIANT WITH REGULATIONS	<div><div> EASA FNPT II</div><div> CAAC FTD 5</div><div> Federal Aviation Administration FTD 5 AATD</div><div> Transport Canada FTD 5</div></div>

Needs Assessment <ul style="list-style-type: none">Kick-off workshop to determine your business requirementsFinding and evaluating the right configuration for your training needsQuotation and agreement about mode of payment and services	Delivery Management <ul style="list-style-type: none">Acceptance of the quotation and placement of orderManufacturing and configuration of the device orderedDelivery to your location	Staff training / Device Installation <ul style="list-style-type: none">Maintenance trainingInstructor trainingTraining of flight scenariosInstallation of device on site
Qualification support <ul style="list-style-type: none">Qualification training to set you up for easy qualificationCustomer support for initial qualification via remote connection or on site at customer's requestRecurrent/annual qualification support	Ready-to-Use / service, support & maintenance <ul style="list-style-type: none">Two-year warrantyUser support and maintenance services during warrantyAnnual maintenance training renewal at customer's request	Hardware & software evolution <ul style="list-style-type: none">Instructor station & HD visual system, TCAS, weather radar, Waas/EGNOSNew aircraft configurationsImproved hardware displays, control loading, visual equipment

al42

**SPECIFIC DIAMOND DA42
SIMULATOR**

THE RIGHT DEVICE FOR
YOUR PPL, CPL & IR / ME
TRAINING NEEDS

10

9

2

3

11

1

5

4

7

6

8



COCKPIT

The ALSIM AL42 cockpit is an exact replica of the DA42 aircraft so that students can familiarize themselves with the aircraft's specifications.

1 G1000® NXi avionics

Real G1000® NXi avionics with fully functional ADC, AHRS, GMA, and database capabilities.

2 Backup Instrument Renderings

High quality rendering of mechanical instruments, with dimmable display.

3 De-icing

Fully integrated de-ice system with fluid tank management and de-ice effect on aircraft performances.

4 Breakers

All breakers can be controlled manually or by the instructor from IOS. Each one is connected to aircraft systems.

5 GFC™ 700 Digital Autopilot

Fully integrated with the G1000® glass flight deck, the GFC 700 is an advanced, AHRS-based automatic flight control system.

6 Pitch trim

Mechanical pitch trim wheel with servo drive to electronic pitch trim.

7 Control Loading

New generation of control loading which provides more remote controls and better maintenance access. Adjustable rudder also available.

8 Seats

The seats reflect the adjustments to the DA42 aircraft seating, and provide two seats for the pilot and co-pilot.

9 Lights

Two flexible lamps, placed overhead, which can be adjusted for easier reading.

10 Speaker

All necessary sounds are reproduced in the simulator (alarm and avionic sounds).

11 Air-conditioning system

System ready to be connected to provide more comfort to the instructor and students.

Backup Instrument Renderings



Realistic Sound Effects

- | | |
|----------------|-----------|
| • Starter | • Taxiing |
| • Engine | • Rain |
| • Aerodynamics | • Hail |
| • Landing gear | • Crash |
| • Flaps | |

al42

SPECIFIC DIAMOND DA42

THE RIGHT DEVICE FOR
YOUR PPL, CPL & IR / ME
TRAINING NEEDS

SETUP

ENTRY LEVEL



HARDWARE

- ✓ 2 seat aircraft cockpit
- ✓ Diamond DA42 VI specific interior cockpit & flight deck
- ✓ Instructor Station – 2 large graphical touch screens
- ✓ 3 axis flight controls (yoke & rudder) - pilot & co-pilot side
- ✓ 3 axis electrical control loading (yoke & rudder) - pilot & co-pilot side
- ✓ 2 axis autopilot
- ✓ Garmin® G1000® NXi with GFC™ 700 Digital Autopilot
- ✓ Full documentation: user, maintenance, aircraft flight manuals, check lists
- ✓ 2 General Aviation headsets (Flightcom)
- ✓ Cockpit air circulation system
- ✓ 2 UPS units (Uninterruptible power supply)
- ✓ Color laser printer

