



FLY-R

AERO COMPOSITES INNOVATIONS



R2-150

UAS for surveillance, observation & reconnaissance

Fully autonomous
Low operating cost
Extended flight envelope

High operational availability
Land based
Ship based

Rapid deployment
Low maintenance



115 km/h



2 hours



50 km
(LOS)



No pilot



Automatic

Take-off & landing / recovery

www.flyr-uas.com

R2-150

R2-150 is a fully autonomous system based on the unique rhomboidal wing configuration with the advantages of aerodynamic efficiency, reduction in size of wingspan and structural strength.

The design of rhomboid aircraft R2-150 has been validated by the **ONERA**.



Sub-Systems



Launcher

Without pyrotechnic device



Recovery

Ship and land based versions



GCS



Technical specifications & Ancillaries

Dimensions (W x H x L)	1504 x 306 x 1400 mm
MTOW	< 15 kg
Max payload	1,5 kg
Power plant	Electrical motor
Speed range (at MTOW)	70 to 200 km/h
Launch speed (at MTOW)	< 80 km/h
Launch method	Mobile launcher
Landing	Net recovery or belly landing
Cruise speed	115 km/h
Operating range	50 km (with LOS communication)
Endurance	2 hours
Ceiling	5000 m

- No pilot in the loop
- Automatic take-off and landing / recovery
- Flies a pre-programmed pattern. Pattern can be modified in real time from the GCS using operator basic commands
- Bi-directional data link with real time video image transmission from aircraft to GCS
- Transponder system
- Various payload configurations can be integrated within the physical and functional constraints of the aircraft
- Mission sensor (standard): night and day camera

Specially designed for

Border patrol / Support to natural disaster relief operation / Fire detection / Unauthorized trafficking of people and goods / Pollution control / Uncontrolled fishing / Maritime transport assistance & anti-piracy surveillance / Monitoring of industrial infrastructures

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