

AW139 HELICOPTER SIMULATOR

"The Thales simulator has an amazing fidelity compared to the real helicopter and brings the training experience to excellence."
– Jeremy Ovens, Head of Operations, LifeFlight.

FLIGHT MODELLING

Real world data that's fresh. The only simulator to have a flight model that's based on the latest AW 139 airframe, which includes the phase 7 avionics upgrade capability.

The only simulator to have Data collection for flight model based on real world operations in partnership with LifeFlight. The simulator is fitted with 4 axis enhanced Flight Director with Search and rescue Modes (SAR), weather radar, TCAS II, EGPWS, direction finder, rescue hoist and cargo hook.

MOTION TECHNOLOGY

- » Larger Field of View
- » Excellent sensation thanks to Hexaline movement
- » Highly realistic vibration & environment simulation
- » Realistic high resolution database

Thales developed our own patented technology and created the Hexaline motion system. This creates Higher response rates to pilot control inputs, smoother movements, accurate feel and fidelity.

Separate Vibration platform has 3 degrees of freedom in all directions, this in combination with the Hexaline motion system creative nuances in feel like no other simulator on the market

Control flutter and vibration sensation is as close to the real AW 139 as you can get.



VISUAL DISPLAY

- » Resolutions and detail in display is the best in industry
- » Field of view exceeds the regulated requirement 235° Horizontal and 80°
- » Manoeuvres at low altitude and visibility, Field of view across Chin window second to none
- » Field of view descents and obstacles avoidance
- » Aiming Point comes into view significantly earlier than any other industry simulator visual system
- » Blends between visual projection is perfectly synced, providing a seamless visual display

ABILITY TO UPDATE

The reality H Simulator has the ability to be updated with new data into the flight model based on operators feedback.

Unlike other industry simulators which are not able to be updated, the Thales reality H will be updated if there is an Aircraft change and if there are changes to operators operating procedures.

OPERATIONAL SCENARIOS

The Thales reality H has the ability to provide pilots with a flight training experience that includes multiple system and mechanical malfunctions simultaneously.

Real malfunction scenarios enable the pilots to be trained to handle in the correct manner should the even occur in real life. Using the real helicopter can reinforce negative habits to form, due to the need to be more reserved during real flight operations.

INSTRUCTOR STATION

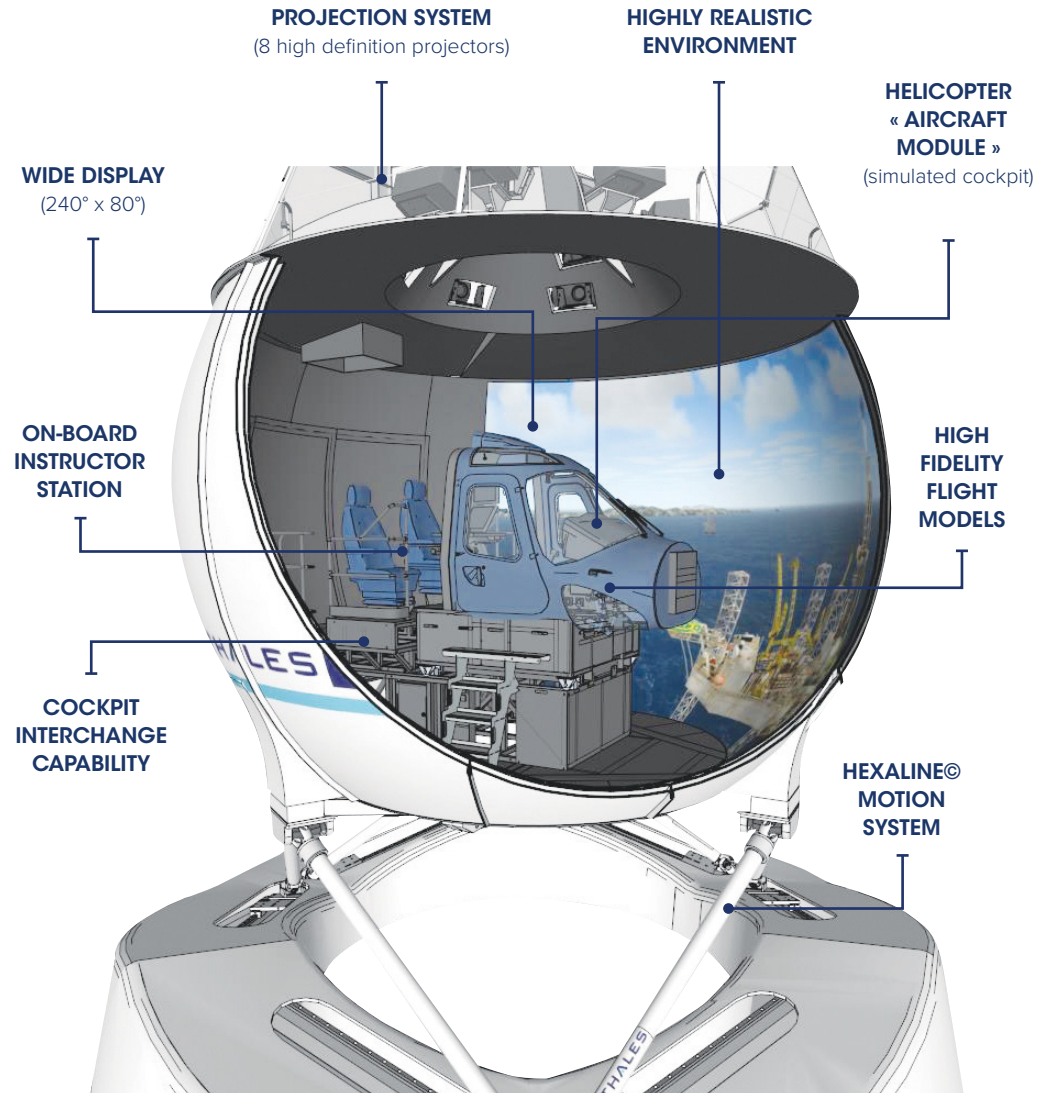
The Thales reality H has the ability to provide Instructors with touch pad technology, enabling creative and effective training scenarios to be simulated