SOFTWARE

- ✓ Mobile Instructor Station (tablet not included)
- ✓ RNP APCH (LNAV, LPV) (RNAV GNSS) compliant
- ✓ Navigation database
- ✓ Navigation zone
- ✓ 1 detailed airport

SERVICES

- ✓ Training at ALSIM premises: Maintenance, FSTD Qualification, Instructor
- ✓ 2 years warranty, including hotline and updated ALSIM generated Jeppesen™ database
- ✓ Initial certification assistance
- ✓ Maintenance spare parts kit

FLIGHT MODEL

- ✓ Specific Diamond DA42 VI flight model

VISUAL SYSTEM

- ✓ 210° x 60° Visual system with relief and coastal lines
- ✓ 3 Full HD projectors
- ✓ ALSIM VFR-VS image generator



OPTIONS

HARDWARE

CUSTOM LOGOS

- Full external softshell and hardshell customisation

CERTIFICATION

AUTHORITY DEPENDANT

- EASA (FNPT II) □ TC (FTD 5)
- FAA (FTD 5 / AATD) □ CAAC (FTD 5)

SOFTWARE

FEATURES

- Detailed airport
- Weather radar
- Traffic Alert System (TAS)

SERVICES

- Standard installation & transport by zone
- Evolution Contract

AL40 CONVERTIBLE KIT

TRAIN TWO FLIGHT MODELS WITH THE SAME SIM

NEW

Switch from the DA42 to the DA40 configuration
by swapping only the dashboard and the middle console

THE KIT INCLUDES

- DA40 Flight Model
- Instruments Box
- QTGs & Qualification
- Transport





We want our student pilots to receive the most advanced training possible. Along with interactive learning aids, virtual reality and neuro training, they will also benefit from the most advanced simulator technology as they prepare for their future career. The AL42 from ALSIM offers sophisticated training capabilities and replicates the aircraft our students fly, making it the obvious choice for our latest acquisition.

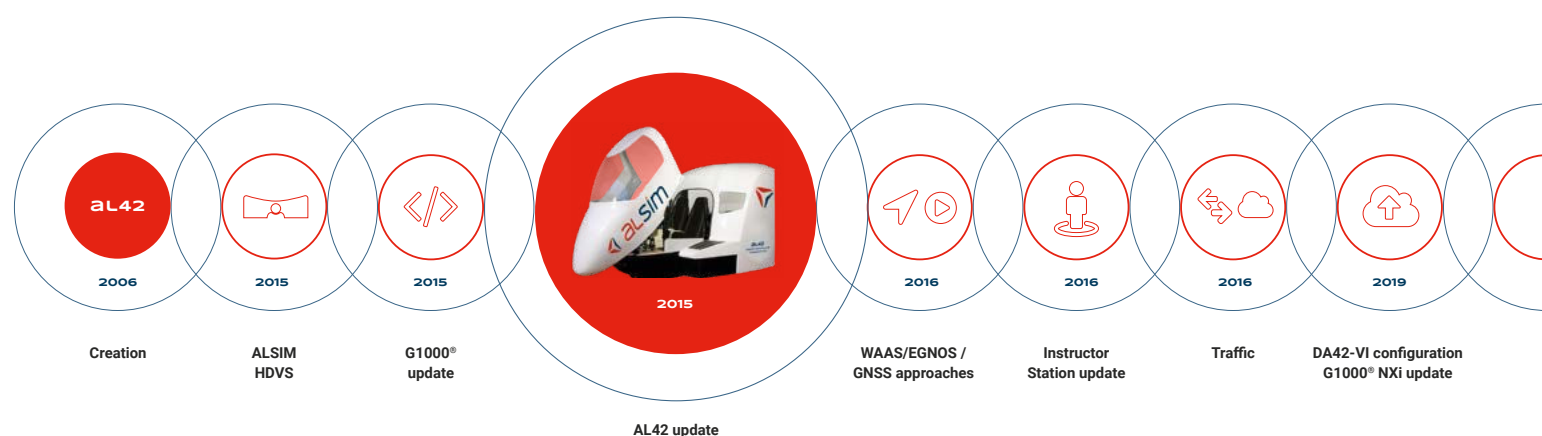


Andy McFarlane
CEO
Leading Edge Aviation Ltd, UK



ALSIM SYSTEM EVOLUTION

Simulators need to follow the aircraft and training standards.
So does your training. With our Evolution Updates we make
the investment on an ALSIM solution an excellent choice for ROI.



