



# **VECTOR-HIL Simulator**

The VECTOR-HIL is the most advanced training simulator developed by UAV Navigation-Grupo Oesía.

## **Key Features:**

Test VECTOR in real flight configuration



Realistic training environment for UAV operators



Realistic simulation of sensor failures



Platform customizable, 3D model view



Simulate adverse weather conditions

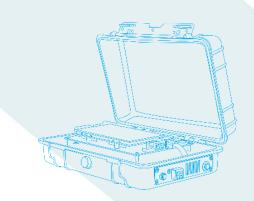


Naval operations



#### **Functions:**

- Display the 3D platform and environment on Flight Gear.
- Emulate the aircraft dynamics based on a complex dynamic and parameterized model.
- Emulate the behaviour of an estimator suite (AHRS).
- Emulate different payload and sensors such as: Laser Altimeter, Weight on wheels (WOW), RPM sensor etc...
- Read the PWM output from the AP to emulate the servo actuator in each control surface. Also, it is possible to simulate sensor failure, noise, disturbances and servo malfunction.
- Perform complete Pre-flight procedures.





## **Technical Specs:**

ELECTRICAL AND I/O		
9 to 36 Volts DC.		
6W		
Female 2.5 mm barrel jack (positive polarity)		
Ethernet RJ45		
MECHANICAL / ENVIRONMENTAL		
250 x 170 x 90		
1300 g		
-40°C to + 60°C		

Features	SIL	HIL
GCS software training tool	✓	✓
Simulation fidelity	Logic Level	Generic / Custom
Advanced and emergency procedure simulation	Basic	Advance d
Physical Aircraft Model	Generic	Custom
FlightGear interface	Basic	Advance d
Instructor Position	-	✓
Sea operations	-	✓
Customization	-	✓
Iron Bird Integration	-	$\checkmark$
GCS software training tool		$\checkmark$



### **Headquarters:**

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