EASA AND CASA APPROVALS

1. AW139 Pilot Initial Type Rating (includes IPT)
2. AW139 Pilot Recurrent
3. AW139 Instrument Proficiency Test (IPT)
4. AW139 FFS dry lease hourly rate
5. AW139 CPT dry lease hourly rate
6. AW139 Flight Instructor hourly rate
7. AW139 Virtual reality aircrew training (VRATD)
8. AW139 Aircrew Instructor hourly rate
9. AW139 LOFT training: HEMS, SAR
10. AW139 NVG (& IIMC): Non technical skills (CRM)
12. HUET & EBS
13. AW139 Pilot Approved Maintenance (PAM)

SIM ADVANTAGES

THALES
LifeFlight
SIMULATION CENTRE



AW139 FULL FLIGHT SIMULATOR – LEVEL D

Setting the safety standard in innovative, high-performance
AW139 aircrew training.

ABOUT THE AW 139 FULL FLIGHT SIMULATOR

- » Outstanding realism for mission training
- » Specifically designed for oil and gas, search and rescue, emergency services helicopter operators.
- » Compliant to Level D * (according to FAA/ EASA regulatory requirements)

TRAINING OPTIONS

- » Pilot Conversion to Type / Class
 - » Four weeks. 16 hours AW 139 simulator training (includes Type Rating Flight test)
- » Pilot Recurrent
 - » Five days. 6 hours AW 139 simulator training Instrument
- » Flight Training (initial & recurrent)
 - » Instrument refresher. Instrument Rating Flight Test. Instrument Proficiency Test (IPT)
- » Night Vision Imaging System Training
- » Night VFR refresher or initial training
- » AW139 Initial Type Rating Training
- » AW139 Recurrent Training
- » Instrument Flight Training (IFR)
 - » Initial instrument training
 - » Instrument Rating Flight Test
 - » Instrument Proficiency Check (IPC)
- » Night Vision Imaging System (NVIS) training
- » Night VFR training or refresher

» Simulator Instructor Rating (SIR) Training

- » Simulator IOS training for current AW139 flight instructors (FIR) or examiners (FER)
- » Simulator IOS courses for CAR 217 AW139 check pilots

PACKAGES

» Dry Lease Rate

- » Use of company check pilot

» Packaged Training Courses

- » Recurrent Training Course
- » AW139 Type Conversion Course

*Option: Type rating flight test in AW139 helicopter can be provided

» Custom Training Courses

- » Developed to suit your requirements
- » Includes LifeFlight CASR Part 142 flight instructor or examiner

» Simulator Instructor Training

- » Current Flight Examiner Rating (FER) holders are allowed to conduct proficiency checks in the simulator
- » A course of training to allow company check pilots to conduct CAR217 checks in the simulator

**Other training packages available through
LifeFlight RTO**