Our R&D teams work hand in hand with our other services and customers to ensure that training features evolve continuously. This helps us provide software and hardware that keeps up with the times and means you can retrofit and upgrade your virtual fleet at the drop of a hat.

“ALSIM - as a company and partner - not only manufactures first-class flight simulators, but also focusses on delivering added value to the scope of its customers' businesses.”

Mickaël Herard
Qualification & Product Manager

With our ALSIM Solutions (process, products and services) we ensure that the simulator adapts to your business model in the most efficient way.

ALSIM EVOLUTION SERVICE

PEACE OF MIND

The Evolution service package has been specifically designed to provide you with the highest level of support and peace of mind. The Evolution service package brings you the latest ALSIM software and hardware design – an all in one support package ensuring that your simulator remains at the cutting edge of technology.

HARDWARE EVOLUTION



Keep your device always up-to-date with the latest generation of hardware. It will be retrofitted to your device when needed. It includes PC's, projectors and parts at no extra costs.
(Garmin excluded)

MAINTENANCE SERVICE



Benefit from a scheduled yearly visit of up to 2 days. The spare parts and travel expenses are included in your package.

SOFTWARE UPDATES



ALSIM keeps innovating and our Software service brings you the most recent technologies and features. Benefit from regular updates such as TCAS, weather radar, ALSIM High Definition Visual System (VFR-VS).



INSTRUCTOR STATION

ALSIM has designed its instructor operating system with the instructor's comfort in mind.

It is a valuable complement to the flight trainer and an essential tool for the instructor. As the software interface is so easy to use, the instructor does not require computer skills to be able to provide excellent training.



MAIN CHARACTERISTICS

- | | |
|------------------------------------|------------------------------|
| • Semi-enclosed instructor station | • Headset |
| • 2 large touch screens | • Start-up panel |
| • Laser color printer | • Emergency stop switch (x2) |

FUNCTIONS

- Map display
- Positioning / repositioning
- Weather conditions adjustment
- Failure menu

ALSIM IOS



Aircraft



Approach map



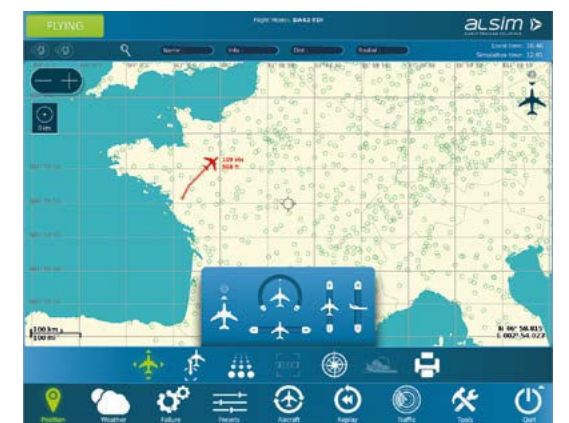
Main map



Weather



Traffic



Main map

TOTAL IMMERSION



DISCOVER A UNIQUE FLIGHT TRAINING EXPERIENCE

Each ALSIM simulator is provided with a VFR-VS image generator entirely designed and produced by ALSIM.

Our visual system offers optimal performance including outstanding accuracy and real time rendering and response. Together, this provides the pilot with a maximum immersion experience.

