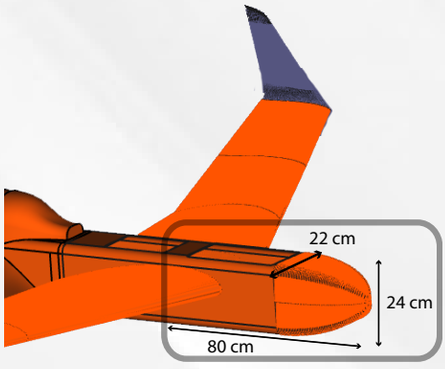
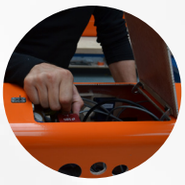
BOREAL LAB

The **BOREAL UAV LAB (Science LABoratory)** is a fixed-wing UAV for long range scientific missions up to 500mn (8h).
The drone has shown remarkable stability for flying in harsh environment (wind, turbulence, precipitation). The payload area is large and can accommodate complex payloads up to 11lbs (5kg).



Custom Payload Integration





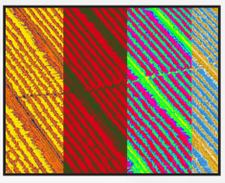
Use Cases Examples


METEOROLOGY


TURBULENCE


GRAVIMETRY


SPACE TECHNOLOGY


IMAGERY

contact@boreal-uas.com
+33 (0)5 61 45 38 75

www.boreal-uas.com

1 ter rue de l'Industrie
31320 Castanet-Tolosan

Key Features

- Heavy payload capacity
- Custom payload integration
- Autopiloted system
- Strong wind and rain resistent
- Stable flights
- All terrain compatible
- ITAR free

Payload: 11lbs

Distance: 500mn

Power: 150W

Examples of European Projects

RenovRisk Erosion

EURECA

SKYOPENER

ONERA TERRISCOPE

Technical Specification

UAV	Maximum Take Off Weight: 55lbs (25kg) Long Range: 500mn (8h) Minimum Speed: 38kt (70km/h) Maximum Speed: 70kt (130km/h) Maximum Altitude: 1,8 mn (3500m)
PAYLOAD	Payload Space Dimension: 31x8x9in (80x21x23cm) Custom Fixing (anywhere on the flat side) Power Supply: 12v-15v 150w
DATA LINK	3 mb/s over 32mn (60km) 1 mb/s over 53mn (100km) 1 kb/s beyond 53mn (100km)
MONITORING	Payload Supply Command (ON/OFF) from ground Real Time Data Link for Monitoring

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