aLSR20

INSTALLATION REQUIREMENTS

alsim
FLIGHT TRAINING SOLUTIONS

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1 Revisons Log

Rev. No.	Description	Issue Date	Page(s) Affected
1.0	Initial Release	09/12/2020	All

Table 1.1: Document Revisions Log

2 Dimension Requirements

2-1 Access Doors Dimensions Requirements

Table 2.1: Minimum access door dimensions for the installation*:

	Metric (m)	Imperial (ft)
Height	2.14 meters	7 feet
Width	1.91 meters	6 feet 2 inches

**Any access door dimensions inferior to the above will be subject to a specific site survey by Alsim's engineers.*

CAUTION
All doors that lead to the installation room must comply with the dimension requirements above.

2-2 Recommended Room Dimensions

Below are the recommended room dimensions for the installation.

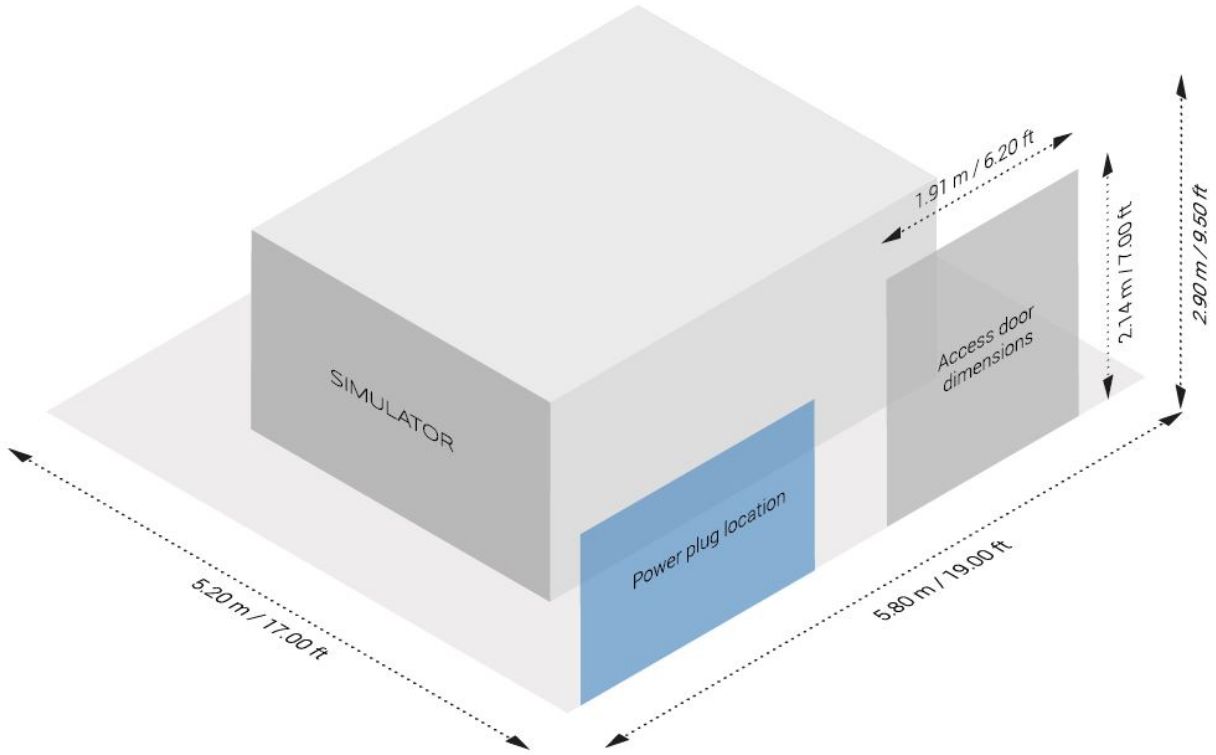

Figure 2.1: Recommended room dimensions

2-3 Trainer Dimensions

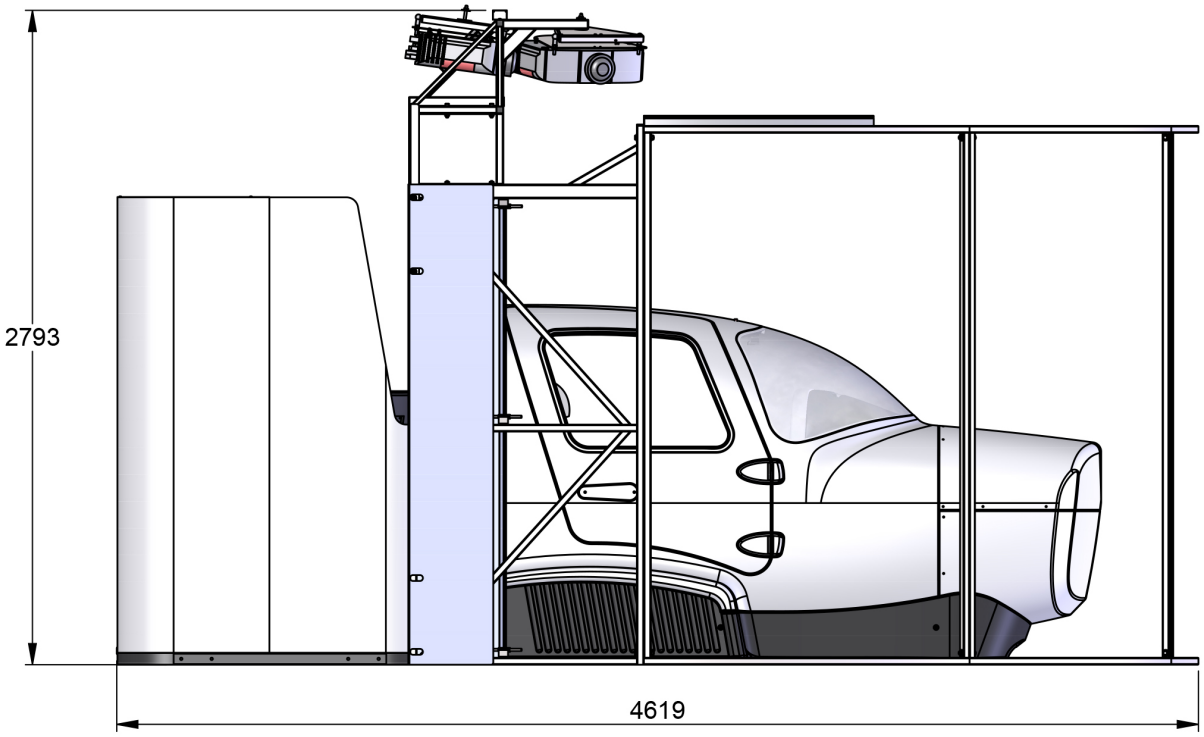

Figure 2.2: ALSR20 Side view

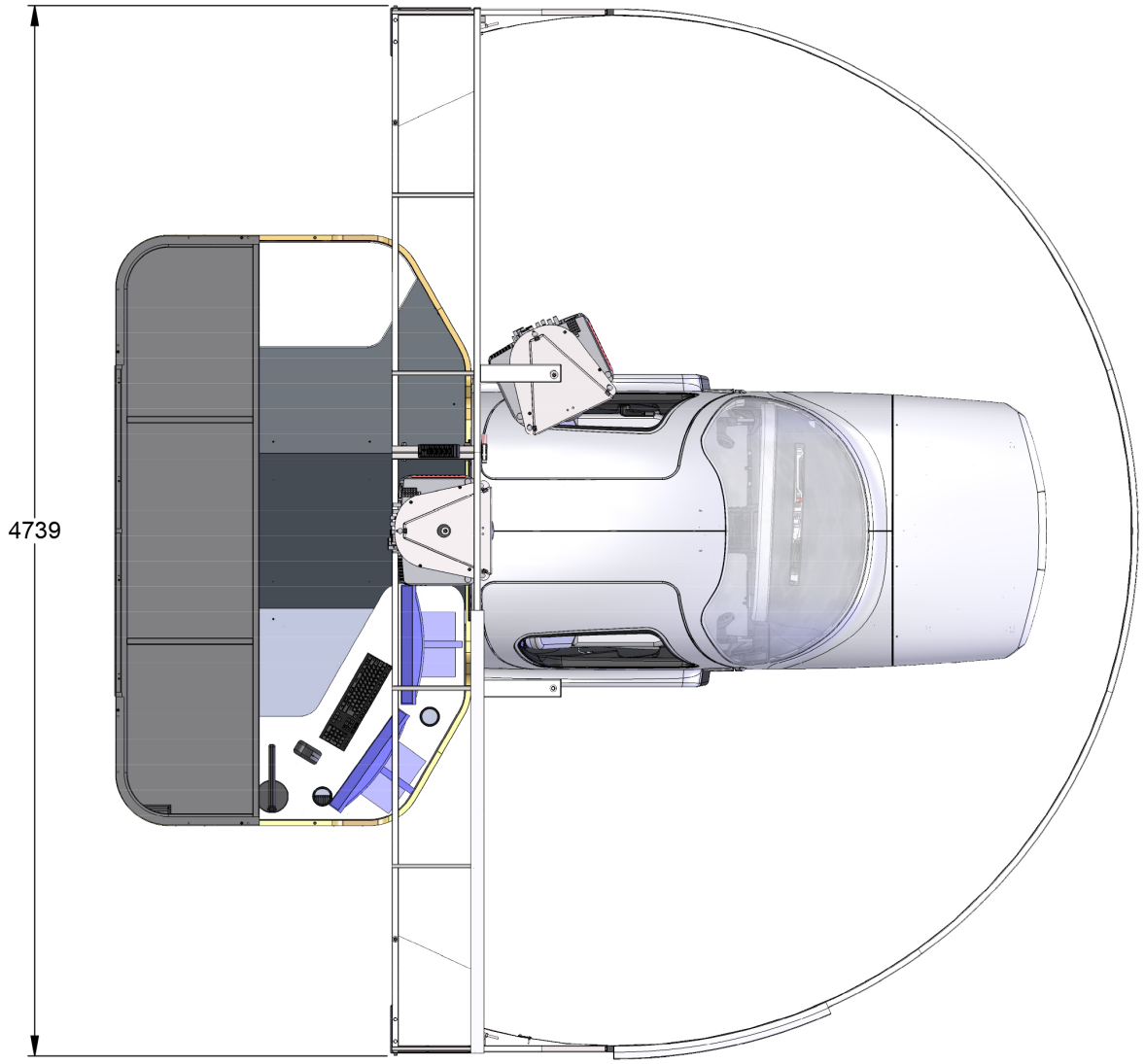

Figure 2.3: ALSR20 Top view

3 Power Requirements

3-1 European Standards

	Trainer	Projectors
Electrical power	230V, 50Hz	230V, 50Hz
Breaker power	16A, C curve	16A, C curve
Power consumption	2.1 kW (3 kVA UPS)	2.1 kW (3 kVA UPS)
Protection	300 mA Magneto thermal differential circuit breaker	30 mA Magneto thermal differential circuit breaker

3-2 North American Standards

	Trainer	Projectors
Electrical power	115V, 60Hz	115V, 60Hz
Breaker power	30A, C curve (or equivalent)	30A, C curve (or equivalent)
Power consumption	2.1 kW (3 kVA UPS)	2.1 kW (3 kVA UPS)