BENEFITS



FLEXIBILITY

ADAPTABLE TO CUSTOMER OR AUTHORITY NEEDS



INCREASED REALISM & CUSTOMIZATION

- JEPPESEN™ DATABASE
- YOUR OWN 3D DETAILED AIRPORT WITH YOUR OWN BUILDINGS, AIRCRAFTS, LOGOS...
- LIBRARY OF 120+ 3D DETAILED AIRPORTS AVAILABLE



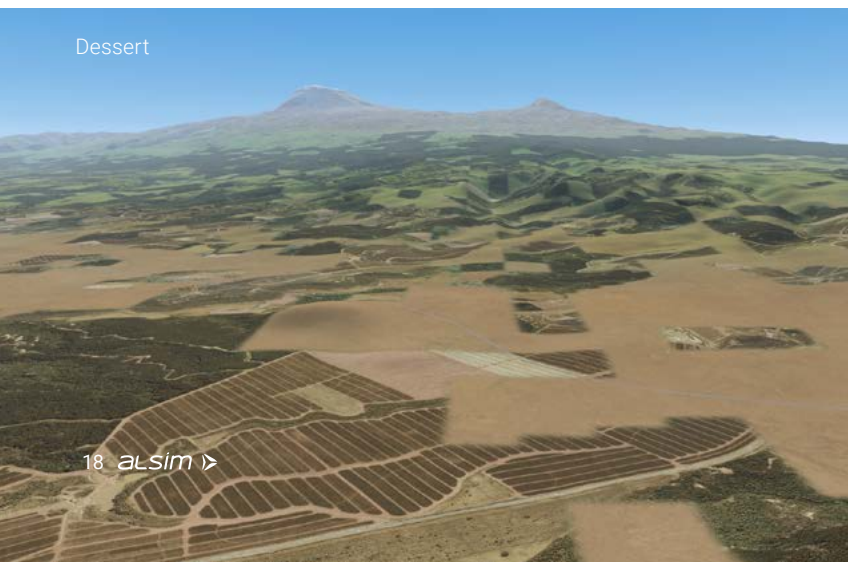
Detailed landscape



Rain / Airfield



Runway



Desert

PARAMETERS

Visibility, fog, cloud layers,
day / night, rain / snow / hail,
RVR settings, wind

