

Technical Data

Aircraft Vehicle

Materials	Full composites
Wingspan	165in (4.2m)
Length	59in (1.5m)
Maximum Take off Mass	55lbs (25kg)
Engine Type	Gasoline Engine
Endurance	10h / 540NM (1000km)
Cruise Speed	38kt to 70kt (70 to 130km/h)
Maximum Altitude	10.000ft (3000m)
Climbing Rate	820ft/mn (250m/mn)
Launch	Bungee catapult
Recovery	All Terrain, short range belly landing
Lights	Navigation/ Position/ Strobe

Payload Bay

Volume	60x8x9 in3 (60x21x23 cm3)
Maximum Payload Mass	11lbs (5kg)
Electric Power Supply	60W-80W, 15V regulated
Openings	Automated Sideopening Hatches*
Fastening	Fastening Rails*

*Customization on demand

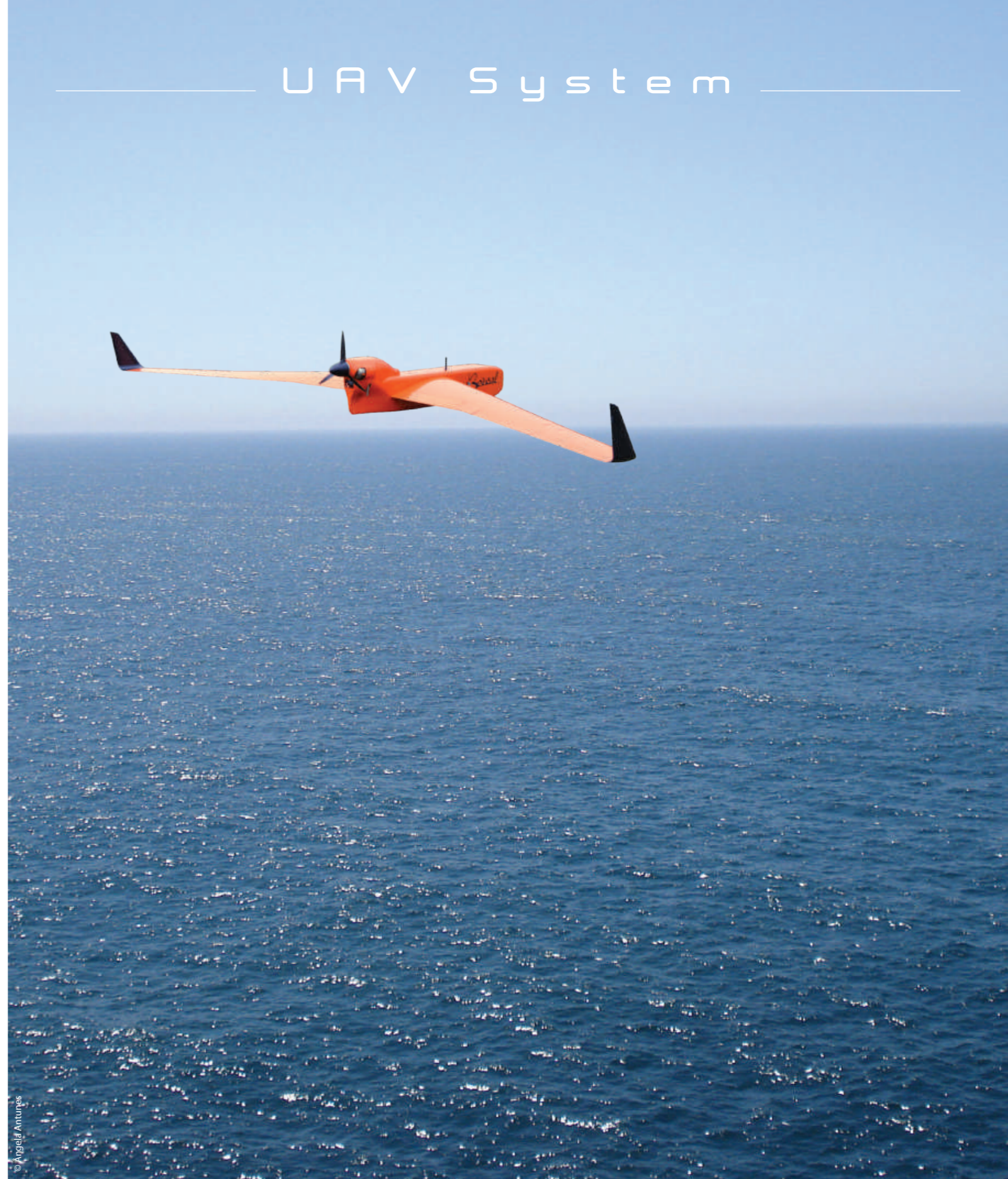
Operational Conditions

Transport	Entire system contains in a trailer for light vehicles
Preparation Time	Less than 20min
Temperature Range	-4° F to 122° F (-20° C to +50° C)
Max Wind Speed for Takeoff	32kt (60km/h)

System

General	Full automatic mission flight, cartographic monitoring
Ground Control Station	Customized from QGControl Software, additionnal safety module
Landing, Takeoff	Assisted Landing and Takeoff Mode

Photos : Yellowscan - Météo France - BOREAL SAS - 02/2020



The BOREAL UAV System is designed, developed and built by SAS BOREAL, using aeronautical technologies. In addition, SAS BOREAL is able to adapt and customize the product to meet user needs, particularly for scientific applications or collecting measurements (contact us for more details).

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Precision, heavy payload capacity, long endurance

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BOREAL UAV System

The BOREAL system is a **fixed-wing UAV** with **high-endurance** and a **heavy payload capacity**. The drone is particularly suitable for **any type of mission** requiring the haul of a demanding payload in terms of mass, volume and stability.

The UAV system has established its reputation over the years through applications which have been used by CEA, ONERA and Météo France. The BOREAL UAV system is designed, developed and built by BOREAL SAS.



8h-10h
Endurance



850km - 1000km
Endurance



5kg
Payload Mass



60w - 100w
Electric Power Supply



25kg
Maximum Take Off Mass



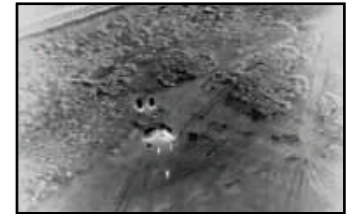
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Applications

Intelligence, Surveillance, Recognition (ISR)



Long range observation and high-end optronic camera allow multiple missions dedicated to **surveillance applications** for military and civil purposes.

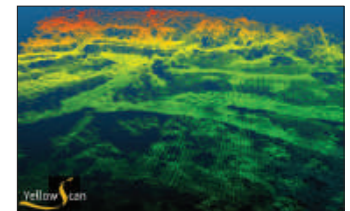


Night vision

Natural Resources Monitoring



Stability and large payload capacity allow efficient **LiDAR scanning** and **high quality photography** above large areas (infrastructures, environment).



LiDAR Scanning

Scientific Experimentation Platform



BOREAL UAV is **customizable** to adapt it to **meet user needs** particularly for scientific applications or collecting measurements.



ReNovRisk Project