North American Installation Recommended UPS Power Supply

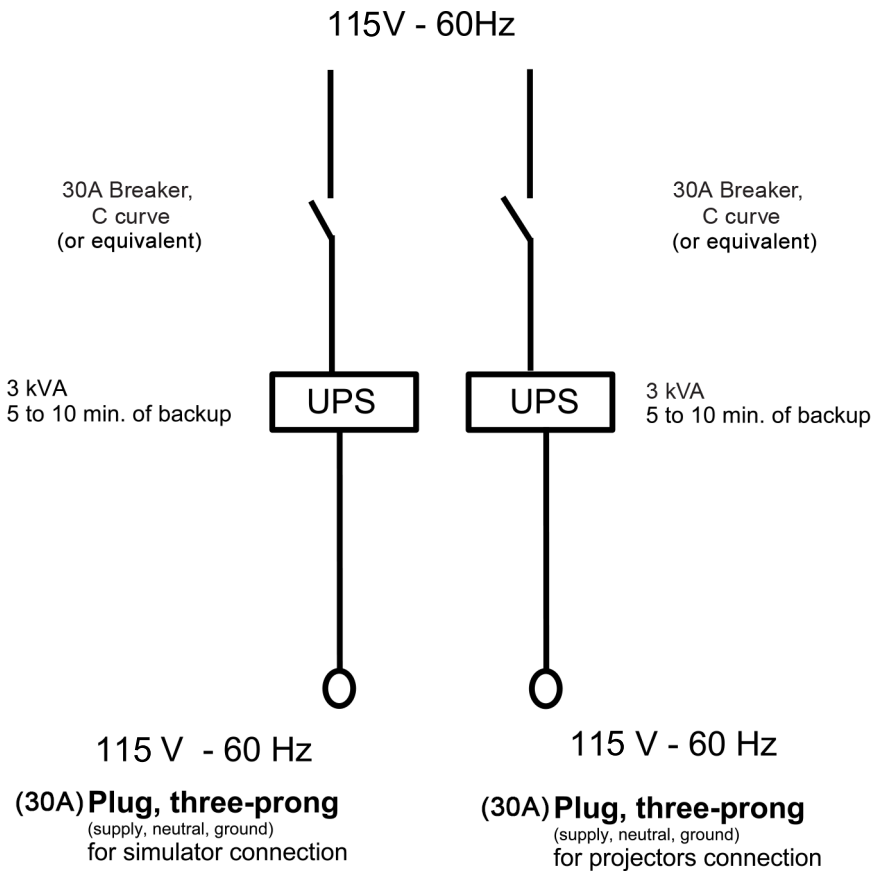

Figure 3.1: UPS electrical diagram

CAUTION
Electrical safety: upstream from the two UPSs, electrical protection (purchased independently by customer) must be evaluated and verified by the master electrician, according to North American standards.

4 Miscellaneous Requirements

4-1 Environmental Requirements

- Temperature from 10 ° C to 25 ° C, 50 ° F to 80 ° F (stable temperature recommended)
- Humidity inferior to 80%
- Air conditioning is recommended.
- Appropriately prepared anti-static, flat, floor surface.
- The simulator room must be equipped with a wired internet connection for maintenance.

NOTE
If internet access restrictions exist, please contact us for further details.

CAUTION
Even though the cockpit is mounted on wheels to facilitate installation, the flight trainer must not to be moved once installed and qualified! Moving an already qualified flight trainer would necessitate a new qualification.

4-2 EASA Certification Requirements

- Appropriate fire detection/extinguisher system.
- Emergency exit with emergency exit indicators (lights).
- "No smoking" indicators.
- A master switch for the room power supply.

4-3 Documents to supply to Alsim

- Type of electrical connector/plug.
- Type of keyboard you require for your trainer computers (Qwerty or Azerty).
- Trainer building access plan and photos/video (road surface, grass, tarmac,...).
- Trainer room access plan and photos/video (with dimensions).
- Are there steps/stairs to access the flight trainer room? (if yes, could you provide us with the steps/stairs dimensions)
- Trainer room plan (with dimensions) with sockets, wired internet connection location, doors and windows.
- From 5 to 10 airports names that you use to allow us to verify airport configuration (beacons, runways...). Does not apply to specific 3D airports.
- The exact address where the flight trainer will be installed.
- Would you agree if our technicians worked late (after/before office hours) at your facility for the trainer installation?