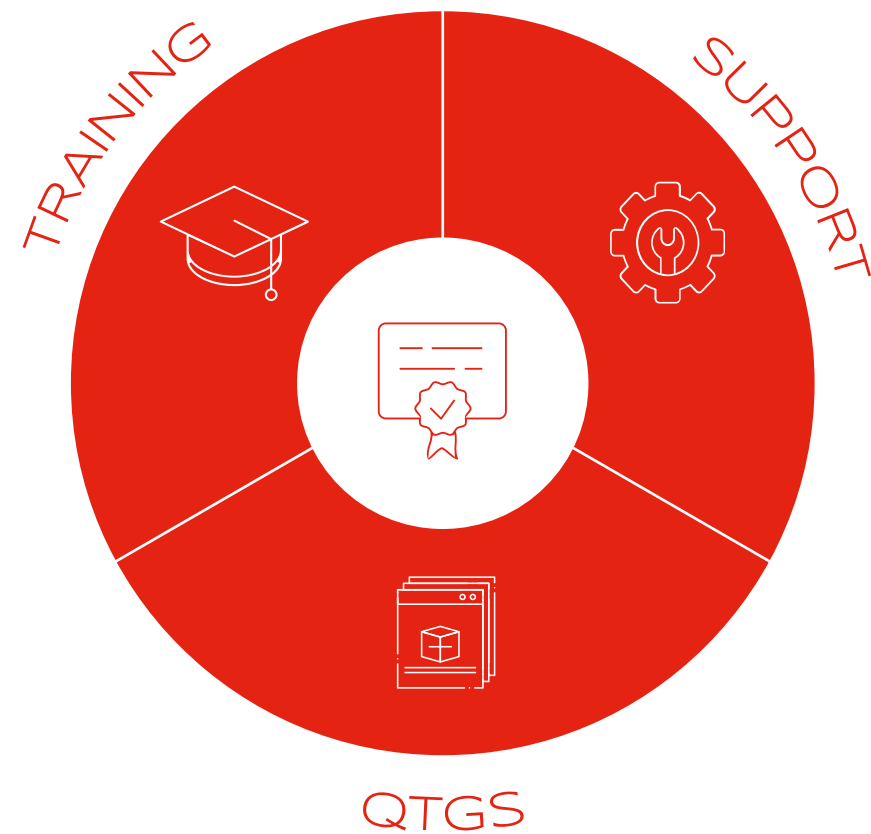
LANDSCAPE

Using different sources across
the world (NASA, NOAA...)

CERTIFICATION

100% CERTIFIED DEVICES

WITH THE SUPPORT OF OUR IN-HOUSE
CERTIFICATION DEPARTMENT



Certification is a major step when you acquire a simulator. Dealing with regulatory authorities can sometimes be a real challenge for an ATO, especially for smaller organizations. ALSIM has proven and extensive experience of the qualification process and can provide you with comprehensive support

Our dedicated team works closely with the relevant authorities to ensure that your simulator is qualified. ALSIM will provide you with a full range of services to meet your needs and ensure the qualification of your device.



CERTIFICATION TRAINING

Our dedicated team will provide you with all the necessary information needed to qualify your new simulator. The training includes regulatory requirements and the overall qualification process.



QUALIFICATION TEST GUIDES

Proper QTG documents are essential since they include validation tests required to demonstrate the expected fidelity of the aerodynamic and performance model of the FSTD. We provide you with a complete document to allow efficient review and evaluation.



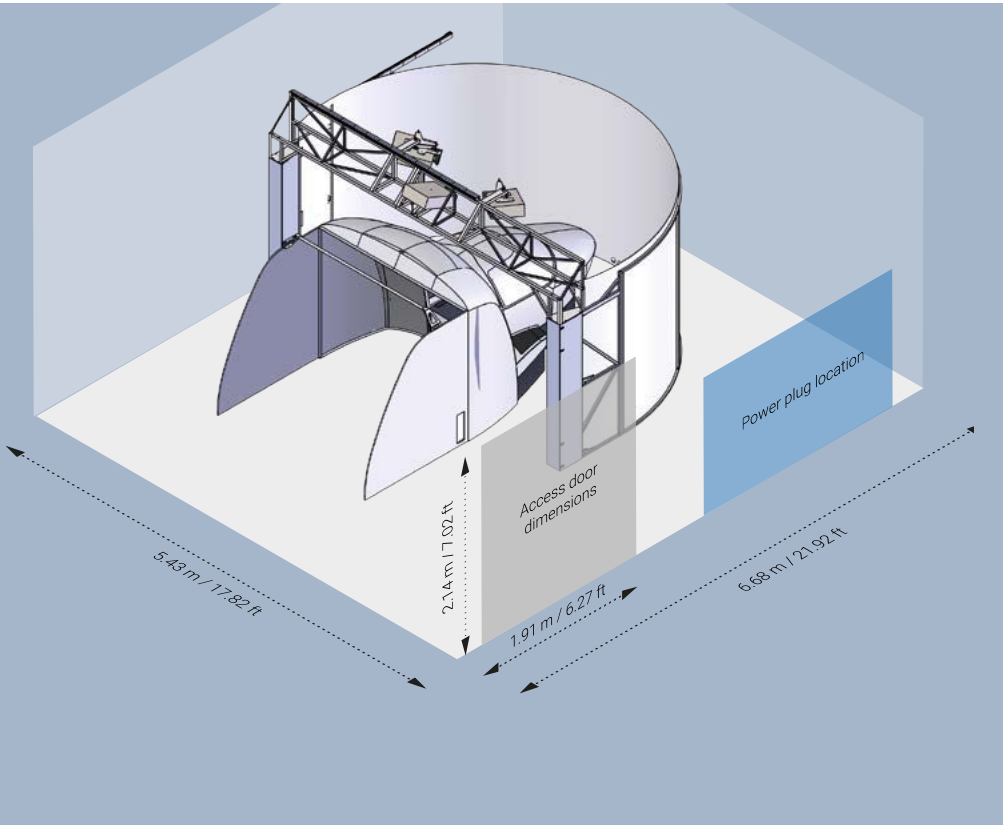
QUALIFICATION SUPPORT

We have a dedicated team that are on-hand to support you during the qualification of your device. If required, we can also be present at your facility during the audit inspection.

