

ROTARY WING DRONE „IKA-MACHINE-GUN“

Armed with 7.62 calibre machine gun



PURPOSE:

IKA-MACHINE-GUN is a certified military-grade, rotary-wing hexacopter designed and built by **PR-DC**. 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 250 bullets for 7.62 calibre machine gun.

MAIN CHARACTERISTICS:

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|--------------------------------------|---|
| 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. |

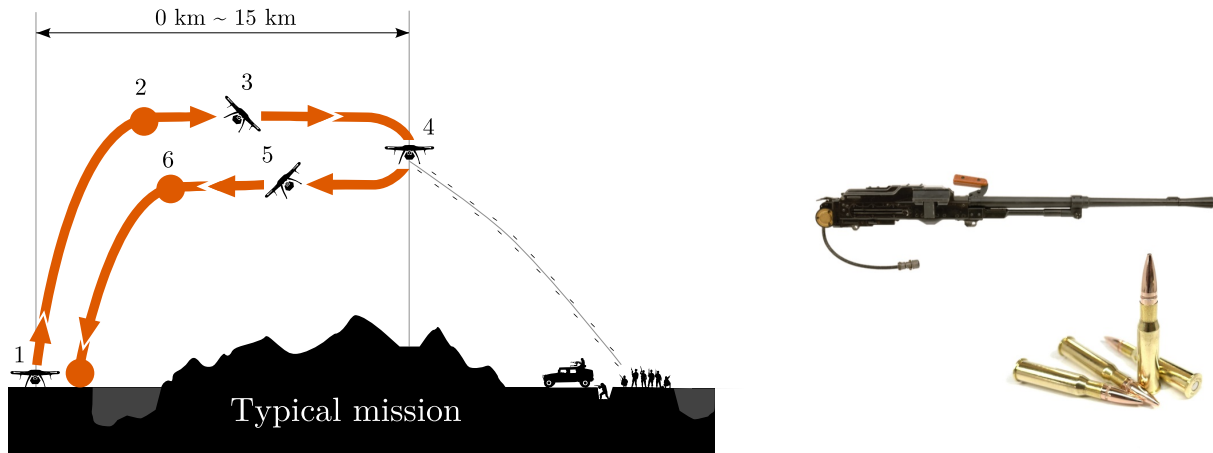


Figure 1 - Typical mission (left) and armament (right)

FLIGHT PERFORMANCE:

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|----------------------|--|
| 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: | Single machine gun M86 with 250 rounds 7.62 x 54R calibre |
| Number of grooves: | four |
| Length: | 1100 mm (43.3") |
| Barrel length: | 780 mm (30.7") |
| Effective range: | 1000 m (3280 ft) |
| Weight: | 11.6 kg (25.6 lbs) |
| Rate of fire: | 700 - 800 rds/min |