CHAKLUN

for aerial reconnaissance

RC DIRECTION

SKY FORWARD

The UAV complex "Chaklun" is a multifunctional mobile system designed for conducting aerial visual reconnaissance. Thanks to the unmanned aerial vehicles (UAVs) included in the complex, it can carry out **reconnaissance, patrol, correction, and search** operations. Due to their small size and the radio-transparent material of the body, the aircraft are almost invisible on radars, allowing them to penetrate deep into enemy territory undetected.

The UAV is controlled using a remote control and the ChaklunLRS software complex. **The ChaklunLRS software** is a hardware-software solution developed by our programmers in collaboration with the military, enabling full control of the UAV and its autopilot.

Communication with the UAV operates through frequency-hopping spread spectrum (FHSS), which helps maintain control in areas affected by enemy electronic warfare (EW). **The maximum communication range is 75 km.**

Additional software features allow real-time tracking of the aircraft on a map. Flights along the route are performed without using GPS. An in-house triangulation method is used to position the airplane in space.

Video communication is ensured through custom-made antennas precisely tuned to the required frequency, providing a stable signal and data transmission **up to 55-65 km.**

The aircraft features two cameras for aerial photo/video reconnaissance:
1 .A course camera for visual orientation and real-time observation.
2. A replaceable main camera module, offering options for:
- 4K time-lapse photos or high-quality video.
- Real-time streaming with high-quality imagery.

"The Chaklun has been **officially approved** for reconnaissance operation **by the Ministry of Defence of Ukraine.** Complex is being actively investigated by the AFU from 2022."

NATO NOMENCLATURE
1550-61-015-7322

TACTICAL AND TECHNICAL CHARACTERISTICS (TTC)

LENGTH OF THE AIRFRAME
960 mm

FLIGHT DURATION
up to 2 hours

MAXIMUM FLIGHT ALTITUDE
up to 3000 m

WINGSPAN
1390 mm

MAXIMUM FLIGHT SPEED
125 km/h

ENGINE TYPE
electric motor powered by battery

TAKEOFF WEIGHT
2.8±0.5 kg

CRUISE SPEED
80 km/h

CONTROL
automatic/remote

MAXIMUM WIND SPEED
up to 12 m/s

COMMUNICATION RANGE
75 km

OPERATING TEMPERATURE
-15...+30 °C

ABOUT THE COMPANY

Founded in 2022

- Developing highly capable UAV's for the military purposes
- Scientific research approach in production
- Manufacture system can be easily constructed anywhere within 2 months
- Engineering and constructing modifications
- Decentralized production model
- Pilot school
- Production area of more than 1200 m²

MODIFICATIONS:

Reconnaissance

Drop system

UAS COMPOSITION

1. Unmanned aerial vehicle - 2 units
2. Ground Control Station
3. Launching Device

COLOR VARIATION

CHAKLUN *CHAKLUN-K* *CHAKLUN 2.0* *INTERCEPTOR* *INTERCEPTOR 2.0* *CHAKLUN-B* *CHAKLUN-B 2.0*