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ROTARY WING DRONE „GANNET“

For air defense forces training and anti-drone systems testing

DESCRIPTION :

The GANNET drone (codename RW-TARGET-150) is a low-cost, fully electric, vertical take-off and landing, rotary-wing quad- copter drone designed and produced. It features a very rigid all-aluminum airframe and single-button, mainte- nance-free operation. The aircraft?s unique geometry enables high-speed flight untypical for multicopters of similar size. Flight can be programmed to be fully autonomous (including swarms), and the drone can be fitted with various equipment such as LED screens, a decoy flare launcher, various electromagnetic radiation sources, etc. The system includes a flight recorder for further data analysis.

PURPOSE :

- Detection, tracking and shooting training for air defense systems using up to 40 mm caliber ammunition.
- Detection, tracking and shooting training for missile air defense systems using radar.
- Detection, tracking and targeting training for passive mode systems using television and thermal imaging sensors.
- Detection, tracking and targeting training using the IR sensors.
- In case of conflict, it can be used as a cost-effective decoy.

MAIN CHARACTERISTICS :

- Powertrain and power source : 4 BLDC electric motors and 2.8 kWh replaceable lithium-based battery pack
- 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 : 2320 mm x 2300 mm x 855 mm (7.6 ft x 7.5 ft x 2.8 ft)
  Transport package dimensions : 1240 mm x 610 mm x 550 mm (4 ft x 2 ft x 1.8 ft)
- Structure material: Aluminum and composite materials
- MTOW / Optimal payload: 40 kg / 5 kg (88 lb / 11 lb)
- Remote controller : IKA-CTRL with custom FlightControl App
- Equipment : FPV camera

FLIGHT PERFORMANCE :

- Mission radius : from 5 km to 15 km (from 3 miles to 9 miles)
- Flight time : up to 30 minutes
- Max flight distance : up to 30 km (19 miles)
- Top speed : 100 km/h (62 mph)
- Cruise speed : 60 km/h (37 mph)
- Climb rate : 10 m/s (22 mph)
- Wind resistance : 8 m/s (18 mph)

FLIGHT-READY SYSTEM INCLUDES :

1. Drone RW-TARGET-150 in transportation box (EXD-86001) - 1 pc
2. Remote controller IKA-CTRL in transportation box (IKA-CTRL) - 1 pc
3. Battery pack with monitoring (4 independent batteries) in transportation box (4xB-Li-Po-12-16) - 1 pc
4. Two-channel battery charger in transportation box (BC-12-15-2) - 2 pcs

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