

# ALPHA UNMANNED SYSTEMS

## UAV HELICOPTERS FOR HARD WORK



### The Company

With over 10 years of experience working closely with the world's most important defense customers, Alpha's unmanned helicopters support key maritime security and ISTAR tactical missions.

Our A800 and A900 rotary UAV platforms are fully autonomous and fuel powered, giving them unmatched range and mission flexibility. Alpha is an independent, privately held company and is ISO9001 certified.

### Key Features of our A900 Rotary UAV Platform

4H FLIGHT AUTONOMY	UP TO 8L FUEL TANK	SPECIALIZED IN MARITIME MISSIONS	AUTOROTATION
UP TO 4 KG PAYLOAD CAPACITY	FULLY AUTOMATIC MISSION EXECUTION	REDUNDANT CRITICAL SYSTEMS	UP TO A 100 KM RANGE

### Tactical Applications

Alpha's unmanned helicopters are designed for high-stakes missions, where rapid deployment, simple operation, and seamless integration with tactical defense systems are critical to mission success.

- ▶ Maritime Surveillance
- ▶ SAR Operations
- ▶ Border Control
- ▶ Target Systems
- ▶ ISR Missions
- ▶ Key Infrastructure Inspection

### Reliable, Proven & Maritime Ready

**AUTOMATIC LANDING ON MOVING VESSELS**

**MINIMAL LOGISTICAL FOOTPRINT**

**AUTO-ROTATION & FLOATING DEVICES**

**VESSEL LANDINGS WITH 10° PITCH & ROLL**

### Our Customers



## UAV Platform Specifications

### ALPHA 900



- ▶ 4HR AUTONOMY
- ▶ 100KM+ RANGE
- ▶ <25KG MTOW
- ▶ 4KG PAYLOAD
- ▶ AUTOROTATION
- ▶ FUEL POWERED

- Cruise speed: 60-100 Km/h
- GPS denied navigation
- Boxer low vibration engine
- Redundant critical systems
- Built for "STANAG" compliance
- Automated autorotation
- Fully autonomous flight
- Onboard 150W generator to power payloads
- Electrical components IP64 compliant or higher
- 4 payload bays for flexible, interchangeable sensors

### ALPHA 800



- ▶ 2.5HR AUTONOMY
- ▶ 50KM+ RANGE
- ▶ <15KG MTOW
- ▶ 2.5KG PAYLOAD
- ▶ AUTOROTATION
- ▶ FUEL POWERED

- Light, resistant chassis fabricated using aviation-grade aluminium & carbon fibre
- High precision antenna and GNSS sensors for navigation
- 2 stroke, fuel-powered engine
- Onboard generator to power payloads
- Electrical components are IP64 compliant or higher
- Automated autorotation
- Fully autonomous flight
- Flexible payload bays for interchangeable sensors.

## Payload & Sensor Integration

Alpha's rotary UAV platforms support a wide range of interchangeable payloads and sensors, including:

- ▶ EO/IR cameras
- ▶ Maritime AIS Radar
- ▶ LiDAR
- ▶ IMSI Capture

## Control Systems

Alpha Unmanned Systems designs and manufactures the GCASE-Duo and VCS control systems for ground and vessel-based operations. They can be used with any UXV platform.

### GCASE DUO

A ruggedized stand-alone control station designed to operate in harsh conditions. Two 15" sun-readable screens that permit UXV operators to work side by side.

### VCS

Our integrated vessel-based control station and gyro-stabilized high-gain tracking antenna for maritime UXV operations.

