

IKA-ROCKET

Rotary wing drone

Armed with 3 x 57 mm aircraft rockets

PURPOSE :

IKA-ROCKET is a certified military-grade, rotary-wing hexacopter. Its airframe is constructed from carbon-fiber-reinforced epoxy, enabling flights over 30 minutes with up to 20 kg of payload - an unrivaled capability on the market. The drone can operate fully autonomously, day and night, and can carry up to three 57 mm aircraft rocket, launching them one by one to neutralize multiple targets.

MAIN CHARACTERISTICS :

- Powertrain and power source: BLDC electric motors and 4.3 kWh replaceable lithium-based battery
- Propeller diameter/pitch: 812.8 mm / 279.4 mm (32" / 11")
- Max power of each motor: 5.7 kW (for 24 kgf at 4600 rpm)
- Dimensions: 2490 mm x 2400 mm x 670 mm (8.2 ft x 7.9 ft x 2.2 ft)
- Transport package dimensions: 1200 mm x 1100 mm x 850 mm (3.9 ft x 3.6 ft x 2.8 ft)
- Structure material: Carbon fiber reinforced polymer
- Maximum takeoff weight: 70 kg (154 lb)
- Optimal payload mass: 20 kg (44 lb)
- Remote controller: IKA-CTRL with custom FlightControl Application, simultaneous use of multiple controllers (control and monitor modes, separate armament control)
- Equipment: 3-axis EO/IR gimbal camera with 10x optical zoom.

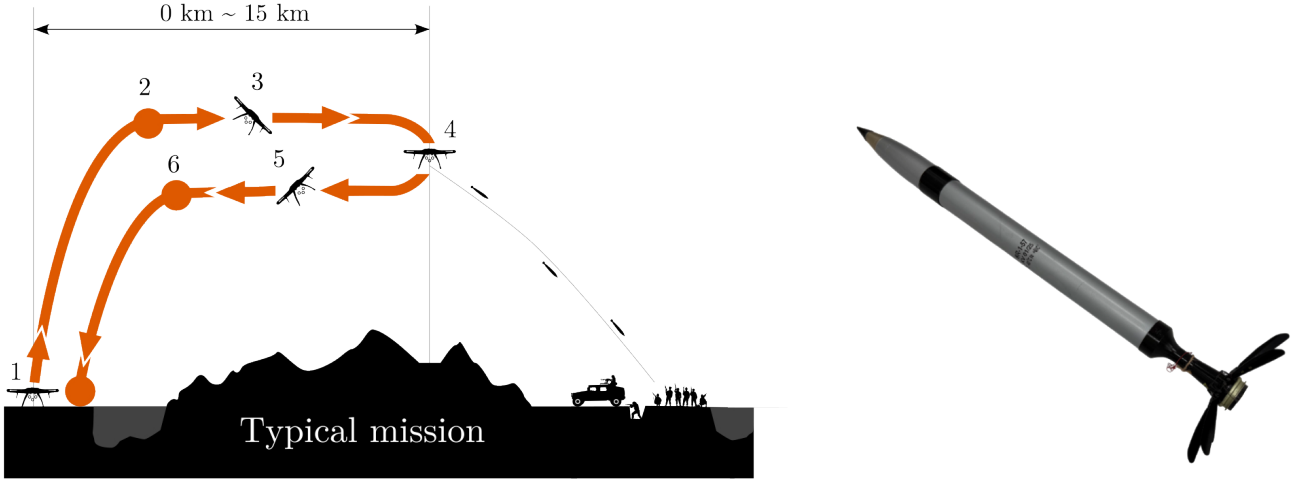


Figure 1 - Typical mission (left) and rocket (right)

FLIGHT PERFORMANCE :

- Max flight distance: up to 30 km (19 miles)
- Mission radius: from 5 km to 15 km (from 3 miles to 9 miles)
- Operating altitude: from 150 m to 500 m (from 500 ft to 1600 ft)
- Flight time: between 20 min and 40 min
- Top speed: 90 km/h (56 mph)
- Cruise speed: 60 km/h (37 mph)
- Climb rate: 10 m/s (22 mph)
- Wind resistance: 8 m/s (18 mph)

ARMAMENT CHARACTERISTICS :

- Type and quantity: 3 x 57 mm aircraft rockets (S5, BR-1-57, BR-2-57 or BR-20-57)
- Rocket calibre: 57 mm (2.24")
- Mass of a single rocket: around 4000 g (8.8 lb)
- Rocket length: around 900mm (35.4")

All the data given in the brochure are for information purposes only. The final configuration and/or technical specification are defined for each contract individually.