

## ROTARY WING DRONE „IKA-BOMBER“

Armed with 12 aerial bombs with a diameter of 60 mm



### PURPOSE:

**IKA-BOMBER** 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 twelve 60 mm aerial bombs (e.g., Krušik M73), deploying them one by one with pinpoint accuracy to neutralize multiple targets.

### MAIN CHARACTERISTICS:

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

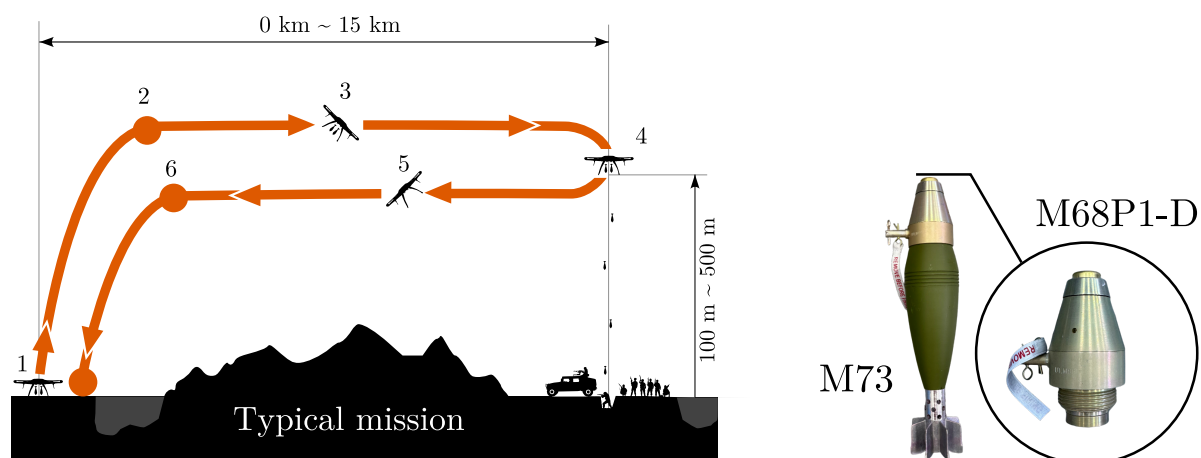


Figure 1 - Typical mission (left) and armament (right)

### 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:	12 aerial bombs with a diameter of 60 mm
Bomb length with fuze:	286 mm (11.3")
Fuze type:	impact, superquick action, specially designed for drone use
Fuze safety:	two safety pins (transport and release)
Mass of a single bomb with fuze:	1350 g (3 lb)
Explosive charge:	trotyl (TNT)
Mass of explosive charge:	250 g (0.55 lb)
Blast radius (1 penetration / m <sup>2</sup> ):	10 m (33 ft)
Safe operation temperature range:	-30°C to +50°C (-22°F to 122°F)
Release altitude above ground:	>150 m (> 500 ft)