5 Summary to Send to Alsim

5-1 European Standards

Trainer power requirements (see on page 9)		
Electrical power: 230V, 50Hz, 3kVA	yes	no
Magneto thermal differential circuit breaker, 300 mA sensibility	yes	no
Power rating 16 A, C curve breaker	yes	no
Power consumption 2.1 kW	yes	no

Visual system power requirements (see on page 9)		
Electrical power: 230V, 50Hz, 3kVA	yes	no
Magneto thermal differential circuit breaker, 30 mA sensibility	yes	no
Power rating 16 A, C curve breaker	yes	no
Power consumption 2.1 kW	yes	no

Environmental requirements (see on the preceding page)		
Temperature	ok	not ok
Humidity	ok	not ok
Room luminosity	ok	not ok
Air conditioning	ok	not ok
Appropriate floor preparation	ok	not ok
Wired Internet Access	ok	not ok

EASA requirements (see on the previous page)		
Appropriate fire detection/extinguisher system.	yes	no
Emergency exit with emergency exit indicators (lights).	yes	no
"'No smoking"' indicators.	yes	no
A master switch for the room power supply.	yes	no

Room Dimensions & Door requirements (see on page 5, on page 6 and on page ??)		
Minimum door width & height	ok	not ok
Minimum installation room length	ok	not ok
Minimum installation room width	ok	not ok
Minimum installation room ceiling height	ok	not ok

Documents to supply (see on page 11)		
Type of keyboards	Qwerty	Azerty
Trainer building access plan (grass, tarmac...)	yes	no
Trainer room access plan (with dimensions)	yes	no
Steps/stairs to access the flight trainer room	yes	no
Steps/stairs dimensions	yes	no
Trainer room plan (with dimensions) with sockets, wired internet connection, doors and windows location.	yes	no
From 5 to 10 airports names that you use	yes	no
Exact address where the flight trainer will be installed	yes	no
Would you agree if our technicians work late at your facility for the trainer installation?	yes	no
Temperature	yes	no

5-2 North American Standards

Trainer power requirements (see on page 9)		
Electrical power: 115V, 60 Hz, 3kVA	yes	no
Power rating 30 A, C curve breaker (or equivalent)	yes	no
Power consumption 2.1 kW	yes	no

Visual system power requirements (see on page 9)		
Electrical power: 115V, 60 Hz, 3kVA	yes	no
Power rating 30 A, C curve breaker (or equivalent)	yes	no
Power consumption 2.1 kW	yes	no

Environmental requirements (see on page 11)		
Temperature	ok	not ok
Humidity	ok	not ok
Room luminosity	ok	not ok
Air conditioning	ok	not ok
Appropriate floor preparation	ok	not ok
Wired Internet Access	ok	not ok

Room Dimensions & Door requirements (see on page 5, on page 6 and on page ??)		
Minimum door width & height	ok	not ok
Minimum installation room length	ok	not ok
Minimum installation room width	ok	not ok
Minimum installation room ceiling height	ok	not ok

Documents to supply (see on page 11)		
Type of keyboards	Qwerty	Azerty
Trainer building access plan (grass, tarmac...)	yes	no
Trainer room access plan (with dimensions)	yes	no
Steps/stairs to access the flight trainer room	yes	no
Steps/stairs dimensions	yes	no
Trainer room plan (with dimensions) with sockets, wired internet connection, doors and windows location.	yes	no
From 5 to 10 airports names that you use	yes	no
Exact address where the flight trainer will be installed	yes	no
Would you agree if our technicians work late at your facility for the trainer installation?	yes	no
Temperature	yes	no