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DeckFinder



AIRBUS

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DEFENCE AND SPACE

DeckFinder™

Airbus' proven in-operation capability for precise, reliable and safe automatic take-off and landing in extreme weather conditions, day and night

AIRBUS

Expand operational envelope and mission scope while enabling fully autonomous maritime UAS operations

- ✓ License-free radio frequency-based solution for all-weather operations
- ✓ Highly accurate local positioning system (approximately 10 cm)
- ✓ Enables relative 3-dimensional positioning for unmanned and manned aircraft operations
- ✓ GNSS independence, for safe landings even at night, in dense fog, thunderstorms and blizzards
- ✓ Enables day and night, 24/7 navigation tasks in challenging conditions
- ✓ Fully integrated into multiple leading maritime UAS platforms



Whatever the mission

When landing on small or moving helidecks, a difference of a few centimetres can compromise and endanger a whole mission. To avoid such risk, DeckFinder provides a 3-dimensional reference of the UAS' relative position, aiding in landing the aerial vehicle safely.

- Ad-hoc temporary or permanent installation
- Platform-agnostic
- Small, light and easy to integrate
- Ruggedised for harsh environments with vibrations, salt water projections, dust and temperatures from extreme cold to extreme heat
- Scalable operational area to meet all mission requirements
- Easily integrated onto existing and future naval vessels and its aircraft

Ground Segment

- 6 Ground Station Units (GSU)
- Self-standing components for rapid deployment or permanent installations
- Battery and / or line-powered
- Fully ruggedised for harsh military and naval conditions
- Version with direct integration into ship deck lighting systems available

Electrical	
Power Supply AC	100 – 240 VAC @ 50 -60 Hz
Power Supply DC	12 – 36 VDC
LiFe Battery	3 Ah, Operation time up to 10 h. Charging time: 2 h
Power Consumption	4 W (typical)
Earthing Connector	M6 thread screw
Operating Conditions	
Temperature Range	-20 °C to +50 °C
Salt Water Resistance	Yes
Dust and Water Proof	IP67, Protection against contact, Immersion up to 1m
Mechanical	
Length	259 mm
Width	195 mm
Height	109 mm
Weight	3.5 kg



DeckFinder™
Ground Station Unit

Airborne Segment

- Range Measurement Unit (RMU), Position Calculation Unit (PCU), 2x RF Antennas, Radio Altimeter (optional)
- Lightweight design with generic interfaces to downstream resources
- Can be connected to any Autopilot Systems, Displays, Flight Management System as sensor input for 3-D relative Positioning & Bi-directional local communication
- Version for direct integration into aircraft has a reduced total system weight of approx. 400g

	RMU	Antenna	PCU
Electrical			
Power Supply	12 – 36 VDC		9 – 36 VDC
Power Consumption	3 W (typical)		3 W (typical)
Interface	2x SMA, MIL-DTL-38999 series III		1x microComp® Series 104 pin
Operating Conditions			
Temperature Range	-32 to +55 °C ambient	-40 to +60 °C ambient	-40 to +70 °C ambient
Mechanical			
Length	241 mm	50 mm (diameter)	108 mm
Width	116 mm		78 mm
Height	64 mm	20 mm + 8 mm	24 mm
Weight	1.3 kg	60 g	163 g



DeckFinder™
Range Measurement Unit
with RF Antennas