INSTALLATION

The installation is performed by ALSIM technicians

DIMENSIONS FOR THE ALSIM VFR-VS VISUAL SYSTEM



ROOM DIMENSIONS:

Room width: 5,43 m / 17.82 ft

Room length: 6,68 m / 21.92 ft

Room height: 2,90 m / 9.51 ft

ACCESS DOOR DIMENSIONS:

The access door from outside the building to the simulator room should be: (including intermediate doors or corridor)

Door width: 1,91 m / 6.27 ft

Door height: 2,14 m / 7.02 ft

ALSIM'S OFFER INCLUDES:

- Transport
- Installation
- Initial certification assistance
- Two years warranty

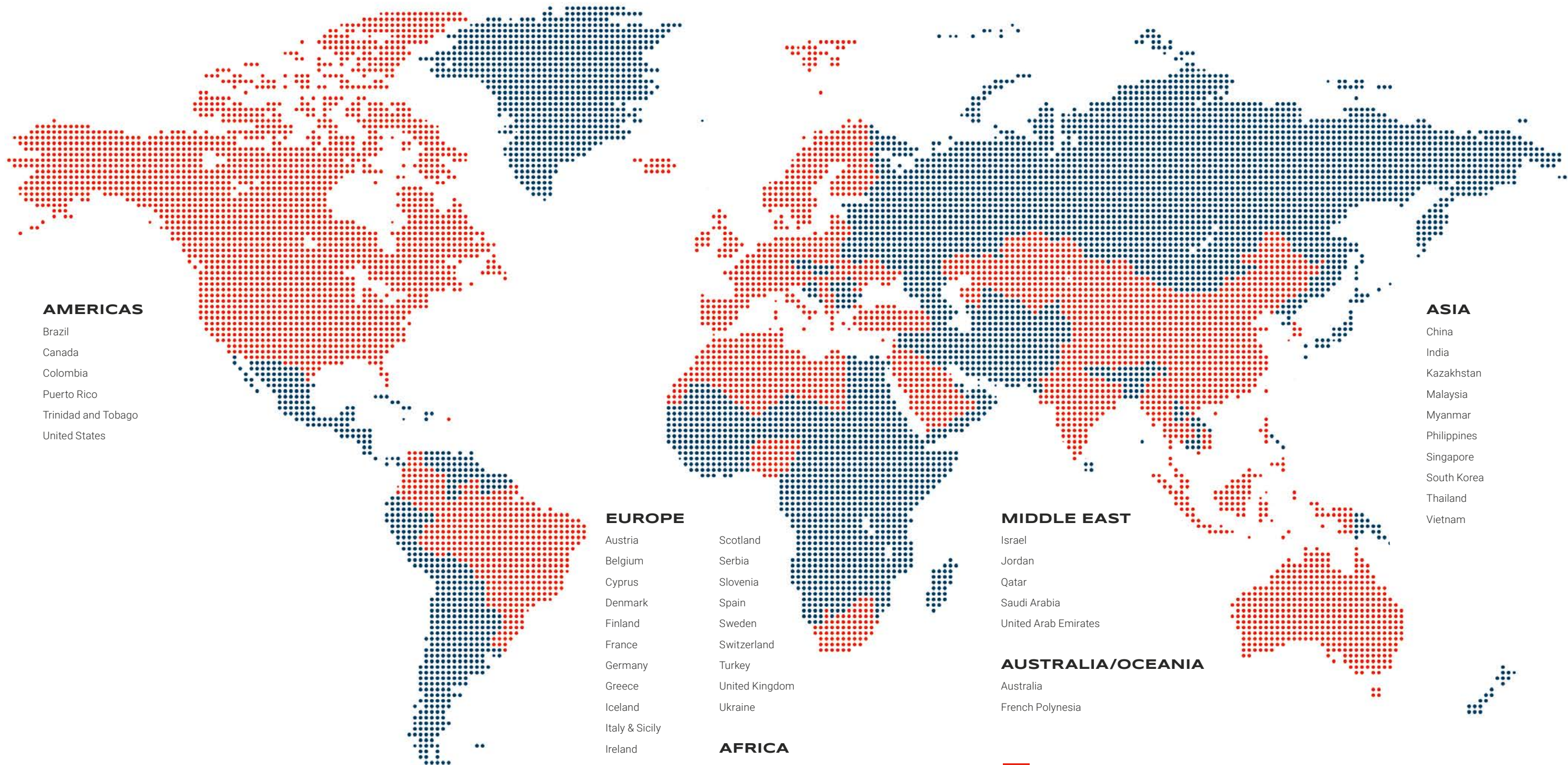
DELIVERY TIME / TRANSPORT:

