KAJAN

UAV Multi-rotor Interceptor

- Electric propulsion
- VTOL
- High speed
- Parachute recovery

An advanced unmanned aerial vehicle that combines airplane and multirotor advantages.

TECHNICAL SPECIFICATIONS

Flight parameters

350 km/h

Maximum speed

100 km

Maximum flight range

90–350 km/h

Flight speed range

35 m/s

Rate of climb

15–40 min

Flight time

4.5 kg

Maximum takeoff weight

500–1100 g

Payload weight

Vertical + Horizontal

Takeoff modes

DESIGN & ARCHITECTURE

Hybrid airplane–multirotor design

Fuselage

Foam, composite materials, aerodynamic shape

Wing

Fixed structure with high lift-to-drag efficiency

Motors

2 electric motors capable of VTOL

Control

Autonomous flight system with redundancy

Hybrid aerodynamic scheme · Optimized for high speeds · Efficient flight control · Modular architecture

COMBAT CAPABILITIES

Payload up to 1100 g

Reconnaissance payload

- Optoelectronic system
- Thermal imaging camera
- Visual auto-tracking

Strike payload

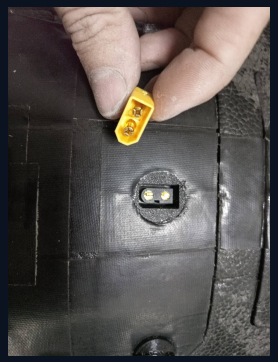
- HE fragmentation charge
- Shrapnel / fragment dispenser

Tactical advantages

- Rapid deployment from any location
- High target interception speed
- Operation in adverse weather
- Low operating costs
- Autonomous mission execution

KEY FEATURES

What makes KAJAN unique



Quick-start key

Ready in seconds

Quick-start key powers all aircraft systems in ~5 seconds.

Vertical takeoff

No runway, no catapult — deploy from any site.

Parachute system

Automatic return and soft landing for airframe reuse.

Hybrid design

Airplane speed + multirotor agility in one platform.

High maneuverability

Fast course changes for pursuit and interception.

Modular payload

Interchangeable ISR, strike, and EW modules.

KEY FEATURES

Ground Control Station (Internet / Starlink)

Low video latency

Ultra-low video latency; slightly higher when controlling over the internet.

Antenna rotator + auto mode

Manual and automatic antenna pointing control.

Radio-beacon positioning

UAV positioning and antenna tracking without GPS.

EW & GPS-spoofing resilience

Wideband links and fast frequency hopping resist jamming.

APPLICATIONS & PROSPECTS

Dual-use platform, global demand

Military applications

- Intelligence & surveillance
- Enemy UAV interception
- Perimeter defense
- Combat support

Civilian programs

- Search & rescue
- Infrastructure monitoring
- Cargo delivery
- Aerial survey

200 km

Target flight range

450 km/h

Target flight speed

Swarm ops

Group mission integration

AI autonomy

Autonomous decisions

COMPETITIVE ADVANTAGE

Unique in its class

Parameter	KAJAN	Sting	AIR Pro	Merops
Type	VTOL Fixed-Wing	Quadcopter	Multirotor	Fixed-Wing
Max speed	350 km/h	343 km/h	200+ km/h	280 km/h
Range	100 km	25 km	N/A	5–20 km
Flight time	15–40 min	~10 min	35 min	~20 min
Recovery	Parachute (reuse)	Kamikaze	Kamikaze	Kamikaze
VTOL	Yes	Yes	Yes	Catapult
Modular payload	Yes	No	No	No

KAJAN uniquely combines VTOL convenience + fixed-wing speed + reusable parachute recovery + 100 km range.

Ready to collaborate

Development and production of advanced aviation technologies.

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KAJAN by ARNX — AERONIX UAV Systems