



**FLY-R**  
AERO COMPOSITES INNOVATIONS



# R2-120 RAIJIN

## Patented Rhomboidal Foldable Wing

Fully autonomous  
Optionally remote controlled  
Automatic unfolding wings

High operational availability  
Large speed range  
High manoeuvrability



110 km/h



270 km/h



50 km



45 min



Automatic

[www.flyr-uas.com](http://www.flyr-uas.com)

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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 rhomboidal wing is a breakthrough technology in aeronautics.



## Technical specifications & Ancillaries

Folded dimensions (W x H x L)	250 x 255 x 1195 mm
Unfolded dimensions (W x H x L)	1215 x 225 x 1070 mm
MTOW	5 kg
Max payload (mission + military)	1,5 kg
Power plant	Electrical motor
Operational speed range	95 km/h to 200 km/h
Launch method	Portable tube launcher
Launch speed	95 km/h
Cruise speed	110 km/h
Attack dive speed	270 km/h
Landing	Optional
Operating range	50 km
Endurance	45 min (at cruise speed 110 km/h)
Ceiling	3000 m

- No pilot in the loop
- Fast deployment, 2 operators
- Automatic take-off from launching tube (without pyrotechnics)
- Automatic unfolding of wing at launch
- Flies a pre-programmed pattern. Pattern can be modified in real time from the GCS using operator High level commands
- Bi-directional data link with real time video image transmission from aircraft to GCS
- IFF system (optional)
- Various explosive military payload types can be carried
- Mission sensor: night and day camera
- Precision final guidance to target: optical / autonomous after target designation by GCS operator
- Optional belly landing
- Swarm capability

**Specially designed as a BVLOS loitering munition with accurate strike capability**

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