- 4 months after order
- Transport (Sea/Truck) DAP



OUR CUSTOMERS

ALSIM simulators are in use in more than 50 countries, with more than 400 certified simulators installed at 300 customer premises. The best way to learn about a company is to listen to their customers.



■ ALSIM's customer locations

WARRANTY & MAINTENANCE

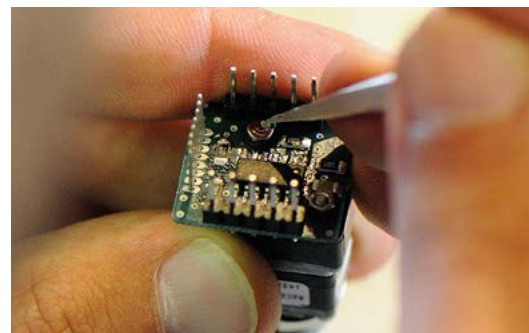
The story does not end with the installation of the simulator.
It is exactly the opposite: ALSIM offers its customers an extended warranty and complete maintenance.
The FSTD is managed and controlled by ALSIM: this means less stress for the customer and the guarantee of a constantly updated training tool.

The customer receives maintenance training at ALSIM's premises before shipment of the device. A spare parts kit is also provided with all the parts needed to ensure independence. A remote connection system allows ALSIM technicians to take control of customer's equipment using a secure VPN connection.

The AL42 is delivered with a two-year warranty support package. Maintenance has been made easier in our latest version: electronic access has been modified, and some components and cards have been revised.

Included in our two-year warranty support package:

- Airport and navigation databases are updated quarterly
- Telephone, e-mail and Techlog ticket service
- FSTD qualification and compliance monitoring support
- Diagnosis via secure internet connection (VPN)
- Annual maintenance, recurring training and checks
- Maintenance spare parts kit

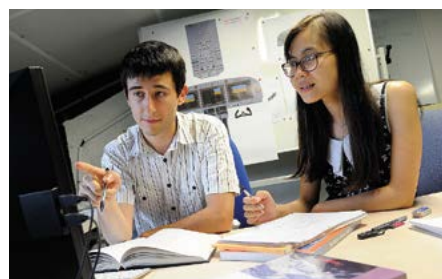
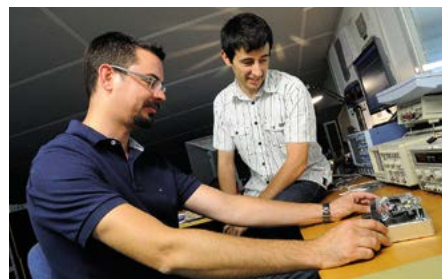


FEEL FREE TO CONTACT US

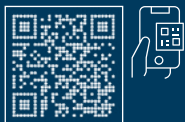
Our teams will be happy to answer any questions you
may have on how ALSIM can improve your training.



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60+ COUNTRIES, SINCE 1994